

Submit 1 Copy To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
October 13, 2009

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

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.)		WELL API NO. 30-015-44000
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ NM OIL CONSERVATION		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator COG Operating LLC		6. State Oil & Gas Lease No.
3. Address of Operator 2208 W. Main Street, Artesia, NM 88210		7. Lease Name or Unit Agreement Name Myox 21 State Com
4. Well Location Unit Letter <u>M</u> : <u>215</u> feet from the <u>South</u> line and <u>760</u> feet from the <u>West</u> line Section <u>21</u> Township <u>25S</u> Range <u>28E</u> NMPM <u>Eddy</u> County		8. Well Number 31H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2990.8'		9. OGRID Number 229137
		10. Pool name or Wildcat Purple Sage; Wolfcamp

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

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
OTHER: ☒ SHL Change

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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

SHL:
From: 190' FSL & 760' FWL Section 21. T25S. R28E UL M
To: 215' FSL & 760' FWL Section 21. T25S. R28E. UL M
C102 attached.

Directional Plan Attached.

Spud Date:

Rig Release Date:

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

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

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

640-2-8

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 06 2019

DISTRICT I
1035 N. FRENCH DR., ROSARITO, NM 88240
Phone: (505) 828-6181 Fax: (505) 828-6750

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (505) 748-1203 Fax: (505) 748-6720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3490 Fax: (505) 476-3492

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-44000	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		200	NORTH	330	WEST	EDDY

Dedicated Acres 640	Joint or Infill Joint	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

STATE FEE SECTION 16 SECTION 21 GRID AZ. - 359°29'47" HORZ. DIST. - 10105.3' GRID AZ. TO FIP 284°27'36" Y=413783.5 N X=613255.2 E Y=413788.0 N X=614588.2 E Y=413584.6 N X=613587.0 E LAT.=32.136808° N LONG.=104.099914° W Y=403146.8 N X=613348.7 E Y=403158.6 N X=614666.1 E Y=403479.7 N X=613675.9 E LAT.=32.109030° N LONG.=104.099598° W	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. <i>Mayte Reyes</i> Signature Date 1-30-19 Printed Name Mayte Reyes E-mail Address mreyes1@concho.com SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 8, 2019 Date of Survey Signature & Seal of Professional Surveyor CHAD L. HARGROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR <i>Chad Hargrow</i> Signature Date 1/24/19 Certificate No. CHAD HARGROW 17777 W.O. 19-58 DRAWN BY: WN
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RWP 2-779
2-8



CONCHO

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

Plan: Plan #1

Standard Planning Report

05 February, 2019

INTREPID

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 #31H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

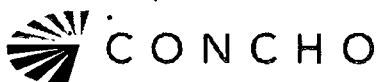
Site (Myox 21 State Com) Sec-21_T-25-S_R28-E					
Site Position:		Northing:	403,784.88 usft	Latitude:	32° 6' 35.644 N
From:	Map	Easting:	573,058.41 usft	Longitude:	104° 5' 50.552 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	Myox 21 State Com #31H					
Well Position	+N/-S	-474.0 usft	Northing:	403,310.90 usft	Latitude:	32° 6' 30.956 N
	+E/-W	-135.7 usft	Easting:	572,922.70 usft	Longitude:	104° 5' 52.141 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level:	2,990.8 usft

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

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.09	

Plan Survey Tool Program		Date 02/05/19			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	9,065.5 Plan #1 (OWB)	MWD		
			OWSG MWD - Standard		
2	9,065.5	19,765.2 Plan #1 (OWB)	MWD+IFR1+MS		
			MWD + IFR1 + Multi-Station		



Intrepid
Planning Report

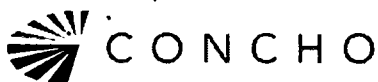


Database: EDM 5000.15 Single User Db
Company: Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #31H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,700.0	4.00	248.48	2,699.8	-2.6	-6.5	2.00	2.00	0.00	248.48	
8,463.6	4.00	248.48	8,449.4	-150.0	-380.5	0.00	0.00	0.00	0.00	
8,863.6	0.00	0.00	8,849.1	-155.2	-393.5	1.00	-1.00	0.00	180.00	
9,065.5	0.00	0.00	9,051.0	-155.2	-393.5	0.00	0.00	0.00	0.00	
9,965.6	90.01	356.36	9,624.0	416.7	-429.9	10.00	10.00	0.00	356.36	
10,122.7	90.01	359.50	9,623.9	573.6	-435.6	2.00	0.00	2.00	89.97	
19,765.2	90.01	359.50	9,622.0	10,215.8	-519.6	0.00	0.00	0.00	0.00	PBHL (Myox 21 Sta



Intrepid
Planning Report



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Well: Myox 21 State Com #31H
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Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
2,600.0	2.00	248.48	2,600.0	-0.6	-1.6	-0.6	2.00	2.00	0.00
2,700.0	4.00	248.48	2,699.8	-2.6	-6.5	-2.2	2.00	2.00	0.00
HOLD - 5763.6 at 2700.0 MD									
2,800.0	4.00	248.48	2,799.6	-5.1	-13.0	-4.5	0.00	0.00	0.00
2,900.0	4.00	248.48	2,899.4	-7.7	-19.5	-6.7	0.00	0.00	0.00
3,000.0	4.00	248.48	2,999.1	-10.2	-26.0	-8.9	0.00	0.00	0.00
3,100.0	4.00	248.48	3,098.9	-12.8	-32.4	-11.1	0.00	0.00	0.00
3,200.0	4.00	248.48	3,198.6	-15.4	-38.9	-13.4	0.00	0.00	0.00
3,300.0	4.00	248.48	3,298.4	-17.9	-45.4	-15.6	0.00	0.00	0.00
3,400.0	4.00	248.48	3,398.1	-20.5	-51.9	-17.8	0.00	0.00	0.00
3,500.0	4.00	248.48	3,497.9	-23.0	-58.4	-20.0	0.00	0.00	0.00
3,600.0	4.00	248.48	3,597.6	-25.6	-64.9	-22.3	0.00	0.00	0.00
3,700.0	4.00	248.48	3,697.4	-28.1	-71.4	-24.5	0.00	0.00	0.00
3,800.0	4.00	248.48	3,797.2	-30.7	-77.9	-26.7	0.00	0.00	0.00
3,900.0	4.00	248.48	3,896.9	-33.3	-84.4	-28.9	0.00	0.00	0.00
4,000.0	4.00	248.48	3,996.7	-35.8	-90.9	-31.2	0.00	0.00	0.00
4,100.0	4.00	248.48	4,096.4	-38.4	-97.3	-33.4	0.00	0.00	0.00
4,200.0	4.00	248.48	4,196.2	-40.9	-103.8	-35.6	0.00	0.00	0.00
4,300.0	4.00	248.48	4,295.9	-43.5	-110.3	-37.8	0.00	0.00	0.00
4,400.0	4.00	248.48	4,395.7	-46.1	-116.8	-40.1	0.00	0.00	0.00
4,500.0	4.00	248.48	4,495.5	-48.6	-123.3	-42.3	0.00	0.00	0.00
4,600.0	4.00	248.48	4,595.2	-51.2	-129.8	-44.5	0.00	0.00	0.00
4,700.0	4.00	248.48	4,695.0	-53.7	-136.3	-46.7	0.00	0.00	0.00
4,800.0	4.00	248.48	4,794.7	-56.3	-142.8	-49.0	0.00	0.00	0.00
4,900.0	4.00	248.48	4,894.5	-58.9	-149.3	-51.2	0.00	0.00	0.00
5,000.0	4.00	248.48	4,994.2	-61.4	-155.7	-53.4	0.00	0.00	0.00
5,100.0	4.00	248.48	5,094.0	-64.0	-162.2	-55.6	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 #31H
Wellbore: OWB
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Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.0	4.00	248.48	5,193.7	-66.5	-168.7	-57.9	0.00	0.00	0.00
5,300.0	4.00	248.48	5,293.5	-69.1	-175.2	-60.1	0.00	0.00	0.00
5,400.0	4.00	248.48	5,393.3	-71.6	-181.7	-62.3	0.00	0.00	0.00
5,500.0	4.00	248.48	5,493.0	-74.2	-188.2	-64.6	0.00	0.00	0.00
5,600.0	4.00	248.48	5,592.8	-76.8	-194.7	-66.8	0.00	0.00	0.00
5,700.0	4.00	248.48	5,692.5	-79.3	-201.2	-69.0	0.00	0.00	0.00
5,800.0	4.00	248.48	5,792.3	-81.9	-207.7	-71.2	0.00	0.00	0.00
5,900.0	4.00	248.48	5,892.0	-84.4	-214.2	-73.5	0.00	0.00	0.00
6,000.0	4.00	248.48	5,991.8	-87.0	-220.6	-75.7	0.00	0.00	0.00
6,100.0	4.00	248.48	6,091.6	-89.6	-227.1	-77.9	0.00	0.00	0.00
6,200.0	4.00	248.48	6,191.3	-92.1	-233.6	-80.1	0.00	0.00	0.00
6,300.0	4.00	248.48	6,291.1	-94.7	-240.1	-82.4	0.00	0.00	0.00
6,400.0	4.00	248.48	6,390.8	-97.2	-246.6	-84.6	0.00	0.00	0.00
6,500.0	4.00	248.48	6,490.6	-99.8	-253.1	-86.8	0.00	0.00	0.00
6,600.0	4.00	248.48	6,590.3	-102.4	-259.6	-89.0	0.00	0.00	0.00
6,700.0	4.00	248.48	6,690.1	-104.9	-266.1	-91.3	0.00	0.00	0.00
6,800.0	4.00	248.48	6,789.8	-107.5	-272.6	-93.5	0.00	0.00	0.00
6,900.0	4.00	248.48	6,889.6	-110.0	-279.0	-95.7	0.00	0.00	0.00
7,000.0	4.00	248.48	6,989.4	-112.6	-285.5	-97.9	0.00	0.00	0.00
7,100.0	4.00	248.48	7,089.1	-115.1	-292.0	-100.2	0.00	0.00	0.00
7,200.0	4.00	248.48	7,188.9	-117.7	-298.5	-102.4	0.00	0.00	0.00
7,300.0	4.00	248.48	7,288.6	-120.3	-305.0	-104.6	0.00	0.00	0.00
7,400.0	4.00	248.48	7,388.4	-122.8	-311.5	-106.8	0.00	0.00	0.00
7,500.0	4.00	248.48	7,488.1	-125.4	-318.0	-109.1	0.00	0.00	0.00
7,600.0	4.00	248.48	7,587.9	-127.9	-324.5	-111.3	0.00	0.00	0.00
7,700.0	4.00	248.48	7,687.7	-130.5	-331.0	-113.5	0.00	0.00	0.00
7,800.0	4.00	248.48	7,787.4	-133.1	-337.5	-115.7	0.00	0.00	0.00
7,900.0	4.00	248.48	7,887.2	-135.6	-343.9	-118.0	0.00	0.00	0.00
8,000.0	4.00	248.48	7,986.9	-138.2	-350.4	-120.2	0.00	0.00	0.00
8,100.0	4.00	248.48	8,086.7	-140.7	-356.9	-122.4	0.00	0.00	0.00
8,200.0	4.00	248.48	8,186.4	-143.3	-363.4	-124.7	0.00	0.00	0.00
8,300.0	4.00	248.48	8,286.2	-145.9	-369.9	-126.9	0.00	0.00	0.00
8,400.0	4.00	248.48	8,386.0	-148.4	-376.4	-129.1	0.00	0.00	0.00
8,463.6	4.00	248.48	8,449.4	-150.0	-380.5	-130.5	0.00	0.00	0.00
DROP - -1.00									
8,500.0	3.64	248.48	8,485.7	-150.9	-382.8	-131.3	1.00	-1.00	0.00
8,600.0	2.64	248.48	8,585.6	-152.9	-387.9	-133.0	1.00	-1.00	0.00
8,700.0	1.64	248.48	8,685.5	-154.3	-391.3	-134.2	1.00	-1.00	0.00
8,800.0	0.64	248.48	8,785.5	-155.0	-393.2	-134.9	1.00	-1.00	0.00
8,863.6	0.00	0.00	8,849.1	-155.2	-393.5	-135.0	1.00	-1.00	0.00
HOLD - 201.9 at 8863.6 MD									
8,900.0	0.00	0.00	8,885.5	-155.2	-393.5	-135.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,985.5	-155.2	-393.5	-135.0	0.00	0.00	0.00
9,065.5	0.00	0.00	9,051.0	-155.2	-393.5	-135.0	0.00	0.00	0.00
KOP - Build 10.00									
9,100.0	3.45	356.36	9,085.5	-154.1	-393.6	-133.9	10.00	10.00	0.00
9,150.0	8.45	356.36	9,135.2	-149.0	-393.9	-128.8	10.00	10.00	0.00
9,200.0	13.45	356.36	9,184.2	-139.5	-394.5	-119.3	10.00	10.00	0.00
9,250.0	18.45	356.36	9,232.3	-125.8	-395.4	-105.5	10.00	10.00	0.00
9,300.0	23.45	356.36	9,279.0	-107.9	-396.5	-87.7	10.00	10.00	0.00
9,350.0	28.45	356.36	9,323.9	-86.1	-397.9	-65.8	10.00	10.00	0.00
9,400.0	33.45	356.36	9,366.8	-60.5	-399.5	-40.1	10.00	10.00	0.00
9,450.0	38.45	356.36	9,407.3	-31.2	-401.4	-10.8	10.00	10.00	0.00



Intrepid
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Well: Myox 21 State Com #31H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	43.45	356.36	9,445.0	1.5	-403.5	22.0	10.00	10.00	0.00
9,550.0	48.45	356.36	9,479.8	37.4	-405.7	57.9	10.00	10.00	0.00
9,600.0	53.45	356.36	9,511.3	76.1	-408.2	96.7	10.00	10.00	0.00
9,650.0	58.45	356.36	9,539.3	117.4	-410.8	138.1	10.00	10.00	0.00
9,700.0	63.45	356.36	9,563.5	161.0	-413.6	181.8	10.00	10.00	0.00
9,750.0	68.45	356.36	9,583.9	206.6	-416.5	227.5	10.00	10.00	0.00
9,800.0	73.45	356.36	9,600.2	253.7	-419.5	274.7	10.00	10.00	0.00
9,850.0	78.45	356.36	9,612.3	302.1	-422.6	323.2	10.00	10.00	0.00
9,900.0	83.45	356.36	9,620.2	351.4	-425.7	372.6	10.00	10.00	0.00
9,950.0	88.45	356.36	9,623.7	401.1	-428.9	422.4	10.00	10.00	0.00
9,965.6	90.01	356.36	9,624.0	416.7	-429.9	438.0	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO 89.97									
10,000.0	90.01	357.05	9,624.0	451.1	-431.9	472.4	2.00	0.00	2.00
10,100.0	90.01	359.05	9,623.9	551.0	-435.3	572.4	2.00	0.00	2.00
10,122.7	90.01	359.50	9,623.9	573.6	-435.6	595.0	2.00	0.00	2.00
Start 9642.5 hold at 10122.7 MD									
10,200.0	90.01	359.50	9,623.9	651.0	-436.2	672.3	0.00	0.00	0.00
10,300.0	90.01	359.50	9,623.9	751.0	-437.1	772.2	0.00	0.00	0.00
10,400.0	90.01	359.50	9,623.9	851.0	-438.0	872.1	0.00	0.00	0.00
10,500.0	90.01	359.50	9,623.9	951.0	-438.8	972.0	0.00	0.00	0.00
10,600.0	90.01	359.50	9,623.8	1,051.0	-439.7	1,072.0	0.00	0.00	0.00
10,700.0	90.01	359.50	9,623.8	1,151.0	-440.6	1,171.9	0.00	0.00	0.00
10,800.0	90.01	359.50	9,623.8	1,251.0	-441.5	1,271.8	0.00	0.00	0.00
10,900.0	90.01	359.50	9,623.8	1,351.0	-442.3	1,371.7	0.00	0.00	0.00
11,000.0	90.01	359.50	9,623.8	1,451.0	-443.2	1,471.6	0.00	0.00	0.00
11,100.0	90.01	359.50	9,623.7	1,551.0	-444.1	1,571.5	0.00	0.00	0.00
11,200.0	90.01	359.50	9,623.7	1,651.0	-444.9	1,671.4	0.00	0.00	0.00
11,300.0	90.01	359.50	9,623.7	1,750.9	-445.8	1,771.3	0.00	0.00	0.00
11,400.0	90.01	359.50	9,623.7	1,850.9	-446.7	1,871.2	0.00	0.00	0.00
11,500.0	90.01	359.50	9,623.7	1,950.9	-447.6	1,971.2	0.00	0.00	0.00
11,600.0	90.01	359.50	9,623.6	2,050.9	-448.4	2,071.1	0.00	0.00	0.00
11,700.0	90.01	359.50	9,623.6	2,150.9	-449.3	2,171.0	0.00	0.00	0.00
11,800.0	90.01	359.50	9,623.6	2,250.9	-450.2	2,270.9	0.00	0.00	0.00
11,900.0	90.01	359.50	9,623.6	2,350.9	-451.0	2,370.8	0.00	0.00	0.00
12,000.0	90.01	359.50	9,623.6	2,450.9	-451.9	2,470.7	0.00	0.00	0.00
12,100.0	90.01	359.50	9,623.5	2,550.9	-452.8	2,570.6	0.00	0.00	0.00
12,200.0	90.01	359.50	9,623.5	2,650.9	-453.7	2,670.5	0.00	0.00	0.00
12,300.0	90.01	359.50	9,623.5	2,750.9	-454.5	2,770.4	0.00	0.00	0.00
12,400.0	90.01	359.50	9,623.5	2,850.9	-455.4	2,870.4	0.00	0.00	0.00
12,500.0	90.01	359.50	9,623.5	2,950.9	-456.3	2,970.3	0.00	0.00	0.00
12,600.0	90.01	359.50	9,623.4	3,050.9	-457.1	3,070.2	0.00	0.00	0.00
12,700.0	90.01	359.50	9,623.4	3,150.9	-458.0	3,170.1	0.00	0.00	0.00
12,800.0	90.01	359.50	9,623.4	3,250.9	-458.9	3,270.0	0.00	0.00	0.00
12,900.0	90.01	359.50	9,623.4	3,350.9	-459.8	3,369.9	0.00	0.00	0.00
13,000.0	90.01	359.50	9,623.4	3,450.9	-460.6	3,469.8	0.00	0.00	0.00
13,100.0	90.01	359.50	9,623.3	3,550.9	-461.5	3,569.7	0.00	0.00	0.00
13,200.0	90.01	359.50	9,623.3	3,650.9	-462.4	3,669.6	0.00	0.00	0.00
13,300.0	90.01	359.50	9,623.3	3,750.9	-463.2	3,769.6	0.00	0.00	0.00
13,400.0	90.01	359.50	9,623.3	3,850.9	-464.1	3,869.5	0.00	0.00	0.00
13,500.0	90.01	359.50	9,623.3	3,950.9	-465.0	3,969.4	0.00	0.00	0.00
13,600.0	90.01	359.50	9,623.2	4,050.9	-465.9	4,069.3	0.00	0.00	0.00
13,700.0	90.01	359.50	9,623.2	4,150.9	-466.7	4,169.2	0.00	0.00	0.00
13,800.0	90.01	359.50	9,623.2	4,250.9	-467.6	4,269.1	0.00	0.00	0.00
13,900.0	90.01	359.50	9,623.2	4,350.8	-468.5	4,369.0	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	90.01	359.50	9,623.2	4,450.8	-469.3	4,468.9	0.00	0.00	0.00
14,100.0	90.01	359.50	9,623.1	4,550.8	-470.2	4,568.9	0.00	0.00	0.00
14,200.0	90.01	359.50	9,623.1	4,650.8	-471.1	4,668.8	0.00	0.00	0.00
14,300.0	90.01	359.50	9,623.1	4,750.8	-472.0	4,768.7	0.00	0.00	0.00
14,400.0	90.01	359.50	9,623.1	4,850.8	-472.8	4,868.6	0.00	0.00	0.00
14,500.0	90.01	359.50	9,623.1	4,950.8	-473.7	4,968.5	0.00	0.00	0.00
14,600.0	90.01	359.50	9,623.0	5,050.8	-474.6	5,068.4	0.00	0.00	0.00
14,700.0	90.01	359.50	9,623.0	5,150.8	-475.5	5,168.3	0.00	0.00	0.00
14,800.0	90.01	359.50	9,623.0	5,250.8	-476.3	5,268.2	0.00	0.00	0.00
14,900.0	90.01	359.50	9,623.0	5,350.8	-477.2	5,368.1	0.00	0.00	0.00
15,000.0	90.01	359.50	9,623.0	5,450.8	-478.1	5,468.1	0.00	0.00	0.00
15,100.0	90.01	359.50	9,622.9	5,550.8	-478.9	5,568.0	0.00	0.00	0.00
15,200.0	90.01	359.50	9,622.9	5,650.8	-479.8	5,667.9	0.00	0.00	0.00
15,300.0	90.01	359.50	9,622.9	5,750.8	-480.7	5,767.8	0.00	0.00	0.00
15,400.0	90.01	359.50	9,622.9	5,850.8	-481.6	5,867.7	0.00	0.00	0.00
15,500.0	90.01	359.50	9,622.9	5,950.8	-482.4	5,967.6	0.00	0.00	0.00
15,600.0	90.01	359.50	9,622.8	6,050.8	-483.3	6,067.5	0.00	0.00	0.00
15,700.0	90.01	359.50	9,622.8	6,150.8	-484.2	6,167.4	0.00	0.00	0.00
15,800.0	90.01	359.50	9,622.8	6,250.8	-485.0	6,267.3	0.00	0.00	0.00
15,900.0	90.01	359.50	9,622.8	6,350.8	-485.9	6,367.3	0.00	0.00	0.00
16,000.0	90.01	359.50	9,622.8	6,450.8	-486.8	6,467.2	0.00	0.00	0.00
16,100.0	90.01	359.50	9,622.7	6,550.8	-487.7	6,567.1	0.00	0.00	0.00
16,200.0	90.01	359.50	9,622.7	6,650.8	-488.5	6,667.0	0.00	0.00	0.00
16,300.0	90.01	359.50	9,622.7	6,750.8	-489.4	6,766.9	0.00	0.00	0.00
16,400.0	90.01	359.50	9,622.7	6,850.8	-490.3	6,866.8	0.00	0.00	0.00
16,500.0	90.01	359.50	9,622.7	6,950.7	-491.1	6,966.7	0.00	0.00	0.00
16,600.0	90.01	359.50	9,622.6	7,050.7	-492.0	7,066.6	0.00	0.00	0.00
16,700.0	90.01	359.50	9,622.6	7,150.7	-492.9	7,166.5	0.00	0.00	0.00
16,800.0	90.01	359.50	9,622.6	7,250.7	-493.8	7,266.5	0.00	0.00	0.00
16,900.0	90.01	359.50	9,622.6	7,350.7	-494.6	7,366.4	0.00	0.00	0.00
17,000.0	90.01	359.50	9,622.6	7,450.7	-495.5	7,466.3	0.00	0.00	0.00
17,100.0	90.01	359.50	9,622.5	7,550.7	-496.4	7,566.2	0.00	0.00	0.00
17,200.0	90.01	359.50	9,622.5	7,650.7	-497.2	7,666.1	0.00	0.00	0.00
17,300.0	90.01	359.50	9,622.5	7,750.7	-498.1	7,766.0	0.00	0.00	0.00
17,400.0	90.01	359.50	9,622.5	7,850.7	-499.0	7,865.9	0.00	0.00	0.00
17,500.0	90.01	359.50	9,622.5	7,950.7	-499.9	7,965.8	0.00	0.00	0.00
17,600.0	90.01	359.50	9,622.4	8,050.7	-500.7	8,065.7	0.00	0.00	0.00
17,700.0	90.01	359.50	9,622.4	8,150.7	-501.6	8,165.7	0.00	0.00	0.00
17,800.0	90.01	359.50	9,622.4	8,250.7	-502.5	8,265.6	0.00	0.00	0.00
17,900.0	90.01	359.50	9,622.4	8,350.7	-503.3	8,365.5	0.00	0.00	0.00
18,000.0	90.01	359.50	9,622.4	8,450.7	-504.2	8,465.4	0.00	0.00	0.00
18,100.0	90.01	359.50	9,622.3	8,550.7	-505.1	8,565.3	0.00	0.00	0.00
18,200.0	90.01	359.50	9,622.3	8,650.7	-506.0	8,665.2	0.00	0.00	0.00
18,300.0	90.01	359.50	9,622.3	8,750.7	-506.8	8,765.1	0.00	0.00	0.00
18,400.0	90.01	359.50	9,622.3	8,850.7	-507.7	8,865.0	0.00	0.00	0.00
18,500.0	90.01	359.50	9,622.3	8,950.7	-508.6	8,965.0	0.00	0.00	0.00
18,600.0	90.01	359.50	9,622.2	9,050.7	-509.4	9,064.9	0.00	0.00	0.00
18,700.0	90.01	359.50	9,622.2	9,150.7	-510.3	9,164.8	0.00	0.00	0.00
18,800.0	90.01	359.50	9,622.2	9,250.7	-511.2	9,264.7	0.00	0.00	0.00
18,900.0	90.01	359.50	9,622.2	9,350.7	-512.1	9,364.6	0.00	0.00	0.00
19,000.0	90.01	359.50	9,622.2	9,450.7	-512.9	9,464.5	0.00	0.00	0.00
19,100.0	90.01	359.50	9,622.1	9,550.7	-513.8	9,564.4	0.00	0.00	0.00
19,200.0	90.01	359.50	9,622.1	9,650.6	-514.7	9,664.3	0.00	0.00	0.00
19,300.0	90.01	359.50	9,622.1	9,750.6	-515.5	9,764.2	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,400.0	90.01	359.50	9,622.1	9,850.6	-516.4	9,864.2	0.00	0.00	0.00
19,500.0	90.01	359.50	9,622.1	9,950.6	-517.3	9,964.1	0.00	0.00	0.00
19,600.0	90.01	359.50	9,622.0	10,050.6	-518.2	10,064.0	0.00	0.00	0.00
19,700.0	90.01	359.50	9,622.0	10,150.6	-519.0	10,163.9	0.00	0.00	0.00
19,765.2	90.01	359.50	9,622.0	10,215.8	-519.6	10,229.0	0.00	0.00	0.00
TD at 19765.2									

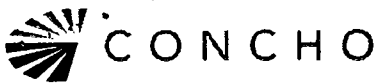
Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Myox 21 State C - plan hits target center - Point	0.00	0.00	9,622.0	10,085.8	-518.5	413,396.70	572,404.20	32° 8' 10.781 N	104° 5' 57.915 W
PBHL (Myox 21 State - plan hits target center - Rectangle (sides W60.0 H10,105.0 D20.0)	0.00	359.50	9,622.0	10,215.8	-519.6	413,526.70	572,403.10	32° 8' 12.067 N	104° 5' 57.925 W
FTP (Myox 21 State C - plan misses target center by 78.8usft at 9686.8usft MD (9557.5 TVD, 149.3 N, -412.9 E) - Point	0.00	0.00	9,624.0	111.1	-431.0	403,422.00	572,491.70	32° 6' 32.065 N	104° 5' 57.150 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
304.0	304.0	Rustler			
669.0	669.0	TOS			
2,229.0	2,229.0	BOS (Fletcher)			
2,431.0	2,431.0	LMAR (Top Delaware)			
2,486.0	2,486.0	BYCN			
3,316.7	3,315.0	CYCN			
4,566.7	4,562.0	BYCN			
6,119.5	6,111.0	Bone Sprg (BSGL)			
6,470.3	6,461.0	U Avalon Sh			
6,673.8	6,664.0	L Avalon Sh			
7,062.8	7,052.0	FBSG_sand			
7,923.9	7,911.0	SBSG_sand			
8,920.5	8,906.0	TBSG_sand			
9,287.0	9,267.0	WFMP			
9,380.1	9,350.0	WFMP Lith			



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Project: Eddy County (NAD27 NME)
Site: (Myox 21 State Com) Sec-21_T-25-S_R28-E
Well: Myox 21 State Com #31H
Wellbore: OWB
Design: Plan #1

Local Co-ordinate Reference: Well Myox 21 State Com #31H
TVD Reference: KB @ 3021.8usft
MD Reference: KB @ 3021.8usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

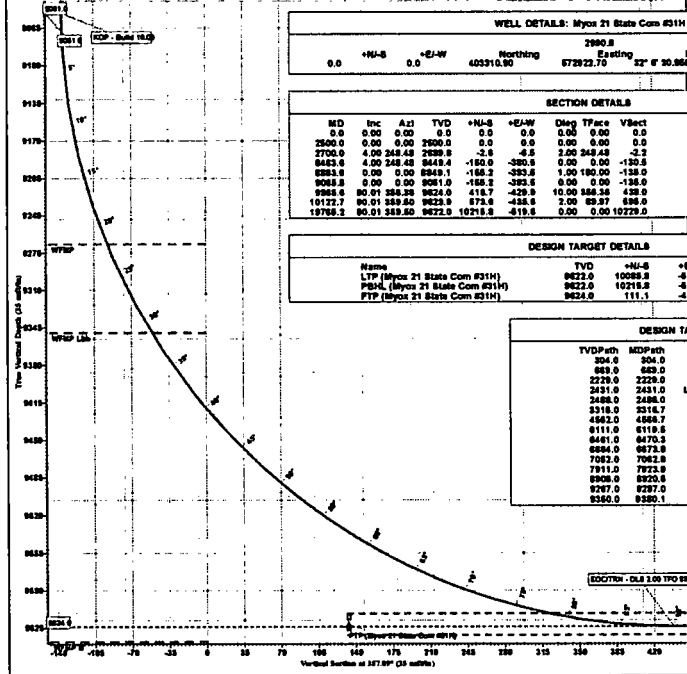
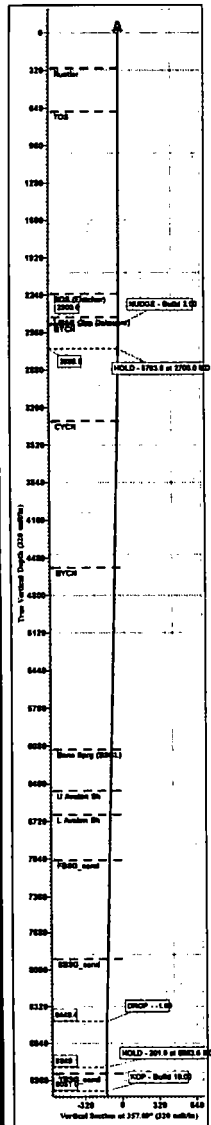
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	NUDGE - Build 2.00
2,700.0	2,699.8	-2.6	-6.5	HOLD - 5763.6 at 2700.0 MD
8,463.6	8,449.4	-150.0	-380.5	DROP - -1.00
8,863.6	8,849.1	-155.2	-393.5	HOLD - 201.9 at 8863.6 MD
9,065.5	9,051.0	-155.2	-393.5	KOP - Build 10.00
9,965.6	9,624.0	416.7	-429.9	EOC/TRN - DLS 2.00 TFO 89.97
10,122.7	9,623.9	573.6	-435.6	Start 9642.5 hold at 10122.7 MD
19,765.2	9,622.0	10,215.8	-519.6	TD at 19765.2



Azimuth to Grid North
True North: -0.13°
Magnetic North: 8.89°
Magnetic Field
Strength: 47848.7nT
Dip Angle: 60.80°
Date: 02/05/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.89°

Concho Resources, Inc.
Project: Eddy County (NAD27 NME)
Site: (Myos 21 State Com) Sec-21, T-25-S, R26-E
Well: Myos 21 State Com #31H
Wellbore: OWB
Design: Plan #1
Lat: 32° 6' 30.928 N
Long: 104° 5' 52.141 W
Pad GL: 2990.8
KB: KB @ 3021.8usft



WELL DETAILS: Myos 21 State Com #31H						
2980.8						
0.0	+N+E	0.0	+E+W	Northings	Eastings	Latitude Longitude
				403910.90	672923.70	32° 6' 30.968 N 104° 5' 52.141 W

SECTION DETAILS						
MD	Inc	Azi	TVD	+N+E	+E+W	Design Face Vsect
0.0	0.00	0.00	0.0	0.0	0.0	0.0
2500.0	0.00	0.00	2500.0	0.0	0.0	0.0
2700.0	4.00	248.48	2389.9	-2.8	-6.5	2.00 348.48 -3.2
2800.0	4.00	248.48	2489.9	-180.0	-380.0	2.00 348.48 -1.0
2900.0	0.00	0.00	2900.0	-180.0	-380.0	2.00 180.00 -3.0
3000.0	0.00	0.00	3000.0	-180.0	-380.0	2.00 180.00 -1.0
3021.8	0.00	0.00	3021.8	-180.0	-380.0	2.00 180.00 -1.0
3041.8	0.00	0.00	3041.8	-180.0	-380.0	2.00 180.00 -1.0
3061.8	0.00	0.00	3061.8	-180.0	-380.0	2.00 180.00 -1.0
3081.8	0.00	0.00	3081.8	-180.0	-380.0	2.00 180.00 -1.0
3101.8	0.00	0.00	3101.8	-180.0	-380.0	2.00 180.00 -1.0
3121.8	0.00	0.00	3121.8	-180.0	-380.0	2.00 180.00 -1.0
3141.8	0.00	0.00	3141.8	-180.0	-380.0	2.00 180.00 -1.0
3161.8	0.00	0.00	3161.8	-180.0	-380.0	2.00 180.00 -1.0
3181.8	0.00	0.00	3181.8	-180.0	-380.0	2.00 180.00 -1.0
3201.8	0.00	0.00	3201.8	-180.0	-380.0	2.00 180.00 -1.0
3221.8	0.00	0.00	3221.8	-180.0	-380.0	2.00 180.00 -1.0
3241.8	0.00	0.00	3241.8	-180.0	-380.0	2.00 180.00 -1.0
3261.8	0.00	0.00	3261.8	-180.0	-380.0	2.00 180.00 -1.0
3281.8	0.00	0.00	3281.8	-180.0	-380.0	2.00 180.00 -1.0
3301.8	0.00	0.00	3301.8	-180.0	-380.0	2.00 180.00 -1.0
3321.8	0.00	0.00	3321.8	-180.0	-380.0	2.00 180.00 -1.0
3341.8	0.00	0.00	3341.8	-180.0	-380.0	2.00 180.00 -1.0
3361.8	0.00	0.00	3361.8	-180.0	-380.0	2.00 180.00 -1.0
3381.8	0.00	0.00	3381.8	-180.0	-380.0	2.00 180.00 -1.0
3401.8	0.00	0.00	3401.8	-180.0	-380.0	2.00 180.00 -1.0
3421.8	0.00	0.00	3421.8	-180.0	-380.0	2.00 180.00 -1.0
3441.8	0.00	0.00	3441.8	-180.0	-380.0	2.00 180.00 -1.0
3461.8	0.00	0.00	3461.8	-180.0	-380.0	2.00 180.00 -1.0
3481.8	0.00	0.00	3481.8	-180.0	-380.0	2.00 180.00 -1.0
3501.8	0.00	0.00	3501.8	-180.0	-380.0	2.00 180.00 -1.0
3521.8	0.00	0.00	3521.8	-180.0	-380.0	2.00 180.00 -1.0
3541.8	0.00	0.00	3541.8	-180.0	-380.0	2.00 180.00 -1.0
3561.8	0.00	0.00	3561.8	-180.0	-380.0	2.00 180.00 -1.0
3581.8	0.00	0.00	3581.8	-180.0	-380.0	2.00 180.00 -1.0
3601.8	0.00	0.00	3601.8	-180.0	-380.0	2.00 180.00 -1.0
3621.8	0.00	0.00	3621.8	-180.0	-380.0	2.00 180.00 -1.0
3641.8	0.00	0.00	3641.8	-180.0	-380.0	2.00 180.00 -1.0
3661.8	0.00	0.00	3661.8	-180.0	-380.0	2.00 180.00 -1.0
3681.8	0.00	0.00	3681.8	-180.0	-380.0	2.00 180.00 -1.0
3701.8	0.00	0.00	3701.8	-180.0	-380.0	2.00 180.00 -1.0
3721.8	0.00	0.00	3721.8	-180.0	-380.0	2.00 180.00 -1.0
3741.8	0.00	0.00	3741.8	-180.0	-380.0	2.00 180.00 -1.0
3761.8	0.00	0.00	3761.8	-180.0	-380.0	2.00 180.00 -1.0
3781.8	0.00	0.00	3781.8	-180.0	-380.0	2.00 180.00 -1.0
3801.8	0.00	0.00	3801.8	-180.0	-380.0	2.00 180.00 -1.0
3821.8	0.00	0.00	3821.8	-180.0	-380.0	2.00 180.00 -1.0
3841.8	0.00	0.00	3841.8	-180.0	-380.0	2.00 180.00 -1.0
3861.8	0.00	0.00	3861.8	-180.0	-380.0	2.00 180.00 -1.0
3881.8	0.00	0.00	3881.8	-180.0	-380.0	2.00 180.00 -1.0
3901.8	0.00	0.00	3901.8	-180.0	-380.0	2.00 180.00 -1.0
3921.8	0.00	0.00	3921.8	-180.0	-380.0	2.00 180.00 -1.0
3941.8	0.00	0.00	3941.8	-180.0	-380.0	2.00 180.00 -1.0
3961.8	0.00	0.00	3961.8	-180.0	-380.0	2.00 180.00 -1.0
3981.8	0.00	0.00	3981.8	-180.0	-380.0	2.00 180.00 -1.0
4001.8	0.00	0.00	4001.8	-180.0	-380.0	2.00 180.00 -1.0
4021.8	0.00	0.00	4021.8	-180.0	-380.0	2.00 180.00 -1.0
4041.8	0.00	0.00	4041.8	-180.0	-380.0	2.00 180.00 -1.0
4061.8	0.00	0.00	4061.8	-180.0	-380.0	2.00 180.00 -1.0
4081.8	0.00	0.00	4081.8	-180.0	-380.0	2.00 180.00 -1.0
4101.8	0.00	0.00	4101.8	-180.0	-380.0	2.00 180.00 -1.0
4121.8	0.00	0.00	4121.8	-180.0	-380.0	2.00 180.00 -1.0
4141.8	0.00	0.00	4141.8	-180.0	-380.0	2.00 180.00 -1.0
4161.8	0.00	0.00	4161.8	-180.0	-380.0	2.00 180.00 -1.0
4181.8	0.00	0.00	4181.8	-180.0	-380.0	2.00 180.00 -1.0
4201.8	0.00	0.00	4201.8	-180.0	-380.0	2.00 180.00 -1.0
4221.8	0.00	0.00	4221.8	-180.0	-380.0	2.00 180.00 -1.0
4241.8	0.00	0.00	4241.8	-180.0	-380.0	2.00 180.00 -1.0
4261.8	0.00	0.00	4261.8	-180.0	-380.0	2.00 180.00 -1.0
4281.8	0.00	0.00	4281.8	-180.0	-380.0	2.00 180.00 -1.0
4301.8	0.00	0.00	4301.8	-180.0	-380.0	2.00 180.00 -1.0
4321.8	0.00	0.00	4321.8	-180.0	-380.0	2.00 180.00 -1.0
4341.8	0.00	0.00	4341.8	-180.0	-380.0	2.00 180.00 -1.0
4361.8	0.00	0.00	4361.8	-180.0	-380.0	2.00 180.00 -1.0
4381.8	0.00	0.00	4381.8	-180.0	-380.0	2.00 180.00 -1.0
4401.8	0.00	0.00	4401.8	-180.0	-380.0	2.00 180.00 -1.0
4421.8	0.00	0.00	4421.8	-180.0	-380.0	2.00 180.00 -1.0
4441.8	0.00	0.00	4441.8	-180.0	-380.0	2.00 180.00 -1.0
4461.8	0.00	0.00	4461.8	-180.0	-380.0	2.00 180.00 -1.0
4481.8	0.00	0.00	4481.8	-180.0	-380.0	2.00 180.00 -1.0
4501.8	0.00	0.00	4501.8	-180.0	-380.0	2.00 180.00 -1.0
4521.8	0.00	0.00	4521.8	-180.0	-380.0	2.00 180.00 -1.0
4541.8	0.00	0.00	4541.8	-180.0	-380.0	2.00 180.00 -1.0
4561.8	0.00	0.00	4561.8	-180.0	-380.0	2.00 180.00 -1.0
4581.8	0.00	0.00	4581.8	-180.0	-380.0	2.00 180.00 -1.0
4601.8	0.00	0.00	4601.8	-180.0	-380.0	2.00 180.00 -1.0
4621.8	0.00	0.00	4621.8	-180.0	-380.0	2.00 180.00 -1.0
4641.8	0.00	0.00	4641.8	-180.0	-380.0	2.00 180.00 -1.0
4661.8	0.00	0.00	4661.8	-180.0	-380.0	2.00 180.00 -1.0
4681.8	0.00	0.00	4681.8	-180.0	-380.0	2.00 180.00 -1.0
4701.8	0.00	0.00	4701.8	-180.0	-380.0	2.00 180.00 -1.0
4721.8	0.00	0.00	4721.8	-180.0	-380.0	2.00 180.00 -1.0
4741.8	0.00	0.00	4741.8	-180.0	-380.0	2.00 180.00 -1.0
4761.8	0.00	0.00	4761.8	-180.0	-380.0	2.00 180.00 -1.0
4781.8	0.00	0.00	4781.8	-180.0	-380.0	2.00 180.00 -1.0
4801.8	0.00	0.00	4801.8	-180.0	-380.0	2.00 180.00 -1.0
4821.8	0.00	0.00	4821.8	-180.0	-380.0	2.00 180.00 -1.0
4841.8	0.00	0.00	4841.8	-180.0	-380.0	2.00 180.00 -1.0
4861.8	0.00	0.00	4861.8	-180.0	-380.0	2.00 180.00 -1.0
4881.8	0.00	0.00	4881.8	-180.0	-380.0	2.00 180.00 -1.0
4901.8	0.00	0.00	4901.8	-180.0	-380.0	2.00 180.00 -1.0
4921.8	0.00	0.00	4921.8	-180.0	-380.0	2.00 180.00 -1.0
4941.8	0.00	0.00	4941.8	-180.0	-380.0	2.00 180.00 -1.0
4961.8	0.00	0.00	4961.8	-180.0	-380.0	2.00 180.00 -1.0
4981.8	0.00	0.00	4981.8	-180.0	-380.0	2.00 180.00 -1.0
5001.8	0.00	0.00	5001.8	-180.0	-380.0	2.00 180.00 -1.0
5021.8	0.00	0.00	5021.8	-180.0	-380.0	2.00 180.00 -1.0
5041.8	0.00	0.00	5041.8	-180.0	-380.0	2.00 180.00 -1.0
5061.8	0.00	0.00	5061.8	-180.0	-380.0	2.00 180.00 -1.0
5081.8	0.00	0.00	5081.8	-180.0	-380.0	2.00 180.00 -1.0
5101.8	0.00	0.00	5101.8	-180.0	-380.0	2.00 180.00 -1.0
5121.8	0.00	0.00	5121.8	-180.0	-380.0	2.00 180.00 -1.0
5141.8	0.00	0.00	5141.8	-180.0	-380.0	2.00 180.00 -1.0
5161.8	0.00	0.00	5161.8	-180.0	-380.0	2.00 180.00 -1.0
5181.8	0.00	0.00	5181.8	-180.0	-380.0	2.00 180.00 -1.0
5201.8	0.00	0.00	5201.8	-180.0	-380.0	2.00 180.00 -1.0
5221.8	0.00	0.00	5221.8	-180.0	-380.0	2.00 180.00 -1.0
5241.8	0.00	0.00	5241.8	-180.0	-380.0	2.00 180.00 -1.0
5261.8	0.00	0.00	5261.8	-180.0	-380.0	2.00 180.00 -1.0
5281.8	0.00	0.00	5281.8	-180.0	-380.0	2.00 180.00 -1.0
5301.8	0.00	0.00	5301.8	-180.0	-380.0	2.00 180.00 -1.0
5321.8	0.00	0.00	5321.8	-180.0	-380.0	2.00 180.00 -1.0
5341.8	0.00	0.00	5341.8	-180.0	-380.0	2.00 180.00 -1.0
5361.8	0.00	0.00	5361.8	-180.0	-380.0	2.00 180.00 -1.0
5381.8	0.00	0.00	5381.8	-180.0	-380.0	2.00 180.00 -1.0
5401.8	0.00	0.00	5401.8	-180.0	-380.0	2.00 180.00 -1.0
5421.8	0.00	0.00	5421.8	-180.0	-380.0	2.00 180.00 -1.0
5441.8	0.00	0.00	5441.8	-180.0	-380.0	2.00 180.00 -1.0
5461.8	0.00	0.00	5461.8	-180.0	-380.0	2.00 180.00 -1.0
5481.8	0.00	0.00	5481.8	-180.0	-380.0	2.00 180.00 -1.0
5501.8	0.00	0.00	5501.8	-180.0	-380.0	2.00 180.00 -1.0
5521.8	0.00	0.00	5521.8	-180.0	-380.0	2.00 180.00 -1.0
5541.8	0.00	0.00	5541.8	-180.0	-380.0	2.00 180.00 -1.0
5561.8	0.00	0.00	5561.8	-180.0	-380.0	2.00 180.00 -1.0
5581.8	0.00	0.00	5581.8	-180.0	-380.0	2.00 180.00 -1.0
5601.8	0.00	0.00	5601.8	-180.0	-380.0	2.00 180.00 -1.0
5621.8	0.00	0.00	5621.8	-180.0	-380.0	2.00 180.00 -1.0
5641.8	0.00	0.00	5641.8	-180.0	-380.0	2.00 180.00 -1.0
5661.8	0.00	0.00	5661.8	-180.0	-380.0	2.00 180.00 -1.0
5681.8	0.00	0.00	5681.8	-180.0	-380.0	2.00 180.00 -1.0
5701.8	0.00	0.00	5701.8	-180.0	-380.0	2.00 180.00 -1.0
5721.8	0.00	0.00	5721.8	-180.0	-380.0	2.00 180.00 -1.0
5741.8	0.00	0.00	5741.8	-180.0	-380.0	2.00 180.00 -1.0
5761.8	0.00	0.00	5761.8	-180.0	-380.0	2.00 180.00 -1.0
5781.8	0.00	0.00	5781.8	-180.0	-380.0	2.00 1

