

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

Form C-104
Revised August 1, 2011

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Production LLC 2208 W. Main Street Artesia, NM 88210		² OGRID Number 217995
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-025-44883	⁵ Pool Name WC-025 G-09 S253309P; UPR WOLFCAMP	⁶ Pool Code 98180
⁷ Property Code 314193	⁸ Property Name Eider Federal	⁹ Well Number 306H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	35	24S	32E		210	South	2260	East	Lea

¹¹ Bottom Hole Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
J	26	24S	32E		2589	South	1768	East	Lea
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 11/24/20	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	Lucid	G
278421	Holly Refining and Marketing PO Box 159 Artesia, NM 88210	O

IV. Well Completion Data

²¹ Spud Date 6/28/20	²² Ready Date 11/12/2020	²³ TD 20,049'	²⁴ PBDT 19,970'	²⁵ Perforations 12,543-19,878	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14 3/4"	10 3/4"	1028'	710		
8 3/4"	7 5/8"	11,371'	1650		
6 3/4"	5 1/2"	20,029'	1660		
	2 7/8"	11,092'			

V. Well Test Data

³¹ Date New Oil 11/24/20	³² Gas Delivery Date 11/24/20	³³ Test Date 11/24/20	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 3700#	³⁶ Csg. Pressure 3550#
³⁷ Choke Size 14/64	³⁸ Oil 30	³⁹ Water 1130	⁴⁰ Gas 234		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: PATRICIA MARTINEZ		
Printed name: Amanda Avery			Title: LM II		
Title: Regulatory Analyst			Approval Date: 3/17/2021		
E-mail Address:					
Date: 12/15/2020	Phone: 575-748-6962		File 3160-4 within 10 days to NMOCD after BLM approval.		

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 30-025-44883	Pool Code 98180	Pool Name Upper Wolfcamp
Property Code 314193	Property Name EIDER FEDERAL	Well Number 306H
OGRID No. 217955	Operator Name COG PRODUCTION, LLC	Elevation 3529.7'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	35	24-S	32-E		210	SOUTH	2260	EAST	LEA

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
J	26	24-S	32-E		2589	SOUTH	1768	EAST	LEA
Dedicated Acres 240	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

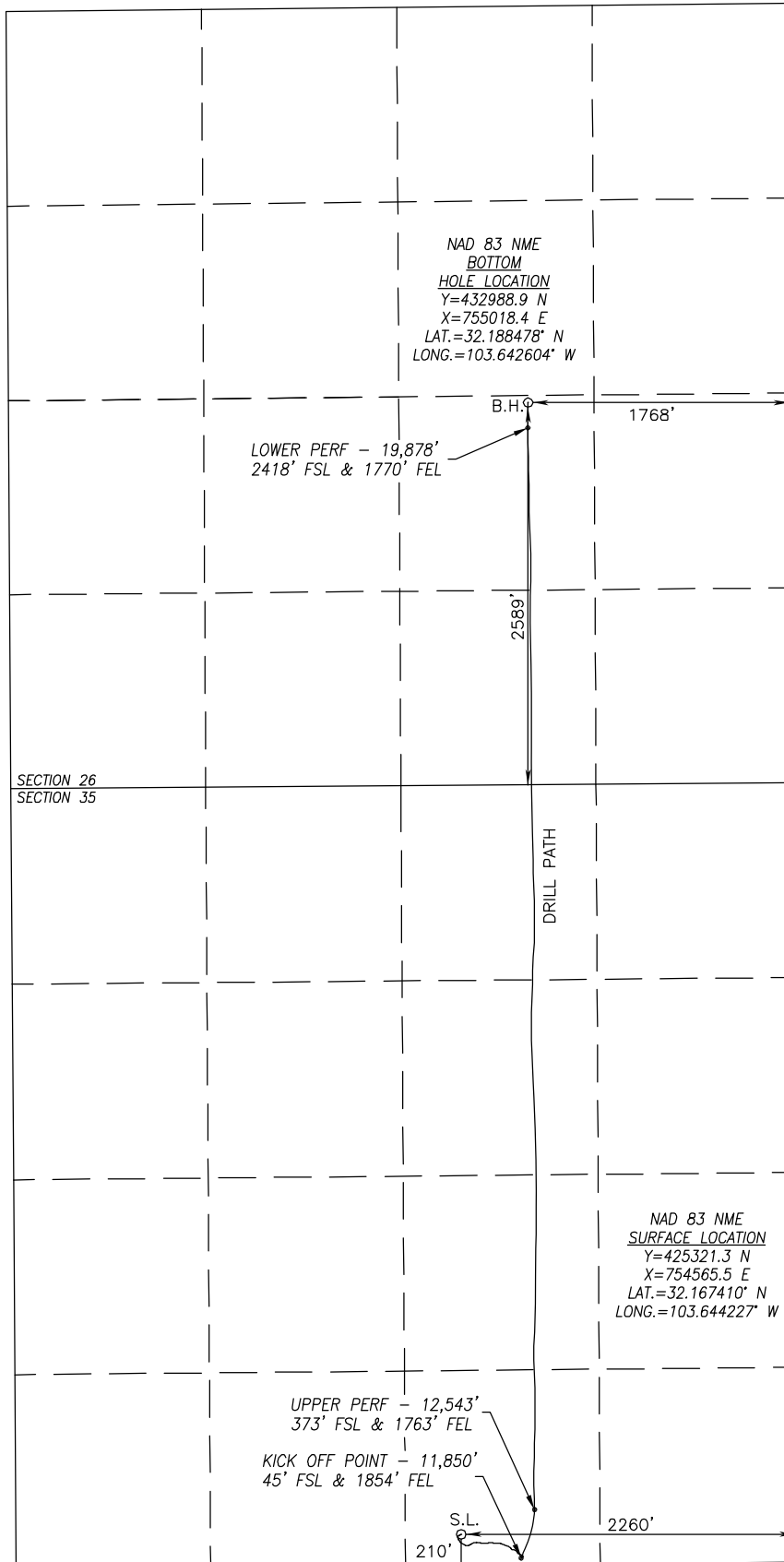
SEE PAGE 2

PAGE 1 OF 2

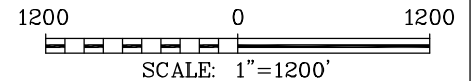
W.O. #20-1496

DRAWN BY: WN

Property Code 314193	Property Name EIDER FEDERAL	Well Number 306H
OGRID No. 229137	Operator Name COG PRODUCTION, LLC	Elevation 3529.7'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG PRODUCTION, LLC FOR THE EIDER FEDERAL #306H SUPPLIED TO HARCROW SURVEYING, LLC ON NOVEMBER 13, 2020



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.

12/15/20

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.

JUN. 22, 2017/AUG. 25, 2020

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 11/18/20
Certificate No. CHAD HARCROW 17777

PAGE 2 OF 2

W.O. #20-1496

DRAWN BY: WN

Intent ☐ As Drilled ☒

API #		
Operator Name: COG PRODUCTION, LLC	Property Name: EIDER FEDERAL	Well Number 306H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	35	24S	32E		45	SOUTH	1854	EAST	LEA
Latitude 32.166959					Longitude -103.642917				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	35	24S	32E		373	SOUTH	1763	EAST	LEA
Latitude 32.167861					Longitude -103.642620				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	26	24S	32E		2418	SOUTH	1770	EAST	LEA
Latitude 32.188008					Longitude -103.642611				NAD 83

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 EAST

BULLDOG PROSPECT (NM-E)

EIDER FEDERAL PROJECT (BULLDOG 2434)

EIDER FEDERAL 306H

OWB

Design: AWP

Standard Survey Report

25 August, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Project	BULLDOG 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	EIDER FEDERAL 306H, ACTIVE			
Well Position	+N/-S	0.0 usft	Northing:	425,263.00 usft
	+E/-W	0.0 usft	Easting:	713,380.40 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 10' 2.228 N
			Longitude:	103° 38' 37.500 W
			Ground Level:	3,529.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/3/2020	6.68	59.87	47,542.19322739

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	3.48	

Survey Program	Date	8/25/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,000.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
7,085.0	11,822.0	MWD-INTER (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	
11,862.0	20,049.0	MWD-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	
100.0	0.26	201.57	100.0	-0.2	-0.1	-0.2	0.26	0.26	0.00	
125.0	0.26	225.35	125.0	-0.3	-0.1	-0.3	0.43	0.00	95.12	
150.0	0.28	235.13	150.0	-0.4	-0.2	-0.4	0.20	0.08	39.12	
175.0	0.28	207.85	175.0	-0.5	-0.3	-0.5	0.53	0.00	-109.12	
200.0	0.31	188.05	200.0	-0.6	-0.4	-0.6	0.42	0.12	-79.20	
225.0	0.24	202.08	225.0	-0.7	-0.4	-0.7	0.39	-0.28	56.12	
250.0	0.22	220.74	250.0	-0.8	-0.4	-0.8	0.31	-0.08	74.64	
275.0	0.20	214.84	275.0	-0.9	-0.5	-0.9	0.12	-0.08	-23.60	
300.0	0.25	204.51	300.0	-0.9	-0.5	-1.0	0.26	0.20	-41.32	
325.0	0.28	237.07	325.0	-1.0	-0.6	-1.1	0.61	0.12	130.24	
350.0	0.23	190.14	350.0	-1.1	-0.7	-1.2	0.83	-0.20	-187.72	
375.0	0.25	211.44	375.0	-1.2	-0.7	-1.2	0.36	0.08	85.20	
400.0	0.38	237.95	400.0	-1.3	-0.8	-1.3	0.77	0.52	106.04	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)	
425.0	0.41	242.05	425.0	-1.4	-1.0	-1.4	0.16	0.12	16.40	
450.0	0.49	245.07	450.0	-1.5	-1.1	-1.5	0.33	0.32	12.08	
475.0	0.63	234.17	475.0	-1.6	-1.3	-1.7	0.70	0.56	-43.60	
500.0	0.61	261.56	500.0	-1.7	-1.6	-1.8	1.18	-0.08	109.56	
525.0	0.55	242.26	525.0	-1.8	-1.8	-1.9	0.81	-0.24	-77.20	
550.0	0.64	245.21	550.0	-1.9	-2.1	-2.0	0.38	0.36	11.80	
575.0	0.72	254.41	575.0	-2.0	-2.3	-2.1	0.54	0.32	36.80	
600.0	0.84	248.71	600.0	-2.1	-2.7	-2.3	0.57	0.48	-22.80	
625.0	0.93	248.12	625.0	-2.2	-3.0	-2.4	0.36	0.36	-2.36	
650.0	0.98	248.59	650.0	-2.4	-3.4	-2.6	0.20	0.20	1.88	
675.0	0.98	250.45	675.0	-2.5	-3.8	-2.8	0.13	0.00	7.44	
700.0	0.87	248.21	700.0	-2.7	-4.2	-2.9	0.46	-0.44	-8.96	
725.0	0.98	243.35	725.0	-2.8	-4.5	-3.1	0.54	0.44	-19.44	
750.0	1.05	234.46	750.0	-3.1	-4.9	-3.4	0.69	0.28	-35.56	
775.0	1.16	232.05	775.0	-3.4	-5.3	-3.7	0.48	0.44	-9.64	
800.0	1.17	229.19	800.0	-3.7	-5.7	-4.0	0.24	0.04	-11.44	
825.0	1.16	230.23	825.0	-4.0	-6.1	-4.4	0.09	-0.04	4.16	
850.0	1.24	231.36	849.9	-4.3	-6.5	-4.7	0.33	0.32	4.52	
875.0	1.22	230.90	874.9	-4.7	-6.9	-5.1	0.09	-0.08	-1.84	
900.0	1.13	227.83	899.9	-5.0	-7.3	-5.5	0.44	-0.36	-12.28	
925.0	1.23	231.47	924.9	-5.4	-7.7	-5.8	0.50	0.40	14.56	
950.0	1.12	231.64	949.9	-5.7	-8.1	-6.2	0.44	-0.44	0.68	
975.0	1.08	249.55	974.9	-5.9	-8.5	-6.4	1.38	-0.16	71.64	
1,000.0	1.06	255.10	999.9	-6.0	-9.0	-6.6	0.42	-0.08	22.20	
1,025.0	1.09	256.06	1,024.9	-6.2	-9.4	-6.7	0.14	0.12	3.84	
1,050.0	1.12	255.37	1,049.9	-6.3	-9.9	-6.9	0.13	0.12	-2.76	
1,075.0	1.04	249.68	1,074.9	-6.4	-10.3	-7.0	0.53	-0.32	-22.76	
1,100.0	0.91	243.18	1,099.9	-6.6	-10.7	-7.2	0.68	-0.52	-26.00	
1,125.0	0.96	250.34	1,124.9	-6.8	-11.1	-7.4	0.51	0.20	28.64	
1,150.0	1.00	249.69	1,149.9	-6.9	-11.5	-7.6	0.17	0.16	-2.60	
1,175.0	0.98	252.33	1,174.9	-7.0	-11.9	-7.7	0.20	-0.08	10.56	
1,200.0	0.94	251.85	1,199.9	-7.2	-12.3	-7.9	0.16	-0.16	-1.92	
1,225.0	0.98	247.98	1,224.9	-7.3	-12.7	-8.1	0.30	0.16	-15.48	
1,250.0	0.93	245.00	1,249.9	-7.5	-13.1	-8.3	0.28	-0.20	-11.92	
1,275.0	0.97	242.88	1,274.9	-7.7	-13.4	-8.5	0.21	0.16	-8.48	
1,300.0	0.93	243.65	1,299.9	-7.8	-13.8	-8.7	0.17	-0.16	3.08	
1,325.0	0.92	241.00	1,324.9	-8.0	-14.2	-8.9	0.18	-0.04	-10.60	
1,350.0	0.95	246.17	1,349.9	-8.2	-14.5	-9.1	0.36	0.12	20.68	
1,375.0	1.03	253.05	1,374.9	-8.4	-14.9	-9.3	0.57	0.32	27.52	
1,400.0	1.06	245.03	1,399.9	-8.5	-15.4	-9.4	0.60	0.12	-32.08	
1,425.0	1.07	248.00	1,424.9	-8.7	-15.8	-9.7	0.22	0.04	11.88	
1,450.0	1.05	248.49	1,449.8	-8.9	-16.2	-9.9	0.09	-0.08	1.96	
1,475.0	1.00	245.10	1,474.8	-9.1	-16.6	-10.1	0.31	-0.20	-13.56	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)	
1,500.0	1.08	250.38	1,499.8	-9.2	-17.1	-10.2	0.50	0.32	21.12	
1,525.0	1.11	244.88	1,524.8	-9.4	-17.5	-10.5	0.44	0.12	-22.00	
1,550.0	1.08	247.05	1,549.8	-9.6	-17.9	-10.7	0.20	-0.12	8.68	
1,575.0	1.13	249.57	1,574.8	-9.8	-18.4	-10.9	0.28	0.20	10.08	
1,600.0	1.15	249.56	1,599.8	-10.0	-18.8	-11.1	0.08	0.08	-0.04	
1,625.0	1.13	247.92	1,624.8	-10.1	-19.3	-11.3	0.15	-0.08	-6.56	
1,650.0	1.14	250.78	1,649.8	-10.3	-19.8	-11.5	0.23	0.04	11.44	
1,675.0	1.16	247.82	1,674.8	-10.5	-20.2	-11.7	0.25	0.08	-11.84	
1,700.0	1.03	244.85	1,699.8	-10.7	-20.7	-11.9	0.57	-0.52	-11.88	
1,725.0	1.06	242.48	1,724.8	-10.9	-21.1	-12.1	0.21	0.12	-9.48	
1,750.0	1.09	233.16	1,749.8	-11.1	-21.5	-12.4	0.71	0.12	-37.28	
1,775.0	1.14	215.75	1,774.8	-11.5	-21.8	-12.8	1.36	0.20	-69.64	
1,800.0	1.87	174.42	1,799.8	-12.1	-21.9	-13.4	5.05	2.92	-165.32	
1,825.0	2.05	170.22	1,824.8	-12.9	-21.8	-14.2	0.92	0.72	-16.80	
1,850.0	2.13	172.44	1,849.7	-13.8	-21.7	-15.1	0.46	0.32	8.88	
1,875.0	2.26	172.39	1,874.7	-14.8	-21.5	-16.1	0.52	0.52	-0.20	
1,900.0	2.26	170.50	1,899.7	-15.8	-21.4	-17.0	0.30	0.00	-7.56	
1,925.0	2.30	173.97	1,924.7	-16.7	-21.3	-18.0	0.57	0.16	13.88	
1,950.0	2.18	175.05	1,949.7	-17.7	-21.2	-19.0	0.51	-0.48	4.32	
1,975.0	2.26	177.27	1,974.7	-18.7	-21.1	-19.9	0.47	0.32	8.88	
2,000.0	2.31	178.05	1,999.6	-19.7	-21.1	-20.9	0.24	0.20	3.12	
2,025.0	2.28	175.91	2,024.6	-20.7	-21.0	-21.9	0.36	-0.12	-8.56	
2,050.0	2.24	177.00	2,049.6	-21.7	-20.9	-22.9	0.23	-0.16	4.36	
2,075.0	2.32	178.45	2,074.6	-22.7	-20.9	-23.9	0.39	0.32	5.80	
2,100.0	2.33	178.77	2,099.6	-23.7	-20.9	-24.9	0.07	0.04	1.28	
2,125.0	2.34	177.89	2,124.5	-24.7	-20.9	-25.9	0.15	0.04	-3.52	
2,150.0	2.31	178.42	2,149.5	-25.7	-20.8	-26.9	0.15	-0.12	2.12	
2,175.0	2.30	179.79	2,174.5	-26.7	-20.8	-27.9	0.22	-0.04	5.48	
2,200.0	2.37	178.14	2,199.5	-27.7	-20.8	-28.9	0.39	0.28	-6.60	
2,225.0	2.34	178.08	2,224.4	-28.7	-20.8	-30.0	0.12	-0.12	-0.24	
2,250.0	2.31	177.94	2,249.4	-29.8	-20.7	-31.0	0.12	-0.12	-0.56	
2,275.0	2.37	180.67	2,274.4	-30.8	-20.7	-32.0	0.51	0.24	10.92	
2,300.0	2.29	175.74	2,299.4	-31.8	-20.7	-33.0	0.86	-0.32	-19.72	
2,325.0	2.29	171.19	2,324.4	-32.8	-20.6	-34.0	0.73	0.00	-18.20	
2,350.0	2.54	158.31	2,349.3	-33.8	-20.3	-35.0	2.38	1.00	-51.52	
2,375.0	3.11	146.77	2,374.3	-34.9	-19.7	-36.0	3.21	2.28	-46.16	
2,400.0	3.44	142.12	2,399.3	-36.0	-18.9	-37.1	1.69	1.32	-18.60	
2,425.0	3.53	143.33	2,424.2	-37.2	-18.0	-38.3	0.46	0.36	4.84	
2,450.0	3.60	142.27	2,449.2	-38.5	-17.0	-39.4	0.38	0.28	-4.24	
2,475.0	3.61	143.01	2,474.1	-39.7	-16.1	-40.6	0.19	0.04	2.96	
2,500.0	3.57	144.88	2,499.1	-41.0	-15.1	-41.8	0.49	-0.16	7.48	
2,525.0	3.72	144.67	2,524.0	-42.3	-14.2	-43.1	0.60	0.60	-0.84	
2,550.0	3.65	144.76	2,549.0	-43.6	-13.3	-44.3	0.28	-0.28	0.36	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)	
2,575.0	3.69	144.44	2,573.9	-44.9	-12.4	-45.6	0.18	0.16	-1.28	
2,600.0	3.71	145.17	2,598.9	-46.2	-11.4	-46.8	0.20	0.08	2.92	
2,625.0	3.76	144.42	2,623.8	-47.6	-10.5	-48.1	0.28	0.20	-3.00	
2,650.0	3.73	144.61	2,648.8	-48.9	-9.5	-49.4	0.13	-0.12	0.76	
2,675.0	3.75	145.06	2,673.7	-50.2	-8.6	-50.7	0.14	0.08	1.80	
2,700.0	3.85	144.94	2,698.7	-51.6	-7.7	-52.0	0.40	0.40	-0.48	
2,725.0	3.75	144.38	2,723.6	-52.9	-6.7	-53.2	0.43	-0.40	-2.24	
2,750.0	3.72	144.93	2,748.6	-54.3	-5.8	-54.5	0.19	-0.12	2.20	
2,775.0	3.68	145.39	2,773.5	-55.6	-4.8	-55.8	0.20	-0.16	1.84	
2,800.0	3.68	142.85	2,798.4	-56.9	-3.9	-57.0	0.65	0.00	-10.16	
2,825.0	3.72	133.17	2,823.4	-58.1	-2.8	-58.1	2.50	0.16	-38.72	
2,850.0	3.88	121.88	2,848.3	-59.1	-1.5	-59.1	3.06	0.64	-45.16	
2,875.0	3.99	118.53	2,873.3	-59.9	0.0	-59.8	1.02	0.44	-13.40	
2,900.0	4.05	117.28	2,898.2	-60.8	1.5	-60.6	0.42	0.24	-5.00	
2,925.0	4.09	118.04	2,923.2	-61.6	3.1	-61.3	0.27	0.16	3.04	
2,950.0	4.04	117.62	2,948.1	-62.4	4.7	-62.0	0.23	-0.20	-1.68	
2,975.0	4.13	116.35	2,973.0	-63.2	6.2	-62.7	0.51	0.36	-5.08	
3,000.0	4.06	117.78	2,998.0	-64.0	7.8	-63.4	0.50	-0.28	5.72	
3,025.0	4.19	117.67	3,022.9	-64.9	9.4	-64.2	0.52	0.52	-0.44	
3,050.0	4.30	117.48	3,047.8	-65.7	11.1	-64.9	0.44	0.44	-0.76	
3,075.0	4.30	118.18	3,072.8	-66.6	12.7	-65.7	0.21	0.00	2.80	
3,100.0	4.42	117.90	3,097.7	-67.5	14.4	-66.5	0.49	0.48	-1.12	
3,125.0	4.46	118.32	3,122.6	-68.4	16.1	-67.3	0.21	0.16	1.68	
3,150.0	4.49	119.78	3,147.5	-69.4	17.8	-68.1	0.47	0.12	5.84	
3,175.0	4.66	119.48	3,172.5	-70.3	19.5	-69.0	0.69	0.68	-1.20	
3,200.0	4.70	119.53	3,197.4	-71.3	21.3	-69.9	0.16	0.16	0.20	
3,225.0	4.81	119.35	3,222.3	-72.4	23.1	-70.8	0.44	0.44	-0.72	
3,250.0	4.59	119.01	3,247.2	-73.4	24.9	-71.7	0.89	-0.88	-1.36	
3,275.0	4.53	119.55	3,272.1	-74.3	26.6	-72.6	0.30	-0.24	2.16	
3,300.0	4.13	115.02	3,297.1	-75.2	28.3	-73.3	2.10	-1.60	-18.12	
3,325.0	3.47	108.94	3,322.0	-75.8	29.9	-73.9	3.09	-2.64	-24.32	
3,350.0	3.36	107.13	3,347.0	-76.3	31.3	-74.3	0.62	-0.44	-7.24	
3,375.0	3.21	106.29	3,371.9	-76.7	32.6	-74.6	0.63	-0.60	-3.36	
3,400.0	3.15	106.47	3,396.9	-77.1	34.0	-74.9	0.24	-0.24	0.72	
3,425.0	3.25	105.65	3,421.8	-77.5	35.3	-75.2	0.44	0.40	-3.28	
3,450.0	3.27	106.76	3,446.8	-77.9	36.7	-75.5	0.26	0.08	4.44	
3,475.0	3.31	105.63	3,471.8	-78.3	38.1	-75.8	0.30	0.16	-4.52	
3,500.0	3.49	87.26	3,496.7	-78.4	39.5	-75.9	4.40	0.72	-73.48	
3,525.0	3.67	75.58	3,521.7	-78.2	41.0	-75.6	3.00	0.72	-46.72	
3,550.0	3.89	70.84	3,546.6	-77.7	42.6	-75.0	1.53	0.88	-18.96	
3,575.0	4.03	68.73	3,571.6	-77.1	44.2	-74.3	0.81	0.56	-8.44	
3,600.0	4.29	67.18	3,596.5	-76.4	45.9	-73.5	1.13	1.04	-6.20	
3,625.0	4.47	66.85	3,621.4	-75.7	47.7	-72.7	0.73	0.72	-1.32	
3,650.0	4.46	66.17	3,646.3	-74.9	49.5	-71.8	0.22	-0.04	-2.72	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)
3,675.0	4.56	66.46	3,671.3	-74.1	51.3	-70.9	0.41	0.40	1.16
3,700.0	4.54	66.62	3,696.2	-73.3	53.1	-70.0	0.09	-0.08	0.64
3,725.0	4.58	66.11	3,721.1	-72.5	54.9	-69.1	0.23	0.16	-2.04
3,750.0	4.57	65.54	3,746.0	-71.7	56.7	-68.2	0.19	-0.04	-2.28
3,775.0	4.58	65.61	3,770.9	-70.9	58.5	-67.2	0.05	0.04	0.28
3,800.0	4.51	62.61	3,795.9	-70.0	60.3	-66.2	0.99	-0.28	-12.00
3,825.0	4.43	63.13	3,820.8	-69.2	62.1	-65.3	0.36	-0.32	2.08
3,850.0	4.36	63.43	3,845.7	-68.3	63.8	-64.3	0.29	-0.28	1.20
3,875.0	4.21	62.67	3,870.6	-67.4	65.4	-63.3	0.64	-0.60	-3.04
3,900.0	4.20	62.71	3,895.6	-66.6	67.1	-62.4	0.04	-0.04	0.16
3,925.0	4.04	61.79	3,920.5	-65.8	68.7	-61.5	0.69	-0.64	-3.68
3,950.0	3.93	61.26	3,945.5	-64.9	70.2	-60.6	0.46	-0.44	-2.12
3,975.0	3.85	60.84	3,970.4	-64.1	71.7	-59.6	0.34	-0.32	-1.68
4,000.0	3.82	59.25	3,995.3	-63.3	73.1	-58.7	0.44	-0.12	-6.36
4,025.0	3.80	59.91	4,020.3	-62.4	74.5	-57.8	0.19	-0.08	2.64
4,050.0	3.77	59.50	4,045.2	-61.6	76.0	-56.9	0.16	-0.12	-1.64
4,075.0	3.77	59.30	4,070.2	-60.8	77.4	-56.0	0.05	0.00	-0.80
4,100.0	3.76	60.14	4,095.1	-59.9	78.8	-55.0	0.22	-0.04	3.36
4,125.0	3.79	61.75	4,120.1	-59.1	80.2	-54.2	0.44	0.12	6.44
4,150.0	3.77	64.24	4,145.0	-58.4	81.7	-53.3	0.66	-0.08	9.96
4,175.0	3.90	67.66	4,170.0	-57.7	83.2	-52.6	1.05	0.52	13.68
4,200.0	3.95	74.47	4,194.9	-57.2	84.9	-51.9	1.87	0.20	27.24
4,225.0	3.98	77.40	4,219.8	-56.7	86.5	-51.4	0.82	0.12	11.72
4,250.0	4.03	79.33	4,244.8	-56.4	88.2	-50.9	0.58	0.20	7.72
4,275.0	4.09	81.44	4,269.7	-56.1	90.0	-50.5	0.64	0.24	8.44
4,300.0	4.14	81.68	4,294.6	-55.8	91.8	-50.2	0.21	0.20	0.96
4,325.0	4.16	83.35	4,319.6	-55.6	93.6	-49.8	0.49	0.08	6.68
4,350.0	4.17	83.61	4,344.5	-55.4	95.4	-49.5	0.09	0.04	1.04
4,375.0	4.23	83.90	4,369.5	-55.2	97.2	-49.2	0.25	0.24	1.16
4,400.0	4.23	85.40	4,394.4	-55.0	99.0	-48.9	0.44	0.00	6.00
4,425.0	4.43	87.79	4,419.3	-54.9	100.9	-48.7	1.08	0.80	9.56
4,450.0	4.49	89.41	4,444.2	-54.9	102.8	-48.5	0.56	0.24	6.48
4,475.0	4.56	91.84	4,469.2	-54.9	104.8	-48.4	0.82	0.28	9.72
4,500.0	4.63	94.29	4,494.1	-55.0	106.8	-48.4	0.83	0.28	9.80
4,525.0	4.71	96.36	4,519.0	-55.2	108.8	-48.5	0.75	0.32	8.28
4,550.0	4.79	98.15	4,543.9	-55.4	110.9	-48.6	0.67	0.32	7.16
4,575.0	4.86	99.33	4,568.8	-55.8	113.0	-48.8	0.49	0.28	4.72
4,600.0	5.01	100.72	4,593.7	-56.1	115.1	-49.0	0.77	0.60	5.56
4,625.0	5.02	101.14	4,618.6	-56.6	117.2	-49.3	0.15	0.04	1.68
4,650.0	5.07	101.32	4,643.5	-57.0	119.4	-49.6	0.21	0.20	0.72
4,675.0	5.10	101.32	4,668.4	-57.4	121.6	-49.9	0.12	0.12	0.00
4,700.0	5.00	100.12	4,693.3	-57.8	123.7	-50.2	0.58	-0.40	-4.80
4,725.0	4.78	98.89	4,718.2	-58.2	125.8	-50.4	0.97	-0.88	-4.92

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)
4,750.0	4.65	97.43	4,743.2	-58.5	127.9	-50.6	0.71	-0.52	-5.84
4,775.0	4.53	97.09	4,768.1	-58.7	129.8	-50.7	0.49	-0.48	-1.36
4,800.0	4.45	96.10	4,793.0	-58.9	131.8	-50.8	0.45	-0.32	-3.96
4,825.0	4.23	97.74	4,817.9	-59.2	133.7	-50.9	1.01	-0.88	6.56
4,850.0	4.12	96.82	4,842.9	-59.4	135.5	-51.1	0.52	-0.44	-3.68
4,875.0	4.03	95.14	4,867.8	-59.6	137.2	-51.1	0.60	-0.36	-6.72
4,900.0	3.84	93.23	4,892.7	-59.7	138.9	-51.2	0.92	-0.76	-7.64
4,925.0	3.89	93.84	4,917.7	-59.8	140.6	-51.2	0.26	0.20	2.44
4,950.0	3.86	91.62	4,942.6	-59.9	142.3	-51.1	0.61	-0.12	-8.88
4,975.0	3.85	91.28	4,967.6	-59.9	144.0	-51.1	0.10	-0.04	-1.36
5,000.0	3.91	91.29	4,992.5	-60.0	145.7	-51.0	0.24	0.24	0.04
5,025.0	3.93	91.21	5,017.5	-60.0	147.4	-51.0	0.08	0.08	-0.32
5,050.0	3.90	90.81	5,042.4	-60.0	149.1	-50.9	0.16	-0.12	-1.60
5,075.0	3.88	90.88	5,067.3	-60.1	150.8	-50.8	0.08	-0.08	0.28
5,100.0	3.99	91.07	5,092.3	-60.1	152.5	-50.7	0.44	0.44	0.76
5,125.0	3.95	90.85	5,117.2	-60.1	154.2	-50.7	0.17	-0.16	-0.88
5,150.0	3.93	90.79	5,142.2	-60.2	156.0	-50.6	0.08	-0.08	-0.24
5,175.0	3.91	90.37	5,167.1	-60.2	157.7	-50.5	0.14	-0.08	-1.68
5,200.0	3.83	90.62	5,192.1	-60.2	159.4	-50.4	0.33	-0.32	1.00
5,225.0	3.73	90.47	5,217.0	-60.2	161.0	-50.3	0.40	-0.40	-0.60
5,250.0	3.74	90.72	5,241.9	-60.2	162.6	-50.2	0.08	0.04	1.00
5,275.0	3.81	90.35	5,266.9	-60.2	164.3	-50.1	0.30	0.28	-1.48
5,300.0	3.70	89.74	5,291.8	-60.2	165.9	-50.0	0.47	-0.44	-2.44
5,325.0	3.71	88.77	5,316.8	-60.2	167.5	-49.9	0.25	0.04	-3.88
5,350.0	3.61	86.53	5,341.7	-60.2	169.1	-49.8	0.70	-0.40	-8.96
5,375.0	3.65	86.46	5,366.7	-60.1	170.7	-49.6	0.16	0.16	-0.28
5,400.0	3.63	86.02	5,391.6	-60.0	172.3	-49.4	0.14	-0.08	-1.76
5,425.0	3.59	85.25	5,416.6	-59.8	173.9	-49.2	0.25	-0.16	-3.08
5,450.0	3.53	83.79	5,441.5	-59.7	175.4	-48.9	0.43	-0.24	-5.84
5,475.0	3.58	84.17	5,466.5	-59.5	176.9	-48.7	0.22	0.20	1.52
5,500.0	3.49	83.92	5,491.4	-59.4	178.5	-48.4	0.37	-0.36	-1.00
5,525.0	3.41	81.20	5,516.4	-59.2	180.0	-48.1	0.73	-0.32	-10.88
5,550.0	3.44	81.14	5,541.3	-58.9	181.4	-47.8	0.12	0.12	-0.24
5,575.0	3.47	80.53	5,566.3	-58.7	182.9	-47.5	0.19	0.12	-2.44
5,600.0	3.48	82.34	5,591.3	-58.5	184.4	-47.2	0.44	0.04	7.24
5,625.0	3.47	81.37	5,616.2	-58.3	185.9	-46.9	0.24	-0.04	-3.88
5,650.0	3.42	81.01	5,641.2	-58.0	187.4	-46.5	0.22	-0.20	-1.44
5,675.0	3.36	80.33	5,666.1	-57.8	188.9	-46.2	0.29	-0.24	-2.72
5,700.0	3.25	77.64	5,691.1	-57.5	190.3	-45.8	0.76	-0.44	-10.76
5,725.0	3.26	77.20	5,716.0	-57.2	191.7	-45.5	0.11	0.04	-1.76
5,750.0	3.31	76.84	5,741.0	-56.9	193.1	-45.0	0.22	0.20	-1.44
5,775.0	3.55	83.92	5,766.0	-56.6	194.5	-44.7	1.95	0.96	28.32
5,800.0	3.77	95.23	5,790.9	-56.6	196.1	-44.6	3.01	0.88	45.24

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)	
5,825.0	3.85	98.75	5,815.8	-56.8	197.8	-44.7	0.99	0.32	14.08	
5,850.0	3.83	99.44	5,840.8	-57.1	199.4	-44.9	0.20	-0.08	2.76	
5,875.0	3.87	99.08	5,865.7	-57.4	201.1	-45.0	0.19	0.16	-1.44	
5,900.0	3.88	98.97	5,890.7	-57.6	202.8	-45.2	0.05	0.04	-0.44	
5,925.0	3.63	97.18	5,915.6	-57.9	204.4	-45.3	1.10	-1.00	-7.16	
5,950.0	3.65	96.72	5,940.6	-58.1	206.0	-45.4	0.14	0.08	-1.84	
5,975.0	3.65	97.34	5,965.5	-58.2	207.5	-45.5	0.16	0.00	2.48	
6,000.0	3.55	95.65	5,990.5	-58.4	209.1	-45.6	0.58	-0.40	-6.76	
6,025.0	3.47	95.51	6,015.4	-58.6	210.6	-45.7	0.32	-0.32	-0.56	
6,050.0	3.47	95.19	6,040.4	-58.7	212.1	-45.7	0.08	0.00	-1.28	
6,075.0	3.39	95.32	6,065.3	-58.9	213.6	-45.8	0.32	-0.32	0.52	
6,100.0	3.36	93.62	6,090.3	-59.0	215.1	-45.8	0.42	-0.12	-6.80	
6,125.0	3.30	92.80	6,115.3	-59.1	216.5	-45.8	0.31	-0.24	-3.28	
6,150.0	3.34	93.71	6,140.2	-59.1	218.0	-45.8	0.26	0.16	3.64	
6,175.0	3.24	92.66	6,165.2	-59.2	219.4	-45.8	0.47	-0.40	-4.20	
6,200.0	3.37	94.39	6,190.1	-59.3	220.8	-45.8	0.66	0.52	6.92	
6,225.0	3.38	93.42	6,215.1	-59.4	222.3	-45.8	0.23	0.04	-3.88	
6,250.0	3.37	93.36	6,240.0	-59.5	223.8	-45.8	0.04	-0.04	-0.24	
6,275.0	3.37	91.78	6,265.0	-59.6	225.3	-45.8	0.37	0.00	-6.32	
6,300.0	3.29	91.86	6,290.0	-59.6	226.7	-45.7	0.32	-0.32	0.32	
6,325.0	3.30	88.85	6,314.9	-59.6	228.1	-45.6	0.69	0.04	-12.04	
6,350.0	3.31	87.42	6,339.9	-59.6	229.6	-45.5	0.33	0.04	-5.72	
6,375.0	3.29	89.13	6,364.8	-59.5	231.0	-45.4	0.40	-0.08	6.84	
6,400.0	3.43	90.86	6,389.8	-59.5	232.5	-45.3	0.69	0.56	6.92	
6,425.0	3.58	92.15	6,414.7	-59.6	234.0	-45.2	0.68	0.60	5.16	
6,450.0	3.78	94.40	6,439.7	-59.7	235.6	-45.2	0.99	0.80	9.00	
6,475.0	3.85	95.31	6,464.6	-59.8	237.3	-45.3	0.37	0.28	3.64	
6,500.0	4.02	94.81	6,489.6	-59.9	239.0	-45.3	0.69	0.68	-2.00	
6,525.0	3.95	93.57	6,514.5	-60.1	240.7	-45.3	0.44	-0.28	-4.96	
6,550.0	3.93	94.06	6,539.5	-60.2	242.4	-45.3	0.16	-0.08	1.96	
6,575.0	4.06	95.18	6,564.4	-60.3	244.2	-45.4	0.61	0.52	4.48	
6,600.0	4.03	95.35	6,589.3	-60.5	245.9	-45.4	0.13	-0.12	0.68	
6,625.0	4.10	95.04	6,614.3	-60.6	247.7	-45.5	0.29	0.28	-1.24	
6,650.0	4.03	95.80	6,639.2	-60.8	249.4	-45.5	0.35	-0.28	3.04	
6,675.0	3.81	94.53	6,664.1	-61.0	251.2	-45.6	0.95	-0.88	-5.08	
6,700.0	3.74	94.83	6,689.1	-61.1	252.8	-45.6	0.29	-0.28	1.20	
6,725.0	3.62	94.78	6,714.0	-61.2	254.4	-45.7	0.48	-0.48	-0.20	
6,750.0	3.44	93.37	6,739.0	-61.3	255.9	-45.7	0.80	-0.72	-5.64	
6,775.0	3.36	91.77	6,764.0	-61.4	257.4	-45.7	0.50	-0.32	-6.40	
6,800.0	3.30	90.85	6,788.9	-61.4	258.9	-45.6	0.32	-0.24	-3.68	
6,825.0	3.33	91.72	6,813.9	-61.5	260.3	-45.6	0.23	0.12	3.48	
6,850.0	3.33	92.20	6,838.8	-61.5	261.8	-45.5	0.11	0.00	1.92	
6,875.0	3.30	93.27	6,863.8	-61.6	263.2	-45.5	0.28	-0.12	4.28	
6,900.0	3.38	95.90	6,888.7	-61.7	264.6	-45.5	0.69	0.32	10.52	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)	
6,925.0	3.39	103.70	6,913.7	-62.0	266.1	-45.7	1.84	0.04	31.20	
6,950.0	3.60	107.70	6,938.7	-62.4	267.6	-46.0	1.29	0.84	16.00	
6,975.0	3.63	109.13	6,963.6	-62.9	269.1	-46.4	0.38	0.12	5.72	
7,000.0	3.65	109.79	6,988.5	-63.4	270.6	-46.9	0.19	0.08	2.64	
7,085.0	3.59	117.30	7,073.4	-65.5	275.5	-48.7	0.56	-0.07	8.84	
7,179.0	3.34	113.74	7,167.2	-68.0	280.6	-50.8	0.35	-0.27	-3.79	
7,273.0	3.15	115.49	7,261.1	-70.2	285.4	-52.7	0.23	-0.20	1.86	
7,367.0	3.27	114.74	7,354.9	-72.4	290.2	-54.7	0.14	0.13	-0.80	
7,461.0	2.98	111.68	7,448.8	-74.5	294.9	-56.4	0.36	-0.31	-3.26	
7,555.0	2.95	110.71	7,542.6	-76.2	299.4	-57.9	0.06	-0.03	-1.03	
7,649.0	2.76	102.75	7,636.5	-77.6	303.9	-59.0	0.47	-0.20	-8.47	
7,744.0	2.76	103.31	7,731.4	-78.6	308.4	-59.7	0.03	0.00	0.59	
7,838.0	2.50	107.35	7,825.3	-79.7	312.5	-60.6	0.34	-0.28	4.30	
7,932.0	2.15	107.13	7,919.2	-80.9	316.2	-61.5	0.37	-0.37	-0.23	
8,026.0	1.92	110.10	8,013.2	-81.9	319.3	-62.4	0.27	-0.24	3.16	
8,121.0	1.97	120.20	8,108.1	-83.3	322.2	-63.6	0.36	0.05	10.63	
8,215.0	1.86	126.45	8,202.1	-85.0	324.9	-65.1	0.25	-0.12	6.65	
8,309.0	1.86	133.75	8,296.0	-87.0	327.2	-66.9	0.25	0.00	7.77	
8,404.0	1.99	123.72	8,391.0	-89.0	329.7	-68.8	0.38	0.14	-10.56	
8,498.0	1.96	127.56	8,484.9	-90.9	332.3	-70.5	0.14	-0.03	4.09	
8,592.0	2.07	132.68	8,578.9	-93.0	334.8	-72.5	0.22	0.12	5.45	
8,687.0	1.76	147.42	8,673.8	-95.4	336.9	-74.7	0.61	-0.33	15.52	
8,780.0	1.72	149.56	8,766.8	-97.8	338.3	-77.0	0.08	-0.04	2.30	
8,874.0	1.53	163.62	8,860.7	-100.2	339.4	-79.4	0.47	-0.20	14.96	
8,969.0	1.31	130.56	8,955.7	-102.1	340.6	-81.2	0.88	-0.23	-34.80	
9,063.0	1.93	104.82	9,049.7	-103.2	342.9	-82.2	1.00	0.66	-27.38	
9,157.0	1.94	103.46	9,143.6	-104.0	346.0	-82.8	0.05	0.01	-1.45	
9,251.0	1.67	94.87	9,237.6	-104.5	348.9	-83.1	0.41	-0.29	-9.14	
9,345.0	0.99	75.28	9,331.5	-104.4	351.1	-82.9	0.86	-0.72	-20.84	
9,439.0	2.71	94.73	9,425.5	-104.4	354.1	-82.7	1.92	1.83	20.69	
9,533.0	3.50	104.57	9,519.3	-105.3	359.1	-83.3	1.01	0.84	10.47	
9,626.0	3.30	118.76	9,612.2	-107.3	364.2	-85.0	0.93	-0.22	15.26	
9,720.0	2.75	122.96	9,706.1	-109.8	368.4	-87.2	0.63	-0.59	4.47	
9,815.0	2.61	132.13	9,800.9	-112.5	371.9	-89.7	0.47	-0.15	9.65	
9,909.0	2.93	138.98	9,894.8	-115.8	375.1	-92.8	0.49	0.34	7.29	
10,003.0	2.79	144.42	9,988.7	-119.4	378.0	-96.2	0.32	-0.15	5.79	
10,097.0	2.32	148.57	10,082.6	-122.9	380.3	-99.6	0.54	-0.50	4.41	
10,191.0	2.02	151.08	10,176.6	-126.0	382.1	-102.5	0.33	-0.32	2.67	
10,285.0	1.33	155.44	10,270.5	-128.4	383.4	-104.9	0.75	-0.73	4.64	
10,379.0	1.47	150.48	10,364.5	-130.5	384.4	-106.9	0.20	0.15	-5.28	
10,473.0	1.22	118.63	10,458.5	-132.0	385.9	-108.3	0.83	-0.27	-33.88	
10,567.0	2.83	94.29	10,552.4	-132.6	389.1	-108.8	1.90	1.71	-25.89	
10,661.0	2.98	102.97	10,646.3	-133.4	393.8	-109.2	0.49	0.16	9.23	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)
10,756.0	2.77	116.04	10,741.2	-134.9	398.3	-110.5	0.72	-0.22	13.76
10,850.0	3.29	119.00	10,835.0	-137.2	402.7	-112.5	0.58	0.55	3.15
10,944.0	2.98	121.89	10,928.9	-139.8	407.1	-114.8	0.37	-0.33	3.07
11,038.0	2.66	127.34	11,022.8	-142.5	410.9	-117.2	0.44	-0.34	5.80
11,132.0	2.60	128.30	11,116.7	-145.1	414.3	-119.7	0.08	-0.06	1.02
11,226.0	2.06	137.03	11,210.6	-147.7	417.1	-122.0	0.69	-0.57	9.29
11,320.0	1.61	173.24	11,304.6	-150.2	418.5	-124.5	1.30	-0.48	38.52
11,389.0	1.41	191.60	11,373.5	-152.0	418.4	-126.3	0.75	-0.29	26.61
11,484.0	1.41	237.57	11,468.5	-153.8	417.2	-128.1	1.16	0.00	48.39
11,578.0	1.89	245.83	11,562.5	-155.0	414.8	-129.5	0.57	0.51	8.79
11,672.0	2.37	233.26	11,656.4	-156.8	411.8	-131.5	0.71	0.51	-13.37
11,767.0	2.29	227.81	11,751.3	-159.3	408.8	-134.1	0.25	-0.08	-5.74
11,822.0	2.29	227.81	11,806.3	-160.7	407.2	-135.7	0.00	0.00	0.00
11,862.0	1.88	229.94	11,846.3	-161.7	406.1	-136.7	1.04	-1.03	5.33
11,956.0	5.46	28.47	11,940.1	-158.8	407.1	-133.7	7.70	3.81	168.65
12,003.0	11.70	23.62	11,986.6	-152.4	410.0	-127.2	13.35	13.28	-10.32
12,050.0	17.72	21.19	12,032.0	-141.4	414.5	-115.9	12.87	12.81	-5.17
12,097.0	24.63	21.72	12,075.8	-125.6	420.8	-99.8	14.71	14.70	1.13
12,143.7	28.94	20.82	12,117.5	-106.0	428.4	-79.8	9.27	9.23	-1.92
FTP @ 12143.7'MD									
12,144.0	28.97	20.82	12,117.8	-105.8	428.4	-79.6	9.27	9.24	-1.65
12,191.0	33.28	22.94	12,158.0	-83.3	437.5	-56.6	9.46	9.17	4.51
12,238.0	35.44	20.81	12,196.8	-58.7	447.4	-31.4	5.26	4.60	-4.53
12,286.0	40.54	18.64	12,234.6	-30.9	457.3	-3.1	10.98	10.63	-4.52
12,333.0	43.09	16.63	12,269.6	-1.0	466.8	27.3	6.13	5.43	-4.28
12,392.0	48.86	13.83	12,310.6	39.9	477.9	68.8	10.36	9.78	-4.75
12,418.0	50.97	12.30	12,327.4	59.3	482.4	88.5	9.28	8.12	-5.88
12,449.0	56.59	11.02	12,345.7	83.8	487.4	113.2	18.43	18.13	-4.13
12,512.0	66.31	4.82	12,375.8	138.5	494.9	168.3	17.68	15.43	-9.84
12,543.0	73.28	0.79	12,386.5	167.5	496.3	197.4	25.58	22.48	-13.00
12,615.0	86.67	357.94	12,399.0	238.2	495.5	267.9	19.00	18.60	-3.96
12,709.0	87.91	359.26	12,403.4	332.1	493.2	361.4	1.93	1.32	1.40
12,804.0	87.85	0.20	12,407.0	427.0	492.7	456.2	0.99	-0.06	0.99
12,898.0	91.99	1.31	12,407.1	521.0	494.0	550.0	4.56	4.40	1.18
12,992.0	92.19	1.96	12,403.7	614.9	496.6	643.9	0.72	0.21	0.69
13,087.0	92.20	1.23	12,400.0	709.8	499.3	738.8	0.77	0.01	-0.77
13,181.0	90.87	0.66	12,397.5	803.7	500.8	832.7	1.54	-1.41	-0.61
13,276.0	89.32	358.71	12,397.3	898.7	500.3	927.5	2.62	-1.63	-2.05
13,370.0	88.79	358.05	12,398.9	992.7	497.7	1,021.1	0.90	-0.56	-0.70
13,464.0	89.14	358.24	12,400.6	1,086.6	494.6	1,114.7	0.42	0.37	0.20
13,558.0	88.84	358.76	12,402.3	1,180.6	492.2	1,208.3	0.64	-0.32	0.55
13,653.0	89.41	0.86	12,403.7	1,275.6	491.8	1,303.1	2.29	0.60	2.21
13,747.0	93.69	2.91	12,401.2	1,369.4	494.9	1,397.0	5.05	4.55	2.18
13,841.0	93.54	2.45	12,395.2	1,463.2	499.3	1,490.8	0.51	-0.16	-0.49

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)
13,936.0	92.76	0.49	12,390.0	1,558.0	501.7	1,585.6	2.22	-0.82	-2.06
14,030.0	91.44	359.35	12,386.6	1,651.9	501.6	1,679.3	1.85	-1.40	-1.21
14,124.0	90.33	0.59	12,385.1	1,745.9	501.6	1,773.1	1.77	-1.18	1.32
14,219.0	89.27	0.73	12,385.4	1,840.9	502.7	1,868.0	1.13	-1.12	0.15
14,313.0	89.58	1.14	12,386.4	1,934.9	504.2	1,961.9	0.55	0.33	0.44
14,408.0	89.42	0.51	12,387.2	2,029.9	505.6	2,056.8	0.68	-0.17	-0.66
14,502.0	89.22	359.97	12,388.3	2,123.8	506.0	2,150.7	0.61	-0.21	-0.57
14,597.0	91.12	1.00	12,388.1	2,218.8	506.8	2,245.5	2.27	2.00	1.08
14,691.0	91.79	0.71	12,385.7	2,312.8	508.2	2,339.4	0.78	0.71	-0.31
14,785.0	90.65	0.02	12,383.7	2,406.8	508.8	2,433.2	1.42	-1.21	-0.73
14,879.0	88.82	358.71	12,384.1	2,500.8	507.7	2,527.0	2.39	-1.95	-1.39
14,973.0	90.27	357.92	12,384.8	2,594.7	505.0	2,620.6	1.76	1.54	-0.84
15,067.0	89.42	357.79	12,385.1	2,688.6	501.4	2,714.1	0.91	-0.90	-0.14
15,161.0	89.13	357.67	12,386.3	2,782.6	497.7	2,807.7	0.33	-0.31	-0.13
15,256.0	88.83	357.15	12,388.0	2,877.4	493.4	2,902.1	0.63	-0.32	-0.55
15,350.0	90.51	357.89	12,388.5	2,971.4	489.4	2,995.6	1.95	1.79	0.79
15,444.0	90.87	358.03	12,387.4	3,065.3	486.0	3,089.2	0.41	0.38	0.15
15,539.0	90.60	357.79	12,386.2	3,160.2	482.5	3,183.7	0.38	-0.28	-0.25
15,633.0	90.86	357.83	12,385.0	3,254.1	479.0	3,277.2	0.28	0.28	0.04
15,728.0	92.78	358.79	12,382.0	3,349.0	476.2	3,371.8	2.26	2.02	1.01
15,822.0	92.91	0.23	12,377.3	3,442.9	475.3	3,465.4	1.54	0.14	1.53
15,917.0	91.55	1.43	12,373.6	3,537.8	476.7	3,560.3	1.91	-1.43	1.26
16,011.0	90.67	1.37	12,371.8	3,631.8	479.0	3,654.2	0.94	-0.94	-0.06
16,105.0	89.07	1.90	12,372.0	3,725.8	481.7	3,748.1	1.79	-1.70	0.56
16,199.0	88.13	2.02	12,374.3	3,819.7	484.9	3,842.1	1.01	-1.00	0.13
16,293.0	89.73	3.02	12,376.0	3,913.6	489.0	3,936.0	2.01	1.70	1.06
16,387.0	89.31	3.13	12,376.8	4,007.4	494.1	4,030.0	0.46	-0.45	0.12
16,481.0	88.63	0.18	12,378.5	4,101.4	496.8	4,124.0	3.22	-0.72	-3.14
16,576.0	88.68	0.19	12,380.7	4,196.3	497.1	4,218.8	0.05	0.05	0.01
16,670.0	90.42	357.81	12,381.5	4,290.3	495.5	4,312.5	3.14	1.85	-2.53
16,764.0	90.78	357.99	12,380.5	4,384.2	492.0	4,406.0	0.43	0.38	0.19
16,858.0	89.77	358.36	12,380.0	4,478.2	489.0	4,499.6	1.14	-1.07	0.39
16,953.0	90.39	358.76	12,379.9	4,573.1	486.6	4,594.3	0.78	0.65	0.42
17,047.0	90.25	359.24	12,379.4	4,667.1	485.0	4,688.0	0.53	-0.15	0.51
17,140.0	89.43	358.24	12,379.7	4,760.1	483.0	4,780.7	1.39	-0.88	-1.08
17,234.0	87.48	357.95	12,382.2	4,854.0	479.8	4,874.2	2.10	-2.07	-0.31
17,328.0	89.29	359.07	12,384.8	4,947.9	477.4	4,967.8	2.26	1.93	1.19
17,423.0	90.18	358.85	12,385.3	5,042.9	475.7	5,062.5	0.97	0.94	-0.23
17,517.0	90.53	359.88	12,384.7	5,136.9	474.6	5,156.3	1.16	0.37	1.10
17,611.0	90.61	359.86	12,383.8	5,230.9	474.4	5,250.1	0.09	0.09	-0.02
17,706.0	90.91	0.25	12,382.5	5,325.9	474.5	5,344.9	0.52	0.32	0.41
17,800.0	90.73	359.41	12,381.2	5,419.9	474.2	5,438.7	0.91	-0.19	-0.89
17,894.0	92.85	0.23	12,378.2	5,513.8	473.9	5,532.4	2.42	2.26	0.87

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	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)
17,988.0	93.07	1.15	12,373.4	5,607.7	475.1	5,626.2	1.01	0.23	0.98
18,082.0	92.99	0.16	12,368.4	5,701.6	476.1	5,720.0	1.06	-0.09	-1.05
18,176.0	89.57	358.42	12,366.3	5,795.5	475.0	5,813.7	4.08	-3.64	-1.85
18,271.0	89.99	358.90	12,366.7	5,890.5	472.7	5,908.3	0.67	0.44	0.51
18,366.0	89.13	358.87	12,367.4	5,985.5	470.9	6,003.0	0.91	-0.91	-0.03
18,460.0	89.63	358.68	12,368.4	6,079.4	468.9	6,096.7	0.57	0.53	-0.20
18,554.0	90.40	359.69	12,368.4	6,173.4	467.6	6,190.4	1.35	0.82	1.07
18,648.0	92.07	0.18	12,366.4	6,267.4	467.4	6,284.2	1.85	1.78	0.52
18,742.0	93.81	0.85	12,361.5	6,361.3	468.3	6,378.0	1.98	1.85	0.71
18,836.0	94.05	0.84	12,355.1	6,455.0	469.7	6,471.7	0.26	0.26	-0.01
18,931.0	92.53	359.99	12,349.6	6,549.9	470.4	6,566.4	1.83	-1.60	-0.89
19,025.0	91.44	359.05	12,346.4	6,643.8	469.6	6,660.1	1.53	-1.16	-1.00
19,119.0	89.69	358.44	12,345.5	6,737.8	467.5	6,753.7	1.97	-1.86	-0.65
19,213.0	89.55	357.78	12,346.1	6,831.7	464.4	6,847.3	0.72	-0.15	-0.70
19,307.0	89.95	358.58	12,346.5	6,925.7	461.4	6,940.9	0.95	0.43	0.85
19,401.0	90.40	359.30	12,346.2	7,019.7	459.7	7,034.6	0.90	0.48	0.77
19,495.0	90.10	359.12	12,345.8	7,113.7	458.4	7,128.4	0.37	-0.32	-0.19
19,590.0	88.94	359.02	12,346.6	7,208.6	456.9	7,223.1	1.23	-1.22	-0.11
19,684.0	87.19	357.46	12,349.8	7,302.5	454.0	7,316.6	2.49	-1.86	-1.66
19,778.0	89.06	359.49	12,352.8	7,396.4	451.5	7,410.2	2.94	1.99	2.16
19,872.0	89.70	1.19	12,353.9	7,490.4	452.0	7,504.1	1.93	0.68	1.81
19,966.0	89.71	0.14	12,354.3	7,584.4	453.1	7,597.9	1.12	0.01	-1.12
19,984.0	89.72	0.05	12,354.4	7,602.4	453.1	7,615.9	0.50	0.06	-0.50
LAST MWD @ 19984'MD									
19,999.6	89.72	0.05	12,354.5	7,618.0	453.2	7,631.5	0.00	0.00	0.00
LTP @ 19999.6'MD									
20,049.0	89.72	0.05	12,354.7	7,667.4	453.2	7,680.8	0.00	0.00	0.00
PTD @ 20049'MD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (EIDER FEDEF - hit/miss target - Shape)	0.67	179.71	12,355.0	7,668.2	466.7	432,931.20	713,847.10	32° 11' 18.081 N	103° 38' 31.498 W
- actual wellpath misses target center by 13.5usft at 20049.0usft MD (12354.7 TVD, 7667.4 N, 453.2 E)									
- Rectangle (sides W100.0 H2,242.0 D20.0)									
LTP (EIDER FEDERA - actual wellpath misses target center by 13.7usft at 19999.6usft MD (12354.5 TVD, 7618.0 N, 453.2 E) - Point)	0.00	0.00	12,355.0	7,618.2	466.9	432,881.20	713,847.30	32° 11' 17.586 N	103° 38' 31.499 W
FTP (EIDER FEDERA - actual wellpath misses target center by 170.7usft at 12360.6usft MD (12289.3 TVD, 17.5 N, 472.1 E) - Circle (radius 50.0)	0.00	0.01	12,403.0	-105.4	505.5	425,157.60	713,885.90	32° 10' 1.153 N	103° 38' 31.627 W

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 306H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.7usft (SCAN QUEST)
Well:	EIDER FEDERAL 306H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,143.7	12,117.5	-106.0	428.4	FTP @ 12143.7'MD
19,984.0	12,354.4	7,602.4	453.1	LAST MWD @ 19984'MD
19,999.6	12,354.5	7,618.0	453.2	LTP @ 19999.6'MD
20,049.0	12,354.7	7,667.4	453.2	PTD @ 20049'MD

Checked By: _____ Approved By: _____ Date: _____

Well Name	Well Number	Top MD	Form Alias
EIDER FEDERAL	306H	967	RSLR
EIDER FEDERAL	306H	1302	TOS
EIDER FEDERAL	306H	4636	BOS
EIDER FEDERAL	306H	4867	LMAR
EIDER FEDERAL	306H	5819	CYCN
EIDER FEDERAL	306H	7203	BYCN
EIDER FEDERAL	306H	8848	BSGL
EIDER FEDERAL	306H	9931	FBSG
EIDER FEDERAL	306H	10479	SBSG
EIDER FEDERAL	306H	11798	TBSG
EIDER FEDERAL	306H	12276	WFMP

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM120907

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
EIDER FEDERAL 306H2. Name of Operator
COG PRODUCTION LLCContact: AMANDA AVERY
E-Mail: aavery@concho.com9. API Well No.
30-025-44883-00-X13a. Address
2208 W MAIN STREET
ARTESIA, NM 882103b. Phone No. (include area code)
Ph: 575-748-694010. Field and Pool or Exploratory Area
WC025G09S253309P-UP WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 35 T24S R32E SWSE 210FSL 2260FEL
32.167412 N Lat, 103.644226 W Lon

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Hydraulic Fracture
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Request for OCD extension of time to file BLM approved Form 3160-4 9/25/20
Test annulus to 1500# Set CBP @ 19,975' and test csg to 11,200#. Good test.

10/16/20 to 11/11/20 Perf 12,543-19,878' (2220). Acdz w/ 37,800 gal 7 1/2%; frac w/18,497,563# sand & 16,325,904 gal fluid.

11/5/20 to 11/6/20 Drilled out CFP's. Clean down to PBTD @ 19,970'.

11/9/20 to 11/11/20 Set 2 7/8" 6.5# L-80 tbg @ 11,092' packer @ 11,082'. Installed gas lift system.

11/24/20 Began flowing back & testing and date of first production

KZ

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #539992 verified by the BLM Well Information System**For COG PRODUCTION LLC, sent to the Hobbs****Committed to AFMSS for processing by PRISCILLA PEREZ on 12/09/2020 (21PP0799SE)**

Name (Printed/Typed) AMANDA AVERY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/08/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By **ACCEPTED**JONATHON SHEPARD
Title PETROELUM ENGINEER

Date 12/10/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #539992 that would not fit on the form

32. Additional remarks, continued

Revisions to Operator-Submitted EC Data for Sundry Notice #539992

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	HF SR	HF SR
Lease:	NMNM120907	NMNM120907
Agreement:		
Operator:	COG OPERATING LLC 2208 W MAIN STREET ARTESIA, NM 88210 Ph: 575-748-6940	COG PRODUCTION LLC 2208 W MAIN STREET ARTESIA, NM 88210 Ph: 575.748.6940
Admin Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940
Tech Contact:	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940	AMANDA AVERY REGULATORY ANALYST E-Mail: aavery@concho.com Ph: 575-748-6940
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	UPPER WOLFCAMP	WC025G09S253309P-UP WOLFCAMP
Well/Facility:	EIDER FEDERAL 306H Sec 35 T24S R32E Mer NMP 210FSL 2260FEL	EIDER FEDERAL 306H Sec 35 T24S R32E SWSE 210FSL 2260FEL 32.167412 N Lat, 103.644226 W Lon

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

CONDITIONS

Action 12229

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	12229	Action Type:	C-104C
OCD Reviewer	Condition								
plmartinez	None								