

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 S. First St., 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 & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 229137	
		³ Reason for Filing Code/ Effective Date RT	
API Number 30-015-46784	⁵ Pool Name Willow Lake Bone Spring ; Southeast		⁶ Pool Code 96217
⁷ Property Code 313927	⁸ Property Name Admiral Federal Com		⁹ Well Number 502H

II. 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
M	28	25S	29E		220	South	910	West	Eddy

¹¹ Bottom Hole Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	21	25S	29E		50	North	1489	West	Eddy
¹² Lse Code F	¹³ Producing Method Code F		¹⁴ Gas Connection Date 3/22/21		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
	ACC	O
298751	ETC	G
278421	Holly Refining and Marketing PO Box 159 Artesia, NM 88210	O

IV. Well Completion Data

²¹ Spud Date 3/26/20	²² Ready Date 3/15/21	²³ TD 18,988’	²⁴ PBTD 18,853’	²⁵ Perforations 8,750-18,828’	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17 1/2”		13 3/8”		650’	625
12 1/4”		9 5/8”		3,000’	880
8 1/2”		5 1/2”		18,973’	2885
		2 7/8”		8,002’	

V. Well Test Data

³¹ Date New Oil 3/22/21	³² Gas Delivery Date 3/22/21	³³ Test Date 3/22/21	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 716	³⁶ Csg. Pressure 672
³⁷ Choke Size 16/64	³⁸ Oil 393	³⁹ Water 2210	⁴⁰ Gas 1251		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Amanda Avery</i>			OIL CONSERVATION DIVISION Approved by: KURT SIMMONS		
Printed name: Amanda Avery			Title: NM OCD, SANTA FE		
Title: Regulatory Analyst			Approval Date: 07/08/2021		
E-mail Address:					
Date: 3 /19/21		Phone: 575-748-6962			

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

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

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

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 30-015-46784	Pool Code 96217	Pool Name Willow Lake Bone Spring; Southeast
Property Code 313927	Property Name ADMIRAL FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2982.9'

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	28	25-S	29-E		220	SOUTH	910	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
C	21	25-S	29-E		50	NORTH	1489	WEST	EDDY
Dedicated Acres 1280	Joint or Infill	Consolidation Code	Order No.						

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

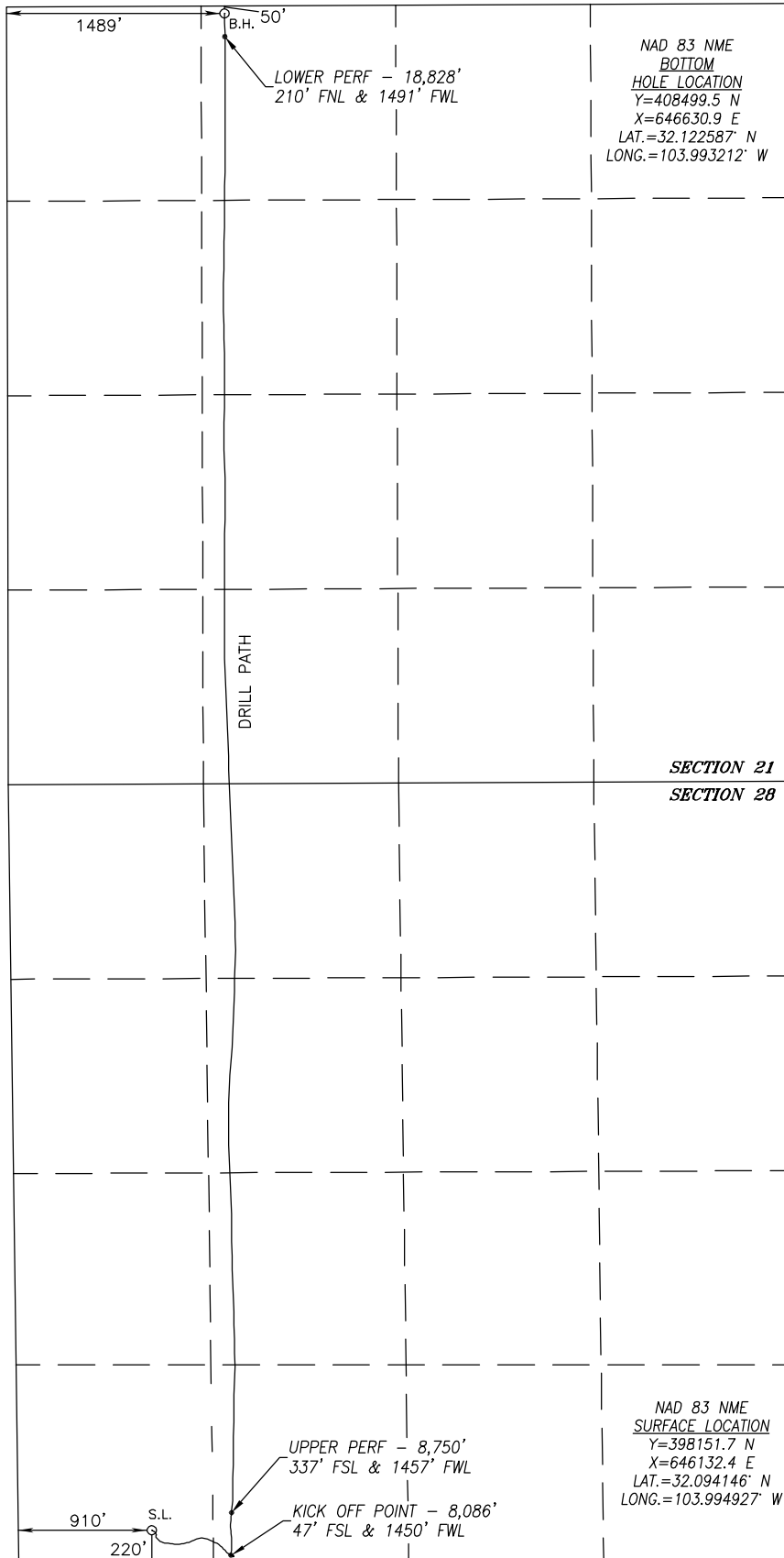
SEE PAGE 2

PAGE 1 OF 2

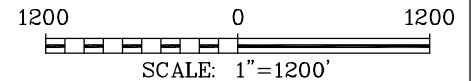
W.O. #21-88

DRAWN BY: WN

Property Code 313927	Property Name ADMIRAL FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2982.9'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE ADMIRAL FEDERAL COM 502H SUPPLIED TO HARCROW SURVEYING, LLC ON JANUARY 27, 2021



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 3/15/21
Signature Date

Amanda Avery
Printed Name
amanda.lavery@conocophillips.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.

AUG. 30, 2019/JULY 2, 2020

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 2/1/21
Certificate No. CHAD HARCROW 17777

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W.O. #21-88

DRAWN BY: WN

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

ADMIRAL FEDERAL PROJECT (ATLAS 2529)

ADMIRAL FEDERAL COM 502H

OWB

Design: AWP

Standard Survey Report

02 July, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Project	ATLAS PROSPECT (NM-E)		
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		

Well	ADMIRAL FEDERAL COM 502H, ACTIVE				
Well Position	+N/-S	0.0 usft	Northing:	398,093.70 usft	Latitude: 32° 5' 38.480 N
	+E/-W	0.0 usft	Easting:	604,947.40 usft	Longitude: 103° 59' 39.992 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 2,982.9 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/23/2020	6.84	59.84	47,535.99973547

Design	AWP				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	2.74	

Survey Program	Date	7/2/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
89.0	581.0	MWD-SURFACE (OWB)	MWD	OWSG MWD - Standard	
679.0	18,988.0	MWD-INTER/CURVE/LAT (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	

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	
89.0	0.22	36.16	89.0	0.1	0.1	0.1	0.25	0.25	0.00	
175.0	0.31	352.65	175.0	0.5	0.2	0.5	0.25	0.10	-50.59	
260.0	0.40	119.92	260.0	0.6	0.4	0.6	0.75	0.11	149.73	
320.0	0.35	133.63	320.0	0.4	0.7	0.4	0.17	-0.08	22.85	
407.0	0.44	141.01	407.0	-0.1	1.1	0.0	0.12	0.10	8.48	
495.0	0.53	148.66	495.0	-0.7	1.5	-0.6	0.13	0.10	8.69	
581.0	0.79	132.14	581.0	-1.4	2.2	-1.3	0.37	0.30	-19.21	
679.0	1.95	110.39	679.0	-2.5	4.2	-2.3	1.28	1.18	-22.19	
768.0	2.10	105.70	767.9	-3.4	7.2	-3.1	0.25	0.17	-5.27	
859.0	2.40	120.41	858.8	-4.9	10.5	-4.4	0.71	0.33	16.16	
949.0	2.13	123.07	948.8	-6.7	13.5	-6.1	0.32	-0.30	2.96	
1,040.0	1.46	120.53	1,039.7	-8.2	15.9	-7.5	0.74	-0.74	-2.79	
1,129.0	1.95	113.36	1,128.7	-9.4	18.3	-8.5	0.60	0.55	-8.06	
1,218.0	1.54	111.80	1,217.6	-10.5	20.8	-9.5	0.46	-0.46	-1.75	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
1,308.0	0.87	144.62	1,307.6	-11.5	22.3	-10.4	1.04	-0.74	36.47
1,403.0	1.26	146.04	1,402.6	-12.9	23.3	-11.8	0.41	0.41	1.49
1,497.0	2.29	148.39	1,496.6	-15.4	24.9	-14.2	1.10	1.10	2.50
1,592.0	2.78	146.37	1,591.5	-18.9	27.1	-17.6	0.52	0.52	-2.13
1,687.0	2.53	147.91	1,686.4	-22.6	29.5	-21.2	0.27	-0.26	1.62
1,782.0	2.77	164.12	1,781.3	-26.6	31.3	-25.1	0.83	0.25	17.06
1,877.0	2.58	182.16	1,876.2	-30.9	31.8	-29.4	0.90	-0.20	18.99
1,972.0	2.54	181.68	1,971.1	-35.2	31.7	-33.6	0.05	-0.04	-0.51
2,066.0	2.31	181.52	2,065.0	-39.1	31.6	-37.6	0.24	-0.24	-0.17
2,161.0	2.25	189.80	2,159.9	-42.9	31.2	-41.4	0.35	-0.06	8.72
2,256.0	2.35	171.46	2,254.8	-46.7	31.2	-45.1	0.78	0.11	-19.31
2,351.0	3.90	142.72	2,349.7	-51.2	33.4	-49.5	2.27	1.63	-30.25
2,446.0	4.05	138.12	2,444.5	-56.2	37.6	-54.4	0.37	0.16	-4.84
2,541.0	4.97	134.28	2,539.2	-61.6	42.8	-59.5	1.02	0.97	-4.04
2,635.0	6.84	132.07	2,632.7	-68.2	49.9	-65.7	2.00	1.99	-2.35
2,730.0	7.75	125.20	2,726.9	-75.7	59.3	-72.8	1.33	0.96	-7.23
2,825.0	6.13	105.53	2,821.2	-80.7	69.4	-77.3	3.00	-1.71	-20.71
2,920.0	5.13	102.79	2,915.7	-83.0	78.5	-79.2	1.09	-1.05	-2.88
3,081.0	4.60	102.81	3,076.2	-86.1	91.8	-81.6	0.33	-0.33	0.01
3,176.0	4.41	100.03	3,170.9	-87.5	99.1	-82.7	0.30	-0.20	-2.93
3,270.0	4.37	97.74	3,264.6	-88.6	106.2	-83.5	0.19	-0.04	-2.44
3,365.0	7.06	96.30	3,359.1	-89.8	115.6	-84.2	2.84	2.83	-1.52
3,460.0	8.83	96.94	3,453.2	-91.3	128.6	-85.1	1.87	1.86	0.67
3,554.0	8.32	96.54	3,546.2	-92.9	142.5	-86.0	0.55	-0.54	-0.43
3,649.0	8.05	94.64	3,640.2	-94.3	156.0	-86.7	0.40	-0.28	-2.00
3,744.0	7.75	92.57	3,734.3	-95.1	169.0	-86.9	0.44	-0.32	-2.18
3,838.0	6.37	89.34	3,827.6	-95.3	180.6	-86.6	1.53	-1.47	-3.44
3,933.0	7.23	84.54	3,921.9	-94.7	191.8	-85.4	1.08	0.91	-5.05
4,028.0	8.03	81.12	4,016.1	-93.1	204.3	-83.2	0.97	0.84	-3.60
4,123.0	7.76	79.08	4,110.2	-90.9	217.2	-80.4	0.41	-0.28	-2.15
4,218.0	7.56	77.61	4,204.3	-88.3	229.6	-77.2	0.29	-0.21	-1.55
4,313.0	7.09	74.31	4,298.5	-85.4	241.3	-73.8	0.66	-0.49	-3.47
4,408.0	6.30	71.55	4,392.9	-82.1	251.9	-70.0	0.90	-0.83	-2.91
4,502.0	6.33	69.32	4,486.3	-78.7	261.6	-66.1	0.26	0.03	-2.37
4,596.0	5.68	68.19	4,579.8	-75.1	270.8	-62.1	0.70	-0.69	-1.20
4,691.0	4.96	65.07	4,674.4	-71.6	278.9	-58.2	0.82	-0.76	-3.28
4,785.0	8.75	68.88	4,767.7	-67.3	289.3	-53.5	4.06	4.03	4.05
4,880.0	12.06	72.48	4,861.1	-61.8	305.5	-47.1	3.55	3.48	3.79
4,974.0	11.66	70.30	4,953.1	-55.6	323.8	-40.1	0.64	-0.43	-2.32
5,068.0	12.22	89.83	5,045.1	-52.4	342.7	-35.9	4.32	0.60	20.78
5,163.0	12.97	106.03	5,137.9	-55.3	363.0	-37.9	3.79	0.79	17.05
5,257.0	11.14	104.08	5,229.8	-60.4	381.9	-42.1	1.99	-1.95	-2.07
5,352.0	11.86	117.71	5,322.9	-67.2	399.5	-48.0	2.95	0.76	14.35

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
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Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)
5,446.0	11.16	116.05	5,415.0	-75.7	416.2	-55.7	0.82	-0.74	-1.77
5,540.0	9.43	112.86	5,507.5	-82.6	431.5	-62.0	1.94	-1.84	-3.39
5,635.0	8.43	110.27	5,601.3	-88.1	445.2	-66.7	1.13	-1.05	-2.73
5,729.0	9.67	128.55	5,694.2	-95.4	457.8	-73.4	3.31	1.32	19.45
5,824.0	9.74	137.42	5,787.8	-106.3	469.5	-83.7	1.57	0.07	9.34
5,918.0	9.38	134.90	5,880.5	-117.5	480.3	-94.5	0.59	-0.38	-2.68
6,013.0	8.62	134.17	5,974.4	-128.0	490.9	-104.4	0.81	-0.80	-0.77
6,107.0	8.31	133.09	6,067.3	-137.5	500.9	-113.4	0.37	-0.33	-1.15
6,202.0	7.61	132.10	6,161.4	-146.4	510.6	-121.9	0.75	-0.74	-1.04
6,296.0	6.86	131.27	6,254.7	-154.3	519.4	-129.3	0.81	-0.80	-0.88
6,390.0	6.29	130.38	6,348.1	-161.3	527.6	-136.0	0.62	-0.61	-0.95
6,485.0	5.86	130.07	6,442.5	-167.8	535.2	-142.1	0.45	-0.45	-0.33
6,580.0	4.89	130.43	6,537.1	-173.6	542.0	-147.5	1.02	-1.02	0.38
6,675.0	4.64	99.86	6,631.8	-176.9	548.9	-150.5	2.65	-0.26	-32.18
6,769.0	3.50	119.60	6,725.6	-178.9	555.1	-152.2	1.90	-1.21	21.00
6,864.0	1.58	113.56	6,820.5	-180.9	558.9	-154.0	2.04	-2.02	-6.36
6,959.0	0.25	144.36	6,915.4	-181.6	560.2	-154.6	1.44	-1.40	32.42
7,054.0	1.26	358.75	7,010.4	-180.7	560.3	-153.7	1.55	1.06	-153.27
7,149.0	2.22	3.16	7,105.4	-177.8	560.4	-150.9	1.02	1.01	4.64
7,243.0	1.86	347.40	7,199.3	-174.5	560.1	-147.6	0.71	-0.38	-16.77
7,338.0	1.83	310.31	7,294.3	-172.0	558.6	-145.2	1.24	-0.03	-39.04
7,433.0	2.06	291.52	7,389.2	-170.4	555.9	-143.7	0.71	0.24	-19.78
7,527.0	1.46	264.77	7,483.2	-169.9	553.1	-143.3	1.07	-0.64	-28.46
7,622.0	1.05	245.61	7,578.2	-170.4	551.1	-143.9	0.61	-0.43	-20.17
7,717.0	1.86	251.02	7,673.1	-171.2	548.9	-144.8	0.86	0.85	5.69
7,812.0	2.38	254.80	7,768.1	-172.3	545.5	-146.0	0.57	0.55	3.98
7,906.0	1.44	252.56	7,862.0	-173.1	542.5	-147.0	1.00	-1.00	-2.38
8,001.0	0.46	167.70	7,957.0	-173.9	541.4	-147.8	1.55	-1.03	-89.33
8,096.0	4.83	4.37	8,051.9	-170.2	541.8	-144.2	5.55	4.60	-171.93
8,191.0	10.39	6.51	8,146.0	-157.7	543.1	-131.6	5.86	5.85	2.25
8,285.0	16.69	2.05	8,237.4	-135.8	544.6	-109.6	6.79	6.70	-4.74
8,342.3	20.43	3.70	8,291.7	-117.6	545.5	-91.4	6.60	6.53	2.89
FTP @ 8342.3'MD									
8,374.0	22.51	4.39	8,321.2	-106.0	546.3	-79.8	6.60	6.55	2.17
8,469.0	27.46	357.74	8,407.3	-66.0	546.8	-39.8	5.98	5.21	-7.00
8,501.0	27.93	353.87	8,435.6	-51.1	545.8	-25.0	5.81	1.47	-12.09
8,564.0	31.22	352.84	8,490.4	-20.3	542.1	5.6	5.28	5.22	-1.63
8,596.0	38.04	354.42	8,516.7	-2.2	540.2	23.6	21.49	21.31	4.94
8,627.0	44.98	357.21	8,539.9	18.3	538.7	44.0	23.16	22.39	9.00
8,659.0	50.40	1.68	8,561.5	41.9	538.5	67.6	19.83	16.94	13.97
8,690.0	58.55	6.32	8,579.5	67.1	540.3	92.8	28.96	26.29	14.97
8,722.0	64.06	6.18	8,594.8	94.9	543.4	120.8	17.22	17.22	-0.44
8,737.0	67.09	5.94	8,601.0	108.5	544.8	134.4	20.25	20.20	-1.60

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)	
8,768.0	73.61	5.51	8,611.4	137.6	547.7	163.6	21.07	21.03	-1.39	
8,800.0	75.28	4.15	8,620.0	168.3	550.3	194.4	6.63	5.22	-4.25	
8,831.0	77.00	2.17	8,627.4	198.3	552.0	224.5	8.32	5.55	-6.39	
8,863.0	79.64	1.32	8,633.9	229.6	552.9	255.8	8.65	8.25	-2.66	
8,895.0	81.70	0.96	8,639.1	261.2	553.5	287.3	6.53	6.44	-1.13	
8,926.0	85.53	1.13	8,642.6	292.0	554.1	318.1	12.37	12.35	0.55	
8,989.0	88.49	0.97	8,645.8	354.9	555.3	381.0	4.71	4.70	-0.25	
9,084.0	88.01	0.13	8,648.7	449.9	556.2	475.9	1.02	-0.51	-0.88	
9,179.0	88.50	0.34	8,651.6	544.8	556.6	570.8	0.56	0.52	0.22	
9,274.0	90.33	1.03	8,652.6	639.8	557.7	665.7	2.06	1.93	0.73	
9,369.0	92.41	1.79	8,650.3	734.7	560.0	760.6	2.33	2.19	0.80	
9,464.0	90.02	0.88	8,648.3	829.7	562.2	855.6	2.69	-2.52	-0.96	
9,559.0	91.16	0.84	8,647.3	924.7	563.7	950.5	1.20	1.20	-0.04	
9,654.0	92.16	1.62	8,644.6	1,019.6	565.7	1,045.4	1.33	1.05	0.82	
9,749.0	89.10	1.09	8,643.5	1,114.6	568.0	1,140.4	3.27	-3.22	-0.56	
9,844.0	88.22	357.75	8,645.8	1,209.5	567.0	1,235.2	3.63	-0.93	-3.52	
9,938.0	90.73	359.56	8,646.6	1,303.5	564.8	1,328.9	3.29	2.67	1.93	
10,033.0	91.30	358.53	8,644.9	1,398.4	563.2	1,423.7	1.24	0.60	-1.08	
10,128.0	92.41	358.60	8,641.9	1,493.4	560.8	1,518.4	1.17	1.17	0.07	
10,223.0	89.48	358.38	8,640.3	1,588.3	558.3	1,613.1	3.09	-3.08	-0.23	
10,318.0	88.87	357.56	8,641.7	1,683.2	555.0	1,707.8	1.08	-0.64	-0.86	
10,412.0	90.89	358.00	8,641.9	1,777.2	551.3	1,801.5	2.20	2.15	0.47	
10,507.0	92.77	358.15	8,638.8	1,872.1	548.1	1,896.1	1.99	1.98	0.16	
10,602.0	90.54	359.54	8,636.1	1,967.0	546.2	1,990.8	2.77	-2.35	1.46	
10,697.0	89.09	359.45	8,636.4	2,062.0	545.4	2,085.7	1.53	-1.53	-0.09	
10,792.0	88.13	359.13	8,638.7	2,156.9	544.2	2,180.5	1.07	-1.01	-0.34	
10,887.0	88.30	358.04	8,641.7	2,251.9	541.9	2,275.2	1.16	0.18	-1.15	
10,982.0	88.65	356.85	8,644.2	2,346.7	537.6	2,369.7	1.31	0.37	-1.25	
11,076.0	91.40	358.16	8,644.2	2,440.6	533.5	2,463.3	3.24	2.93	1.39	
11,171.0	92.30	357.69	8,641.1	2,535.5	530.1	2,557.9	1.07	0.95	-0.49	
11,266.0	93.03	357.91	8,636.7	2,630.3	526.5	2,652.5	0.80	0.77	0.23	
11,361.0	90.57	0.06	8,633.7	2,725.3	524.8	2,747.2	3.44	-2.59	2.26	
11,456.0	88.38	359.65	8,634.6	2,820.3	524.5	2,842.1	2.35	-2.31	-0.43	
11,551.0	88.66	1.86	8,637.0	2,915.2	525.8	2,937.0	2.34	0.29	2.33	
11,645.0	88.95	2.75	8,639.0	3,009.1	529.6	3,031.0	1.00	0.31	0.95	
11,740.0	89.82	3.81	8,640.0	3,104.0	535.0	3,126.0	1.44	0.92	1.12	
11,835.0	90.07	3.36	8,640.1	3,198.8	540.9	3,220.9	0.54	0.26	-0.47	
11,930.0	90.61	5.02	8,639.5	3,293.5	547.9	3,315.9	1.84	0.57	1.75	
12,024.0	89.29	3.42	8,639.6	3,387.2	554.8	3,409.9	2.21	-1.40	-1.70	
12,119.0	88.61	2.12	8,641.3	3,482.1	559.4	3,504.9	1.54	-0.72	-1.37	
12,214.0	88.31	1.40	8,643.9	3,577.0	562.3	3,599.8	0.82	-0.32	-0.76	
12,309.0	88.75	1.14	8,646.3	3,672.0	564.4	3,694.7	0.54	0.46	-0.27	
12,404.0	90.13	1.74	8,647.3	3,766.9	566.8	3,789.7	1.58	1.45	0.63	
12,499.0	90.80	2.01	8,646.5	3,861.9	569.9	3,884.7	0.76	0.71	0.28	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

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)	
12,593.0	90.92	1.15	8,645.1	3,955.8	572.5	3,978.7	0.92	0.13	-0.91	
12,688.0	87.72	357.88	8,646.2	4,050.8	571.7	4,073.5	4.82	-3.37	-3.44	
12,782.0	87.69	358.50	8,650.0	4,144.7	568.7	4,167.1	0.66	-0.03	0.66	
12,877.0	88.70	358.02	8,653.0	4,239.6	565.8	4,261.8	1.18	1.06	-0.51	
12,972.0	90.55	357.73	8,653.6	4,334.5	562.3	4,356.4	1.97	1.95	-0.31	
13,067.0	91.17	357.73	8,652.2	4,429.4	558.6	4,451.1	0.65	0.65	0.00	
13,162.0	91.75	357.56	8,649.7	4,524.3	554.7	4,545.6	0.64	0.61	-0.18	
13,257.0	91.81	357.04	8,646.8	4,619.2	550.2	4,640.2	0.55	0.06	-0.55	
13,351.0	91.33	357.42	8,644.2	4,713.0	545.6	4,733.7	0.65	-0.51	0.40	
13,446.0	89.65	357.48	8,643.4	4,807.9	541.4	4,828.3	1.77	-1.77	0.06	
13,541.0	89.95	357.34	8,643.7	4,902.8	537.1	4,922.9	0.35	0.32	-0.15	
13,636.0	91.32	357.85	8,642.7	4,997.7	533.1	5,017.5	1.54	1.44	0.54	
13,731.0	92.94	357.68	8,639.1	5,092.6	529.4	5,112.1	1.71	1.71	-0.18	
13,826.0	90.08	358.91	8,636.6	5,187.5	526.6	5,206.7	3.28	-3.01	1.29	
13,921.0	87.27	358.31	8,638.8	5,282.4	524.3	5,301.5	3.02	-2.96	-0.63	
14,015.0	87.62	357.97	8,643.0	5,376.3	521.3	5,395.1	0.52	0.37	-0.36	
14,110.0	87.60	357.67	8,647.0	5,471.2	517.6	5,489.6	0.32	-0.02	-0.32	
14,205.0	88.21	357.49	8,650.5	5,566.0	513.6	5,584.2	0.67	0.64	-0.19	
14,300.0	89.36	358.07	8,652.5	5,660.9	510.0	5,678.8	1.36	1.21	0.61	
14,395.0	89.61	358.02	8,653.3	5,755.9	506.7	5,773.5	0.27	0.26	-0.05	
14,490.0	90.45	357.85	8,653.3	5,850.8	503.3	5,868.1	0.90	0.88	-0.18	
14,585.0	90.98	357.81	8,652.1	5,945.7	499.7	5,962.8	0.56	0.56	-0.04	
14,679.0	90.78	359.30	8,650.7	6,039.7	497.3	6,056.5	1.60	-0.21	1.59	
14,774.0	90.93	359.87	8,649.2	6,134.7	496.6	6,151.4	0.62	0.16	0.60	
14,869.0	90.47	0.51	8,648.1	6,229.6	497.0	6,246.3	0.83	-0.48	0.67	
14,964.0	90.60	0.51	8,647.2	6,324.6	497.8	6,341.2	0.14	0.14	0.00	
15,059.0	90.84	359.92	8,646.0	6,419.6	498.2	6,436.1	0.67	0.25	-0.62	
15,154.0	91.13	0.47	8,644.4	6,514.6	498.5	6,531.0	0.65	0.31	0.58	
15,249.0	91.57	359.71	8,642.1	6,609.6	498.6	6,625.9	0.92	0.46	-0.80	
15,344.0	92.43	359.85	8,638.8	6,704.5	498.3	6,720.7	0.92	0.91	0.15	
15,439.0	90.69	1.24	8,636.2	6,799.5	499.2	6,815.6	2.34	-1.83	1.46	
15,533.0	89.90	1.69	8,635.7	6,893.5	501.6	6,909.5	0.97	-0.84	0.48	
15,628.0	89.03	359.98	8,636.6	6,988.4	503.0	7,004.5	2.02	-0.92	-1.80	
15,723.0	89.44	359.12	8,637.9	7,083.4	502.2	7,099.3	1.00	0.43	-0.91	
15,818.0	90.21	358.58	8,638.2	7,178.4	500.3	7,194.1	0.99	0.81	-0.57	
15,913.0	90.72	357.90	8,637.4	7,273.3	497.4	7,288.8	0.89	0.54	-0.72	
16,008.0	91.21	357.52	8,635.8	7,368.3	493.6	7,383.4	0.65	0.52	-0.40	
16,102.0	86.69	1.35	8,637.5	7,462.2	492.7	7,477.2	6.30	-4.81	4.07	
16,197.0	87.67	1.16	8,642.2	7,557.1	494.7	7,572.1	1.05	1.03	-0.20	
16,292.0	88.46	1.09	8,645.4	7,652.0	496.6	7,667.0	0.83	0.83	-0.07	
16,386.0	89.25	0.82	8,647.3	7,746.0	498.2	7,760.9	0.89	0.84	-0.29	
16,481.0	88.72	359.67	8,649.0	7,840.9	498.6	7,855.8	1.33	-0.56	-1.21	
16,577.0	89.61	359.24	8,650.4	7,936.9	497.7	7,951.6	1.03	0.93	-0.45	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well ADMIRAL FEDERAL COM 502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Site:	ADMIRAL FEDERAL PROJECT (ATLAS 2529)	MD Reference:	KB=25' @ 3007.9usft (Pioneer 84)
Well:	ADMIRAL FEDERAL COM 502H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,672.0	90.43	359.31	8,650.3	8,031.9	496.5	8,046.5	0.87	0.86	0.07
16,766.0	89.96	359.04	8,650.0	8,125.9	495.1	8,140.3	0.58	-0.50	-0.29
16,861.0	89.92	358.87	8,650.1	8,220.9	493.4	8,235.1	0.18	-0.04	-0.18
16,956.0	89.73	359.20	8,650.4	8,315.9	491.8	8,329.9	0.40	-0.20	0.35
17,051.0	91.06	0.15	8,649.8	8,410.9	491.2	8,424.7	1.72	1.40	1.00
17,145.0	91.04	0.13	8,648.0	8,504.8	491.5	8,518.6	0.03	-0.02	-0.02
17,240.0	88.93	0.61	8,648.1	8,599.8	492.1	8,613.5	2.28	-2.22	0.51
17,335.0	88.52	1.23	8,650.2	8,694.8	493.6	8,708.5	0.78	-0.43	0.65
17,430.0	88.28	1.02	8,652.8	8,789.7	495.5	8,803.4	0.34	-0.25	-0.22
17,525.0	88.29	0.51	8,655.7	8,884.7	496.7	8,898.3	0.54	0.01	-0.54
17,620.0	89.90	0.45	8,657.2	8,979.7	497.5	8,993.2	1.70	1.69	-0.06
17,714.0	90.07	0.25	8,657.2	9,073.7	498.1	9,087.1	0.28	0.18	-0.21
17,809.0	90.29	0.75	8,656.9	9,168.7	498.9	9,182.0	0.58	0.23	0.53
17,903.0	90.27	0.60	8,656.4	9,262.7	500.0	9,276.0	0.16	-0.02	-0.16
17,998.0	90.15	1.05	8,656.1	9,357.7	501.4	9,370.9	0.49	-0.13	0.47
18,093.0	90.45	0.60	8,655.6	9,452.6	502.8	9,465.9	0.57	0.32	-0.47
18,188.0	90.53	0.15	8,654.8	9,547.6	503.4	9,560.8	0.48	0.08	-0.47
18,282.0	90.38	359.97	8,654.0	9,641.6	503.5	9,654.7	0.25	-0.16	-0.19
18,377.0	90.24	0.01	8,653.5	9,736.6	503.5	9,749.6	0.15	-0.15	0.04
18,472.0	90.21	359.84	8,653.1	9,831.6	503.4	9,844.5	0.18	-0.03	-0.18
18,566.0	90.22	359.57	8,652.8	9,925.6	502.9	9,938.3	0.29	0.01	-0.29
18,661.0	90.28	359.69	8,652.4	10,020.6	502.3	10,033.2	0.14	0.06	0.13
18,756.0	90.47	359.46	8,651.8	10,115.6	501.6	10,128.0	0.31	0.20	-0.24
18,851.0	90.46	359.47	8,651.0	10,210.6	500.7	10,222.9	0.01	-0.01	0.01
18,925.0	90.78	359.10	8,650.2	10,284.6	499.7	10,296.7	0.66	0.43	-0.50
LAST MWD SVY @ 18925'MD									
18,938.5	90.78	359.10	8,650.0	10,298.1	499.5	10,310.2	0.00	0.00	0.00
LTP @ 18938.5'MD									
18,988.0	90.78	359.10	8,649.3	10,347.6	498.8	10,359.6	0.00	0.00	0.00
PTD @ 18988'MD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,342.3	8,291.7	-117.6	545.5	FTP @ 8342.3'MD
18,925.0	8,650.2	10,284.6	499.7	LAST MWD SVY @ 18925'MD
18,938.5	8,650.0	10,298.1	499.5	LTP @ 18938.5'MD
18,988.0	8,649.3	10,347.6	498.8	PTD @ 18988'MD

Checked By: _____ Approved By: _____ Date: _____

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
		1. WELL API NO.				30-025-46784				
		2. Type of Lease				☐ STATE ☐ FEE ☒ FED/INDIAN				
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Admiral Federal Com 6. Well Number: 502H				
7. Type of Completion:										
☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator						9. OGRID				
COG Operating LLC						229137				
10. Address of Operator						11. Pool name or Wildcat				
2208 W. Main Street						Bone Spring				
Artesia, NM 88210										
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	28	25S	29E		220'	South	910'	West	Eddy
BH:	C	21	25S	29E		50'	North	1489'	West	Eddy
13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released		16. Date Completed (Ready to Produce)		17. Elevations (DF and RKB, RT, GR, etc.)		2983' GR		
3/28/20	6/30/20	7/3/20		3/15/21						
18. Total Measured Depth of Well		19. Plug Back Measured Depth		20. Was Directional Survey Made?		21. Type Electric and Other Logs Run				
18,988'		18,853'		Yes						
22. Producing Interval(s), of this completion - Top, Bottom, Name										
8,750-18,828' Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		45.5#		650'		17 1/2"		625sx		
9 5/8"		29.7#		3000'		12 1/4"		880sx		
5 1/2"		23#		18973'		8 1/2"		2885 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
					2 7/8"	8002'	7992'			
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
8,750-18,828' (900)						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						8,750-18,828'		Acidz w/ gal 7 1/2%; Frac w/25,646,800# sand & 25,445,784 gal fluid		
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)				
3/22/21		Flowing				Producing				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
3/22/21	24	16/64"		393	1251	2210				
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
716#	672#		393	1251	2210					
29. Disposition of Gas (Sold, used for fuel, vented, etc.)						30. Test Witnessed By				
Sold						Jace Farmer				
31. List Attachments										
Surveys										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.						33. Rig Release Date:				
						7/3/20				
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Printed										
Signature <i>Amanda Avery</i>		Name: Amanda Avery		Title Regulatory Analyst		Date: 4/19/21				
E-mail Address: amanda.l.avery@conocophillips.com										

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) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 25015

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 25015
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 25015

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 25015
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	Provide completion sundry.	7/8/2021