

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

EMNRD-OCD ARTESIA

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44000	Pool Code 98220	Pool Name Purple Sage; Wolfcamp
Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 31H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2990.8'

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	760	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		203	NORTH	299	WEST	EDDY

Dedicated Acres 640	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

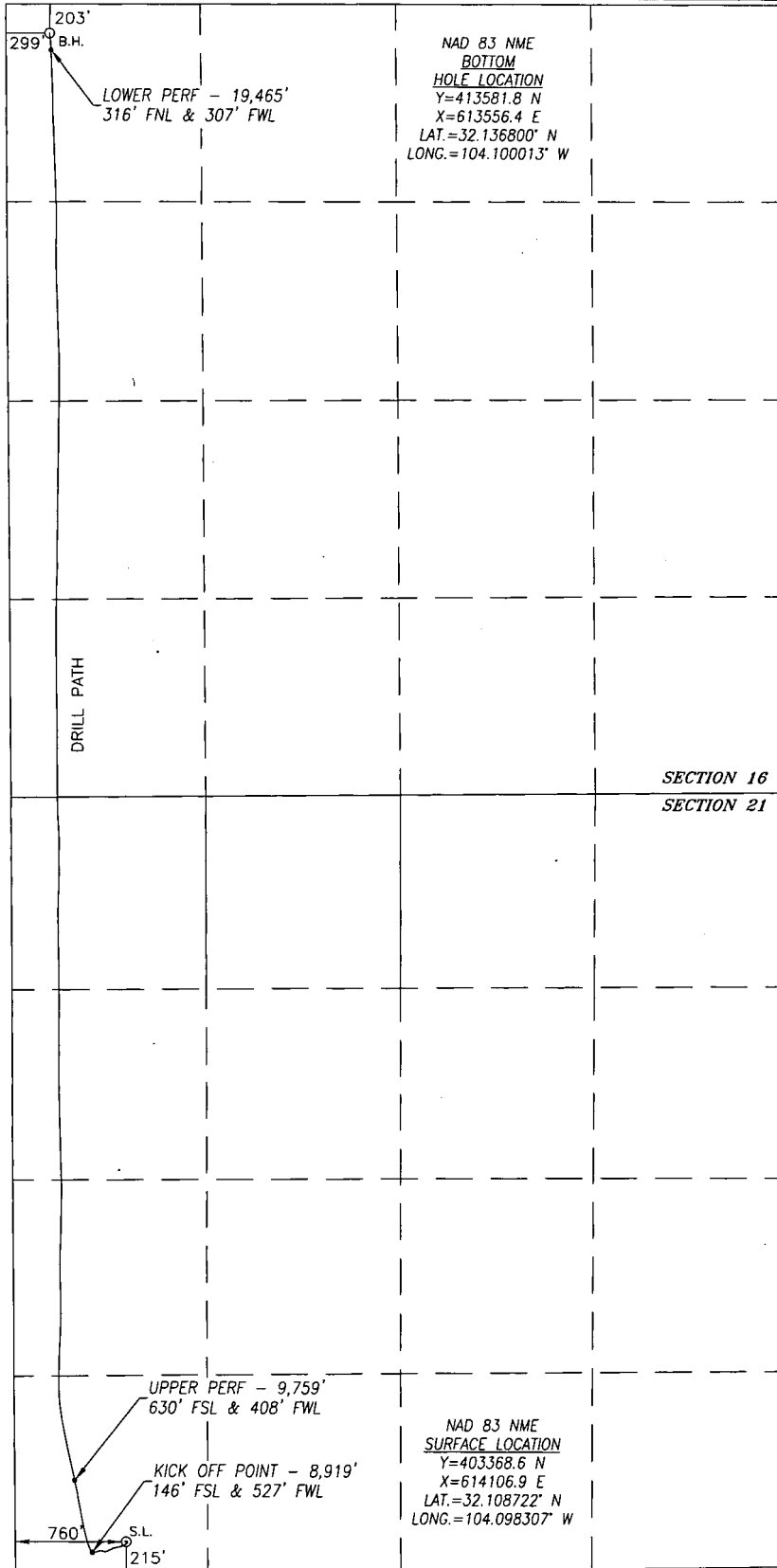
SEE PAGE 2

PAGE 1 OF 2

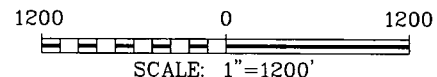
W.O. #19-2100

DRAWN BY: WN

Property Code 38521	Property Name MYOX 21 STATE COM	Well Number 31H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2990.8'



SURFACE INFO AND BOREPATH SHOWN HEREON
IS BASED ON DIRECTIONAL SURVEY REPORT
PROVIDED BY COG OPERATING, LLC FOR THE
MYOX 21 STATE COM #31H SUPPLIED TO
HARCROW SURVEYING, LLC ON NOVEMBER 7,
2019



OPERATOR CERTIFICATION

I hereby certify that the information
herein is true and complete to the best of
my knowledge and belief, and that this
organization either owns a working interest
or unleased mineral interest in the land
including the proposed bottom hole location
or has a right to drill this well at this
location pursuant to a contract with an
owner of such mineral or working interest,
or to a voluntary pooling agreement or a
compulsory pooling order heretofore entered
by the division.

Amanda Avery 11/26/19
Signature Date

Amanda Avery

Printed Name

aaavery@concho.com

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location
shown on this plat was plotted from field
notes of actual surveys made by me or
under my supervision, and that the same is
true and correct to the best of my belief.

JAN. 8, 2019/JUNE 21, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 11/19/19
Certificate No. CHAD HARCROW 17777

RECEIVED

JAN 07 2020

EMNRD-OCD ARTESIA

Intent ☐ As Drilled ☒ X

API #
30-015-44000

Operator Name: COG OPERATING, LLC	Property Name: MYOX 21 STATE COM	Well Number 31H
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Kick Off Point (KOP)

UL M	Section 21	Township 25S	Range 28E	Lot	Feet 146	From N/S SOUTH	Feet 527	From E/W WEST	County EDDY
Latitude 32.108526					Longitude -104.099058			NAD 83	

First Take Point (FTP)

UL M	Section 21	Township 25S	Range 28E	Lot	Feet 630	From N/S SOUTH	Feet 408	From E/W WEST	County EDDY
Latitude 32.109855					Longitude -104.099452			NAD 83	

Last Take Point (LTP)

330 ok 50' variance for 501/drlg. pub.

UL D	Section 16	Township 25S	Range 28E	Lot	Feet 316	From N/S NORTH	Feet 307	From E/W WEST	County EDDY
Latitude 32.136488					Longitude -104.099987			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

No

Is this well an infill well?

Yes

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #
30-015-45373

Operator Name: COG Operating LLC	Property Name: Myox 21 State Com	Well Number 35H
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KZ 06/29/2018



C O N C H O

RECEIVED

JAN 07 2020

EMNRD-OCD ARTESIA

Concho Resources, Inc.

Eddy County (NAD27 NME)

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

Myox 21 State Com #31H

API# 30-015-44000

OWB

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

Design: AWB

Standard Survey Report

18 June, 2019

INTREPID



Intrepid Survey Report



Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

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 #31H		
Well Position	+N/-S	0.0 usft	Northing: 403,310.90 usft
	+E/-W	0.0 usft	Easting: 572,922.70 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 30.956 N
		Longitude:	104° 5' 52.141 W
		Ground Level:	2,990.8 usft

Wellbore	OWB		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	02/05/19	7.01	59.85	47,648.69246641

Design	AWB		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	357.09

Survey Program	Date	06/18/19		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	8,798.0	SDI Gyro Svys (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,923.0	19,579.0	Intrepid MWD Crv/Lat (OWB)	MWD+IFR1+MS	MWD + IFR1 + Multi-Station Correction

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.86	267.44	100.0	0.0	-0.7	0.0	0.86	0.86	0.00
125.0	0.68	266.38	125.0	-0.1	-1.1	0.0	0.72	-0.72	-4.24
150.0	0.73	265.28	150.0	-0.1	-1.4	0.0	0.21	0.20	-4.40
175.0	0.66	267.85	175.0	-0.1	-1.7	0.0	0.31	-0.28	10.28
200.0	0.82	260.94	200.0	-0.1	-2.0	0.0	0.73	0.64	-27.64
225.0	0.56	268.18	225.0	-0.2	-2.3	0.0	1.09	-1.04	28.96
250.0	0.61	264.78	250.0	-0.2	-2.6	0.0	0.24	0.20	-13.60
275.0	0.68	257.24	275.0	-0.2	-2.8	-0.1	0.44	0.28	-30.16
300.0	0.74	257.43	300.0	-0.3	-3.1	-0.1	0.24	0.24	0.76

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:
Project:	Eddy County (NAD27 NME)	TVD Reference:	Well Myox 21 State Com #31H
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	KB @ 3021.8usft (Precision 106)
Wellbore:	OWB	Survey Calculation	Grid
Design:	AWB	Database:	Method: Minimum Curvature
			EDM 5000.15 Single User Db

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)
304.0	0.75	256.29	304.0	-0.3	-3.2	-0.1	0.50	0.34	-28.26
Rustler									
325.0	0.83	251.00	325.0	-0.4	-3.5	-0.2	0.50	0.36	-25.23
350.0	0.78	262.37	350.0	-0.5	-3.8	-0.3	0.67	-0.20	45.48
375.0	0.77	264.76	375.0	-0.5	-4.2	-0.3	0.14	-0.04	9.56
400.0	0.72	264.46	400.0	-0.5	-4.5	-0.3	0.20	-0.20	-1.20
425.0	0.79	266.25	425.0	-0.6	-4.8	-0.3	0.30	0.28	7.16
450.0	1.01	267.35	450.0	-0.6	-5.2	-0.3	0.88	0.88	4.40
475.0	1.00	264.73	475.0	-0.6	-5.6	-0.3	0.19	-0.04	-10.48
500.0	0.98	269.95	500.0	-0.6	-6.1	-0.3	0.37	-0.08	20.88
525.0	1.12	276.25	525.0	-0.6	-6.5	-0.3	0.73	0.56	25.20
550.0	1.39	275.79	549.9	-0.5	-7.1	-0.2	1.08	1.08	-1.84
575.0	1.35	275.73	574.9	-0.5	-7.7	-0.1	0.16	-0.16	-0.24
600.0	1.29	277.87	599.9	-0.4	-8.2	0.0	0.31	-0.24	8.56
625.0	1.18	284.85	624.9	-0.3	-8.8	0.1	0.74	-0.44	27.92
650.0	1.22	283.68	649.9	-0.2	-9.3	0.3	0.19	0.16	-4.68
669.1	1.18	285.33	669.0	-0.1	-9.7	0.4	0.27	-0.20	8.63
TOS									
675.0	1.17	285.86	674.9	-0.1	-9.8	0.4	0.27	-0.20	9.00
700.0	1.29	281.90	699.9	0.1	-10.3	0.6	0.59	0.48	-15.84
725.0	1.13	291.30	724.9	0.2	-10.8	0.8	1.02	-0.64	37.60
750.0	1.05	292.37	749.9	0.4	-11.2	1.0	0.33	-0.32	4.28
775.0	1.03	299.35	774.9	0.6	-11.6	1.2	0.51	-0.08	27.92
800.0	1.01	300.31	799.9	0.8	-12.0	1.4	0.11	-0.08	3.84
825.0	1.00	308.04	824.9	1.1	-12.4	1.7	0.54	-0.04	30.92
850.0	0.70	324.37	849.9	1.3	-12.7	2.0	1.53	-1.20	65.32
875.0	0.54	16.06	874.9	1.6	-12.7	2.2	2.24	-0.64	206.76
900.0	0.67	38.38	899.9	1.8	-12.6	2.4	1.07	0.52	89.28
925.0	0.74	48.91	924.9	2.0	-12.4	2.6	0.59	0.28	42.12
950.0	0.72	55.67	949.9	2.2	-12.1	2.8	0.35	-0.08	27.04
975.0	0.77	51.81	974.9	2.4	-11.9	3.0	0.28	0.20	-15.44
1,000.0	0.55	57.15	999.9	2.6	-11.6	3.2	0.91	-0.88	21.36
1,025.0	0.35	58.67	1,024.9	2.7	-11.5	3.2	0.80	-0.80	6.08
1,050.0	0.27	52.56	1,049.9	2.7	-11.4	3.3	0.35	-0.32	-24.44
1,075.0	0.21	78.28	1,074.9	2.8	-11.3	3.4	0.49	-0.24	102.88
1,100.0	0.24	83.67	1,099.9	2.8	-11.2	3.4	0.15	0.12	21.56
1,125.0	0.09	64.41	1,124.9	2.8	-11.1	3.4	0.63	-0.60	-77.04
1,150.0	0.17	78.26	1,149.9	2.8	-11.0	3.4	0.34	0.32	55.40
1,175.0	0.15	100.30	1,174.9	2.8	-11.0	3.4	0.26	-0.08	88.16
1,200.0	0.20	106.49	1,199.9	2.8	-10.9	3.4	0.21	0.20	24.76
1,225.0	0.26	93.64	1,224.9	2.8	-10.8	3.3	0.32	0.24	-51.40
1,250.0	0.25	86.58	1,249.9	2.8	-10.7	3.3	0.13	-0.04	-28.24
1,275.0	0.57	95.10	1,274.9	2.8	-10.5	3.3	1.30	1.28	34.08

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
1,300.0	0.61	94.91	1,299.9	2.8	-10.3	3.3	0.16	0.16	-0.76
1,325.0	0.84	84.77	1,324.9	2.8	-9.9	3.3	1.05	0.92	-40.56
1,350.0	0.86	82.53	1,349.9	2.8	-9.6	3.3	0.16	0.08	-8.96
1,375.0	0.93	81.26	1,374.9	2.9	-9.2	3.3	0.29	0.28	-5.08
1,400.0	0.92	78.85	1,399.9	2.9	-8.8	3.4	0.16	-0.04	-9.64
1,425.0	0.96	74.54	1,424.9	3.0	-8.4	3.5	0.32	0.16	-17.24
1,450.0	1.17	70.12	1,449.9	3.2	-7.9	3.6	0.90	0.84	-17.68
1,475.0	1.28	73.85	1,474.8	3.3	-7.4	3.7	0.54	0.44	14.92
1,500.0	1.21	77.86	1,499.8	3.5	-6.9	3.8	0.45	-0.28	16.04
1,525.0	0.99	77.62	1,524.8	3.6	-6.4	3.9	0.88	-0.88	-0.96
1,550.0	0.83	76.41	1,549.8	3.7	-6.1	4.0	0.64	-0.64	-4.84
1,575.0	1.07	70.56	1,574.8	3.8	-5.7	4.1	1.03	0.96	-23.40
1,600.0	0.85	74.38	1,599.8	3.9	-5.3	4.2	0.92	-0.88	15.28
1,625.0	0.96	74.74	1,624.8	4.0	-4.9	4.3	0.44	0.44	1.44
1,650.0	0.90	78.03	1,649.8	4.1	-4.5	4.3	0.32	-0.24	13.16
1,675.0	0.97	80.76	1,674.8	4.2	-4.1	4.4	0.33	0.28	10.92
1,700.0	1.22	80.47	1,699.8	4.3	-3.6	4.4	1.00	1.00	-1.16
1,725.0	1.42	80.25	1,724.8	4.4	-3.0	4.5	0.80	0.80	-0.88
1,750.0	1.71	79.03	1,749.8	4.5	-2.4	4.6	1.17	1.16	-4.88
1,775.0	1.75	85.57	1,774.8	4.6	-1.6	4.7	0.81	0.16	26.16
1,800.0	2.13	88.69	1,799.8	4.6	-0.8	4.7	1.58	1.52	12.48
1,825.0	2.32	93.60	1,824.8	4.6	0.2	4.6	1.08	0.76	19.64
1,850.0	2.53	92.81	1,849.7	4.6	1.2	4.5	0.85	0.84	-3.16
1,875.0	2.41	97.87	1,874.7	4.5	2.3	4.3	1.00	-0.48	20.24
1,900.0	2.23	113.84	1,899.7	4.2	3.3	4.0	2.67	-0.72	63.88
1,925.0	1.95	126.54	1,924.7	3.7	4.1	3.5	2.16	-1.12	50.80
1,950.0	1.79	134.61	1,949.7	3.2	4.7	3.0	1.23	-0.64	32.28
1,975.0	1.51	149.26	1,974.6	2.6	5.1	2.4	2.02	-1.12	58.60
2,000.0	1.39	151.10	1,999.6	2.1	5.4	1.8	0.51	-0.48	7.36
2,025.0	1.11	152.98	2,024.6	1.6	5.7	1.3	1.13	-1.12	7.52
2,050.0	1.14	156.57	2,049.6	1.2	5.9	0.9	0.31	0.12	14.36
2,075.0	1.10	154.53	2,074.6	0.7	6.1	0.4	0.23	-0.16	-8.16
2,100.0	1.14	158.16	2,099.6	0.3	6.3	0.0	0.33	0.16	14.52
2,125.0	1.17	154.68	2,124.6	-0.2	6.5	-0.5	0.31	0.12	-13.92
2,150.0	1.05	157.12	2,149.6	-0.6	6.7	-1.0	0.52	-0.48	9.76
2,175.0	1.14	141.68	2,174.6	-1.0	7.0	-1.4	1.23	0.36	-61.76
2,200.0	1.18	138.88	2,199.6	-1.4	7.3	-1.8	0.28	0.16	-11.20
2,225.0	1.47	131.38	2,224.6	-1.8	7.7	-2.2	1.35	1.16	-30.00
2,229.4	1.46	130.59	2,229.0	-1.9	7.8	-2.3	0.49	-0.17	-17.82
BOS (Fletcher)									
2,250.0	1.43	126.82	2,249.6	-2.2	8.2	-2.6	0.49	-0.16	-18.33
2,275.0	1.80	117.85	2,274.6	-2.6	8.8	-3.0	1.79	1.48	-35.88
2,300.0	2.01	114.03	2,299.6	-3.0	9.5	-3.4	0.98	0.84	-15.28
2,325.0	1.89	117.44	2,324.5	-3.3	10.3	-3.8	0.67	-0.48	13.64

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
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Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,350.0	1.71	130.51	2,349.5	-3.8	10.9	-4.3	1.79	-0.72	52.28
2,375.0	1.26	159.33	2,374.5	-4.3	11.3	-4.8	3.43	-1.80	115.28
2,400.0	1.31	170.66	2,399.5	-4.8	11.5	-5.4	1.03	0.20	45.32
2,425.0	1.38	196.67	2,424.5	-5.4	11.4	-5.9	2.44	0.28	104.04
2,431.5	1.49	203.78	2,431.0	-5.5	11.4	-6.1	3.23	1.70	109.57
LMAR (Top Delaware)									
2,450.0	1.90	218.64	2,449.5	-6.0	11.1	-6.5	3.23	2.21	80.28
2,475.0	2.36	228.97	2,474.5	-6.6	10.4	-7.2	2.39	1.84	41.32
2,486.5	2.46	229.86	2,486.0	-7.0	10.1	-7.5	0.94	0.88	7.71
BYCN									
2,500.0	2.58	230.81	2,499.5	-7.3	9.6	-7.8	0.94	0.88	7.06
2,525.0	2.47	231.32	2,524.4	-8.0	8.8	-8.5	0.45	-0.44	2.04
2,550.0	2.59	229.20	2,549.4	-8.7	7.9	-9.1	0.61	0.48	-8.48
2,575.0	2.54	231.19	2,574.4	-9.4	7.0	-9.8	0.41	-0.20	7.96
2,600.0	2.85	232.52	2,599.4	-10.2	6.1	-10.5	1.26	1.24	5.32
2,625.0	2.68	224.45	2,624.3	-11.0	5.2	-11.2	1.70	-0.68	-32.28
2,650.0	2.63	230.28	2,649.3	-11.7	4.4	-12.0	1.10	-0.20	23.32
2,675.0	2.62	231.24	2,674.3	-12.5	3.5	-12.6	0.18	-0.04	3.84
2,700.0	2.77	228.03	2,699.3	-13.2	2.6	-13.3	0.85	0.60	-12.84
2,725.0	2.70	227.72	2,724.2	-14.0	1.7	-14.1	0.29	-0.28	-1.24
2,750.0	2.81	229.39	2,749.2	-14.8	0.8	-14.9	0.54	0.44	6.68
2,775.0	2.73	231.98	2,774.2	-15.6	-0.1	-15.6	0.59	-0.32	10.36
2,800.0	2.72	233.86	2,799.1	-16.3	-1.1	-16.2	0.36	-0.04	7.52
2,825.0	2.95	234.54	2,824.1	-17.0	-2.1	-16.9	0.93	0.92	2.72
2,850.0	2.80	239.43	2,849.1	-17.7	-3.1	-17.5	1.15	-0.60	19.56
2,875.0	3.19	242.44	2,874.0	-18.4	-4.3	-18.1	1.68	1.56	12.04
2,900.0	3.23	242.52	2,899.0	-19.0	-5.5	-18.7	0.16	0.16	0.32
2,925.0	3.14	245.40	2,924.0	-19.6	-6.8	-19.2	0.73	-0.36	11.52
2,950.0	3.21	243.24	2,948.9	-20.2	-8.0	-19.8	0.55	0.28	-8.64
2,975.0	3.32	242.54	2,973.9	-20.9	-9.3	-20.4	0.47	0.44	-2.80
3,000.0	3.26	243.45	2,998.8	-21.5	-10.6	-20.9	0.32	-0.24	3.64
3,025.0	3.61	240.35	3,023.8	-22.2	-11.9	-21.6	1.58	1.40	-12.40
3,050.0	3.34	244.23	3,048.8	-22.9	-13.2	-22.2	1.43	-1.08	15.52
3,075.0	3.33	246.43	3,073.7	-23.5	-14.5	-22.8	0.51	-0.04	8.80
3,100.0	3.40	246.44	3,098.7	-24.1	-15.9	-23.3	0.28	0.28	0.04
3,125.0	3.48	245.78	3,123.6	-24.7	-17.3	-23.8	0.36	0.32	-2.64
3,150.0	3.49	247.48	3,148.6	-25.3	-18.7	-24.3	0.42	0.04	6.80
3,175.0	3.64	249.22	3,173.5	-25.9	-20.1	-24.8	0.74	0.60	6.96
3,200.0	3.77	250.09	3,198.5	-26.5	-21.6	-25.3	0.57	0.52	3.48
3,225.0	3.84	250.93	3,223.4	-27.0	-23.2	-25.8	0.36	0.28	3.36
3,250.0	3.94	250.51	3,248.4	-27.6	-24.8	-26.3	0.42	0.40	-1.68
3,275.0	4.00	251.12	3,273.3	-28.1	-26.4	-26.8	0.29	0.24	2.44
3,300.0	3.87	252.32	3,298.2	-28.7	-28.0	-27.2	0.62	-0.52	4.80

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:
Project:	Eddy County (NAD27 NME)	TVD Reference:	Well Myox 21 State Com #31H
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	KB @ 3021.8usft (Precision 106)
Wellbore:	OWB	Survey Calculation	Grid
Design:	AWB	Database:	Method: Minimum Curvature
			EDM 5000.15 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,316.8	3.88	251.32	3,315.0	-29.0	-29.1	-27.5	0.40	0.04	-5.96	
CYCN										
3,325.0	3.88	250.83	3,323.2	-29.2	-29.6	-27.7	0.40	0.04	-5.95	
3,350.0	3.96	253.79	3,348.1	-29.7	-31.3	-28.1	0.87	0.32	11.84	
3,375.0	3.75	255.02	3,373.1	-30.2	-32.9	-28.5	0.90	-0.84	4.92	
3,400.0	4.23	252.12	3,398.0	-30.7	-34.6	-28.9	2.08	1.92	-11.60	
3,425.0	3.78	251.89	3,422.9	-31.2	-36.2	-29.3	1.80	-1.80	-0.92	
3,450.0	3.78	252.66	3,447.9	-31.7	-37.8	-29.8	0.20	0.00	3.08	
3,475.0	3.54	253.66	3,472.8	-32.2	-39.3	-30.1	0.99	-0.96	4.00	
3,500.0	3.23	254.56	3,497.8	-32.6	-40.7	-30.5	1.26	-1.24	3.60	
3,525.0	3.36	255.50	3,522.8	-33.0	-42.1	-30.8	0.56	0.52	3.76	
3,550.0	3.23	252.93	3,547.7	-33.3	-43.5	-31.1	0.79	-0.52	-10.28	
3,575.0	3.48	255.73	3,572.7	-33.7	-44.9	-31.4	1.20	1.00	11.20	
3,600.0	3.91	251.98	3,597.6	-34.2	-46.5	-31.8	1.97	1.72	-15.00	
3,625.0	3.27	257.85	3,622.6	-34.6	-48.0	-32.1	2.95	-2.56	23.48	
3,650.0	3.41	254.07	3,647.5	-35.0	-49.4	-32.4	1.04	0.56	-15.12	
3,675.0	3.08	255.54	3,672.5	-35.3	-50.7	-32.7	1.36	-1.32	5.88	
3,700.0	2.97	256.15	3,697.5	-35.7	-52.0	-33.0	0.46	-0.44	2.44	
3,725.0	2.86	255.14	3,722.4	-36.0	-53.3	-33.2	0.49	-0.44	-4.04	
3,750.0	2.83	255.85	3,747.4	-36.3	-54.5	-33.5	0.19	-0.12	2.84	
3,775.0	2.77	257.77	3,772.4	-36.6	-55.6	-33.7	0.45	-0.24	7.68	
3,800.0	2.77	255.97	3,797.3	-36.8	-56.8	-33.9	0.35	0.00	-7.20	
3,825.0	2.55	256.17	3,822.3	-37.1	-57.9	-34.1	0.88	-0.88	0.80	
3,850.0	2.19	260.83	3,847.3	-37.3	-59.0	-34.3	1.63	-1.44	18.64	
3,875.0	2.17	260.88	3,872.3	-37.5	-59.9	-34.4	0.08	-0.08	0.20	
3,900.0	2.44	261.11	3,897.2	-37.6	-60.9	-34.5	1.08	1.08	0.92	
3,925.0	2.11	260.97	3,922.2	-37.8	-61.9	-34.6	1.32	-1.32	-0.56	
3,950.0	2.11	261.70	3,947.2	-37.9	-62.8	-34.7	0.11	0.00	2.92	
3,975.0	2.25	261.20	3,972.2	-38.1	-63.7	-34.8	0.57	0.56	-2.00	
4,000.0	2.28	258.77	3,997.2	-38.2	-64.7	-34.9	0.40	0.12	-9.72	
4,025.0	2.12	259.07	4,022.2	-38.4	-65.6	-35.0	0.64	-0.64	1.20	
4,050.0	2.17	263.37	4,047.1	-38.6	-66.6	-35.1	0.67	0.20	17.20	
4,075.0	2.16	263.21	4,072.1	-38.7	-67.5	-35.2	0.05	-0.04	-0.64	
4,100.0	2.24	263.91	4,097.1	-38.8	-68.5	-35.3	0.34	0.32	2.80	
4,125.0	2.28	263.20	4,122.1	-38.9	-69.4	-35.3	0.20	0.16	-2.84	
4,150.0	2.62	257.73	4,147.1	-39.1	-70.5	-35.4	1.65	1.36	-21.88	
4,175.0	2.23	262.38	4,172.0	-39.3	-71.5	-35.6	1.75	-1.56	18.60	
4,200.0	2.22	263.21	4,197.0	-39.4	-72.5	-35.6	0.13	-0.04	3.32	
4,225.0	2.38	261.90	4,222.0	-39.5	-73.5	-35.7	0.67	0.64	-5.24	
4,250.0	2.46	261.40	4,247.0	-39.7	-74.5	-35.8	0.33	0.32	-2.00	
4,275.0	2.49	263.88	4,272.0	-39.8	-75.6	-35.9	0.44	0.12	9.92	
4,300.0	2.39	263.58	4,296.9	-39.9	-76.7	-36.0	0.40	-0.40	-1.20	
4,325.0	2.19	261.13	4,321.9	-40.1	-77.6	-36.1	0.89	-0.80	-9.80	
4,350.0	2.20	259.47	4,346.9	-40.2	-78.6	-36.2	0.26	0.04	-6.64	

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,375.0	1.94	255.86	4,371.9	-40.4	-79.5	-36.3	1.16	-1.04	-14.44
4,400.0	2.19	256.05	4,396.9	-40.6	-80.3	-36.5	1.00	1.00	0.76
4,425.0	2.02	257.63	4,421.8	-40.8	-81.2	-36.7	0.72	-0.68	6.32
4,450.0	2.05	255.25	4,446.8	-41.0	-82.1	-36.8	0.36	0.12	-9.52
4,475.0	1.78	251.52	4,471.8	-41.3	-82.9	-37.0	1.19	-1.08	-14.92
4,500.0	1.73	253.22	4,496.8	-41.5	-83.6	-37.2	0.29	-0.20	6.80
4,525.0	1.45	255.32	4,521.8	-41.7	-84.3	-37.4	1.14	-1.12	8.40
4,550.0	1.86	254.34	4,546.8	-41.9	-85.0	-37.5	1.64	1.64	-3.92
4,565.2	1.98	253.85	4,562.0	-42.0	-85.5	-37.6	0.77	0.76	-3.20
BYCN									
4,575.0	2.05	253.57	4,571.8	-42.1	-85.8	-37.7	0.77	0.76	-2.90
4,600.0	1.90	255.39	4,596.7	-42.4	-86.6	-37.9	0.65	-0.60	7.28
4,625.0	1.84	251.28	4,621.7	-42.6	-87.4	-38.1	0.59	-0.24	-16.44
4,650.0	1.83	246.22	4,646.7	-42.9	-88.2	-38.3	0.65	-0.04	-20.24
4,675.0	1.76	246.91	4,671.7	-43.2	-88.9	-38.6	0.29	-0.28	2.76
4,700.0	1.91	245.47	4,696.7	-43.5	-89.6	-38.9	0.63	0.60	-5.76
4,725.0	1.85	243.93	4,721.7	-43.9	-90.4	-39.2	0.31	-0.24	-6.16
4,750.0	1.94	239.75	4,746.7	-44.3	-91.1	-39.6	0.66	0.36	-16.72
4,775.0	1.84	236.59	4,771.7	-44.7	-91.8	-40.0	0.58	-0.40	-12.64
4,800.0	1.92	238.91	4,796.6	-45.1	-92.5	-40.4	0.44	0.32	9.28
4,825.0	1.78	239.09	4,821.6	-45.5	-93.2	-40.7	0.56	-0.56	0.72
4,850.0	1.80	238.80	4,846.6	-45.9	-93.8	-41.1	0.09	0.08	-1.16
4,875.0	1.82	236.27	4,871.6	-46.4	-94.5	-41.5	0.33	0.08	-10.12
4,900.0	1.78	241.31	4,896.6	-46.8	-95.2	-41.9	0.65	-0.16	20.16
4,925.0	1.87	239.70	4,921.6	-47.2	-95.9	-42.2	0.41	0.36	-6.44
4,950.0	1.83	240.05	4,946.6	-47.6	-96.6	-42.6	0.17	-0.16	1.40
4,975.0	1.91	239.64	4,971.6	-48.0	-97.3	-43.0	0.32	0.32	-1.64
5,000.0	2.04	237.40	4,996.5	-48.4	-98.0	-43.4	0.60	0.52	-8.96
5,025.0	2.12	240.36	5,021.5	-48.9	-98.8	-43.8	0.54	0.32	11.84
5,050.0	2.04	244.69	5,046.5	-49.3	-99.6	-44.2	0.71	-0.32	17.32
5,075.0	2.00	246.09	5,071.5	-49.7	-100.4	-44.5	0.25	-0.16	5.60
5,100.0	1.70	248.73	5,096.5	-50.0	-101.1	-44.8	1.25	-1.20	10.56
5,125.0	1.83	250.69	5,121.5	-50.3	-101.9	-45.0	0.57	0.52	7.84
5,150.0	2.01	252.65	5,146.5	-50.5	-102.7	-45.2	0.77	0.72	7.84
5,175.0	1.83	249.16	5,171.4	-50.8	-103.5	-45.5	0.86	-0.72	-13.96
5,200.0	1.80	254.24	5,196.4	-51.0	-104.2	-45.7	0.65	-0.12	20.32
5,225.0	1.74	253.19	5,221.4	-51.3	-104.9	-45.9	0.27	-0.24	-4.20
5,250.0	1.89	251.90	5,246.4	-51.5	-105.7	-46.1	0.62	0.60	-5.16
5,275.0	1.90	248.98	5,271.4	-51.8	-106.5	-46.3	0.39	0.04	-11.68
5,300.0	1.87	253.53	5,296.4	-52.0	-107.3	-46.5	0.61	-0.12	18.20
5,325.0	1.69	250.28	5,321.4	-52.3	-108.0	-46.7	0.83	-0.72	-13.00
5,350.0	1.70	249.57	5,346.4	-52.5	-108.7	-46.9	0.09	0.04	-2.84
5,375.0	1.77	252.86	5,371.3	-52.8	-109.4	-47.2	0.49	0.28	13.16

Company:	Concho Resources, Inc.	Local Co-ordinate Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:	KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)	
5,400.0	1.91	246.03	5,396.3	-53.1	-110.2	-47.4	1.04	0.56	-27.32	
5,425.0	1.68	246.08	5,421.3	-53.4	-110.9	-47.7	0.92	-0.92	0.20	
5,450.0	1.58	246.83	5,446.3	-53.7	-111.5	-47.9	0.41	-0.40	3.00	
5,475.0	1.50	250.20	5,471.3	-53.9	-112.1	-48.1	0.48	-0.32	13.48	
5,500.0	1.50	250.57	5,496.3	-54.1	-112.8	-48.3	0.04	0.00	1.48	
5,525.0	1.54	246.30	5,521.3	-54.4	-113.4	-48.5	0.48	0.16	-17.08	
5,550.0	1.49	246.30	5,546.3	-54.6	-114.0	-48.8	0.20	-0.20	0.00	
5,575.0	1.56	247.07	5,571.3	-54.9	-114.6	-49.0	0.29	0.28	3.08	
5,600.0	1.58	247.09	5,596.3	-55.2	-115.2	-49.2	0.08	0.08	0.08	
5,625.0	1.57	247.43	5,621.2	-55.4	-115.9	-49.5	0.05	-0.04	1.36	
5,650.0	1.50	248.26	5,646.2	-55.7	-116.5	-49.7	0.29	-0.28	3.32	
5,675.0	1.62	248.40	5,671.2	-55.9	-117.1	-49.9	0.48	0.48	0.56	
5,700.0	1.57	243.72	5,696.2	-56.2	-117.7	-50.2	0.56	-0.20	-18.72	
5,725.0	1.51	242.50	5,721.2	-56.5	-118.3	-50.4	0.27	-0.24	-4.88	
5,750.0	1.48	243.80	5,746.2	-56.8	-118.9	-50.7	0.18	-0.12	5.20	
5,775.0	1.58	240.11	5,771.2	-57.1	-119.5	-51.0	0.56	0.40	-14.76	
5,800.0	1.60	245.43	5,796.2	-57.5	-120.1	-51.3	0.60	0.08	21.28	
5,825.0	1.45	243.31	5,821.2	-57.7	-120.7	-51.5	0.64	-0.60	-8.48	
5,850.0	1.42	242.62	5,846.2	-58.0	-121.3	-51.8	0.14	-0.12	-2.76	
5,875.0	1.53	245.51	5,871.2	-58.3	-121.9	-52.0	0.53	0.44	11.56	
5,900.0	1.59	248.19	5,896.1	-58.6	-122.5	-52.3	0.38	0.24	10.72	
5,925.0	1.65	250.23	5,921.1	-58.8	-123.2	-52.5	0.33	0.24	8.16	
5,950.0	1.53	250.74	5,946.1	-59.1	-123.8	-52.7	0.48	-0.48	2.04	
5,975.0	1.65	249.11	5,971.1	-59.3	-124.5	-52.9	0.51	0.48	-6.52	
6,000.0	1.65	249.36	5,996.1	-59.5	-125.1	-53.1	0.03	0.00	1.00	
6,025.0	1.67	249.18	6,021.1	-59.8	-125.8	-53.3	0.08	0.08	-0.72	
6,050.0	1.60	249.89	6,046.1	-60.1	-126.5	-53.6	0.29	-0.28	2.84	
6,075.0	1.67	250.01	6,071.1	-60.3	-127.2	-53.8	0.28	0.28	0.48	
6,100.0	1.67	249.38	6,096.1	-60.6	-127.8	-54.0	0.07	0.00	-2.52	
6,114.9	1.74	248.58	6,111.0	-60.7	-128.2	-54.1	0.50	0.48	-5.34	
Bone Sprg (BSGL)										
6,125.0	1.79	248.08	6,121.1	-60.8	-128.5	-54.2	0.50	0.48	-4.99	
6,150.0	1.89	245.99	6,146.0	-61.1	-129.3	-54.5	0.48	0.40	-8.36	
6,175.0	1.91	243.47	6,171.0	-61.5	-130.0	-54.8	0.34	0.08	-10.08	
6,200.0	1.92	245.67	6,196.0	-61.9	-130.8	-55.1	0.30	0.04	8.80	
6,225.0	1.94	244.80	6,221.0	-62.2	-131.5	-55.4	0.14	0.08	-3.48	
6,250.0	1.99	243.76	6,246.0	-62.6	-132.3	-55.8	0.25	0.20	-4.16	
6,275.0	2.06	242.94	6,271.0	-63.0	-133.1	-56.1	0.30	0.28	-3.28	
6,300.0	2.02	245.31	6,296.0	-63.4	-133.9	-56.5	0.37	-0.16	9.48	
6,325.0	2.12	241.41	6,320.9	-63.8	-134.7	-56.8	0.69	0.40	-15.60	
6,350.0	2.25	244.30	6,345.9	-64.2	-135.6	-57.2	0.68	0.52	11.56	
6,375.0	2.03	244.31	6,370.9	-64.6	-136.4	-57.6	0.88	-0.88	0.04	
6,400.0	1.96	243.81	6,395.9	-65.0	-137.2	-57.9	0.29	-0.28	-2.00	
6,425.0	1.86	244.28	6,420.9	-65.4	-137.9	-58.3	0.40	-0.40	1.88	

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation Method:		Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,450.0	1.80	243.25	6,445.9	-65.7	-138.7	-58.6	0.27	-0.24	-4.12
6,465.2	1.78	242.89	6,461.0	-65.9	-139.1	-58.8	0.14	-0.12	-2.35
U Avalon Sh									
6,475.0	1.77	242.66	6,470.8	-66.1	-139.3	-58.9	0.14	-0.12	-2.37
6,500.0	1.77	245.29	6,495.8	-66.4	-140.0	-59.2	0.32	0.00	10.52
6,525.0	1.70	244.83	6,520.8	-66.7	-140.7	-59.5	0.29	-0.28	-1.84
6,550.0	1.61	243.71	6,545.8	-67.0	-141.4	-59.8	0.38	-0.36	-4.48
6,575.0	1.40	241.58	6,570.8	-67.3	-142.0	-60.0	0.87	-0.84	-8.52
6,600.0	1.46	241.74	6,595.8	-67.6	-142.5	-60.3	0.24	0.24	0.64
6,625.0	1.47	240.96	6,620.8	-67.9	-143.1	-60.6	0.09	0.04	-3.12
6,650.0	1.43	243.37	6,645.8	-68.2	-143.6	-60.8	0.29	-0.16	9.64
6,668.2	1.27	252.88	6,664.0	-68.4	-144.0	-61.0	1.51	-0.88	52.19
L Avalon Sh									
6,675.0	1.22	257.01	6,670.8	-68.4	-144.2	-61.0	1.51	-0.73	60.94
6,700.0	1.29	266.50	6,695.8	-68.5	-144.7	-61.1	0.88	0.28	37.96
6,725.0	1.39	274.59	6,720.8	-68.5	-145.3	-61.0	0.85	0.40	32.36
6,750.0	1.37	286.80	6,745.8	-68.4	-145.9	-60.9	1.18	-0.08	48.84
6,775.0	1.54	294.06	6,770.7	-68.2	-146.5	-60.6	1.00	0.68	29.04
6,800.0	1.58	293.43	6,795.7	-67.9	-147.1	-60.3	0.17	0.16	-2.52
6,825.0	1.68	297.29	6,820.7	-67.6	-147.7	-60.0	0.59	0.40	15.44
6,850.0	1.65	294.23	6,845.7	-67.3	-148.4	-59.6	0.38	-0.12	-12.24
6,875.0	1.56	294.06	6,870.7	-67.0	-149.0	-59.3	0.36	-0.36	-0.68
6,900.0	1.47	301.67	6,895.7	-66.7	-149.6	-59.0	0.88	-0.36	30.44
6,925.0	1.51	300.33	6,920.7	-66.3	-150.2	-58.6	0.21	0.16	-5.36
6,950.0	1.42	309.04	6,945.7	-66.0	-150.7	-58.2	0.96	-0.36	34.84
6,975.0	1.39	311.68	6,970.7	-65.6	-151.2	-57.8	0.29	-0.12	10.56
7,000.0	1.44	310.59	6,995.7	-65.2	-151.6	-57.4	0.23	0.20	-4.36
7,025.0	1.68	300.85	7,020.7	-64.8	-152.2	-57.0	1.43	0.96	-38.96
7,050.0	1.69	296.75	7,045.6	-64.4	-152.8	-56.6	0.48	0.04	-16.40
7,056.4	1.72	295.29	7,052.0	-64.3	-153.0	-56.5	0.84	0.50	-22.97
FBSG_sand									
7,075.0	1.82	291.31	7,070.6	-64.1	-153.5	-56.2	0.84	0.53	-21.35
7,100.0	1.81	290.14	7,095.6	-63.8	-154.3	-55.9	0.15	-0.04	-4.68
7,125.0	1.86	287.49	7,120.6	-63.6	-155.0	-55.6	0.39	0.20	-10.60
7,150.0	1.79	288.40	7,145.6	-63.3	-155.8	-55.3	0.30	-0.28	3.64
7,175.0	2.01	288.20	7,170.6	-63.1	-156.6	-55.0	0.88	0.88	-0.80
7,200.0	1.93	285.99	7,195.6	-62.8	-157.4	-54.7	0.44	-0.32	-8.84
7,225.0	2.05	284.32	7,220.6	-62.6	-158.2	-54.5	0.53	0.48	-6.68
7,250.0	1.91	278.33	7,245.5	-62.4	-159.1	-54.3	1.00	-0.56	-23.96
7,275.0	1.98	277.17	7,270.5	-62.3	-159.9	-54.1	0.32	0.28	-4.64
7,300.0	2.00	276.16	7,295.5	-62.2	-160.8	-54.0	0.16	0.08	-4.04
7,325.0	2.14	277.11	7,320.5	-62.1	-161.7	-53.8	0.58	0.56	3.80
7,350.0	2.00	273.50	7,345.5	-62.0	-162.6	-53.7	0.77	-0.56	-14.44
7,375.0	1.98	271.78	7,370.5	-62.0	-163.4	-53.6	0.25	-0.08	-6.88

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.0	2.00	270.22	7,395.4	-62.0	-164.3	-53.5	0.23	0.08	-6.24
7,425.0	1.89	267.49	7,420.4	-62.0	-165.2	-53.5	0.58	-0.44	-10.92
7,450.0	1.68	268.13	7,445.4	-62.0	-165.9	-53.5	0.84	-0.84	2.56
7,475.0	1.93	268.79	7,470.4	-62.0	-166.7	-53.5	1.00	1.00	2.64
7,500.0	1.86	271.84	7,495.4	-62.0	-167.5	-53.4	0.49	-0.28	12.20
7,525.0	1.91	275.63	7,520.4	-62.0	-168.4	-53.3	0.54	0.20	15.16
7,550.0	1.96	281.61	7,545.4	-61.8	-169.2	-53.2	0.83	0.20	23.92
7,575.0	2.30	288.07	7,570.3	-61.6	-170.1	-52.9	1.66	1.36	25.84
7,600.0	2.54	286.15	7,595.3	-61.3	-171.1	-52.5	1.01	0.96	-7.68
7,625.0	2.63	285.71	7,620.3	-61.0	-172.2	-52.2	0.37	0.36	-1.76
7,650.0	2.59	281.70	7,645.3	-60.7	-173.3	-51.8	0.75	-0.16	-16.04
7,675.0	2.78	276.02	7,670.2	-60.5	-174.4	-51.6	1.31	0.76	-22.72
7,700.0	3.00	273.14	7,695.2	-60.4	-175.7	-51.4	1.05	0.88	-11.52
7,725.0	3.08	270.48	7,720.2	-60.4	-177.0	-51.3	0.65	0.32	-10.64
7,750.0	3.43	270.71	7,745.1	-60.4	-178.4	-51.2	1.40	1.40	0.92
7,775.0	3.52	267.43	7,770.1	-60.4	-180.0	-51.2	0.87	0.36	-13.12
7,800.0	3.64	267.19	7,795.0	-60.5	-181.5	-51.2	0.48	0.48	-0.96
7,825.0	3.84	266.31	7,820.0	-60.6	-183.1	-51.2	0.83	0.80	-3.52
7,850.0	3.87	261.96	7,844.9	-60.7	-184.8	-51.3	1.18	0.12	-17.40
7,875.0	3.46	258.41	7,869.9	-61.0	-186.4	-51.5	1.87	-1.64	-14.20
7,900.0	3.22	253.38	7,894.8	-61.4	-187.8	-51.8	1.51	-0.96	-20.12
7,916.2	3.07	248.88	7,911.0	-61.7	-188.6	-52.0	1.78	-0.91	-27.81
SBSG_sand									
7,925.0	3.00	246.25	7,919.8	-61.8	-189.1	-52.1	1.78	-0.82	-29.83
7,950.0	2.93	245.80	7,944.8	-62.4	-190.3	-52.6	0.30	-0.28	-1.80
7,975.0	3.02	243.97	7,969.7	-62.9	-191.4	-53.1	0.52	0.36	-7.32
8,000.0	2.94	242.95	7,994.7	-63.5	-192.6	-53.6	0.38	-0.32	-4.08
8,025.0	2.94	241.83	8,019.7	-64.1	-193.7	-54.2	0.23	0.00	-4.48
8,050.0	2.84	240.95	8,044.6	-64.7	-194.8	-54.7	0.44	-0.40	-3.52
8,075.0	2.83	240.16	8,069.6	-65.3	-195.9	-55.3	0.16	-0.04	-3.16
8,100.0	2.73	246.38	8,094.6	-65.8	-197.0	-55.7	1.27	-0.40	24.88
8,125.0	2.57	250.32	8,119.5	-66.3	-198.1	-56.1	0.97	-0.64	15.76
8,150.0	2.37	252.00	8,144.5	-66.6	-199.1	-56.4	0.85	-0.80	6.72
8,175.0	2.25	249.24	8,169.5	-67.0	-200.0	-56.7	0.65	-0.48	-11.04
8,200.0	2.29	250.33	8,194.5	-67.3	-201.0	-57.0	0.24	0.16	4.36
8,225.0	2.16	250.86	8,219.5	-67.6	-201.9	-57.3	0.53	-0.52	2.12
8,250.0	2.16	250.23	8,244.4	-67.9	-202.8	-57.5	0.09	0.00	-2.52
8,275.0	2.05	249.54	8,269.4	-68.2	-203.6	-57.8	0.45	-0.44	-2.76
8,300.0	1.89	247.91	8,294.4	-68.6	-204.4	-58.1	0.68	-0.64	-6.52
8,325.0	1.81	252.85	8,319.4	-68.8	-205.2	-58.3	0.71	-0.32	19.76
8,350.0	1.85	250.89	8,344.4	-69.1	-206.0	-58.5	0.30	0.16	-7.84
8,375.0	2.10	261.20	8,369.4	-69.3	-206.8	-58.7	1.73	1.00	41.24
8,400.0	2.27	262.00	8,394.4	-69.4	-207.7	-58.8	0.69	0.68	3.20

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:
Project:	Eddy County (NAD27 NME)	TVD Reference:	Well Myox 21 State Com #31H
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	KB @ 3021.8usft (Precision 106)
Wellbore:	OWB	Survey Calculation	Grid
Design:	AWB	Database:	Method: Minimum Curvature
			EDM 5000.15 Single User Db

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)
8,425.0	2.60	265.54	8,419.3	-69.5	-208.8	-58.8	1.45	1.32	14.16
8,450.0	2.71	263.48	8,444.3	-69.6	-209.9	-58.9	0.58	0.44	-8.24
8,475.0	2.97	266.66	8,469.3	-69.7	-211.2	-58.9	1.22	1.04	12.72
8,500.0	2.95	264.70	8,494.2	-69.8	-212.5	-59.0	0.41	-0.08	-7.84
8,525.0	2.94	266.36	8,519.2	-69.9	-213.7	-59.0	0.34	-0.04	6.64
8,550.0	2.94	267.14	8,544.2	-70.0	-215.0	-59.0	0.16	0.00	3.12
8,575.0	2.75	270.12	8,569.1	-70.0	-216.3	-59.0	0.96	-0.76	11.92
8,600.0	2.65	267.85	8,594.1	-70.1	-217.4	-58.9	0.59	-0.40	-9.08
8,625.0	2.43	269.36	8,619.1	-70.1	-218.5	-58.9	0.92	-0.88	6.04
8,650.0	2.53	270.12	8,644.1	-70.1	-219.6	-58.9	0.42	0.40	3.04
8,675.0	2.43	270.26	8,669.1	-70.1	-220.7	-58.8	0.40	-0.40	0.56
8,700.0	2.50	269.89	8,694.0	-70.1	-221.8	-58.7	0.29	0.28	-1.48
8,725.0	2.65	268.28	8,719.0	-70.1	-222.9	-58.7	0.67	0.60	-6.44
8,750.0	2.63	271.22	8,744.0	-70.1	-224.1	-58.6	0.55	-0.08	11.76
8,775.0	2.83	267.35	8,768.9	-70.1	-225.2	-58.6	1.09	0.80	-15.48
8,798.0	2.56	270.99	8,792.0	-70.2	-226.3	-58.6	1.39	-1.17	15.80
8,912.2	3.48	248.17	8,906.0	-71.4	-232.1	-59.5	1.31	0.81	-19.99
TBSG_sand									
8,923.0	3.59	246.67	8,916.7	-71.7	-232.7	-59.7	1.31	0.99	-13.89
9,015.0	2.99	300.35	9,008.6	-71.6	-237.4	-59.4	3.28	-0.65	58.35
9,062.0	9.28	324.67	9,055.3	-67.9	-240.7	-55.6	14.19	13.38	51.74
9,109.0	15.18	334.06	9,101.2	-59.2	-245.6	-46.7	13.21	12.55	19.98
9,155.0	21.69	337.02	9,144.9	-46.0	-251.5	-33.1	14.29	14.15	6.43
9,201.0	26.94	341.29	9,186.8	-28.3	-258.2	-15.1	12.03	11.41	9.28
9,248.0	33.69	342.83	9,227.3	-5.7	-265.5	7.8	14.46	14.36	3.28
9,295.0	38.84	345.29	9,265.2	21.0	-273.1	34.9	11.38	10.96	5.23
9,297.3	39.15	345.43	9,267.0	22.4	-273.4	36.3	14.08	13.55	6.06
WFMP									
9,341.0	45.10	347.77	9,299.4	50.9	-280.2	65.1	14.08	13.61	5.36
9,387.0	51.10	347.74	9,330.1	84.4	-287.4	98.9	13.04	13.04	-0.07
9,420.1	54.97	346.87	9,350.0	110.2	-293.3	124.9	11.88	11.69	-2.61
WFMP Lith									
9,422.8	55.29	346.81	9,351.5	112.3	-293.8	127.1	11.88	11.70	-2.48
FTP @ 9422.8'MD, 330°FSL & 467.1'FWL									
9,433.0	56.48	346.56	9,357.3	120.5	-295.7	135.4	11.88	11.71	-2.43
9,480.0	59.48	347.66	9,382.2	159.4	-304.6	174.7	6.68	6.38	2.34
9,526.0	63.10	349.25	9,404.3	198.9	-312.7	214.5	8.43	7.87	3.46
9,573.0	65.59	349.03	9,424.6	240.5	-320.6	256.5	5.31	5.30	-0.47
9,619.0	67.75	348.75	9,442.8	282.0	-328.8	298.3	4.73	4.70	-0.61
9,666.0	70.09	348.88	9,459.7	325.0	-337.3	341.7	4.99	4.98	0.28
9,712.0	71.57	348.45	9,474.8	367.6	-345.8	384.7	3.34	3.22	-0.93
9,759.0	75.15	346.95	9,488.3	411.6	-355.4	429.1	8.21	7.62	-3.19
9,805.0	80.19	346.77	9,498.1	455.3	-365.6	473.3	10.96	10.96	-0.39
9,852.0	85.64	346.85	9,503.9	500.7	-376.3	519.2	11.60	11.60	0.17

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

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)
9,909.0	86.77	347.29	9,507.7	556.1	-389.0	575.2	2.13	1.98	0.77
10,010.0	89.43	348.55	9,511.0	654.8	-410.1	674.8	2.91	2.63	1.25
10,104.0	89.99	349.19	9,511.5	747.1	-428.3	767.9	0.90	0.60	0.68
10,197.0	90.88	350.51	9,510.8	838.6	-444.7	860.1	1.71	0.96	1.42
10,282.0	91.36	354.65	9,509.1	922.9	-455.6	944.8	4.90	0.56	4.87
10,375.0	89.90	356.27	9,508.1	1,015.6	-463.0	1,037.8	2.34	-1.57	1.74
10,468.0	91.22	2.82	9,507.2	1,108.5	-463.7	1,130.6	7.18	1.42	7.04
10,560.0	90.32	1.21	9,506.0	1,200.4	-460.5	1,222.3	2.00	-0.98	-1.75
10,653.0	90.66	1.50	9,505.2	1,293.4	-458.3	1,315.0	0.48	0.37	0.31
10,746.0	88.78	2.13	9,505.6	1,386.3	-455.3	1,407.7	2.13	-2.02	0.68
10,840.0	88.42	0.77	9,507.9	1,480.3	-453.0	1,501.4	1.50	-0.38	-1.45
10,933.0	87.91	359.87	9,510.9	1,573.2	-452.4	1,594.2	1.11	-0.55	-0.97
11,024.0	88.28	359.10	9,513.9	1,664.2	-453.3	1,685.1	0.94	0.41	-0.85
11,115.0	90.88	358.43	9,514.6	1,755.1	-455.2	1,776.0	2.95	2.86	-0.74
11,207.0	91.67	0.83	9,512.6	1,847.1	-455.8	1,867.9	2.75	0.86	2.61
11,298.0	90.43	0.61	9,510.9	1,938.1	-454.7	1,958.7	1.38	-1.36	-0.24
11,390.0	91.47	1.84	9,509.4	2,030.1	-452.7	2,050.4	1.75	1.13	1.34
11,481.0	92.03	2.67	9,506.6	2,120.9	-449.1	2,141.0	1.10	0.62	0.91
11,572.0	88.53	0.64	9,506.1	2,211.9	-446.5	2,231.7	4.45	-3.85	-2.23
11,662.0	87.44	0.05	9,509.3	2,301.8	-446.0	2,321.5	1.38	-1.21	-0.66
11,755.0	88.05	357.33	9,513.0	2,394.7	-448.1	2,414.4	3.00	0.66	-2.92
11,847.0	90.18	358.42	9,514.4	2,486.6	-451.5	2,506.4	2.60	2.32	1.18
11,939.0	89.23	358.21	9,514.9	2,578.6	-454.2	2,598.3	1.06	-1.03	-0.23
12,033.0	89.87	358.44	9,515.6	2,672.6	-457.0	2,692.3	0.72	0.68	0.24
12,126.0	91.11	359.96	9,514.8	2,765.5	-458.2	2,785.2	2.11	1.33	1.63
12,220.0	90.49	358.28	9,513.5	2,859.5	-459.7	2,879.2	1.90	-0.66	-1.79
12,314.0	90.21	356.91	9,512.9	2,953.4	-463.6	2,973.2	1.49	-0.30	-1.46
12,407.0	89.15	358.20	9,513.4	3,046.3	-467.6	3,066.2	1.80	-1.14	1.39
12,499.0	92.42	0.31	9,512.2	3,138.3	-468.8	3,158.1	4.23	3.55	2.29
12,593.0	89.73	359.95	9,510.4	3,232.3	-468.6	3,251.9	2.89	-2.86	-0.38
12,686.0	89.29	358.95	9,511.2	3,325.3	-469.5	3,344.8	1.17	-0.47	-1.08
12,779.0	90.94	359.99	9,511.0	3,418.3	-470.3	3,437.7	2.10	1.77	1.12
12,872.0	89.85	0.73	9,510.4	3,511.2	-469.8	3,530.6	1.42	-1.17	0.80
12,967.0	87.16	0.28	9,512.9	3,606.2	-468.9	3,625.4	2.87	-2.83	-0.47
13,060.0	89.76	0.16	9,515.4	3,699.2	-468.6	3,718.2	2.80	2.80	-0.13
13,153.0	86.68	359.30	9,518.2	3,792.1	-469.0	3,811.0	3.44	-3.31	-0.92
13,247.0	88.70	359.20	9,522.0	3,886.0	-470.2	3,904.9	2.15	2.15	-0.11
13,341.0	89.99	358.06	9,523.1	3,980.0	-472.5	3,998.8	1.83	1.37	-1.21
13,435.0	90.99	358.72	9,522.3	4,073.9	-475.1	4,092.8	1.27	1.06	0.70
13,526.0	90.27	0.03	9,521.3	4,164.9	-476.1	4,183.7	1.64	-0.79	1.44
13,619.0	89.73	1.45	9,521.3	4,257.9	-474.9	4,276.5	1.63	-0.58	1.53
13,712.0	85.56	0.07	9,525.1	4,350.8	-473.7	4,369.2	4.72	-4.48	-1.48
13,805.0	88.00	1.12	9,530.3	4,443.6	-472.7	4,461.9	2.86	2.62	1.13
13,898.0	90.63	0.97	9,531.5	4,536.6	-471.0	4,554.7	2.83	2.83	-0.16

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:
Project:	Eddy County (NAD27 NME)	TVD Reference:	Well Myox 21 State Com #31H
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	KB @ 3021.8usft (Precision 106)
Wellbore:	OWB	Survey Calculation	Grid
Design:	AWB	Database:	Method: Minimum Curvature
			EDM 5000.15 Single User Db

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)
13,992.0	90.80	359.23	9,530.3	4,630.6	-470.9	4,648.5	1.86	0.18	-1.85
14,085.0	92.11	0.16	9,527.9	4,723.6	-471.3	4,741.4	1.73	1.41	1.00
14,179.0	88.75	357.30	9,527.2	4,817.5	-473.4	4,835.3	4.69	-3.57	-3.04
14,272.0	89.93	356.26	9,528.3	4,910.4	-478.7	4,928.3	1.69	1.27	-1.12
14,394.0	92.06	359.89	9,526.2	5,032.2	-482.8	5,050.3	3.45	1.75	2.98
14,487.0	92.40	359.78	9,522.6	5,125.2	-483.0	5,143.1	0.38	0.37	-0.12
14,579.0	91.36	0.20	9,519.5	5,217.1	-483.0	5,234.9	1.22	-1.13	0.46
14,672.0	89.40	357.65	9,518.9	5,310.1	-484.8	5,327.9	3.46	-2.11	-2.74
14,764.0	90.15	0.91	9,519.3	5,402.1	-485.9	5,419.8	3.64	0.82	3.54
14,858.0	89.87	359.36	9,519.3	5,496.1	-485.7	5,513.6	1.68	-0.30	-1.65
14,952.0	89.34	358.67	9,519.9	5,590.1	-487.3	5,607.6	0.93	-0.56	-0.73
15,047.0	89.68	358.92	9,520.7	5,685.0	-489.3	5,702.5	0.44	0.36	0.26
15,140.0	89.57	358.36	9,521.3	5,778.0	-491.5	5,795.5	0.61	-0.12	-0.60
15,233.0	90.01	359.88	9,521.7	5,871.0	-493.0	5,888.4	1.70	0.47	1.63
15,326.0	89.26	359.04	9,522.3	5,964.0	-493.8	5,981.4	1.21	-0.81	-0.90
15,421.0	88.42	358.50	9,524.2	6,058.9	-495.9	6,076.3	1.05	-0.88	-0.57
15,515.0	90.07	359.81	9,525.4	6,152.9	-497.3	6,170.2	2.24	1.76	1.39
15,610.0	91.67	1.43	9,524.0	6,247.9	-496.2	6,265.0	2.40	1.68	1.71
15,703.0	88.00	1.02	9,524.3	6,340.9	-494.2	6,357.8	3.97	-3.95	-0.44
15,797.0	89.29	1.95	9,526.5	6,434.8	-491.8	6,451.5	1.69	1.37	0.99
15,888.0	87.16	0.61	9,529.3	6,525.7	-489.8	6,542.2	2.76	-2.34	-1.47
15,982.0	87.52	359.82	9,533.7	6,619.6	-489.4	6,635.9	0.92	0.38	-0.84
16,076.0	87.66	359.17	9,537.6	6,713.5	-490.3	6,729.8	0.71	0.15	-0.69
16,169.0	94.33	1.23	9,536.0	6,806.5	-489.9	6,822.6	7.51	7.17	2.22
16,262.0	93.04	1.10	9,530.0	6,899.2	-488.0	6,915.1	1.39	-1.39	-0.14
16,356.0	91.72	0.81	9,526.1	6,993.1	-486.5	7,008.8	1.44	-1.40	-0.31
16,449.0	92.01	0.75	9,523.1	7,086.1	-485.2	7,101.6	0.32	0.31	-0.06
16,542.0	90.01	0.92	9,521.4	7,179.1	-483.9	7,194.4	2.16	-2.15	0.18
16,634.0	90.46	0.69	9,521.1	7,271.0	-482.6	7,286.2	0.55	0.49	-0.25
16,727.0	89.87	0.15	9,520.8	7,364.0	-481.9	7,379.0	0.86	-0.63	-0.58
16,820.0	88.50	359.99	9,522.1	7,457.0	-481.8	7,471.9	1.48	-1.47	-0.17
16,913.0	87.32	0.72	9,525.5	7,550.0	-481.2	7,564.7	1.49	-1.27	0.78
17,005.0	87.63	0.41	9,529.6	7,641.9	-480.3	7,656.4	0.48	0.34	-0.34
17,098.0	88.95	0.68	9,532.3	7,734.8	-479.4	7,749.2	1.45	1.42	0.29
17,190.0	87.49	0.49	9,535.2	7,826.8	-478.5	7,841.0	1.60	-1.59	-0.21
17,283.0	86.82	359.49	9,539.8	7,919.7	-478.5	7,933.7	1.29	-0.72	-1.08
17,376.0	87.01	358.44	9,544.8	8,012.5	-480.2	8,026.6	1.15	0.20	-1.13
17,469.0	88.39	357.79	9,548.6	8,105.4	-483.2	8,119.5	1.64	1.48	-0.70
17,562.0	90.74	359.24	9,549.3	8,198.3	-485.6	8,212.4	2.97	2.53	1.56
17,655.0	88.78	357.46	9,549.7	8,291.3	-488.3	8,305.4	2.85	-2.11	-1.91
17,748.0	86.79	357.45	9,553.2	8,384.1	-492.4	8,398.3	2.14	-2.14	-0.01
17,841.0	87.30	357.15	9,558.0	8,476.9	-496.8	8,491.2	0.64	0.55	-0.32
17,934.0	92.20	359.52	9,558.4	8,569.8	-499.5	8,584.1	5.85	5.27	2.55

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:
Project:	Eddy County (NAD27 NME)	TVD Reference:	Well Myox 21 State Com #31H
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:	KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:	KB @ 3021.8usft (Precision 106)
Wellbore:	OWB	Survey Calculation	Grid
Design:	AWB	Database:	Minimum Curvature
			EDM 5000.15 Single User Db

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)	
18,026.0	91.30	359.23	9,555.6	8,661.8	-500.5	8,676.0	1.03	-0.98	-0.32	
18,119.0	91.39	0.08	9,553.5	8,754.7	-501.1	8,768.9	0.92	0.10	0.91	
18,213.0	91.33	0.61	9,551.2	8,848.7	-500.5	8,862.7	0.57	-0.06	0.56	
18,305.0	91.16	359.74	9,549.2	8,940.7	-500.2	8,954.6	0.96	-0.18	-0.95	
18,399.0	91.41	359.17	9,547.1	9,034.7	-501.1	9,048.5	0.66	0.27	-0.61	
18,492.0	90.24	358.31	9,545.8	9,127.6	-503.2	9,141.4	1.56	-1.26	-0.92	
18,584.0	88.53	357.40	9,546.8	9,219.6	-506.6	9,233.4	2.11	-1.86	-0.99	
18,677.0	88.97	357.42	9,548.8	9,312.4	-510.8	9,326.4	0.47	0.47	0.02	
18,770.0	90.88	358.02	9,548.9	9,405.4	-514.5	9,419.3	2.15	2.05	0.65	
18,863.0	90.10	358.03	9,548.1	9,498.3	-517.7	9,512.3	0.84	-0.84	0.01	
18,955.0	90.01	355.68	9,548.0	9,590.2	-522.8	9,604.3	2.56	-0.10	-2.55	
19,048.0	89.65	358.31	9,548.3	9,683.0	-527.6	9,697.3	2.85	-0.39	2.83	
19,140.0	89.45	358.66	9,549.0	9,775.0	-530.1	9,789.3	0.44	-0.22	0.38	
19,234.0	88.25	358.59	9,550.9	9,868.9	-532.3	9,883.2	1.28	-1.28	-0.07	
19,328.0	88.78	358.40	9,553.4	9,962.9	-534.8	9,977.2	0.60	0.56	-0.20	
19,420.0	86.09	356.42	9,557.5	10,054.7	-538.9	10,069.1	3.63	-2.92	-2.15	
19,451.2	86.32	356.18	9,559.5	10,085.7	-540.9	10,100.2	1.08	0.75	-0.77	
LTP @ 19451.2'MD, 330'FNL & 307.3'FWL										
19,513.0	86.79	355.70	9,563.2	10,147.3	-545.3	10,161.9	1.08	0.75	-0.77	
LAST SVY										
19,579.0	86.79	355.70	9,566.9	10,213.0	-550.3	10,227.7	0.00	0.00	0.00	
Projection to TD @ 19579'MD, 202.7'FNL & 299.3'FWL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP (Myox 21 State C	0.00	0.00	9,507.0	111.1	-431.0	403,422.00	572,491.70	32° 6' 32.065 N	104° 5' 57.150 W	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 179.4usft at 9520.6usft MD (9401.8 TVD, 194.2 N, -311.8 E)										
- Point										
8000'VS (Myox 21 State	1.49	359.50	9,545.0	7,984.9	-500.3	411,295.80	572,422.45	32° 7' 49.989 N	104° 5' 57.756 W	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 20.8usft at 17348.8usft MD (9543.4 TVD, 7985.4 N, -479.5 E)										
- Rectangle (sides W60.0 H992.3 D30.0)										
PBHL (Myox 21 State	0.37	359.50	9,560.0	10,215.8	-519.6	413,526.70	572,403.10	32° 8' 12.067 N	104° 5' 57.925 W	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 31.6usft at 19579.0usft MD (9566.9 TVD, 10213.0 N, -550.3 E)										
- Rectangle (sides W60.0 H2,231.1 D20.0)										
LTP (Myox 21 State C	0.00	0.00	9,560.0	10,085.8	-518.5	413,396.70	572,404.20	32° 8' 10.781 N	104° 5' 57.915 W	
- hit/miss target										
- Shape										
- actual wellpath misses target center by 22.4usft at 19449.8usft MD (9559.4 TVD, 10084.4 N, -540.9 E)										
- Point										

Company:	Concho Resources, Inc.	Local Co-ordinate	Reference:	Well Myox 21 State Com #31H
Project:	Eddy County (NAD27 NME)	TVD Reference:		KB @ 3021.8usft (Precision 106)
Site:	(Myox 21 State Com) Sec-21_T-25-S_R28-E	MD Reference:		KB @ 3021.8usft (Precision 106)
Well:	Myox 21 State Com #31H	North Reference:		Grid
Wellbore:	OWB	Survey Calculation	Method:	Minimum Curvature
Design:	AWB	Database:		EDM 5000.15 Single User Db

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
304.0	304.0	Rustler			
669.1	669.0	TOS			
2,229.4	2,229.0	BOS (Fletcher)			
2,431.5	2,431.0	LMAR (Top Delaware)			
2,486.5	2,486.0	BYCN			
3,316.8	3,315.0	CYCN			
4,565.2	4,562.0	BYCN			
6,114.9	6,111.0	Bone Sprg (BSGL)			
6,465.2	6,461.0	U Avalon Sh			
6,668.2	6,664.0	L Avalon Sh			
7,056.4	7,052.0	FBSG_sand			
7,916.2	7,911.0	SBSG_sand			
8,912.2	8,906.0	TBSG_sand			
9,297.3	9,267.0	WFMP			
9,420.1	9,350.0	WFMP Lith			

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,422.8	9,351.5	112.3	-293.8	FTP @ 9422.8'MD, 330'FSL & 467.1'FWL	
19,451.2	9,559.5	10,085.7	-540.9	LTP @ 19451.2'MD, 330'FNL & 307.3'FWL	
19,513.0	9,563.2	10,147.3	-545.3	LAST SVY	
19,579.0	9,566.9	10,213.0	-550.3	Projection to TD @ 19579'MD, 202.7'FNL & 299.3'FWL	

Checked By: _____	Approved By: _____	Date: _____
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