

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 O GRID Number 229137	
		³ Reason for Filing Code/ Effective Date NW	
API Number 30-025-44882	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 305H

II. ¹⁰ Surface Location

Ul or lot no. O	Section 35	Township 24S	Range 32E	Lot Idn	Feet from the 210	North/South Line South	Feet from the 2290	East/West line East	County Lea
--------------------	---------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

¹¹ Bottom Hole Location NSL-8031

Ul or lot no. J	Section 26	Township 24S	Range 32E	Lot Idn	Feet from the 2590	North/South Line South	Feet from the 2612	East/West line East	County Lea
¹² Lse Code F	¹³ Producing Method Code F		¹⁴ Gas Connection Date 11/25/20		¹⁵ C -129 Permit Number		¹⁶ C -129 Effective Date		¹⁷ C -129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter O GRID	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 6/29/20	²² Ready Date 11/11/20	²³ TD 19,962'	²⁴ PBTD 19,878'	²⁵ Perforations 12,519-19,853	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"	11,785'		1339
6 3/4"		5 1/2"	19,945'		1850
		2 7/8"	11,455'		

V. Well Test Data

³¹ Date New Oil 11/25/20	³² Gas Delivery Date 11/25/20	³³ Test Date 11/25/20	³⁴ Test Length 24 Hrs	³⁵ Tbg. Pressure 4400#	³⁶ Csg. Pressure 3400#
³⁷ Choke Size 14/64	³⁸ Oil 128	³⁹ Water 1039	⁴⁰ Gas 581		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		
Printed name: Amanda Avery			Approved by:		
Title: Regulatory Analyst			Title:		
E-mail Address:			Approval Date:		
Date: 12/15/2020		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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-44882	Pool Code 98180	Pool Name WC-025 G-09 S253309P; UPR WOLFCAMP KZ
Property Code 314193	Property Name EIDER FEDERAL	Well Number 305H
OGRID No. 229137	Operator Name COG PRODUCTION, LLC	Elevation 3529.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	35	24-S	32-E		210	SOUTH	2290	EAST	LEA

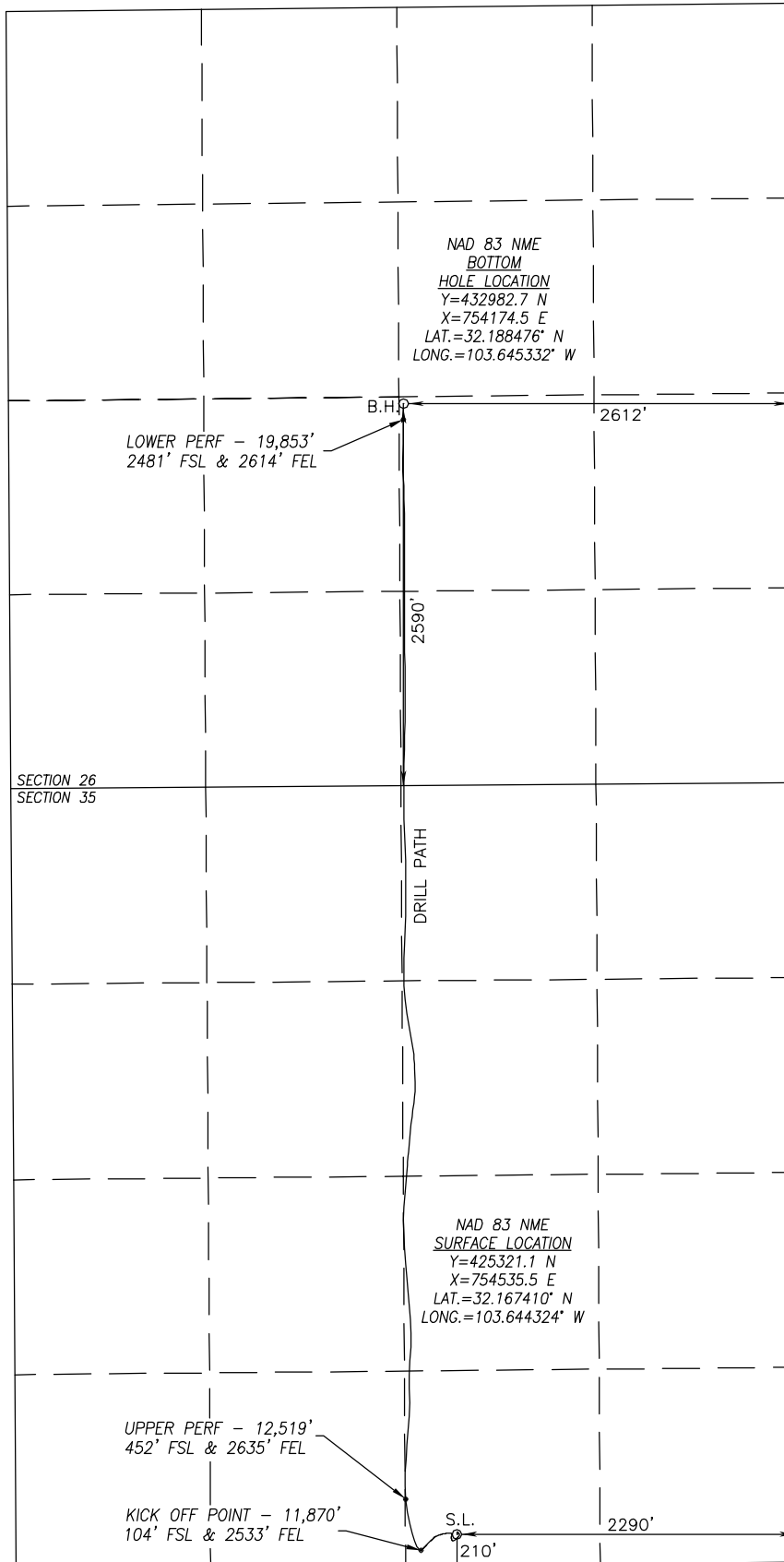
Bottom Hole Location If Different From Surface

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		2590	SOUTH	2612	EAST	LEA
Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No. NSL-8031						

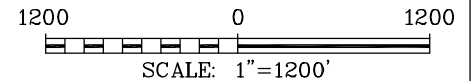
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 314193	Property Name EIDER FEDERAL	Well Number 305H
OGRID No. 229137	Operator Name COG PRODUCTION, LLC	Elevation 3529.9'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG PRODUCTION, LLC FOR THE EIDER FEDERAL #305H 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.

12/14/20

Signature

Date

Amanda Avery

Printed Name

aavery@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/SEPT. 14, 2020

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 11/17/20
Certificate No. CHAD HARCROW 17777

PAGE 2 OF 2

W.O. #20-1495

DRAWN BY: WN

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)
EIDER FEDERAL PROJECT (BULLDOG 2434)
EIDER FEDERAL 305H

ST01

Design: ST01

Standard Survey Report

14 September, 2020

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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 305H, ACTIVE			
Well Position	+N/-S	0.0 usft	Northing:	425,262.80 usft
	+E/-W	0.0 usft	Easting:	713,350.40 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 10' 2.228 N
			Longitude:	103° 38' 37.849 W
			Ground Level:	3,529.9 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	9/7/2020	6.66	59.86	47,532.19833856

Design	ST01				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	14,696.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	357.30	

Survey Program	Date	9/14/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,638.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
11,815.0	14,696.0	MWD-CURVE/LAT (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	
14,789.0	19,962.0	ST01 (ST01)	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	0.59	32.96	100.0	0.4	0.3	0.4	0.59	0.59	0.00	
125.0	0.82	17.77	125.0	0.7	0.4	0.7	1.18	0.92	-60.76	
150.0	0.88	15.14	150.0	1.1	0.5	1.0	0.29	0.24	-10.52	
175.0	0.90	4.72	175.0	1.4	0.6	1.4	0.65	0.08	-41.68	
200.0	0.84	13.18	200.0	1.8	0.6	1.8	0.57	-0.24	33.84	
225.0	0.83	18.16	225.0	2.2	0.7	2.1	0.29	-0.04	19.92	
250.0	0.85	12.00	250.0	2.5	0.8	2.5	0.37	0.08	-24.64	
275.0	0.85	13.93	275.0	2.9	0.9	2.8	0.11	0.00	7.72	
300.0	0.80	20.60	300.0	3.2	1.0	3.2	0.43	-0.20	26.68	
325.0	0.84	8.81	325.0	3.6	1.1	3.5	0.69	0.16	-47.16	
350.0	0.84	15.11	350.0	3.9	1.2	3.9	0.37	0.00	25.20	
375.0	0.87	15.33	375.0	4.3	1.3	4.2	0.12	0.12	0.88	
400.0	0.83	5.05	400.0	4.7	1.3	4.6	0.63	-0.16	-41.12	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	0.68	10.00	425.0	5.0	1.4	4.9	0.65	-0.60	19.80	
450.0	0.79	348.99	450.0	5.3	1.4	5.2	1.16	0.44	-84.04	
475.0	0.79	352.55	475.0	5.6	1.3	5.6	0.20	0.00	14.24	
500.0	0.78	353.66	500.0	6.0	1.3	5.9	0.07	-0.04	4.44	
525.0	0.86	349.88	525.0	6.3	1.2	6.3	0.39	0.32	-15.12	
550.0	0.75	350.06	550.0	6.7	1.2	6.6	0.44	-0.44	0.72	
575.0	0.84	346.71	574.9	7.0	1.1	7.0	0.41	0.36	-13.40	
600.0	0.98	345.32	599.9	7.4	1.0	7.3	0.57	0.56	-5.56	
625.0	1.00	344.48	624.9	7.8	0.9	7.8	0.10	0.08	-3.36	
650.0	0.80	346.22	649.9	8.2	0.8	8.2	0.81	-0.80	6.96	
675.0	0.83	354.38	674.9	8.5	0.7	8.5	0.48	0.12	32.64	
700.0	0.86	337.45	699.9	8.9	0.6	8.9	1.00	0.12	-67.72	
725.0	0.88	343.60	724.9	9.3	0.5	9.2	0.38	0.08	24.60	
750.0	1.02	345.09	749.9	9.7	0.4	9.6	0.57	0.56	5.96	
775.0	0.88	349.46	774.9	10.1	0.3	10.0	0.63	-0.56	17.48	
800.0	0.71	351.06	799.9	10.4	0.3	10.4	0.69	-0.68	6.40	
825.0	0.77	354.42	824.9	10.7	0.2	10.7	0.30	0.24	13.44	
850.0	0.75	4.40	849.9	11.1	0.2	11.0	0.53	-0.08	39.92	
875.0	0.57	1.00	874.9	11.3	0.2	11.3	0.74	-0.72	-13.60	
900.0	0.69	348.35	899.9	11.6	0.2	11.6	0.73	0.48	-50.60	
925.0	0.69	12.84	924.9	11.9	0.2	11.9	1.17	0.00	97.96	
950.0	0.52	19.78	949.9	12.2	0.3	12.1	0.74	-0.68	27.76	
975.0	0.59	20.79	974.9	12.4	0.4	12.4	0.28	0.28	4.04	
1,000.0	0.63	41.92	999.9	12.6	0.5	12.6	0.91	0.16	84.52	
1,025.0	0.51	57.63	1,024.9	12.8	0.7	12.7	0.78	-0.48	62.84	
1,050.0	0.55	28.98	1,049.9	12.9	0.8	12.9	1.06	0.16	-114.60	
1,075.0	0.35	56.04	1,074.9	13.1	1.0	13.0	1.15	-0.80	108.24	
1,100.0	0.17	47.51	1,099.9	13.2	1.0	13.1	0.73	-0.72	-34.12	
1,125.0	0.18	40.46	1,124.9	13.2	1.1	13.1	0.09	0.04	-28.20	
1,150.0	0.10	58.38	1,149.9	13.2	1.1	13.2	0.36	-0.32	71.68	
1,175.0	0.12	294.28	1,174.9	13.3	1.1	13.2	0.78	0.08	-496.40	
1,200.0	0.08	2.91	1,199.9	13.3	1.1	13.2	0.47	-0.16	274.52	
1,225.0	0.10	169.76	1,224.9	13.3	1.1	13.2	0.72	0.08	667.40	
1,250.0	0.09	330.56	1,249.9	13.3	1.1	13.2	0.75	-0.04	643.20	
1,275.0	0.20	57.96	1,274.9	13.3	1.1	13.3	0.86	0.44	349.60	
1,300.0	0.06	190.86	1,299.9	13.3	1.2	13.3	0.98	-0.56	531.60	
1,325.0	0.05	31.10	1,324.9	13.3	1.2	13.3	0.43	-0.04	-639.04	
1,350.0	0.12	104.91	1,349.9	13.3	1.2	13.3	0.47	0.28	295.24	
1,375.0	0.09	273.16	1,374.9	13.3	1.2	13.3	0.84	-0.12	673.00	
1,400.0	0.10	61.99	1,399.9	13.3	1.2	13.3	0.73	0.04	595.32	
1,425.0	0.06	174.94	1,424.9	13.3	1.2	13.3	0.54	-0.16	451.80	
1,450.0	0.11	279.87	1,449.9	13.3	1.2	13.3	0.55	0.20	419.72	
1,475.0	0.11	50.38	1,474.9	13.4	1.2	13.3	0.80	0.00	522.04	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	0.08	170.37	1,499.9	13.4	1.2	13.3	0.66	-0.12	479.96	
1,525.0	0.07	352.95	1,524.9	13.3	1.2	13.3	0.60	-0.04	-709.68	
1,550.0	0.12	90.20	1,549.9	13.4	1.3	13.3	0.59	0.20	389.00	
1,575.0	0.06	237.06	1,574.9	13.4	1.3	13.3	0.69	-0.24	587.44	
1,600.0	0.05	339.31	1,599.9	13.4	1.3	13.3	0.34	-0.04	409.00	
1,625.0	0.20	36.44	1,624.9	13.4	1.3	13.3	0.71	0.60	228.52	
1,650.0	0.05	296.05	1,649.9	13.4	1.3	13.4	0.86	-0.60	-401.56	
1,675.0	0.07	20.33	1,674.9	13.5	1.3	13.4	0.33	0.08	337.12	
1,700.0	0.11	125.45	1,699.9	13.5	1.3	13.4	0.58	0.16	420.48	
1,725.0	0.10	301.82	1,724.9	13.5	1.3	13.4	0.84	-0.04	705.48	
1,750.0	0.21	2.10	1,749.9	13.5	1.3	13.4	0.73	0.44	241.12	
1,775.0	0.13	127.13	1,774.9	13.5	1.3	13.5	1.22	-0.32	500.12	
1,800.0	0.04	295.59	1,799.9	13.5	1.3	13.5	0.68	-0.36	673.84	
1,825.0	0.09	346.49	1,824.9	13.6	1.3	13.5	0.29	0.20	203.60	
1,850.0	0.05	178.06	1,849.9	13.6	1.3	13.5	0.56	-0.16	-673.72	
1,875.0	0.11	287.80	1,874.9	13.6	1.3	13.5	0.54	0.24	438.96	
1,900.0	0.08	143.78	1,899.9	13.6	1.3	13.5	0.72	-0.12	-576.08	
1,925.0	0.11	153.13	1,924.9	13.5	1.3	13.4	0.13	0.12	37.40	
1,950.0	0.04	348.72	1,949.9	13.5	1.3	13.4	0.60	-0.28	-657.64	
1,975.0	0.15	44.08	1,974.9	13.5	1.3	13.5	0.53	0.44	221.44	
2,000.0	0.11	125.34	1,999.9	13.5	1.4	13.5	0.69	-0.16	325.04	
2,025.0	0.10	272.75	2,024.9	13.5	1.4	13.5	0.81	-0.04	589.64	
2,050.0	0.09	38.15	2,049.9	13.6	1.4	13.5	0.68	-0.04	501.60	
2,075.0	0.12	126.28	2,074.9	13.6	1.4	13.5	0.59	0.12	352.52	
2,100.0	0.08	216.93	2,099.9	13.5	1.4	13.4	0.58	-0.16	362.60	
2,125.0	0.06	37.06	2,124.9	13.5	1.4	13.4	0.56	-0.08	-719.48	
2,150.0	0.11	76.51	2,149.9	13.5	1.4	13.5	0.30	0.20	157.80	
2,175.0	0.09	146.37	2,174.9	13.5	1.5	13.4	0.46	-0.08	279.44	
2,200.0	0.03	319.64	2,199.9	13.5	1.5	13.4	0.48	-0.24	693.08	
2,225.0	0.12	27.36	2,224.9	13.5	1.5	13.5	0.45	0.36	270.88	
2,250.0	0.19	127.02	2,249.9	13.5	1.5	13.5	0.96	0.28	398.64	
2,275.0	0.08	135.35	2,274.9	13.5	1.6	13.4	0.45	-0.44	33.32	
2,300.0	0.10	259.25	2,299.9	13.5	1.6	13.4	0.64	0.08	495.60	
2,325.0	0.11	320.07	2,324.9	13.5	1.5	13.4	0.43	0.04	243.28	
2,350.0	0.05	229.69	2,349.9	13.5	1.5	13.4	0.48	-0.24	-361.52	
2,375.0	0.09	102.56	2,374.9	13.5	1.5	13.4	0.51	0.16	-508.52	
2,400.0	0.07	205.67	2,399.9	13.5	1.5	13.4	0.50	-0.08	412.44	
2,425.0	0.06	307.66	2,424.9	13.5	1.5	13.4	0.40	-0.04	407.96	
2,450.0	0.11	336.19	2,449.9	13.5	1.5	13.4	0.26	0.20	114.12	
2,475.0	0.08	57.47	2,474.9	13.5	1.5	13.5	0.50	-0.12	325.12	
2,500.0	0.18	123.38	2,499.9	13.5	1.5	13.4	0.66	0.40	263.64	
2,525.0	0.04	193.63	2,524.9	13.5	1.6	13.4	0.68	-0.56	281.00	
2,550.0	0.10	326.88	2,549.9	13.5	1.6	13.4	0.52	0.24	533.00	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	0.10	38.47	2,574.9	13.5	1.6	13.5	0.47	0.00	286.36	
2,600.0	0.14	96.98	2,599.9	13.6	1.6	13.5	0.49	0.16	234.04	
2,625.0	0.06	177.98	2,624.9	13.5	1.6	13.4	0.57	-0.32	324.00	
2,650.0	0.05	214.38	2,649.9	13.5	1.6	13.4	0.14	-0.04	145.60	
2,675.0	0.06	3.58	2,674.9	13.5	1.6	13.4	0.42	0.04	596.80	
2,700.0	0.12	26.43	2,699.9	13.6	1.6	13.5	0.28	0.24	91.40	
2,725.0	0.27	137.53	2,724.9	13.5	1.7	13.4	1.33	0.60	444.40	
2,750.0	0.14	140.12	2,749.9	13.5	1.7	13.4	0.52	-0.52	10.36	
2,775.0	0.11	243.82	2,774.9	13.4	1.7	13.3	0.79	-0.12	414.80	
2,800.0	0.14	347.49	2,799.9	13.5	1.7	13.4	0.79	0.12	414.68	
2,825.0	0.19	78.46	2,824.9	13.5	1.8	13.4	0.95	0.20	363.88	
2,850.0	0.19	88.23	2,849.9	13.5	1.8	13.4	0.13	0.00	39.08	
2,875.0	0.08	102.63	2,874.9	13.5	1.9	13.4	0.46	-0.44	57.60	
2,900.0	0.07	213.63	2,899.9	13.5	1.9	13.4	0.49	-0.04	444.00	
2,925.0	0.08	292.03	2,924.9	13.5	1.9	13.4	0.38	0.04	313.60	
2,950.0	0.13	24.16	2,949.9	13.5	1.9	13.4	0.62	0.20	368.52	
2,975.0	0.10	99.36	2,974.9	13.5	1.9	13.4	0.57	-0.12	300.80	
3,000.0	0.14	122.84	2,999.9	13.5	2.0	13.4	0.25	0.16	93.92	
3,025.0	0.08	176.73	3,024.9	13.5	2.0	13.4	0.45	-0.24	215.56	
3,050.0	0.11	250.07	3,049.9	13.5	2.0	13.3	0.46	0.12	293.36	
3,075.0	0.10	13.21	3,074.9	13.5	1.9	13.4	0.74	-0.04	492.56	
3,100.0	0.18	47.87	3,099.9	13.5	2.0	13.4	0.45	0.32	138.64	
3,125.0	0.18	119.12	3,124.9	13.5	2.0	13.4	0.84	0.00	285.00	
3,150.0	0.11	171.44	3,149.9	13.5	2.1	13.4	0.57	-0.28	209.28	
3,175.0	0.07	343.53	3,174.9	13.5	2.1	13.4	0.72	-0.16	688.36	
3,200.0	0.10	350.92	3,199.9	13.5	2.1	13.4	0.13	0.12	29.56	
3,225.0	0.05	297.32	3,224.9	13.5	2.1	13.4	0.32	-0.20	-214.40	
3,250.0	0.13	95.62	3,249.9	13.5	2.1	13.4	0.71	0.32	633.20	
3,275.0	0.14	146.57	3,274.9	13.5	2.1	13.4	0.47	0.04	203.80	
3,300.0	0.10	194.81	3,299.9	13.5	2.1	13.3	0.42	-0.16	192.96	
3,325.0	0.14	297.27	3,324.9	13.5	2.1	13.3	0.76	0.16	409.84	
3,350.0	0.08	5.21	3,349.9	13.5	2.1	13.4	0.53	-0.24	271.76	
3,375.0	0.12	55.58	3,374.9	13.5	2.1	13.4	0.37	0.16	201.48	
3,400.0	0.15	95.10	3,399.9	13.5	2.1	13.4	0.38	0.12	158.08	
3,425.0	0.14	134.95	3,424.9	13.5	2.2	13.4	0.40	-0.04	159.40	
3,450.0	0.05	216.36	3,449.9	13.5	2.2	13.4	0.57	-0.36	325.64	
3,475.0	0.10	304.80	3,474.9	13.5	2.2	13.4	0.44	0.20	353.76	
3,500.0	0.14	10.30	3,499.9	13.5	2.2	13.4	0.54	0.16	262.00	
3,525.0	0.02	111.95	3,524.9	13.5	2.2	13.4	0.58	-0.48	406.60	
3,550.0	0.12	181.95	3,549.9	13.5	2.2	13.4	0.46	0.40	280.00	
3,575.0	0.10	148.86	3,574.9	13.5	2.2	13.4	0.26	-0.08	-132.36	
3,600.0	0.15	80.79	3,599.9	13.5	2.2	13.3	0.58	0.20	-272.28	
3,625.0	0.26	54.77	3,624.9	13.5	2.3	13.4	0.57	0.44	-104.08	
3,650.0	0.35	52.82	3,649.9	13.6	2.4	13.4	0.36	0.36	-7.80	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	0.31	61.73	3,674.9	13.7	2.6	13.5	0.26	-0.16	35.64
3,700.0	0.44	90.28	3,699.9	13.7	2.7	13.5	0.90	0.52	114.20
3,725.0	0.40	86.57	3,724.9	13.7	2.9	13.5	0.19	-0.16	-14.84
3,750.0	0.25	79.69	3,749.9	13.7	3.0	13.5	0.62	-0.60	-27.52
3,775.0	0.14	57.92	3,774.9	13.7	3.1	13.6	0.52	-0.44	-87.08
3,800.0	0.09	14.25	3,799.9	13.8	3.1	13.6	0.39	-0.20	-174.68
3,825.0	0.16	26.38	3,824.9	13.8	3.2	13.7	0.30	0.28	48.52
3,850.0	0.23	79.06	3,849.9	13.9	3.2	13.7	0.74	0.28	210.72
3,875.0	0.05	196.72	3,874.9	13.9	3.3	13.7	1.03	-0.72	470.64
3,900.0	0.10	130.94	3,899.9	13.8	3.3	13.7	0.37	0.20	-263.12
3,925.0	0.16	77.24	3,924.9	13.8	3.3	13.7	0.52	0.24	-214.80
3,950.0	0.18	154.32	3,949.9	13.8	3.4	13.6	0.85	0.08	308.32
3,975.0	0.07	67.82	3,974.9	13.8	3.4	13.6	0.76	-0.44	-346.00
4,000.0	0.05	332.13	3,999.9	13.8	3.4	13.6	0.36	-0.08	-382.76
4,025.0	0.15	38.79	4,024.9	13.8	3.4	13.6	0.55	0.40	266.64
4,050.0	0.22	60.14	4,049.9	13.9	3.5	13.7	0.39	0.28	85.40
4,075.0	0.29	98.62	4,074.9	13.9	3.6	13.7	0.72	0.28	153.92
4,100.0	0.69	107.15	4,099.9	13.8	3.8	13.6	1.62	1.60	34.12
4,125.0	0.93	116.95	4,124.9	13.7	4.1	13.5	1.11	0.96	39.20
4,150.0	1.19	125.16	4,149.9	13.5	4.5	13.2	1.20	1.04	32.84
4,175.0	1.51	126.19	4,174.9	13.1	5.0	12.9	1.28	1.28	4.12
4,200.0	1.52	127.15	4,199.9	12.7	5.5	12.4	0.11	0.04	3.84
4,225.0	1.54	123.86	4,224.9	12.3	6.1	12.0	0.36	0.08	-13.16
4,250.0	1.59	123.21	4,249.9	11.9	6.7	11.6	0.21	0.20	-2.60
4,275.0	1.60	127.94	4,274.8	11.5	7.2	11.2	0.53	0.04	18.92
4,300.0	1.72	121.68	4,299.8	11.1	7.8	10.8	0.87	0.48	-25.04
4,325.0	1.46	124.20	4,324.8	10.8	8.4	10.4	1.08	-1.04	10.08
4,350.0	1.39	122.68	4,349.8	10.4	8.9	10.0	0.32	-0.28	-6.08
4,375.0	1.34	124.31	4,374.8	10.1	9.4	9.6	0.25	-0.20	6.52
4,400.0	1.47	126.66	4,399.8	9.7	9.9	9.3	0.57	0.52	9.40
4,425.0	1.49	135.81	4,424.8	9.3	10.4	8.8	0.95	0.08	36.60
4,450.0	1.46	140.23	4,449.8	8.8	10.8	8.3	0.47	-0.12	17.68
4,475.0	1.64	138.12	4,474.8	8.3	11.3	7.8	0.76	0.72	-8.44
4,500.0	1.70	140.39	4,499.8	7.8	11.7	7.2	0.36	0.24	9.08
4,525.0	1.73	143.83	4,524.8	7.2	12.2	6.6	0.43	0.12	13.76
4,550.0	1.90	141.15	4,549.7	6.5	12.7	5.9	0.76	0.68	-10.72
4,575.0	1.91	143.57	4,574.7	5.9	13.2	5.3	0.32	0.04	9.68
4,600.0	1.92	143.32	4,599.7	5.2	13.7	4.6	0.05	0.04	-1.00
4,625.0	1.96	140.64	4,624.7	4.6	14.2	3.9	0.40	0.16	-10.72
4,650.0	1.91	144.47	4,649.7	3.9	14.7	3.2	0.55	-0.20	15.32
4,675.0	1.97	138.90	4,674.7	3.2	15.3	2.5	0.79	0.24	-22.28
4,700.0	1.68	139.91	4,699.7	2.6	15.8	1.9	1.17	-1.16	4.04
4,725.0	1.49	142.56	4,724.7	2.1	16.2	1.3	0.81	-0.76	10.60

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	1.35	142.39	4,749.6	1.6	16.6	0.8	0.56	-0.56	-0.68	
4,775.0	1.07	143.11	4,774.6	1.2	16.9	0.4	1.12	-1.12	2.88	
4,800.0	0.99	149.56	4,799.6	0.8	17.1	0.0	0.56	-0.32	25.80	
4,825.0	1.02	147.42	4,824.6	0.4	17.4	-0.4	0.19	0.12	-8.56	
4,850.0	1.03	156.47	4,849.6	0.0	17.6	-0.8	0.65	0.04	36.20	
4,875.0	1.18	159.02	4,874.6	-0.4	17.8	-1.3	0.63	0.60	10.20	
4,900.0	1.34	167.09	4,899.6	-0.9	17.9	-1.8	0.95	0.64	32.28	
4,925.0	1.58	183.50	4,924.6	-1.6	18.0	-2.4	1.92	0.96	65.64	
4,950.0	1.70	186.31	4,949.6	-2.3	17.9	-3.1	0.58	0.48	11.24	
4,975.0	1.90	189.92	4,974.6	-3.1	17.8	-3.9	0.92	0.80	14.44	
5,000.0	2.08	189.74	4,999.6	-3.9	17.6	-4.7	0.72	0.72	-0.72	
5,025.0	2.43	194.72	5,024.6	-4.9	17.4	-5.7	1.60	1.40	19.92	
5,050.0	2.81	199.67	5,049.5	-6.0	17.1	-6.8	1.77	1.52	19.80	
5,075.0	3.15	202.59	5,074.5	-7.2	16.6	-8.0	1.49	1.36	11.68	
5,100.0	3.43	205.43	5,099.5	-8.5	16.0	-9.2	1.30	1.12	11.36	
5,125.0	3.76	208.65	5,124.4	-9.9	15.3	-10.6	1.55	1.32	12.88	
5,150.0	3.93	211.52	5,149.3	-11.3	14.5	-12.0	1.03	0.68	11.48	
5,175.0	4.33	215.18	5,174.3	-12.8	13.5	-13.5	1.92	1.60	14.64	
5,200.0	4.35	217.84	5,199.2	-14.4	12.4	-14.9	0.81	0.08	10.64	
5,225.0	4.51	219.76	5,224.1	-15.9	11.2	-16.4	0.87	0.64	7.68	
5,250.0	4.66	221.82	5,249.1	-17.4	9.9	-17.8	0.89	0.60	8.24	
5,275.0	5.06	223.38	5,274.0	-18.9	8.4	-19.3	1.68	1.60	6.24	
5,300.0	5.19	223.23	5,298.9	-20.6	6.9	-20.9	0.52	0.52	-0.60	
5,325.0	5.51	224.71	5,323.8	-22.2	5.3	-22.5	1.39	1.28	5.92	
5,350.0	5.62	225.59	5,348.6	-23.9	3.6	-24.1	0.56	0.44	3.52	
5,375.0	5.76	226.48	5,373.5	-25.7	1.8	-25.7	0.66	0.56	3.56	
5,400.0	5.88	227.45	5,398.4	-27.4	-0.1	-27.4	0.62	0.48	3.88	
5,425.0	5.75	226.72	5,423.3	-29.1	-1.9	-29.0	0.60	-0.52	-2.92	
5,450.0	5.78	227.70	5,448.1	-30.8	-3.8	-30.6	0.41	0.12	3.92	
5,475.0	5.47	227.97	5,473.0	-32.5	-5.6	-32.2	1.24	-1.24	1.08	
5,500.0	5.38	227.75	5,497.9	-34.1	-7.4	-33.7	0.37	-0.36	-0.88	
5,525.0	5.06	232.54	5,522.8	-35.5	-9.1	-35.0	2.16	-1.28	19.16	
5,550.0	4.79	232.92	5,547.7	-36.8	-10.8	-36.3	1.09	-1.08	1.52	
5,575.0	4.46	234.84	5,572.6	-38.0	-12.4	-37.4	1.46	-1.32	7.68	
5,600.0	4.24	236.90	5,597.5	-39.1	-14.0	-38.4	1.08	-0.88	8.24	
5,625.0	3.93	236.54	5,622.5	-40.0	-15.5	-39.3	1.24	-1.24	-1.44	
5,650.0	3.59	240.88	5,647.4	-40.9	-16.9	-40.1	1.77	-1.36	17.36	
5,675.0	3.16	242.76	5,672.4	-41.6	-18.2	-40.7	1.78	-1.72	7.52	
5,700.0	2.98	246.17	5,697.4	-42.2	-19.4	-41.2	1.03	-0.72	13.64	
5,725.0	2.73	249.82	5,722.3	-42.6	-20.5	-41.6	1.24	-1.00	14.60	
5,750.0	2.54	253.41	5,747.3	-43.0	-21.6	-41.9	1.01	-0.76	14.36	
5,775.0	2.45	256.16	5,772.3	-43.3	-22.7	-42.2	0.60	-0.36	11.00	
5,800.0	2.35	259.35	5,797.2	-43.5	-23.7	-42.3	0.67	-0.40	12.76	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	2.25	263.50	5,822.2	-43.7	-24.7	-42.5	0.78	-0.40	16.60	
5,850.0	2.25	268.90	5,847.2	-43.7	-25.7	-42.5	0.85	0.00	21.60	
5,875.0	2.11	273.38	5,872.2	-43.7	-26.6	-42.4	0.88	-0.56	17.92	
5,900.0	2.19	281.29	5,897.2	-43.6	-27.6	-42.2	1.23	0.32	31.64	
5,925.0	2.11	290.17	5,922.2	-43.3	-28.5	-42.0	1.37	-0.32	35.52	
5,950.0	2.09	298.75	5,947.1	-43.0	-29.3	-41.5	1.26	-0.08	34.32	
5,975.0	2.07	301.97	5,972.1	-42.5	-30.1	-41.0	0.47	-0.08	12.88	
6,000.0	2.11	313.12	5,997.1	-41.9	-30.8	-40.5	1.63	0.16	44.60	
6,025.0	2.12	316.78	6,022.1	-41.3	-31.4	-39.8	0.54	0.04	14.64	
6,050.0	2.17	317.71	6,047.1	-40.6	-32.1	-39.1	0.24	0.20	3.72	
6,075.0	2.16	323.33	6,072.1	-39.9	-32.7	-38.3	0.85	-0.04	22.48	
6,100.0	2.23	326.11	6,097.0	-39.1	-33.2	-37.5	0.51	0.28	11.12	
6,125.0	2.29	332.60	6,122.0	-38.3	-33.7	-36.6	1.05	0.24	25.96	
6,150.0	2.40	334.79	6,147.0	-37.3	-34.2	-35.7	0.57	0.44	8.76	
6,175.0	2.52	334.75	6,172.0	-36.4	-34.6	-34.7	0.48	0.48	-0.16	
6,200.0	2.64	339.58	6,196.9	-35.3	-35.1	-33.6	0.99	0.48	19.32	
6,225.0	2.71	340.30	6,221.9	-34.2	-35.5	-32.5	0.31	0.28	2.88	
6,250.0	2.72	341.44	6,246.9	-33.1	-35.9	-31.4	0.22	0.04	4.56	
6,275.0	2.81	346.14	6,271.9	-32.0	-36.2	-30.2	0.98	0.36	18.80	
6,300.0	2.75	349.24	6,296.8	-30.8	-36.5	-29.0	0.65	-0.24	12.40	
6,325.0	2.63	351.26	6,321.8	-29.6	-36.7	-27.9	0.61	-0.48	8.08	
6,350.0	2.69	355.54	6,346.8	-28.5	-36.8	-26.7	0.83	0.24	17.12	
6,375.0	2.64	355.82	6,371.8	-27.3	-36.9	-25.5	0.21	-0.20	1.12	
6,400.0	2.60	355.75	6,396.7	-26.2	-37.0	-24.4	0.16	-0.16	-0.28	
6,425.0	2.58	356.42	6,421.7	-25.0	-37.0	-23.3	0.15	-0.08	2.68	
6,450.0	2.58	354.73	6,446.7	-23.9	-37.1	-22.1	0.30	0.00	-6.76	
6,475.0	2.60	358.32	6,471.6	-22.8	-37.2	-21.0	0.65	0.08	14.36	
6,500.0	2.62	359.48	6,496.6	-21.6	-37.2	-19.9	0.23	0.08	4.64	
6,525.0	2.62	359.68	6,521.6	-20.5	-37.2	-18.7	0.04	0.00	0.80	
6,550.0	2.71	4.51	6,546.6	-19.3	-37.2	-17.6	0.97	0.36	19.32	
6,575.0	2.73	4.51	6,571.5	-18.2	-37.1	-16.4	0.08	0.08	0.00	
6,600.0	2.61	8.95	6,596.5	-17.0	-37.0	-15.3	0.96	-0.48	17.76	
6,625.0	2.57	10.99	6,621.5	-15.9	-36.8	-14.1	0.40	-0.16	8.16	
6,650.0	2.35	10.46	6,646.5	-14.8	-36.6	-13.1	0.88	-0.88	-2.12	
6,675.0	2.37	13.11	6,671.4	-13.8	-36.3	-12.1	0.44	0.08	10.60	
6,700.0	2.32	11.62	6,696.4	-12.8	-36.1	-11.1	0.32	-0.20	-5.96	
6,725.0	2.27	11.81	6,721.4	-11.9	-35.9	-10.2	0.20	-0.20	0.76	
6,750.0	2.29	13.17	6,746.4	-10.9	-35.7	-9.2	0.23	0.08	5.44	
6,775.0	2.18	11.95	6,771.4	-9.9	-35.5	-8.3	0.48	-0.44	-4.88	
6,800.0	2.15	13.19	6,796.3	-9.0	-35.3	-7.3	0.22	-0.12	4.96	
6,825.0	2.06	12.20	6,821.3	-8.1	-35.1	-6.5	0.39	-0.36	-3.96	
6,850.0	2.05	9.99	6,846.3	-7.2	-34.9	-5.6	0.32	-0.04	-8.84	
6,875.0	1.94	9.48	6,871.3	-6.4	-34.8	-4.7	0.45	-0.44	-2.04	
6,900.0	1.95	13.07	6,896.3	-5.5	-34.6	-3.9	0.49	0.04	14.36	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	2.02	10.60	6,921.3	-4.7	-34.4	-3.1	0.44	0.28	-9.88	
6,950.0	2.14	14.01	6,946.3	-3.8	-34.2	-2.2	0.69	0.48	13.64	
6,975.0	2.06	15.79	6,971.2	-2.9	-34.0	-1.3	0.41	-0.32	7.12	
7,000.0	2.06	16.30	6,996.2	-2.1	-33.7	-0.5	0.07	0.00	2.04	
7,025.0	2.04	19.44	7,021.2	-1.2	-33.5	0.4	0.46	-0.08	12.56	
7,050.0	1.75	10.98	7,046.2	-0.4	-33.3	1.1	1.61	-1.16	-33.84	
7,075.0	1.65	13.07	7,071.2	0.3	-33.1	1.9	0.47	-0.40	8.36	
7,100.0	1.63	13.30	7,096.2	1.0	-32.9	2.6	0.08	-0.08	0.92	
7,125.0	1.31	3.68	7,121.2	1.6	-32.8	3.2	1.61	-1.28	-38.48	
7,150.0	1.18	359.33	7,146.2	2.2	-32.8	3.7	0.64	-0.52	-17.40	
7,175.0	1.15	352.78	7,171.1	2.7	-32.9	4.2	0.55	-0.12	-26.20	
7,200.0	1.07	334.24	7,196.1	3.1	-33.0	4.7	1.46	-0.32	-74.16	
7,225.0	1.22	316.26	7,221.1	3.5	-33.3	5.1	1.55	0.60	-71.92	
7,250.0	1.53	300.14	7,246.1	3.9	-33.7	5.5	1.97	1.24	-64.48	
7,275.0	1.87	297.27	7,271.1	4.3	-34.4	5.9	1.40	1.36	-11.48	
7,300.0	2.10	293.86	7,296.1	4.6	-35.2	6.3	1.03	0.92	-13.64	
7,325.0	2.64	288.43	7,321.1	5.0	-36.1	6.7	2.34	2.16	-21.72	
7,350.0	3.18	284.73	7,346.1	5.4	-37.4	7.1	2.29	2.16	-14.80	
7,375.0	3.63	282.06	7,371.0	5.7	-38.8	7.5	1.91	1.80	-10.68	
7,400.0	3.69	278.30	7,396.0	6.0	-40.4	7.9	0.99	0.24	-15.04	
7,425.0	4.03	276.96	7,420.9	6.2	-42.0	8.2	1.41	1.36	-5.36	
7,450.0	4.13	277.36	7,445.8	6.4	-43.8	8.5	0.42	0.40	1.60	
7,475.0	4.24	275.75	7,470.8	6.6	-45.6	8.8	0.64	0.44	-6.44	
7,500.0	4.27	275.04	7,495.7	6.8	-47.5	9.0	0.24	0.12	-2.84	
7,525.0	4.38	273.56	7,520.6	6.9	-49.3	9.3	0.63	0.44	-5.92	
7,550.0	4.34	271.78	7,545.6	7.0	-51.2	9.4	0.56	-0.16	-7.12	
7,575.0	4.30	270.26	7,570.5	7.1	-53.1	9.6	0.49	-0.16	-6.08	
7,600.0	4.37	269.56	7,595.4	7.1	-55.0	9.6	0.35	0.28	-2.80	
7,625.0	4.38	268.04	7,620.3	7.0	-56.9	9.7	0.47	0.04	-6.08	
7,650.0	4.33	263.78	7,645.3	6.9	-58.8	9.7	1.31	-0.20	-17.04	
7,675.0	4.40	264.45	7,670.2	6.7	-60.7	9.5	0.35	0.28	2.68	
7,700.0	4.26	266.22	7,695.1	6.5	-62.6	9.5	0.77	-0.56	7.08	
7,725.0	4.25	266.30	7,720.1	6.4	-64.4	9.4	0.05	-0.04	0.32	
7,750.0	4.23	264.73	7,745.0	6.3	-66.3	9.4	0.47	-0.08	-6.28	
7,775.0	4.09	262.33	7,769.9	6.1	-68.1	9.3	0.89	-0.56	-9.60	
7,800.0	4.06	264.01	7,794.9	5.9	-69.8	9.1	0.49	-0.12	6.72	
7,825.0	3.95	264.01	7,819.8	5.7	-71.6	9.0	0.44	-0.44	0.00	
7,850.0	4.00	263.68	7,844.7	5.5	-73.3	8.9	0.22	0.20	-1.32	
7,875.0	4.03	263.77	7,869.7	5.3	-75.0	8.8	0.12	0.12	0.36	
7,900.0	3.95	264.34	7,894.6	5.1	-76.8	8.7	0.36	-0.32	2.28	
7,925.0	3.84	263.87	7,919.6	4.9	-78.5	8.6	0.46	-0.44	-1.88	
7,950.0	3.78	263.12	7,944.5	4.8	-80.1	8.5	0.31	-0.24	-3.00	
7,975.0	3.84	263.09	7,969.4	4.6	-81.8	8.4	0.24	0.24	-0.12	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
8,000.0	3.77	262.27	7,994.4	4.4	-83.4	8.3	0.35	-0.28	-3.28	
8,025.0	3.65	261.84	8,019.3	4.1	-85.0	8.1	0.49	-0.48	-1.72	
8,050.0	3.51	259.49	8,044.3	3.9	-86.6	7.9	0.81	-0.56	-9.40	
8,075.0	3.47	260.31	8,069.2	3.6	-88.1	7.7	0.26	-0.16	3.28	
8,100.0	3.53	260.32	8,094.2	3.4	-89.6	7.6	0.24	0.24	0.04	
8,125.0	3.51	260.41	8,119.2	3.1	-91.1	7.4	0.08	-0.08	0.36	
8,150.0	3.46	258.40	8,144.1	2.8	-92.6	7.2	0.53	-0.20	-8.04	
8,175.0	3.31	257.16	8,169.1	2.5	-94.0	6.9	0.67	-0.60	-4.96	
8,200.0	3.28	255.99	8,194.0	2.2	-95.4	6.7	0.29	-0.12	-4.68	
8,225.0	3.19	255.20	8,219.0	1.8	-96.8	6.4	0.40	-0.36	-3.16	
8,250.0	3.23	254.67	8,243.9	1.5	-98.1	6.1	0.20	0.16	-2.12	
8,275.0	3.25	254.84	8,268.9	1.1	-99.5	5.8	0.09	0.08	0.68	
8,300.0	3.15	253.75	8,293.9	0.7	-100.8	5.4	0.47	-0.40	-4.36	
8,325.0	3.22	252.57	8,318.8	0.3	-102.2	5.1	0.38	0.28	-4.72	
8,350.0	3.19	252.61	8,343.8	-0.1	-103.5	4.8	0.12	-0.12	0.16	
8,375.0	3.26	252.63	8,368.7	-0.5	-104.8	4.4	0.28	0.28	0.08	
8,400.0	3.33	253.03	8,393.7	-1.0	-106.2	4.0	0.29	0.28	1.60	
8,425.0	3.31	253.05	8,418.7	-1.4	-107.6	3.7	0.08	-0.08	0.08	
8,450.0	3.39	253.09	8,443.6	-1.8	-109.0	3.3	0.32	0.32	0.16	
8,475.0	3.37	252.65	8,468.6	-2.2	-110.4	3.0	0.13	-0.08	-1.76	
8,500.0	3.34	253.58	8,493.5	-2.7	-111.8	2.6	0.25	-0.12	3.72	
8,525.0	3.47	252.65	8,518.5	-3.1	-113.2	2.2	0.56	0.52	-3.72	
8,550.0	3.39	253.34	8,543.4	-3.5	-114.6	1.9	0.36	-0.32	2.76	
8,575.0	3.31	253.91	8,568.4	-3.9	-116.1	1.5	0.35	-0.32	2.28	
8,600.0	3.29	253.24	8,593.4	-4.4	-117.4	1.2	0.17	-0.08	-2.68	
8,625.0	3.22	251.88	8,618.3	-4.8	-118.8	0.8	0.42	-0.28	-5.44	
8,650.0	3.11	251.40	8,643.3	-5.2	-120.1	0.4	0.45	-0.44	-1.92	
8,675.0	3.07	249.92	8,668.2	-5.7	-121.4	0.1	0.36	-0.16	-5.92	
8,700.0	2.99	248.87	8,693.2	-6.1	-122.6	-0.4	0.39	-0.32	-4.20	
8,725.0	2.98	249.91	8,718.2	-6.6	-123.8	-0.8	0.22	-0.04	4.16	
8,750.0	2.89	245.64	8,743.1	-7.1	-125.0	-1.2	0.95	-0.36	-17.08	
8,775.0	2.84	247.56	8,768.1	-7.6	-126.2	-1.6	0.43	-0.20	7.68	
8,800.0	2.81	246.69	8,793.1	-8.0	-127.3	-2.0	0.21	-0.12	-3.48	
8,825.0	2.74	245.80	8,818.1	-8.5	-128.4	-2.5	0.33	-0.28	-3.56	
8,850.0	2.76	246.46	8,843.0	-9.0	-129.5	-2.9	0.15	0.08	2.64	
8,875.0	2.81	245.26	8,868.0	-9.5	-130.6	-3.4	0.31	0.20	-4.80	
8,900.0	2.79	244.15	8,893.0	-10.0	-131.7	-3.8	0.23	-0.08	-4.44	
8,925.0	2.76	244.57	8,917.9	-10.6	-132.8	-4.3	0.14	-0.12	1.68	
8,950.0	2.61	246.16	8,942.9	-11.0	-133.9	-4.7	0.67	-0.60	6.36	
8,975.0	2.51	247.70	8,967.9	-11.5	-134.9	-5.1	0.49	-0.40	6.16	
9,000.0	2.40	248.60	8,992.9	-11.9	-135.9	-5.5	0.47	-0.44	3.60	
9,025.0	2.32	247.29	9,017.8	-12.3	-136.8	-5.8	0.39	-0.32	-5.24	
9,050.0	2.16	250.41	9,042.8	-12.6	-137.7	-6.1	0.80	-0.64	12.48	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
9,075.0	2.17	250.27	9,067.8	-12.9	-138.6	-6.4	0.05	0.04	-0.56	
9,100.0	2.07	252.20	9,092.8	-13.2	-139.5	-6.7	0.49	-0.40	7.72	
9,125.0	1.93	252.05	9,117.8	-13.5	-140.3	-6.9	0.56	-0.56	-0.60	
9,150.0	1.88	250.72	9,142.8	-13.8	-141.1	-7.1	0.27	-0.20	-5.32	
9,175.0	1.78	251.68	9,167.7	-14.0	-141.9	-7.3	0.42	-0.40	3.84	
9,200.0	1.73	249.42	9,192.7	-14.3	-142.6	-7.6	0.34	-0.20	-9.04	
9,225.0	1.65	248.44	9,217.7	-14.5	-143.3	-7.8	0.34	-0.32	-3.92	
9,250.0	1.73	248.65	9,242.7	-14.8	-144.0	-8.0	0.32	0.32	0.84	
9,275.0	1.77	247.70	9,267.7	-15.1	-144.7	-8.3	0.20	0.16	-3.80	
9,300.0	1.78	247.66	9,292.7	-15.4	-145.4	-8.5	0.04	0.04	-0.16	
9,325.0	1.68	246.28	9,317.7	-15.7	-146.1	-8.8	0.43	-0.40	-5.52	
9,350.0	1.56	245.43	9,342.7	-16.0	-146.7	-9.1	0.49	-0.48	-3.40	
9,375.0	1.61	248.46	9,367.7	-16.2	-147.4	-9.3	0.39	0.20	12.12	
9,400.0	1.56	243.65	9,392.6	-16.5	-148.0	-9.5	0.57	-0.20	-19.24	
9,425.0	1.54	240.65	9,417.6	-16.8	-148.6	-9.8	0.33	-0.08	-12.00	
9,450.0	1.46	239.73	9,442.6	-17.2	-149.2	-10.1	0.33	-0.32	-3.68	
9,475.0	1.50	239.94	9,467.6	-17.5	-149.7	-10.4	0.16	0.16	0.84	
9,500.0	1.39	230.29	9,492.6	-17.9	-150.3	-10.8	1.07	-0.44	-38.60	
9,525.0	1.30	225.00	9,517.6	-18.2	-150.7	-11.1	0.61	-0.36	-21.16	
9,550.0	1.26	222.75	9,542.6	-18.6	-151.1	-11.5	0.26	-0.16	-9.00	
9,575.0	1.31	221.54	9,567.6	-19.1	-151.5	-11.9	0.23	0.20	-4.84	
9,600.0	1.19	220.82	9,592.6	-19.5	-151.8	-12.3	0.48	-0.48	-2.88	
9,625.0	1.34	225.33	9,617.6	-19.9	-152.2	-12.7	0.72	0.60	18.04	
9,650.0	1.37	224.38	9,642.6	-20.3	-152.6	-13.1	0.15	0.12	-3.80	
9,675.0	1.42	225.89	9,667.6	-20.7	-153.0	-13.5	0.25	0.20	6.04	
9,700.0	1.27	217.11	9,692.6	-21.2	-153.4	-13.9	1.02	-0.60	-35.12	
9,725.0	1.51	225.72	9,717.6	-21.6	-153.8	-14.4	1.27	0.96	34.44	
9,750.0	1.36	226.39	9,742.5	-22.0	-154.3	-14.8	0.60	-0.60	2.68	
9,775.0	1.33	226.24	9,767.5	-22.5	-154.7	-15.2	0.12	-0.12	-0.60	
9,800.0	1.19	220.24	9,792.5	-22.9	-155.1	-15.5	0.77	-0.56	-24.00	
9,825.0	1.20	214.56	9,817.5	-23.3	-155.4	-15.9	0.48	0.04	-22.72	
9,850.0	1.25	217.73	9,842.5	-23.7	-155.7	-16.3	0.34	0.20	12.68	
9,875.0	1.19	213.12	9,867.5	-24.1	-156.0	-16.8	0.46	-0.24	-18.44	
9,900.0	1.20	211.44	9,892.5	-24.6	-156.3	-17.2	0.15	0.04	-6.72	
9,925.0	1.24	206.59	9,917.5	-25.0	-156.6	-17.6	0.44	0.16	-19.40	
9,950.0	1.25	202.40	9,942.5	-25.5	-156.8	-18.1	0.37	0.04	-16.76	
9,975.0	1.27	203.35	9,967.5	-26.0	-157.0	-18.6	0.12	0.08	3.80	
10,000.0	1.32	204.74	9,992.5	-26.6	-157.2	-19.1	0.24	0.20	5.56	
10,025.0	1.79	217.15	10,017.5	-27.1	-157.6	-19.7	2.30	1.88	49.64	
10,050.0	2.49	221.13	10,042.5	-27.8	-158.2	-20.4	2.86	2.80	15.92	
10,075.0	2.87	224.88	10,067.4	-28.7	-159.0	-21.2	1.67	1.52	15.00	
10,100.0	2.96	227.15	10,092.4	-29.6	-159.9	-22.0	0.59	0.36	9.08	
10,125.0	2.99	226.59	10,117.4	-30.5	-160.8	-22.9	0.17	0.12	-2.24	
10,150.0	3.03	225.66	10,142.3	-31.4	-161.8	-23.7	0.25	0.16	-3.72	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
10,175.0	2.94	223.26	10,167.3	-32.3	-162.7	-24.6	0.62	-0.36	-9.60	
10,200.0	2.84	224.38	10,192.3	-33.2	-163.6	-25.5	0.46	-0.40	4.48	
10,225.0	2.93	225.42	10,217.2	-34.1	-164.5	-26.3	0.42	0.36	4.16	
10,250.0	2.94	225.96	10,242.2	-35.0	-165.4	-27.2	0.12	0.04	2.16	
10,275.0	2.85	227.49	10,267.2	-35.9	-166.3	-28.0	0.47	-0.36	6.12	
10,300.0	2.71	234.88	10,292.1	-36.6	-167.2	-28.7	1.54	-0.56	29.56	
10,325.0	2.65	232.14	10,317.1	-37.3	-168.2	-29.4	0.57	-0.24	-10.96	
10,350.0	2.49	233.34	10,342.1	-38.0	-169.1	-30.0	0.68	-0.64	4.80	
10,375.0	2.44	231.32	10,367.1	-38.7	-169.9	-30.6	0.40	-0.20	-8.08	
10,400.0	2.38	232.32	10,392.0	-39.3	-170.7	-31.2	0.29	-0.24	4.00	
10,425.0	2.45	231.30	10,417.0	-40.0	-171.6	-31.8	0.33	0.28	-4.08	
10,450.0	2.46	230.27	10,442.0	-40.6	-172.4	-32.5	0.18	0.04	-4.12	
10,475.0	2.46	231.29	10,467.0	-41.3	-173.2	-33.1	0.18	0.00	4.08	
10,500.0	2.42	231.97	10,492.0	-42.0	-174.1	-33.7	0.20	-0.16	2.72	
10,525.0	2.47	230.73	10,516.9	-42.6	-174.9	-34.4	0.29	0.20	-4.96	
10,550.0	2.68	235.28	10,541.9	-43.3	-175.8	-35.0	1.17	0.84	18.20	
10,575.0	2.72	235.48	10,566.9	-44.0	-176.8	-35.6	0.16	0.16	0.80	
10,600.0	3.65	230.28	10,591.8	-44.8	-177.9	-36.4	3.89	3.72	-20.80	
10,625.0	4.80	227.93	10,616.8	-46.0	-179.3	-37.6	4.65	4.60	-9.40	
10,650.0	5.07	227.60	10,641.7	-47.5	-180.8	-38.9	1.09	1.08	-1.32	
10,675.0	5.06	227.77	10,666.6	-49.0	-182.5	-40.3	0.07	-0.04	0.68	
10,700.0	5.31	227.32	10,691.5	-50.5	-184.1	-41.8	1.01	1.00	-1.80	
10,725.0	5.29	227.04	10,716.4	-52.1	-185.8	-43.3	0.13	-0.08	-1.12	
10,750.0	5.32	227.13	10,741.3	-53.6	-187.5	-44.8	0.12	0.12	0.36	
10,775.0	5.44	226.89	10,766.2	-55.2	-189.2	-46.3	0.49	0.48	-0.96	
10,800.0	5.33	226.75	10,791.0	-56.8	-191.0	-47.8	0.44	-0.44	-0.56	
10,825.0	4.90	226.20	10,815.9	-58.4	-192.6	-49.3	1.73	-1.72	-2.20	
10,850.0	4.57	226.25	10,840.9	-59.8	-194.1	-50.6	1.32	-1.32	0.20	
10,875.0	4.37	223.82	10,865.8	-61.2	-195.4	-51.9	1.10	-0.80	-9.72	
10,900.0	4.05	223.26	10,890.7	-62.5	-196.7	-53.2	1.29	-1.28	-2.24	
10,925.0	3.67	223.81	10,915.7	-63.7	-197.9	-54.4	1.53	-1.52	2.20	
10,950.0	3.86	223.18	10,940.6	-64.9	-199.0	-55.5	0.78	0.76	-2.52	
10,975.0	4.05	222.53	10,965.5	-66.2	-200.2	-56.7	0.78	0.76	-2.60	
11,000.0	4.70	219.83	10,990.5	-67.6	-201.4	-58.1	2.73	2.60	-10.80	
11,025.0	4.86	220.33	11,015.4	-69.2	-202.8	-59.6	0.66	0.64	2.00	
11,050.0	4.90	220.39	11,040.3	-70.8	-204.1	-61.2	0.16	0.16	0.24	
11,075.0	4.89	220.48	11,065.2	-72.5	-205.5	-62.7	0.05	-0.04	0.36	
11,100.0	4.82	219.51	11,090.1	-74.1	-206.9	-64.3	0.43	-0.28	-3.88	
11,125.0	4.74	220.37	11,115.0	-75.7	-208.2	-65.8	0.43	-0.32	3.44	
11,150.0	4.54	221.51	11,139.9	-77.2	-209.5	-67.3	0.88	-0.80	4.56	
11,175.0	4.40	222.08	11,164.9	-78.7	-210.8	-68.7	0.59	-0.56	2.28	
11,200.0	4.16	223.16	11,189.8	-80.0	-212.1	-70.0	1.01	-0.96	4.32	
11,225.0	4.06	223.39	11,214.7	-81.3	-213.3	-71.2	0.41	-0.40	0.92	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)	
11,250.0	3.68	217.39	11,239.7	-82.6	-214.4	-72.4	2.22	-1.52	-24.00	
11,275.0	3.64	221.45	11,264.6	-83.8	-215.4	-73.6	1.05	-0.16	16.24	
11,300.0	3.75	225.32	11,289.6	-85.0	-216.5	-74.7	1.09	0.44	15.48	
11,325.0	3.66	226.72	11,314.5	-86.1	-217.7	-75.8	0.51	-0.36	5.60	
11,350.0	3.62	225.37	11,339.5	-87.2	-218.9	-76.9	0.38	-0.16	-5.40	
11,375.0	3.48	223.15	11,364.4	-88.4	-219.9	-77.9	0.78	-0.56	-8.88	
11,400.0	3.36	228.00	11,389.4	-89.4	-221.0	-78.9	1.25	-0.48	19.40	
11,425.0	3.45	234.84	11,414.3	-90.3	-222.2	-79.8	1.66	0.36	27.36	
11,450.0	3.70	235.50	11,439.3	-91.2	-223.4	-80.6	1.01	1.00	2.64	
11,475.0	3.74	234.85	11,464.2	-92.1	-224.8	-81.5	0.23	0.16	-2.60	
11,500.0	3.81	235.51	11,489.2	-93.1	-226.1	-82.3	0.33	0.28	2.64	
11,525.0	3.57	235.27	11,514.1	-94.0	-227.4	-83.2	0.96	-0.96	-0.96	
11,550.0	3.47	236.97	11,539.1	-94.8	-228.7	-84.0	0.58	-0.40	6.80	
11,575.0	3.40	237.39	11,564.0	-95.7	-230.0	-84.7	0.30	-0.28	1.68	
11,600.0	3.72	238.51	11,589.0	-96.5	-231.3	-85.5	1.31	1.28	4.48	
11,625.0	3.62	240.83	11,613.9	-97.3	-232.7	-86.2	0.72	-0.40	9.28	
11,638.0	3.86	233.99	11,626.9	-97.7	-233.4	-86.7	3.89	1.85	-52.62	
11,815.0	3.24	214.40	11,803.6	-105.4	-241.0	-93.9	0.76	-0.35	-11.07	
11,856.0	3.71	208.64	11,844.5	-107.5	-242.3	-96.0	1.43	1.15	-14.05	
11,888.0	3.71	208.58	11,876.4	-109.3	-243.3	-97.7	0.01	0.00	-0.19	
11,951.0	11.90	307.29	11,939.0	-107.2	-249.5	-95.3	20.61	13.00	156.68	
12,013.0	21.40	320.95	11,998.3	-94.5	-261.7	-82.1	16.47	15.32	22.03	
12,045.0	25.04	326.07	12,027.7	-84.3	-269.2	-71.6	13.00	11.38	16.00	
12,139.0	29.99	339.86	12,111.1	-45.7	-288.4	-32.1	8.55	5.27	14.67	
12,233.0	39.84	344.42	12,188.1	5.5	-304.6	19.8	10.83	10.48	4.85	
12,327.0	51.12	347.32	12,253.9	70.4	-320.8	85.4	12.20	12.00	3.09	
12,422.0	64.36	350.88	12,304.6	149.2	-335.8	164.8	14.29	13.94	3.75	
12,516.0	70.86	355.22	12,340.4	235.4	-346.2	251.4	8.12	6.91	4.62	
12,610.0	86.98	358.73	12,358.4	327.2	-351.0	343.3	17.53	17.15	3.73	
12,704.0	85.55	1.95	12,364.5	421.0	-350.4	437.0	3.74	-1.52	3.43	
12,799.0	90.04	4.97	12,368.1	515.7	-344.7	531.3	5.69	4.73	3.18	
12,893.0	89.91	4.55	12,368.2	609.3	-336.9	624.5	0.47	-0.14	-0.45	
12,988.0	89.50	4.27	12,368.7	704.1	-329.6	718.8	0.52	-0.43	-0.29	
13,082.0	91.30	4.86	12,368.0	797.8	-322.1	812.0	2.02	1.91	0.63	
13,176.0	89.36	357.34	12,367.5	891.7	-320.3	905.7	8.26	-2.06	-8.00	
13,271.0	91.60	357.64	12,366.7	986.6	-324.5	1,000.7	2.38	2.36	0.32	
13,365.0	89.65	2.36	12,365.7	1,080.5	-324.5	1,094.6	5.43	-2.07	5.02	
13,459.0	87.91	5.76	12,367.7	1,174.3	-317.8	1,187.9	4.06	-1.85	3.62	
13,554.0	86.76	1.37	12,372.1	1,268.9	-311.9	1,282.2	4.77	-1.21	-4.62	
13,648.0	87.53	358.61	12,376.8	1,362.8	-311.9	1,376.0	3.04	0.82	-2.94	
13,742.0	88.27	356.33	12,380.2	1,456.7	-316.1	1,469.9	2.55	0.79	-2.43	
13,836.0	85.83	356.48	12,385.0	1,550.3	-322.0	1,563.8	2.60	-2.60	0.16	
13,931.0	85.46	354.51	12,392.3	1,644.8	-329.4	1,658.4	2.10	-0.39	-2.07	

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
14,025.0	92.83	355.77	12,393.7	1,738.4	-337.4	1,752.3	7.95	7.84	1.34
14,120.0	89.42	354.79	12,391.8	1,833.0	-345.2	1,847.2	3.73	-3.59	-1.03
14,226.0	91.75	355.41	12,390.7	1,938.6	-354.2	1,953.1	2.27	2.20	0.58
14,320.0	92.62	357.03	12,387.1	2,032.3	-360.4	2,047.0	1.96	0.93	1.72
14,414.0	96.42	1.65	12,379.7	2,126.0	-361.5	2,140.6	6.35	4.04	4.91
14,508.0	96.75	3.01	12,368.9	2,219.3	-357.7	2,233.6	1.48	0.35	1.45
14,602.0	90.63	3.50	12,362.9	2,312.9	-352.4	2,326.9	6.53	-6.51	0.52
14,696.0	90.69	6.23	12,361.8	2,406.5	-344.4	2,420.1	2.90	0.06	2.90
14,789.0	88.85	3.91	12,362.2	2,499.2	-336.2	2,512.2	3.18	-1.98	-2.49
14,813.0	89.60	4.75	12,362.5	2,523.1	-334.4	2,536.0	4.69	3.13	3.50
14,852.0	90.46	5.45	12,362.5	2,561.9	-330.9	2,574.7	2.84	2.21	1.79
14,884.0	90.60	5.30	12,362.2	2,593.8	-327.9	2,606.3	0.64	0.44	-0.47
14,931.0	89.91	4.45	12,362.0	2,640.6	-323.9	2,652.9	2.33	-1.47	-1.81
14,978.0	89.22	3.82	12,362.3	2,687.5	-320.5	2,699.6	1.99	-1.47	-1.34
15,025.0	89.08	5.83	12,363.0	2,734.3	-316.6	2,746.2	4.29	-0.30	4.28
15,072.0	90.67	7.82	12,363.1	2,781.0	-311.0	2,792.5	5.42	3.38	4.23
15,119.0	89.39	8.53	12,363.1	2,827.5	-304.3	2,838.7	3.11	-2.72	1.51
15,166.0	88.03	6.47	12,364.2	2,874.1	-298.2	2,884.9	5.25	-2.89	-4.38
15,213.0	89.08	8.64	12,365.4	2,920.7	-292.0	2,931.2	5.13	2.23	4.62
15,260.0	88.81	6.05	12,366.2	2,967.3	-286.0	2,977.4	5.54	-0.57	-5.51
15,292.0	88.18	2.95	12,367.1	2,999.2	-283.5	3,009.2	9.88	-1.97	-9.69
15,323.0	87.09	359.74	12,368.3	3,030.1	-282.8	3,040.1	10.93	-3.52	-10.35
15,355.0	87.85	356.97	12,369.8	3,062.1	-283.7	3,072.0	8.97	2.38	-8.66
15,449.0	93.42	358.81	12,368.7	3,156.0	-287.1	3,166.0	6.24	5.93	1.96
15,480.0	91.30	357.33	12,367.4	3,186.9	-288.2	3,196.9	8.34	-6.84	-4.77
15,512.0	90.18	356.83	12,367.0	3,218.9	-289.8	3,228.9	3.83	-3.50	-1.56
15,544.0	87.65	354.64	12,367.6	3,250.8	-292.2	3,260.9	10.46	-7.91	-6.84
15,638.0	85.20	349.44	12,373.5	3,343.6	-305.2	3,354.3	6.11	-2.61	-5.53
15,733.0	92.82	349.19	12,375.1	3,436.9	-322.8	3,448.3	8.03	8.02	-0.26
15,827.0	92.14	350.85	12,371.1	3,529.4	-339.1	3,541.4	1.91	-0.72	1.77
15,890.0	91.56	352.30	12,369.0	3,591.7	-348.3	3,604.1	2.48	-0.92	2.30
15,922.0	90.52	354.94	12,368.5	3,623.5	-351.8	3,636.0	8.87	-3.25	8.25
16,016.0	89.83	358.33	12,368.2	3,717.3	-357.3	3,730.0	3.68	-0.73	3.61
16,110.0	87.97	359.84	12,370.0	3,811.3	-358.8	3,823.9	2.55	-1.98	1.61
16,204.0	89.08	1.27	12,372.4	3,905.2	-357.9	3,917.7	1.93	1.18	1.52
16,289.0	91.05	1.81	12,372.3	3,990.2	-355.7	4,002.5	2.40	2.32	0.64
16,392.0	92.76	2.60	12,368.9	4,093.1	-351.7	4,105.1	1.83	1.66	0.77
16,487.0	93.30	2.21	12,363.8	4,187.8	-347.7	4,199.6	0.70	0.57	-0.41
16,581.0	92.22	0.72	12,359.3	4,281.7	-345.3	4,293.2	1.96	-1.15	-1.59
16,675.0	91.39	359.56	12,356.4	4,375.6	-345.1	4,387.0	1.52	-0.88	-1.23
16,769.0	89.61	358.88	12,355.5	4,469.6	-346.4	4,481.0	2.03	-1.89	-0.72
16,864.0	89.47	358.84	12,356.3	4,564.6	-348.3	4,575.9	0.15	-0.15	-0.04
16,958.0	88.34	358.01	12,358.1	4,658.5	-350.8	4,669.9	1.49	-1.20	-0.88
17,052.0	89.61	358.52	12,359.8	4,752.5	-353.7	4,763.9	1.46	1.35	0.54

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
17,146.0	88.41	357.00	12,361.4	4,846.4	-357.4	4,857.8	2.06	-1.28	-1.62
17,240.0	89.73	359.71	12,362.9	4,940.3	-360.1	4,951.8	3.21	1.40	2.88
17,334.0	89.67	359.87	12,363.4	5,034.3	-360.4	5,045.7	0.18	-0.06	0.17
17,428.0	91.63	1.51	12,362.4	5,128.3	-359.3	5,139.5	2.72	2.09	1.74
17,522.0	92.10	1.32	12,359.3	5,222.2	-356.9	5,233.2	0.54	0.50	-0.20
17,616.0	92.92	1.60	12,355.2	5,316.1	-354.6	5,326.9	0.92	0.87	0.30
17,711.0	90.30	0.36	12,352.5	5,411.0	-352.9	5,421.7	3.05	-2.76	-1.31
17,805.0	91.69	1.46	12,350.9	5,505.0	-351.4	5,515.5	1.89	1.48	1.17
17,900.0	91.49	0.35	12,348.2	5,600.0	-349.9	5,610.2	1.19	-0.21	-1.17
17,993.0	89.39	359.78	12,347.5	5,693.0	-349.8	5,703.1	2.34	-2.26	-0.61
18,087.0	88.54	359.06	12,349.2	5,786.9	-350.8	5,797.0	1.18	-0.90	-0.77
18,182.0	88.58	358.97	12,351.6	5,881.9	-352.4	5,892.0	0.10	0.04	-0.09
18,276.0	89.90	359.44	12,352.9	5,975.9	-353.7	5,985.9	1.49	1.40	0.50
18,371.0	90.21	0.23	12,352.8	6,070.9	-354.0	6,080.8	0.89	0.33	0.83
18,465.0	91.22	0.42	12,351.6	6,164.9	-353.5	6,174.7	1.09	1.07	0.20
18,559.0	89.00	0.06	12,351.4	6,258.9	-353.1	6,268.5	2.39	-2.36	-0.38
18,654.0	88.72	359.93	12,353.3	6,353.8	-353.1	6,363.4	0.32	-0.29	-0.14
18,747.0	89.09	359.78	12,355.1	6,446.8	-353.3	6,456.3	0.43	0.40	-0.16
18,842.0	89.27	0.07	12,356.4	6,541.8	-353.4	6,551.2	0.36	0.19	0.31
18,937.0	89.41	359.94	12,357.5	6,636.8	-353.4	6,646.1	0.20	0.15	-0.14
19,031.0	88.48	359.32	12,359.3	6,730.8	-354.0	6,740.0	1.19	-0.99	-0.66
19,125.0	88.62	359.11	12,361.6	6,824.7	-355.3	6,833.9	0.27	0.15	-0.22
19,218.0	90.38	359.58	12,362.5	6,917.7	-356.4	6,926.8	1.96	1.89	0.51
19,313.0	90.48	359.44	12,361.7	7,012.7	-357.2	7,021.8	0.18	0.11	-0.15
19,407.0	88.67	357.13	12,362.4	7,106.7	-360.0	7,115.7	3.12	-1.93	-2.46
19,501.0	90.20	357.09	12,363.4	7,200.5	-364.7	7,209.7	1.63	1.63	-0.04
19,595.0	91.39	1.43	12,362.1	7,294.5	-366.0	7,303.6	4.79	1.27	4.62
19,689.0	91.26	0.86	12,359.9	7,388.5	-364.1	7,397.4	0.62	-0.14	-0.61
19,784.0	91.35	0.62	12,357.7	7,483.4	-362.9	7,492.2	0.27	0.09	-0.25
19,877.0	91.31	0.64	12,355.6	7,576.4	-361.8	7,585.0	0.05	-0.04	0.02
19,905.0	91.92	0.79	12,354.8	7,604.4	-361.5	7,613.0	2.24	2.18	0.54
LAST MWD @ 19905'MD									
19,912.6	91.92	0.79	12,354.5	7,612.0	-361.4	7,620.6	0.00	0.00	0.00
LTP @ 19912.6'MD									
19,962.0	91.92	0.79	12,352.9	7,661.3	-360.7	7,669.8	0.00	0.00	0.00
PTD @ 19962'MD									

Concho Resources LLC

Survey Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well EIDER FEDERAL 305H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Site:	EIDER FEDERAL PROJECT (BULLDOG 2434)	MD Reference:	KB=30' @ 3559.9usft (SCAN QUEST)
Well:	EIDER FEDERAL 305H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	Database:	edm

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
PBHL (EIDER FEDEF - actual wellpath misses target center by 19.0usft at 19961.5usft MD (12352.9 TVD, 7660.8 N, -360.7 E) - Rectangle (sides W100.0 H7,775.0 D20.0)	0.08	179.71	12,360.0	7,661.3	-378.3	432,924.10	712,972.10	32° 11' 18.066 N	103° 38' 41.680 W
LTP (EIDER FEDERA - actual wellpath misses target center by 17.5usft at 19911.5usft MD (12354.6 TVD, 7610.9 N, -361.4 E) - Point	0.00	0.00	12,360.0	7,611.3	-378.0	432,874.10	712,972.40	32° 11' 17.571 N	103° 38' 41.680 W
FTP (EIDER FEDERA - actual wellpath misses target center by 232.0usft at 12304.9usft MD (12239.7 TVD, 54.0 N, -317.0 E) - Circle (radius 50.0)	0.00	0.01	12,399.0	-113.2	-339.5	425,149.60	713,010.90	32° 10' 1.129 N	103° 38' 41.807 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,905.0	12,354.8	7,604.4	-361.5	LAST MWD @ 19905'MD
19,912.6	12,354.5	7,612.0	-361.4	LTP @ 19912.6'MD
19,962.0	12,352.9	7,661.3	-360.7	PTD @ 19962'MD

Checked By: _____ Approved By: _____ Date: _____

Well Name	Well Number	Top MD	Form Alias
EIDER FEDERAL	305H	982	RSLR
EIDER FEDERAL	305H	1309	TOS
EIDER FEDERAL	305H	4633	BOS
EIDER FEDERAL	305H	4864	LMAR
EIDER FEDERAL	305H	5829	CYCN
EIDER FEDERAL	305H	7199	BYCN
EIDER FEDERAL	305H	8833	BSGL
EIDER FEDERAL	305H	9923	FBSG
EIDER FEDERAL	305H	10460	SBSG
EIDER FEDERAL	305H	11797	TBSG
EIDER FEDERAL	305H	12292	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 305H2. Name of Operator
COG PRODUCTION LLCContact: AMANDA AVERY
E-Mail: aavery@concho.com9. API Well No.
30-025-44882-00-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 2290FEL
32.167412 N Lat, 103.644325 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 recompleat 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 @ 19,878' and test csg to 11,200#. Good test.

10/16/20 to 10/31/20 Perf 12,519-19,853' (1110). Acdz w/ 37,296 gal 7 1/2%; frac w/18,586,635# sand & 14,712,390 gal fluid.

11/2/20 to 11/3/20 Drilled out CFP's. Clean down to PBTD @ 19,878'.

11/10/20 to 11/11/20 Set 2 7/8" 6.5# L-80 tbg @ 11,455' packer @ 11,445'. Installed gas lift system.

11/25/20 Began flowing back & testing and date of first production

KZ

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

Electronic Submission #540016 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 (21PP0802SE)

Name (Printed/Typed) AMANDA AVERY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/08/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved 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 #540016 that would not fit on the form

32. Additional remarks, continued

Revisions to Operator-Submitted EC Data for Sundry Notice #540016

	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 305H Sec 35 T24S R32E Mer NMP 210FSL 2290FEL	EIDER FEDERAL 305H Sec 35 T24S R32E SWSE 210FSL 2290FEL 32.167412 N Lat, 103.644325 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 12172

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
COG OPERATING LLC 600 W Illinois Ave Midland, TX79701			229137	12172	C-104C
OCD Reviewer	Condition				
pkautz	IF A WELL HAS A NSL ORDER, MUST INCLUDE ORDER NUMBER IN THE BOX TITLED ORDER NUMBER ON THE C-102. ALSO NSL ORDER SHOULD BE INCLUDED ON FRONT OF C-104				