

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

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 Operating 600 West Illinois Ave. Midland, TX 79701		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW/3.3.2022
⁴ API Number 30-015-47347	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 331072	⁸ Property Name Boo Radley Federal Com	⁹ Well Number 701H

II. ¹⁰ Surface Location

UL or lot no. O	Section 16	Township 26S	Range 28E	Lot Idn	Feet from the 200	North/South Line S	Feet from the 1490	East/West line E	County EDDY
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¹¹ Bottom Hole Location

UL or lot no. 4	Section 33	Township 26S	Range 28E	Lot Idn	Feet from the 197	North/South line S	Feet from the 368	East/West line E	County EDDY
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3/3/2022	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

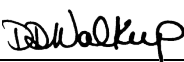
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371058	ETC Field Services LLC 8111 Westchester Drive, Suite 600 Dallas, TX 75225	G
214984	Plains Marketing & Transportation P.O.BOX 4648 Houston, TX 77210-4648	O

IV. Well Completion Data

²¹ Spud Date 2/25/2021	²² Ready Date 3/3/2022	²³ TD 22053	²⁴ PBTD 21895	²⁵ Perforations 9510-21856	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
14.75		10.75	612		1039 SKS
9.625		7.675	8786		800 SKS
6.75		5.5	22035		1400 SKS
Tubing		2.875	9102		

V. Well Test Data

³¹ Date New Oil 3/3/2022	³² Gas Delivery Date 3/3/2022	³³ Test Date 3/3/2022	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 1642	³⁶ Csg. Pressure 232
³⁷ Choke Size 17/64	³⁸ Oil 171	³⁹ Water 2762	⁴⁰ Gas 619		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: 			OIL CONSERVATION DIVISION		
Printed name: Danielle D. Walkup			Approved by:		
Title: Regulatory Coordinator			Title:		
E-mail Address: d.d.walkup@conocophillips.com			Approval Date:		
Date: 9/7/2022		Phone: 432-688-9053			

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

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

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

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

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-47347		Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 331072	Property Name BOO RADLEY FEDERAL COM		Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 2993.9'

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	16	26-S	28-E		200	SOUTH	1490	EAST	EDDY

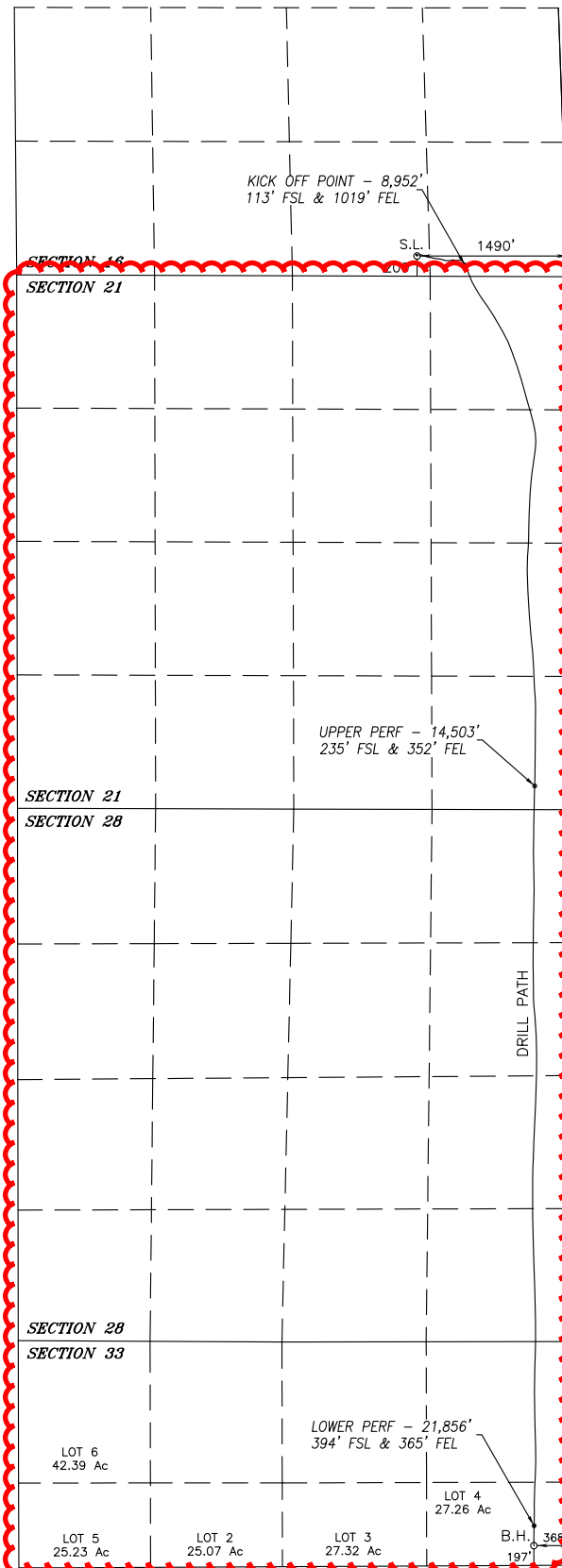
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	33	26-S	28-E		197	SOUTH	368	EAST	EDDY
Dedicated Acres 1538.88	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

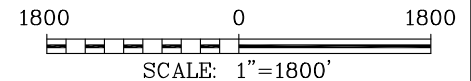
SEE PAGE 2

Property Code 331072	Property Name BOO RADLEY FEDERAL COM	Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2993.9'



NAD 83 NME
SURFACE LOCATION
Y=376827.7 N
X=617301.3 E
LAT.=32.035742° N
LONG.=104.088185° W

SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE BOO RADLEY FEDERAL COM 701H SUPPLIED TO HARCROW SURVEYING, LLC ON DECEMBER 28, 2021.



OPERATOR CERTIFICATION

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

D. D. Walkup

4/12/2022

Signature

Date

Danielle D Walkup

Printed Name

d.d.walkup@conocophillips.com

E-mail Address

SURVEYOR CERTIFICATION

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

JULY 17, 2020/MAY 10, 2021

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow

1/4/22

Certificate No. CHAD HARCROW 17777

PAGE 2 OF 2

W.O. #21-1114

DRAWN BY: WN

Intent ☐ As Drilled ☐

API # 30-015-47347		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

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

First Take Point (FTP)

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

Last Take Point (LTP)

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

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

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

API #		
Operator Name: COG Operations, LLC	Property Name: Boo Radley Federal Com	Well Number 704H

KZ 06/29/2018

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #701H**

OWB

Design: AWP

Standard Survey Report

10 May, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Project	ATLAS PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	BOO RADLEY COM #701H, ACTIVE				
Well Position	+N/-S	0.0 usft	Northing:	376,770.40 usft	Latitude: 32° 2' 8.226 N
	+E/-W	0.0 usft	Easting:	576,116.50 usft	Longitude: 104° 5' 15.710 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 2,993.9 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/28/2021	6.81	59.66	47,370.87200551

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	174.66	

Survey Program	Date	5/10/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,738.0	GYRO-INTER (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	
8,801.0	22,053.0	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	0.23	354.63	100.0	0.2	0.0	-0.2	0.23	0.23	0.00	
125.0	0.29	344.55	125.0	0.3	0.0	-0.3	0.30	0.24	-40.32	
150.0	0.26	320.88	150.0	0.4	-0.1	-0.4	0.47	-0.12	-94.68	
175.0	0.37	333.79	175.0	0.5	-0.2	-0.5	0.52	0.44	51.64	
200.0	0.32	343.98	200.0	0.7	-0.2	-0.7	0.32	-0.20	40.76	
225.0	0.45	332.39	225.0	0.8	-0.3	-0.8	0.60	0.52	-46.36	
250.0	0.53	333.83	250.0	1.0	-0.4	-1.0	0.32	0.32	5.76	
275.0	0.56	331.66	275.0	1.2	-0.5	-1.3	0.15	0.12	-8.68	
300.0	0.74	345.20	300.0	1.5	-0.6	-1.5	0.94	0.72	54.16	
325.0	0.82	344.98	325.0	1.8	-0.7	-1.9	0.32	0.32	-0.88	
350.0	0.95	335.55	350.0	2.2	-0.8	-2.2	0.78	0.52	-37.72	
375.0	0.90	321.74	375.0	2.5	-1.0	-2.6	0.91	-0.20	-55.24	
400.0	0.96	317.83	400.0	2.8	-1.3	-2.9	0.35	0.24	-15.64	
425.0	0.88	313.44	425.0	3.1	-1.6	-3.3	0.43	-0.32	-17.56	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)
450.0	1.01	322.72	450.0	3.4	-1.8	-3.6	0.80	0.52	37.12
475.0	1.13	328.49	475.0	3.8	-2.1	-4.0	0.64	0.48	23.08
500.0	1.27	329.49	500.0	4.3	-2.4	-4.5	0.57	0.56	4.00
525.0	1.37	325.59	525.0	4.7	-2.7	-5.0	0.54	0.40	-15.60
550.0	1.59	315.29	550.0	5.2	-3.1	-5.5	1.38	0.88	-41.20
575.0	1.59	306.99	574.9	5.7	-3.6	-6.0	0.92	0.00	-33.20
600.0	1.55	312.46	599.9	6.1	-4.1	-6.5	0.62	-0.16	21.88
625.0	1.55	316.87	624.9	6.6	-4.6	-7.0	0.48	0.00	17.64
650.0	1.76	312.38	649.9	7.1	-5.1	-7.6	0.99	0.84	-17.96
675.0	1.69	308.27	674.9	7.6	-5.7	-8.1	0.57	-0.28	-16.44
700.0	1.62	308.61	699.9	8.0	-6.3	-8.6	0.28	-0.28	1.36
725.0	1.82	314.14	724.9	8.5	-6.8	-9.1	1.04	0.80	22.12
750.0	1.81	310.95	749.9	9.1	-7.4	-9.7	0.41	-0.04	-12.76
775.0	1.58	308.25	774.9	9.6	-8.0	-10.3	0.97	-0.92	-10.80
800.0	1.60	313.77	799.8	10.0	-8.5	-10.8	0.62	0.08	22.08
825.0	1.73	307.64	824.8	10.5	-9.1	-11.3	0.88	0.52	-24.52
850.0	1.42	301.13	849.8	10.9	-9.6	-11.7	1.43	-1.24	-26.04
875.0	0.33	216.45	874.8	11.0	-9.9	-11.9	5.71	-4.36	-338.72
900.0	1.12	148.00	899.8	10.7	-9.8	-11.6	4.18	3.16	-273.80
925.0	1.22	148.76	924.8	10.3	-9.6	-11.1	0.40	0.40	3.04
950.0	1.30	142.48	949.8	9.8	-9.3	-10.6	0.64	0.32	-25.12
975.0	1.29	148.07	974.8	9.4	-8.9	-10.1	0.51	-0.04	22.36
1,000.0	1.24	138.18	999.8	8.9	-8.6	-9.7	0.89	-0.20	-39.56
1,025.0	1.11	156.23	1,024.8	8.5	-8.3	-9.2	1.56	-0.52	72.20
1,050.0	1.35	151.84	1,049.8	8.0	-8.1	-8.7	1.03	0.96	-17.56
1,075.0	1.35	146.89	1,074.8	7.5	-7.8	-8.2	0.47	0.00	-19.80
1,100.0	1.20	146.23	1,099.8	7.0	-7.5	-7.7	0.60	-0.60	-2.64
1,125.0	1.35	148.21	1,124.8	6.6	-7.2	-7.2	0.63	0.60	7.92
1,150.0	1.23	153.27	1,149.8	6.1	-6.9	-6.7	0.66	-0.48	20.24
1,175.0	1.21	144.86	1,174.8	5.6	-6.6	-6.2	0.72	-0.08	-33.64
1,200.0	0.93	143.78	1,199.8	5.2	-6.4	-5.8	1.12	-1.12	-4.32
1,225.0	1.02	119.47	1,224.7	5.0	-6.1	-5.5	1.68	0.36	-97.24
1,250.0	0.82	99.88	1,249.7	4.8	-5.7	-5.3	1.48	-0.80	-78.36
1,275.0	0.89	73.17	1,274.7	4.9	-5.3	-5.3	1.60	0.28	-106.84
1,300.0	0.77	68.53	1,299.7	5.0	-5.0	-5.4	0.55	-0.48	-18.56
1,325.0	1.01	65.02	1,324.7	5.1	-4.6	-5.5	0.98	0.96	-14.04
1,350.0	0.99	56.61	1,349.7	5.3	-4.2	-5.7	0.59	-0.08	-33.64
1,375.0	0.95	50.60	1,374.7	5.6	-3.9	-5.9	0.44	-0.16	-24.04
1,400.0	1.41	42.28	1,399.7	6.0	-3.5	-6.3	1.96	1.84	-33.28
1,425.0	1.22	34.98	1,424.7	6.4	-3.2	-6.7	1.01	-0.76	-29.20
1,450.0	1.57	39.86	1,449.7	6.9	-2.8	-7.1	1.48	1.40	19.52
1,475.0	1.89	29.37	1,474.7	7.5	-2.4	-7.7	1.80	1.28	-41.96
1,500.0	1.82	28.72	1,499.7	8.2	-2.0	-8.4	0.29	-0.28	-2.60

ConocoPhillips

Survey Report



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Well:	BOO RADLEY COM #701H	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)	
1,525.0	1.71	32.29	1,524.7	8.9	-1.6	-9.0	0.62	-0.44	14.28	
1,550.0	1.87	29.31	1,549.7	9.5	-1.2	-9.6	0.74	0.64	-11.92	
1,575.0	1.77	13.78	1,574.6	10.3	-0.9	-10.3	2.01	-0.40	-62.12	
1,600.0	1.82	7.63	1,599.6	11.0	-0.8	-11.1	0.80	0.20	-24.60	
1,625.0	1.55	357.66	1,624.6	11.8	-0.7	-11.8	1.59	-1.08	-39.88	
1,650.0	1.40	357.41	1,649.6	12.4	-0.8	-12.4	0.60	-0.60	-1.00	
1,675.0	0.60	330.03	1,674.6	12.8	-0.8	-12.9	3.64	-3.20	-109.52	
1,700.0	0.49	243.27	1,699.6	12.9	-1.0	-12.9	3.01	-0.44	-347.04	
1,725.0	0.71	238.40	1,724.6	12.8	-1.2	-12.8	0.90	0.88	-19.48	
1,750.0	0.97	247.37	1,749.6	12.6	-1.5	-12.7	1.16	1.04	35.88	
1,775.0	1.27	255.45	1,774.6	12.5	-2.0	-12.6	1.35	1.20	32.32	
1,800.0	1.49	257.17	1,799.6	12.3	-2.6	-12.5	0.90	0.88	6.88	
1,825.0	1.83	259.00	1,824.6	12.2	-3.3	-12.4	1.38	1.36	7.32	
1,850.0	2.41	261.31	1,849.6	12.0	-4.2	-12.4	2.34	2.32	9.24	
1,875.0	2.38	263.39	1,874.5	11.9	-5.3	-12.3	0.37	-0.12	8.32	
1,900.0	2.42	270.15	1,899.5	11.8	-6.3	-12.4	1.14	0.16	27.04	
1,925.0	2.32	266.30	1,924.5	11.8	-7.3	-12.4	0.75	-0.40	-15.40	
1,950.0	1.93	267.81	1,949.5	11.7	-8.3	-12.5	1.58	-1.56	6.04	
1,975.0	1.32	267.71	1,974.5	11.7	-9.0	-12.5	2.44	-2.44	-0.40	
2,000.0	0.86	270.98	1,999.5	11.7	-9.4	-12.5	1.86	-1.84	13.08	
2,025.0	1.06	271.47	2,024.5	11.7	-9.9	-12.6	0.80	0.80	1.96	
2,050.0	0.89	274.16	2,049.5	11.7	-10.3	-12.6	0.70	-0.68	10.76	
2,075.0	1.16	263.13	2,074.5	11.7	-10.7	-12.7	1.33	1.08	-44.12	
2,100.0	1.17	271.04	2,099.5	11.7	-11.2	-12.7	0.64	0.04	31.64	
2,125.0	0.74	258.76	2,124.5	11.7	-11.6	-12.7	1.90	-1.72	-49.12	
2,150.0	0.16	232.76	2,149.5	11.6	-11.8	-12.7	2.40	-2.32	-104.00	
2,175.0	0.28	98.82	2,174.5	11.6	-11.8	-12.6	1.63	0.48	-535.76	
2,200.0	0.29	126.21	2,199.5	11.5	-11.7	-12.6	0.54	0.04	109.56	
2,225.0	0.73	104.82	2,224.4	11.5	-11.5	-12.5	1.89	1.76	-85.56	
2,250.0	0.83	105.01	2,249.4	11.4	-11.2	-12.4	0.40	0.40	0.76	
2,275.0	0.84	99.21	2,274.4	11.3	-10.8	-12.2	0.34	0.04	-23.20	
2,300.0	1.07	113.91	2,299.4	11.2	-10.4	-12.1	1.34	0.92	58.80	
2,325.0	2.28	90.16	2,324.4	11.1	-9.7	-11.9	5.48	4.84	-95.00	
2,350.0	3.52	94.21	2,349.4	11.0	-8.4	-11.7	5.02	4.96	16.20	
2,375.0	3.47	93.29	2,374.4	10.9	-6.9	-11.5	0.30	-0.20	-3.68	
2,400.0	3.44	94.28	2,399.3	10.8	-5.4	-11.3	0.27	-0.12	3.96	
2,425.0	3.41	94.01	2,424.3	10.7	-3.9	-11.0	0.14	-0.12	-1.08	
2,450.0	3.59	93.43	2,449.2	10.6	-2.4	-10.8	0.73	0.72	-2.32	
2,475.0	3.29	91.08	2,474.2	10.5	-0.9	-10.6	1.33	-1.20	-9.40	
2,500.0	3.21	94.33	2,499.1	10.5	0.5	-10.4	0.80	-0.32	13.00	
2,525.0	3.15	92.82	2,524.1	10.4	1.9	-10.2	0.41	-0.24	-6.04	
2,550.0	3.14	94.11	2,549.1	10.3	3.3	-10.0	0.29	-0.04	5.16	
2,575.0	3.28	94.35	2,574.0	10.2	4.7	-9.7	0.56	0.56	0.96	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)
2,600.0	3.36	93.81	2,599.0	10.1	6.1	-9.5	0.34	0.32	-2.16
2,625.0	3.64	92.66	2,623.9	10.0	7.6	-9.3	1.15	1.12	-4.60
2,650.0	4.79	89.32	2,648.9	10.0	9.5	-9.1	4.70	4.60	-13.36
2,675.0	5.32	88.13	2,673.8	10.0	11.7	-8.9	2.16	2.12	-4.76
2,700.0	5.46	88.06	2,698.6	10.1	14.0	-8.8	0.56	0.56	-0.28
2,725.0	5.43	86.46	2,723.5	10.2	16.4	-8.7	0.62	-0.12	-6.40
2,750.0	5.53	87.36	2,748.4	10.4	18.8	-8.6	0.53	0.40	3.60
2,775.0	5.49	86.74	2,773.3	10.5	21.2	-8.5	0.29	-0.16	-2.48
2,800.0	5.38	85.43	2,798.2	10.6	23.5	-8.4	0.66	-0.44	-5.24
2,825.0	5.48	86.41	2,823.1	10.8	25.9	-8.4	0.55	0.40	3.92
2,850.0	5.48	85.21	2,848.0	11.0	28.3	-8.3	0.46	0.00	-4.80
2,875.0	5.41	84.56	2,872.9	11.2	30.6	-8.3	0.37	-0.28	-2.60
2,900.0	5.54	86.58	2,897.7	11.4	33.0	-8.3	0.93	0.52	8.08
2,925.0	5.71	88.14	2,922.6	11.5	35.5	-8.1	0.91	0.68	6.24
2,950.0	5.73	87.70	2,947.5	11.6	38.0	-8.0	0.19	0.08	-1.76
2,975.0	5.63	87.26	2,972.4	11.7	40.4	-7.9	0.44	-0.40	-1.76
3,000.0	5.44	95.35	2,997.3	11.6	42.8	-7.6	3.21	-0.76	32.36
3,025.0	5.33	106.68	3,022.1	11.2	45.1	-7.0	4.27	-0.44	45.32
3,050.0	5.42	106.85	3,047.0	10.5	47.4	-6.1	0.37	0.36	0.68
3,075.0	5.41	109.00	3,071.9	9.8	49.6	-5.1	0.81	-0.04	8.60
3,100.0	5.47	108.34	3,096.8	9.0	51.9	-4.2	0.35	0.24	-2.64
3,125.0	5.23	107.76	3,121.7	8.3	54.1	-3.2	0.98	-0.96	-2.32
3,150.0	5.32	108.08	3,146.6	7.6	56.3	-2.3	0.38	0.36	1.28
3,175.0	5.23	108.75	3,171.5	6.9	58.4	-1.4	0.44	-0.36	2.68
3,200.0	5.08	106.96	3,196.4	6.2	60.6	-0.5	0.88	-0.60	-7.16
3,225.0	4.89	106.83	3,221.3	5.6	62.7	0.3	0.76	-0.76	-0.52
3,250.0	4.82	106.75	3,246.2	5.0	64.7	1.1	0.28	-0.28	-0.32
3,275.0	4.72	104.64	3,271.1	4.4	66.7	1.8	0.81	-0.40	-8.44
3,300.0	4.69	106.08	3,296.0	3.8	68.7	2.6	0.49	-0.12	5.76
3,325.0	4.70	105.21	3,321.0	3.3	70.6	3.3	0.29	0.04	-3.48
3,350.0	4.68	104.64	3,345.9	2.8	72.6	4.0	0.20	-0.08	-2.28
3,375.0	4.80	107.13	3,370.8	2.2	74.6	4.8	0.95	0.48	9.96
3,400.0	5.00	111.07	3,395.7	1.5	76.6	5.6	1.57	0.80	15.76
3,425.0	5.07	108.42	3,420.6	0.8	78.7	6.6	0.97	0.28	-10.60
3,450.0	5.08	109.74	3,445.5	0.0	80.8	7.5	0.47	0.04	5.28
3,475.0	5.00	109.31	3,470.4	-0.7	82.8	8.4	0.35	-0.32	-1.72
3,500.0	4.99	109.73	3,495.3	-1.4	84.9	9.3	0.15	-0.04	1.68
3,525.0	5.01	109.59	3,520.2	-2.2	86.9	10.2	0.09	0.08	-0.56
3,550.0	5.83	109.54	3,545.1	-2.9	89.2	11.2	3.28	3.28	-0.20
3,575.0	6.78	108.90	3,569.9	-3.8	91.8	12.4	3.81	3.80	-2.56
3,600.0	6.94	108.62	3,594.8	-4.8	94.6	13.6	0.65	0.64	-1.12
3,625.0	7.07	107.50	3,619.6	-5.8	97.5	14.8	0.75	0.52	-4.48
3,650.0	7.13	107.27	3,644.4	-6.7	100.4	16.0	0.27	0.24	-0.92
3,675.0	7.18	105.76	3,669.2	-7.6	103.4	17.2	0.78	0.20	-6.04

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)
3,700.0	7.04	105.23	3,694.0	-8.4	106.4	18.3	0.62	-0.56	-2.12
3,725.0	6.86	105.32	3,718.8	-9.2	109.3	19.3	0.72	-0.72	0.36
3,750.0	6.92	104.64	3,743.6	-10.0	112.2	20.4	0.41	0.24	-2.72
3,775.0	6.77	104.05	3,768.5	-10.7	115.1	21.4	0.66	-0.60	-2.36
3,800.0	6.77	104.42	3,793.3	-11.4	118.0	22.4	0.17	0.00	1.48
3,825.0	6.56	103.12	3,818.1	-12.1	120.8	23.3	1.03	-0.84	-5.20
3,850.0	6.53	103.41	3,843.0	-12.8	123.5	24.2	0.18	-0.12	1.16
3,875.0	6.57	104.20	3,867.8	-13.4	126.3	25.2	0.39	0.16	3.16
3,900.0	6.52	101.94	3,892.6	-14.1	129.1	26.1	1.05	-0.20	-9.04
3,925.0	6.19	102.19	3,917.5	-14.7	131.8	26.9	1.32	-1.32	1.00
3,950.0	6.09	104.53	3,942.3	-15.3	134.4	27.7	1.08	-0.40	9.36
3,975.0	6.26	102.81	3,967.2	-15.9	137.0	28.6	1.00	0.68	-6.88
4,000.0	6.24	101.64	3,992.0	-16.5	139.7	29.4	0.52	-0.08	-4.68
4,025.0	5.84	102.86	4,016.9	-17.1	142.2	30.2	1.68	-1.60	4.88
4,050.0	5.89	103.91	4,041.8	-17.6	144.7	31.0	0.47	0.20	4.20
4,075.0	5.71	103.16	4,066.6	-18.2	147.2	31.9	0.78	-0.72	-3.00
4,100.0	5.51	102.43	4,091.5	-18.8	149.6	32.6	0.85	-0.80	-2.92
4,125.0	5.25	101.67	4,116.4	-19.3	151.9	33.3	1.08	-1.04	-3.04
4,150.0	5.28	103.50	4,141.3	-19.8	154.1	34.0	0.68	0.12	7.32
4,175.0	5.11	100.19	4,166.2	-20.2	156.3	34.7	1.38	-0.68	-13.24
4,200.0	5.20	102.60	4,191.1	-20.7	158.5	35.4	0.94	0.36	9.64
4,225.0	5.02	101.79	4,216.0	-21.1	160.7	36.0	0.78	-0.72	-3.24
4,250.0	5.00	100.69	4,240.9	-21.6	162.8	36.6	0.39	-0.08	-4.40
4,275.0	4.81	99.19	4,265.8	-21.9	164.9	37.2	0.92	-0.76	-6.00
4,300.0	4.85	99.44	4,290.7	-22.3	167.0	37.7	0.18	0.16	1.00
4,325.0	4.90	101.53	4,315.6	-22.7	169.1	38.3	0.74	0.20	8.36
4,350.0	4.90	100.61	4,340.5	-23.1	171.2	38.9	0.31	0.00	-3.68
4,375.0	5.05	96.57	4,365.5	-23.4	173.3	39.4	1.52	0.60	-16.16
4,400.0	5.20	95.06	4,390.4	-23.6	175.6	39.9	0.81	0.60	-6.04
4,425.0	5.16	94.71	4,415.2	-23.8	177.8	40.3	0.20	-0.16	-1.40
4,450.0	5.11	94.29	4,440.1	-24.0	180.0	40.7	0.25	-0.20	-1.68
4,475.0	5.18	92.52	4,465.0	-24.1	182.3	41.0	0.69	0.28	-7.08
4,500.0	5.03	94.18	4,489.9	-24.3	184.5	41.3	0.84	-0.60	6.64
4,525.0	4.87	94.97	4,514.9	-24.4	186.6	41.7	0.70	-0.64	3.16
4,550.0	4.84	94.77	4,539.8	-24.6	188.8	42.1	0.14	-0.12	-0.80
4,575.0	4.70	96.24	4,564.7	-24.8	190.8	42.5	0.74	-0.56	5.88
4,600.0	4.78	95.24	4,589.6	-25.0	192.9	42.9	0.46	0.32	-4.00
4,625.0	4.84	98.69	4,614.5	-25.3	195.0	43.3	1.18	0.24	13.80
4,650.0	4.68	94.14	4,639.4	-25.5	197.0	43.7	1.64	-0.64	-18.20
4,675.0	4.45	96.84	4,664.3	-25.7	199.0	44.1	1.26	-0.92	10.80
4,700.0	4.56	99.27	4,689.3	-26.0	200.9	44.6	0.88	0.44	9.72
4,725.0	4.60	97.43	4,714.2	-26.3	202.9	45.0	0.61	0.16	-7.36
4,750.0	4.52	95.74	4,739.1	-26.5	204.9	45.5	0.63	-0.32	-6.76

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)	
4,775.0	4.29	100.83	4,764.0	-26.8	206.8	45.9	1.81	-0.92	20.36	
4,800.0	4.16	102.66	4,789.0	-27.1	208.6	46.4	0.75	-0.52	7.32	
4,825.0	4.33	101.78	4,813.9	-27.5	210.4	47.0	0.73	0.68	-3.52	
4,850.0	4.12	100.89	4,838.8	-27.9	212.2	47.5	0.88	-0.84	-3.56	
4,875.0	4.22	99.58	4,863.8	-28.2	214.0	48.0	0.55	0.40	-5.24	
4,900.0	4.11	102.20	4,888.7	-28.6	215.8	48.5	0.88	-0.44	10.48	
4,925.0	4.26	101.71	4,913.6	-28.9	217.6	49.1	0.62	0.60	-1.96	
4,950.0	4.13	100.70	4,938.6	-29.3	219.4	49.6	0.60	-0.52	-4.04	
4,975.0	4.38	100.03	4,963.5	-29.6	221.2	50.1	1.02	1.00	-2.68	
5,000.0	4.30	98.20	4,988.4	-29.9	223.1	50.6	0.64	-0.32	-7.32	
5,025.0	4.28	100.81	5,013.3	-30.2	224.9	51.0	0.78	-0.08	10.44	
5,050.0	4.27	98.95	5,038.3	-30.6	226.7	51.5	0.56	-0.04	-7.44	
5,075.0	4.10	98.97	5,063.2	-30.8	228.5	52.0	0.68	-0.68	0.08	
5,100.0	4.02	98.81	5,088.1	-31.1	230.3	52.4	0.32	-0.32	-0.64	
5,125.0	3.93	102.18	5,113.1	-31.4	232.0	52.9	1.00	-0.36	13.48	
5,150.0	3.82	101.02	5,138.0	-31.8	233.6	53.4	0.54	-0.44	-4.64	
5,175.0	3.92	98.50	5,163.0	-32.0	235.3	53.8	0.79	0.40	-10.08	
5,200.0	4.00	101.92	5,187.9	-32.4	237.0	54.3	1.00	0.32	13.68	
5,225.0	4.07	101.06	5,212.9	-32.7	238.7	54.8	0.37	0.28	-3.44	
5,250.0	4.11	103.28	5,237.8	-33.1	240.5	55.3	0.65	0.16	8.88	
5,275.0	4.19	104.31	5,262.7	-33.5	242.2	55.9	0.44	0.32	4.12	
5,300.0	4.64	105.88	5,287.7	-34.0	244.1	56.6	1.86	1.80	6.28	
5,325.0	4.78	107.41	5,312.6	-34.6	246.0	57.4	0.75	0.56	6.12	
5,350.0	4.70	107.05	5,337.5	-35.2	248.0	58.2	0.34	-0.32	-1.44	
5,375.0	5.03	107.11	5,362.4	-35.8	250.0	59.0	1.32	1.32	0.24	
5,400.0	4.95	105.59	5,387.3	-36.5	252.1	59.8	0.62	-0.32	-6.08	
5,425.0	4.87	106.05	5,412.2	-37.0	254.2	60.5	0.36	-0.32	1.84	
5,450.0	4.77	103.75	5,437.1	-37.6	256.2	61.3	0.87	-0.40	-9.20	
5,475.0	4.63	106.25	5,462.0	-38.1	258.2	62.0	0.99	-0.56	10.00	
5,500.0	4.76	107.30	5,486.9	-38.7	260.2	62.8	0.62	0.52	4.20	
5,525.0	4.80	104.52	5,511.9	-39.3	262.2	63.5	0.94	0.16	-11.12	
5,550.0	4.71	105.62	5,536.8	-39.8	264.2	64.2	0.51	-0.36	4.40	
5,575.0	4.69	105.95	5,561.7	-40.4	266.1	65.0	0.13	-0.08	1.32	
5,600.0	4.82	105.05	5,586.6	-40.9	268.1	65.7	0.60	0.52	-3.60	
5,625.0	4.91	106.46	5,611.5	-41.5	270.2	66.5	0.60	0.36	5.64	
5,650.0	4.88	105.51	5,636.4	-42.1	272.2	67.2	0.35	-0.12	-3.80	
5,675.0	4.79	106.31	5,661.3	-42.7	274.2	68.0	0.45	-0.36	3.20	
5,700.0	4.58	107.80	5,686.3	-43.3	276.2	68.8	0.97	-0.84	5.96	
5,725.0	4.36	106.17	5,711.2	-43.8	278.1	69.5	1.02	-0.88	-6.52	
5,750.0	4.34	108.28	5,736.1	-44.4	279.9	70.3	0.65	-0.08	8.44	
5,775.0	4.23	104.45	5,761.0	-44.9	281.7	70.9	1.23	-0.44	-15.32	
5,800.0	4.25	106.97	5,786.0	-45.4	283.4	71.6	0.75	0.08	10.08	
5,825.0	4.26	102.02	5,810.9	-45.9	285.2	72.2	1.47	0.04	-19.80	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)	
5,850.0	4.72	90.33	5,835.8	-46.1	287.2	72.6	4.09	1.84	-46.76	
5,875.0	4.56	89.61	5,860.7	-46.1	289.2	72.8	0.68	-0.64	-2.88	
5,900.0	4.54	89.68	5,885.7	-46.1	291.2	73.0	0.08	-0.08	0.28	
5,925.0	4.58	90.22	5,910.6	-46.1	293.2	73.2	0.23	0.16	2.16	
5,950.0	4.35	91.42	5,935.5	-46.1	295.1	73.4	0.99	-0.92	4.80	
5,975.0	4.39	92.31	5,960.4	-46.2	297.0	73.6	0.31	0.16	3.56	
6,000.0	4.15	90.98	5,985.4	-46.2	298.9	73.8	1.04	-0.96	-5.32	
6,025.0	4.11	89.40	6,010.3	-46.2	300.7	74.0	0.48	-0.16	-6.32	
6,050.0	3.74	89.07	6,035.2	-46.2	302.4	74.1	1.48	-1.48	-1.32	
6,075.0	3.76	89.52	6,060.2	-46.2	304.0	74.3	0.14	0.08	1.80	
6,100.0	3.57	90.85	6,085.1	-46.2	305.6	74.4	0.83	-0.76	5.32	
6,125.0	3.70	90.29	6,110.1	-46.2	307.2	74.6	0.54	0.52	-2.24	
6,150.0	4.14	94.08	6,135.0	-46.3	308.9	74.8	2.04	1.76	15.16	
6,175.0	5.65	92.48	6,159.9	-46.4	311.0	75.1	6.06	6.04	-6.40	
6,200.0	5.83	89.94	6,184.8	-46.4	313.5	75.4	1.25	0.72	-10.16	
6,225.0	5.85	89.04	6,209.7	-46.4	316.1	75.6	0.37	0.08	-3.60	
6,250.0	5.72	89.79	6,234.6	-46.4	318.6	75.8	0.60	-0.52	3.00	
6,275.0	5.42	86.80	6,259.4	-46.3	321.0	76.0	1.67	-1.20	-11.96	
6,300.0	5.11	83.83	6,284.3	-46.1	323.3	76.0	1.65	-1.24	-11.88	
6,325.0	4.93	83.06	6,309.2	-45.9	325.5	76.0	0.77	-0.72	-3.08	
6,350.0	4.60	80.52	6,334.1	-45.6	327.5	75.9	1.57	-1.32	-10.16	
6,375.0	4.14	77.44	6,359.1	-45.2	329.4	75.7	2.06	-1.84	-12.32	
6,400.0	4.29	78.60	6,384.0	-44.8	331.2	75.5	0.69	0.60	4.64	
6,425.0	4.27	80.01	6,408.9	-44.5	333.0	75.3	0.43	-0.08	5.64	
6,450.0	4.19	77.40	6,433.9	-44.1	334.9	75.1	0.83	-0.32	-10.44	
6,475.0	3.91	75.27	6,458.8	-43.7	336.6	74.9	1.27	-1.12	-8.52	
6,500.0	3.65	76.62	6,483.7	-43.3	338.2	74.6	1.10	-1.04	5.40	
6,525.0	3.11	71.56	6,508.7	-42.9	339.6	74.3	2.47	-2.16	-20.24	
6,550.0	3.63	79.74	6,533.7	-42.6	341.0	74.1	2.83	2.08	32.72	
6,575.0	4.71	81.02	6,558.6	-42.3	342.8	74.0	4.34	4.32	5.12	
6,600.0	4.90	80.37	6,583.5	-41.9	344.9	73.8	0.79	0.76	-2.60	
6,625.0	4.63	77.29	6,608.4	-41.5	346.9	73.6	1.49	-1.08	-12.32	
6,650.0	4.20	72.93	6,633.3	-41.0	348.8	73.3	2.18	-1.72	-17.44	
6,675.0	4.16	71.53	6,658.3	-40.5	350.5	72.9	0.44	-0.16	-5.60	
6,700.0	4.11	75.53	6,683.2	-40.0	352.2	72.6	1.17	-0.20	16.00	
6,725.0	3.89	77.43	6,708.2	-39.5	353.9	72.3	1.03	-0.88	7.60	
6,750.0	3.59	72.69	6,733.1	-39.1	355.5	72.1	1.72	-1.20	-18.96	
6,775.0	2.92	66.18	6,758.1	-38.6	356.8	71.7	3.06	-2.68	-26.04	
6,800.0	2.58	85.86	6,783.0	-38.3	358.0	71.5	3.99	-1.36	78.72	
6,825.0	2.79	96.71	6,808.0	-38.4	359.1	71.7	2.20	0.84	43.40	
6,850.0	2.58	104.00	6,833.0	-38.6	360.3	72.0	1.60	-0.84	29.16	
6,875.0	3.15	110.78	6,857.9	-39.0	361.5	72.5	2.65	2.28	27.12	
6,900.0	5.34	112.95	6,882.9	-39.7	363.2	73.3	8.78	8.76	8.68	
6,925.0	6.02	110.49	6,907.8	-40.6	365.5	74.4	2.89	2.72	-9.84	

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Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)
6,950.0	5.76	108.73	6,932.6	-41.4	367.9	75.5	1.27	-1.04	-7.04
6,975.0	5.06	106.73	6,957.5	-42.2	370.1	76.4	2.90	-2.80	-8.00
7,000.0	4.15	101.66	6,982.4	-42.7	372.1	77.1	3.98	-3.64	-20.28
7,025.0	3.29	97.20	7,007.4	-42.9	373.7	77.5	3.63	-3.44	-17.84
7,050.0	2.87	94.30	7,032.3	-43.1	375.0	77.8	1.79	-1.68	-11.60
7,075.0	3.37	95.44	7,057.3	-43.2	376.4	78.0	2.02	2.00	4.56
7,100.0	4.88	93.27	7,082.2	-43.3	378.2	78.3	6.07	6.04	-8.68
7,125.0	5.29	92.40	7,107.1	-43.4	380.4	78.7	1.67	1.64	-3.48
7,150.0	6.49	93.65	7,132.0	-43.6	382.9	79.0	4.83	4.80	5.00
7,175.0	6.89	93.23	7,156.8	-43.7	385.9	79.5	1.61	1.60	-1.68
7,200.0	7.62	91.60	7,181.6	-43.9	389.0	79.9	3.03	2.92	-6.52
7,225.0	9.27	88.56	7,206.4	-43.9	392.7	80.2	6.84	6.60	-12.16
7,250.0	9.51	88.34	7,231.0	-43.7	396.8	80.5	0.97	0.96	-0.88
7,275.0	8.99	87.74	7,255.7	-43.6	400.8	80.7	2.12	-2.08	-2.40
7,300.0	8.21	85.69	7,280.4	-43.4	404.5	80.9	3.35	-3.12	-8.20
7,325.0	7.77	85.45	7,305.2	-43.1	408.0	80.9	1.77	-1.76	-0.96
7,350.0	7.48	86.05	7,330.0	-42.9	411.3	81.0	1.20	-1.16	2.40
7,375.0	7.16	85.13	7,354.8	-42.6	414.5	81.1	1.36	-1.28	-3.68
7,400.0	6.73	84.25	7,379.6	-42.4	417.5	81.1	1.77	-1.72	-3.52
7,425.0	6.30	84.63	7,404.4	-42.1	420.3	81.0	1.73	-1.72	1.52
7,450.0	5.92	84.67	7,429.3	-41.8	422.9	81.0	1.52	-1.52	0.16
7,475.0	5.83	88.58	7,454.1	-41.7	425.5	81.1	1.64	-0.36	15.64
7,500.0	6.03	91.17	7,479.0	-41.7	428.1	81.4	1.34	0.80	10.36
7,525.0	5.80	90.76	7,503.9	-41.7	430.6	81.6	0.94	-0.92	-1.64
7,550.0	4.92	90.60	7,528.8	-41.8	433.0	81.9	3.52	-3.52	-0.64
7,575.0	3.57	94.69	7,553.7	-41.8	434.8	82.1	5.53	-5.40	16.36
7,600.0	2.45	106.53	7,578.7	-42.0	436.1	82.5	5.10	-4.48	47.36
7,625.0	2.36	111.71	7,603.6	-42.4	437.1	82.9	0.94	-0.36	20.72
7,650.0	2.46	116.30	7,628.6	-42.8	438.1	83.4	0.87	0.40	18.36
7,675.0	3.03	122.99	7,653.6	-43.4	439.1	84.1	2.61	2.28	26.76
7,700.0	4.81	124.64	7,678.5	-44.4	440.5	85.2	7.13	7.12	6.60
7,725.0	5.15	123.50	7,703.4	-45.6	442.3	86.6	1.42	1.36	-4.56
7,750.0	5.29	125.62	7,728.3	-46.9	444.2	88.0	0.95	0.56	8.48
7,775.0	5.04	127.09	7,753.2	-48.2	446.0	89.5	1.13	-1.00	5.88
7,800.0	4.81	127.09	7,778.1	-49.5	447.7	91.0	0.92	-0.92	0.00
7,825.0	4.34	126.35	7,803.1	-50.7	449.3	92.3	1.89	-1.88	-2.96
7,850.0	3.99	127.03	7,828.0	-51.8	450.8	93.5	1.41	-1.40	2.72
7,875.0	3.56	129.66	7,852.9	-52.8	452.1	94.7	1.85	-1.72	10.52
7,900.0	3.47	133.99	7,877.9	-53.8	453.2	95.8	1.12	-0.36	17.32
7,925.0	3.21	137.51	7,902.8	-54.9	454.2	96.9	1.32	-1.04	14.08
7,950.0	2.98	137.70	7,927.8	-55.9	455.1	98.0	0.92	-0.92	0.76
7,975.0	2.91	143.36	7,952.8	-56.8	455.9	99.1	1.20	-0.28	22.64
8,000.0	2.47	143.99	7,977.7	-57.8	456.6	100.1	1.76	-1.76	2.52

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,025.0	2.24	138.63	8,002.7	-58.6	457.3	100.9	1.27	-0.92	-21.44	
8,050.0	2.05	142.82	8,027.7	-59.3	457.9	101.7	0.98	-0.76	16.76	
8,075.0	1.74	141.59	8,052.7	-60.0	458.4	102.4	1.25	-1.24	-4.92	
8,100.0	1.69	138.17	8,077.7	-60.5	458.9	103.0	0.46	-0.20	-13.68	
8,125.0	1.71	140.76	8,102.7	-61.1	459.3	103.6	0.32	0.08	10.36	
8,150.0	1.63	150.39	8,127.7	-61.7	459.8	104.3	1.17	-0.32	38.52	
8,175.0	1.22	143.04	8,152.7	-62.2	460.1	104.8	1.79	-1.64	-29.40	
8,200.0	1.03	142.55	8,177.6	-62.6	460.4	105.2	0.76	-0.76	-1.96	
8,225.0	0.96	143.61	8,202.6	-63.0	460.6	105.6	0.29	-0.28	4.24	
8,250.0	1.25	142.57	8,227.6	-63.3	460.9	106.0	1.16	1.16	-4.16	
8,275.0	1.07	134.97	8,252.6	-63.7	461.3	106.4	0.95	-0.72	-30.40	
8,300.0	1.15	146.48	8,277.6	-64.1	461.6	106.8	0.95	0.32	46.04	
8,325.0	1.27	137.99	8,302.6	-64.5	461.9	107.3	0.86	0.48	-33.96	
8,350.0	1.30	146.41	8,327.6	-65.0	462.2	107.7	0.76	0.12	33.68	
8,375.0	1.52	136.19	8,352.6	-65.4	462.6	108.2	1.33	0.88	-40.88	
8,400.0	1.77	144.72	8,377.6	-66.0	463.1	108.8	1.40	1.00	34.12	
8,425.0	1.92	146.82	8,402.6	-66.7	463.5	109.5	0.66	0.60	8.40	
8,450.0	2.49	149.42	8,427.6	-67.5	464.0	110.4	2.31	2.28	10.40	
8,475.0	2.66	145.93	8,452.5	-68.4	464.6	111.4	0.92	0.68	-13.96	
8,500.0	2.79	154.84	8,477.5	-69.5	465.2	112.5	1.77	0.52	35.64	
8,525.0	2.68	150.67	8,502.5	-70.5	465.8	113.6	0.91	-0.44	-16.68	
8,550.0	2.66	155.68	8,527.5	-71.6	466.3	114.7	0.94	-0.08	20.04	
8,575.0	2.22	153.78	8,552.4	-72.5	466.7	115.7	1.79	-1.76	-7.60	
8,600.0	1.61	152.76	8,577.4	-73.3	467.1	116.4	2.44	-2.44	-4.08	
8,625.0	1.06	167.51	8,602.4	-73.8	467.3	117.0	2.58	-2.20	59.00	
8,650.0	0.71	167.85	8,627.4	-74.2	467.4	117.4	1.40	-1.40	1.36	
8,675.0	0.35	204.83	8,652.4	-74.4	467.4	117.6	1.92	-1.44	147.92	
8,700.0	0.49	183.50	8,677.4	-74.6	467.4	117.8	0.83	0.56	-85.32	
8,725.0	0.23	258.00	8,702.4	-74.7	467.3	117.9	1.93	-1.04	298.00	
8,738.0	0.45	257.58	8,715.4	-74.7	467.2	117.9	1.69	1.69	-3.23	
8,801.0	0.76	250.02	8,778.4	-74.9	466.6	118.0	0.51	0.49	-12.00	
8,896.0	6.45	148.59	8,873.2	-79.7	468.8	123.0	6.99	5.99	-106.77	
8,943.0	13.05	150.52	8,919.5	-86.6	472.8	130.2	14.06	14.04	4.11	
8,990.0	19.51	149.69	8,964.6	-98.0	479.4	142.2	13.75	13.74	-1.77	
9,037.0	23.77	153.53	9,008.3	-113.2	487.6	158.1	9.55	9.06	8.17	
9,085.0	27.84	157.63	9,051.5	-132.3	496.1	177.9	9.25	8.48	8.54	
9,132.0	32.65	159.24	9,092.1	-154.3	504.8	200.6	10.38	10.23	3.43	
9,180.0	35.31	159.86	9,131.9	-179.4	514.2	226.5	5.59	5.54	1.29	
9,227.0	37.59	159.11	9,169.7	-205.6	524.0	253.5	4.94	4.85	-1.60	
9,238.2	38.97	158.04	9,178.5	-212.0	526.5	260.1	13.67	12.33	-9.53	
FTP @ 9238.2'MD										
9,275.0	43.57	154.94	9,206.1	-234.3	536.2	283.2	13.67	12.50	-8.43	
9,322.0	50.79	152.67	9,238.1	-265.2	551.5	315.4	15.76	15.36	-4.83	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)	
9,370.0	54.62	152.66	9,267.1	-299.1	569.0	350.8	7.98	7.98	-0.02	
9,417.0	58.53	150.36	9,293.0	-333.5	587.7	386.8	9.27	8.32	-4.89	
9,465.0	64.73	146.82	9,315.8	-369.5	609.7	424.7	14.45	12.92	-7.38	
9,512.0	69.38	147.02	9,334.1	-405.8	633.3	463.0	9.90	9.89	0.43	
9,560.0	75.07	144.55	9,348.8	-443.5	659.1	503.0	12.83	11.85	-5.15	
9,607.0	81.13	143.99	9,358.5	-480.9	685.9	542.6	12.95	12.89	-1.19	
9,654.0	84.13	146.98	9,364.5	-519.3	712.3	583.3	8.97	6.38	6.36	
9,747.0	86.70	148.86	9,371.9	-597.8	761.5	666.1	3.42	2.76	2.02	
9,843.0	88.95	150.15	9,375.6	-680.5	810.2	752.9	2.70	2.34	1.34	
9,937.0	89.38	150.10	9,377.0	-762.0	857.0	838.5	0.46	0.46	-0.05	
10,032.0	88.46	155.98	9,378.7	-846.6	900.1	926.7	6.26	-0.97	6.19	
10,128.0	90.73	160.34	9,379.4	-935.7	935.8	1,018.7	5.12	2.36	4.54	
10,223.0	90.82	160.25	9,378.1	-1,025.1	967.8	1,110.8	0.13	0.09	-0.09	
10,317.0	92.32	159.73	9,375.6	-1,113.4	999.9	1,201.7	1.69	1.60	-0.55	
10,412.0	92.06	165.83	9,371.9	-1,204.0	1,028.0	1,294.5	6.42	-0.27	6.42	
10,517.0	87.25	163.67	9,372.6	-1,305.3	1,055.6	1,397.9	5.02	-4.58	-2.06	
10,603.0	91.44	164.17	9,373.5	-1,387.9	1,079.5	1,482.4	4.91	4.87	0.58	
10,697.0	90.36	163.14	9,372.1	-1,478.1	1,105.9	1,574.6	1.59	-1.15	-1.10	
10,791.0	90.13	164.69	9,371.7	-1,568.4	1,131.9	1,667.0	1.67	-0.24	1.65	
10,887.0	95.48	167.34	9,367.0	-1,661.4	1,155.1	1,761.7	6.22	5.57	2.76	
10,981.0	98.46	171.14	9,355.6	-1,753.0	1,172.5	1,854.6	5.11	3.17	4.04	
11,075.0	100.63	181.30	9,339.9	-1,845.4	1,178.7	1,947.1	10.90	2.31	10.81	
11,169.0	94.95	187.60	9,327.2	-1,938.2	1,171.4	2,038.8	8.98	-6.04	6.70	
11,264.0	90.61	189.08	9,322.6	-2,032.0	1,157.7	2,131.0	4.83	-4.57	1.56	
11,383.0	90.16	186.73	9,321.8	-2,149.9	1,141.3	2,246.8	2.01	-0.38	-1.97	
11,479.0	89.54	185.02	9,322.0	-2,245.4	1,131.5	2,341.0	1.89	-0.65	-1.78	
11,574.0	89.11	184.52	9,323.1	-2,340.0	1,123.6	2,434.5	0.69	-0.45	-0.53	
11,669.0	90.14	182.93	9,323.8	-2,434.8	1,117.4	2,528.3	1.99	1.08	-1.67	
11,764.0	88.64	181.84	9,324.8	-2,529.7	1,113.4	2,622.4	1.95	-1.58	-1.15	
11,859.0	87.86	180.92	9,327.7	-2,624.7	1,111.2	2,716.7	1.27	-0.82	-0.97	
11,952.0	87.02	181.20	9,331.8	-2,717.5	1,109.4	2,809.0	0.95	-0.90	0.30	
12,046.0	87.84	182.15	9,336.1	-2,811.4	1,106.7	2,902.2	1.33	0.87	1.01	
12,141.0	88.90	182.77	9,338.8	-2,906.3	1,102.6	2,996.3	1.29	1.12	0.65	
12,236.0	90.70	183.67	9,339.1	-3,001.1	1,097.3	3,090.3	2.12	1.89	0.95	
12,331.0	88.36	180.90	9,339.9	-3,096.0	1,093.5	3,184.4	3.82	-2.46	-2.92	
12,426.0	87.59	178.75	9,343.2	-3,191.0	1,093.8	3,279.0	2.40	-0.81	-2.26	
12,521.0	86.20	176.34	9,348.4	-3,285.7	1,097.8	3,373.7	2.93	-1.46	-2.54	
12,616.0	85.75	176.71	9,355.0	-3,380.3	1,103.6	3,468.4	0.61	-0.47	0.39	
12,711.0	83.88	176.96	9,363.6	-3,474.8	1,108.8	3,562.9	1.99	-1.97	0.26	
12,806.0	85.53	176.28	9,372.4	-3,569.2	1,114.4	3,657.5	1.88	1.74	-0.72	
12,901.0	87.01	174.72	9,378.6	-3,663.7	1,121.8	3,752.3	2.26	1.56	-1.64	
12,996.0	91.69	175.35	9,379.6	-3,758.3	1,130.0	3,847.2	4.97	4.93	0.66	
13,090.0	91.33	174.27	9,377.2	-3,851.9	1,138.5	3,941.2	1.21	-0.38	-1.15	
13,183.0	89.93	174.41	9,376.1	-3,944.4	1,147.7	4,034.2	1.51	-1.51	0.15	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)
13,279.0	90.59	177.53	9,375.7	-4,040.2	1,154.5	4,130.1	3.32	0.69	3.25
13,373.0	91.56	177.19	9,373.9	-4,134.1	1,158.8	4,224.0	1.09	1.03	-0.36
13,469.0	92.70	177.59	9,370.4	-4,229.9	1,163.2	4,319.8	1.26	1.19	0.42
13,564.0	86.23	174.88	9,371.3	-4,324.6	1,169.4	4,414.7	7.38	-6.81	-2.85
13,658.0	86.78	177.87	9,377.0	-4,418.3	1,175.3	4,508.5	3.23	0.59	3.18
13,753.0	90.36	180.68	9,379.4	-4,513.2	1,176.5	4,603.1	4.79	3.77	2.96
13,848.0	92.04	180.73	9,377.4	-4,608.2	1,175.4	4,697.6	1.77	1.77	0.05
13,941.0	93.29	180.81	9,373.1	-4,701.1	1,174.1	4,790.0	1.35	1.34	0.09
14,036.0	94.62	180.68	9,366.5	-4,795.8	1,172.9	4,884.2	1.41	1.40	-0.14
14,130.0	87.05	180.06	9,365.1	-4,889.7	1,172.3	4,977.7	8.08	-8.05	-0.66
14,223.0	88.61	179.64	9,368.7	-4,982.7	1,172.5	5,070.2	1.74	1.68	-0.45
14,317.0	89.53	180.53	9,370.2	-5,076.7	1,172.4	5,163.8	1.36	0.98	0.95
14,412.0	91.25	181.38	9,369.5	-5,171.6	1,170.8	5,258.2	2.02	1.81	0.89
14,508.0	92.68	182.43	9,366.2	-5,267.5	1,167.6	5,353.4	1.85	1.49	1.09
14,603.0	91.78	181.51	9,362.5	-5,362.4	1,164.3	5,447.5	1.35	-0.95	-0.97
14,699.0	89.87	180.86	9,361.2	-5,458.4	1,162.3	5,542.9	2.10	-1.99	-0.68
14,793.0	90.04	181.26	9,361.2	-5,552.3	1,160.6	5,636.3	0.46	0.18	0.43
14,888.0	89.01	180.88	9,362.0	-5,647.3	1,158.8	5,730.7	1.16	-1.08	-0.40
14,983.0	88.07	180.68	9,364.4	-5,742.3	1,157.5	5,825.1	1.01	-0.99	-0.21
15,078.0	89.86	180.28	9,366.2	-5,837.3	1,156.7	5,919.6	1.93	1.88	-0.42
15,174.0	93.63	180.84	9,363.2	-5,933.2	1,155.8	6,015.0	3.97	3.93	0.58
15,268.0	92.49	178.45	9,358.2	-6,027.0	1,156.4	6,108.5	2.81	-1.21	-2.54
15,363.0	91.16	177.37	9,355.2	-6,121.9	1,159.9	6,203.3	1.80	-1.40	-1.14
15,458.0	93.19	180.23	9,351.6	-6,216.8	1,161.8	6,298.0	3.69	2.14	3.01
15,553.0	92.47	180.33	9,346.9	-6,311.7	1,161.4	6,392.4	0.77	-0.76	0.11
15,648.0	90.45	181.28	9,344.5	-6,406.7	1,160.0	6,486.8	2.35	-2.13	1.00
15,742.0	90.32	181.33	9,343.8	-6,500.6	1,157.9	6,580.2	0.15	-0.14	0.05
15,837.0	92.78	181.86	9,341.3	-6,595.6	1,155.3	6,674.5	2.65	2.59	0.56
15,931.0	90.34	180.33	9,338.7	-6,689.5	1,153.5	6,767.8	3.06	-2.60	-1.63
16,026.0	89.70	180.12	9,338.7	-6,784.5	1,153.1	6,862.4	0.71	-0.67	-0.22
16,120.0	90.01	180.26	9,338.9	-6,878.5	1,152.8	6,955.9	0.36	0.33	0.15
16,216.0	90.33	180.06	9,338.6	-6,974.5	1,152.5	7,051.5	0.39	0.33	-0.21
16,311.0	90.63	179.86	9,337.8	-7,069.5	1,152.6	7,146.1	0.38	0.32	-0.21
16,406.0	87.99	179.12	9,339.0	-7,164.5	1,153.4	7,240.7	2.89	-2.78	-0.78
16,501.0	87.93	179.06	9,342.4	-7,259.4	1,154.9	7,335.4	0.09	-0.06	-0.06
16,596.0	90.59	179.92	9,343.6	-7,354.4	1,155.8	7,430.0	2.94	2.80	0.91
16,691.0	89.21	175.43	9,343.8	-7,449.3	1,159.6	7,524.9	4.94	-1.45	-4.73
16,786.0	90.77	174.08	9,343.8	-7,543.9	1,168.3	7,619.9	2.17	1.64	-1.42
16,881.0	89.21	176.51	9,343.8	-7,638.5	1,176.1	7,714.9	3.04	-1.64	2.56
16,975.0	88.13	178.01	9,346.0	-7,732.4	1,180.6	7,808.7	1.97	-1.15	1.60
17,070.0	88.03	178.21	9,349.2	-7,827.3	1,183.7	7,903.5	0.24	-0.11	0.21
17,165.0	86.73	178.21	9,353.5	-7,922.1	1,186.7	7,998.2	1.37	-1.37	0.00
17,260.0	90.05	180.86	9,356.2	-8,017.1	1,187.5	8,092.8	4.47	3.49	2.79

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)	
17,356.0	90.61	180.00	9,355.6	-8,113.1	1,186.7	8,188.3	1.07	0.58	-0.90	
17,450.0	92.48	182.45	9,353.1	-8,207.0	1,184.7	8,281.7	3.28	1.99	2.61	
17,545.0	93.32	182.61	9,348.3	-8,301.8	1,180.5	8,375.7	0.90	0.88	0.17	
17,640.0	93.27	182.37	9,342.8	-8,396.5	1,176.4	8,469.6	0.26	-0.05	-0.25	
17,735.0	93.73	181.60	9,337.0	-8,491.3	1,173.1	8,563.7	0.94	0.48	-0.81	
17,830.0	92.91	183.38	9,331.5	-8,586.1	1,169.0	8,657.6	2.06	-0.86	1.87	
17,925.0	89.42	182.95	9,329.6	-8,680.9	1,163.8	8,751.5	3.70	-3.67	-0.45	
18,020.0	89.77	182.08	9,330.3	-8,775.8	1,159.6	8,845.6	0.99	0.37	-0.92	
18,116.0	90.55	181.91	9,330.0	-8,871.7	1,156.3	8,940.8	0.83	0.81	-0.18	
18,211.0	91.53	182.18	9,328.3	-8,966.6	1,152.9	9,035.0	1.07	1.03	0.28	
18,306.0	92.20	181.79	9,325.2	-9,061.5	1,149.6	9,129.2	0.82	0.71	-0.41	
18,401.0	88.20	180.49	9,324.8	-9,156.5	1,147.7	9,223.6	4.43	-4.21	-1.37	
18,496.0	88.04	180.25	9,328.0	-9,251.4	1,147.1	9,318.1	0.30	-0.17	-0.25	
18,591.0	87.56	179.65	9,331.6	-9,346.4	1,147.2	9,412.6	0.81	-0.51	-0.63	
18,685.0	88.20	180.12	9,335.1	-9,440.3	1,147.4	9,506.1	0.84	0.68	0.50	
18,779.0	89.30	179.09	9,337.1	-9,534.3	1,148.0	9,599.8	1.60	1.17	-1.10	
18,875.0	89.88	178.35	9,337.8	-9,630.3	1,150.2	9,695.5	0.98	0.60	-0.77	
18,970.0	91.12	178.82	9,337.0	-9,725.2	1,152.5	9,790.3	1.40	1.31	0.49	
19,065.0	92.83	179.50	9,333.7	-9,820.1	1,153.9	9,884.9	1.94	1.80	0.72	
19,159.0	91.18	178.96	9,330.4	-9,914.1	1,155.2	9,978.6	1.85	-1.76	-0.57	
19,254.0	90.58	177.02	9,329.0	-10,009.0	1,158.5	10,073.4	2.14	-0.63	-2.04	
19,350.0	89.12	177.00	9,329.2	-10,104.9	1,163.5	10,169.3	1.52	-1.52	-0.02	
19,445.0	89.54	178.17	9,330.3	-10,199.8	1,167.5	10,264.2	1.31	0.44	1.23	
19,540.0	89.34	179.61	9,331.3	-10,294.8	1,169.3	10,358.9	1.53	-0.21	1.52	
19,635.0	87.95	179.05	9,333.5	-10,389.7	1,170.4	10,453.6	1.58	-1.46	-0.59	
19,729.0	88.44	178.63	9,336.5	-10,483.7	1,172.3	10,547.3	0.69	0.52	-0.45	
19,824.0	87.85	177.33	9,339.5	-10,578.5	1,175.7	10,642.1	1.50	-0.62	-1.37	
19,919.0	90.48	180.25	9,340.9	-10,673.5	1,177.7	10,736.8	4.14	2.77	3.07	
20,015.0	91.39	181.38	9,339.4	-10,769.5	1,176.3	10,832.2	1.51	0.95	1.18	
20,109.0	91.46	181.58	9,337.0	-10,863.4	1,173.9	10,925.5	0.23	0.07	0.21	
20,202.0	91.77	181.55	9,334.4	-10,956.3	1,171.4	11,017.8	0.33	0.33	-0.03	
20,296.0	91.44	181.82	9,331.8	-11,050.3	1,168.6	11,111.1	0.45	-0.35	0.29	
20,391.0	90.81	180.87	9,329.9	-11,145.2	1,166.4	11,205.4	1.20	-0.66	-1.00	
20,485.0	89.91	179.78	9,329.3	-11,239.2	1,165.8	11,298.9	1.50	-0.96	-1.16	
20,579.0	90.02	180.16	9,329.4	-11,333.2	1,165.9	11,392.5	0.42	0.12	0.40	
20,673.0	90.13	179.27	9,329.2	-11,427.2	1,166.4	11,486.2	0.95	0.12	-0.95	
20,766.0	90.12	178.82	9,329.0	-11,520.2	1,167.9	11,578.9	0.48	-0.01	-0.48	
20,862.0	90.17	178.70	9,328.8	-11,616.2	1,170.0	11,674.6	0.14	0.05	-0.13	
20,957.0	90.64	178.01	9,328.1	-11,711.1	1,172.7	11,769.4	0.88	0.49	-0.73	
21,052.0	90.63	177.56	9,327.1	-11,806.0	1,176.4	11,864.3	0.47	-0.01	-0.47	
21,147.0	91.72	180.23	9,325.1	-11,901.0	1,178.2	11,959.0	3.04	1.15	2.81	
21,241.0	91.97	180.85	9,322.1	-11,994.9	1,177.3	12,052.5	0.71	0.27	0.66	
21,336.0	90.81	182.82	9,319.8	-12,089.9	1,174.3	12,146.7	2.41	-1.22	2.07	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3019.9usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3019.9usft (HP 486)
Well:	BOO RADLEY COM #701H	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)	
21,430.0	90.89	183.06	9,318.4	-12,183.7	1,169.5	12,239.7	0.27	0.09	0.26	
21,525.0	90.17	180.96	9,317.5	-12,278.7	1,166.1	12,333.9	2.34	-0.76	-2.21	
21,620.0	89.96	180.79	9,317.4	-12,373.6	1,164.7	12,428.3	0.28	-0.22	-0.18	
21,714.0	89.10	180.04	9,318.2	-12,467.6	1,164.0	12,521.9	1.21	-0.91	-0.80	
21,809.0	90.07	181.39	9,318.9	-12,562.6	1,162.8	12,616.3	1.75	1.02	1.42	
21,903.0	89.76	181.35	9,319.0	-12,656.6	1,160.6	12,709.7	0.33	-0.33	-0.04	
21,920.4	89.70	181.08	9,319.1	-12,674.0	1,160.2	12,727.0	1.57	-0.32	-1.54	
LTP @ 21920.4'MD										
21,996.0	89.46	179.92	9,319.6	-12,749.6	1,159.5	12,802.2	1.57	-0.32	-1.54	
LAST MWD @ 21996'MD										
22,053.0	89.46	179.92	9,320.2	-12,806.6	1,159.6	12,858.9	0.00	0.00	0.00	
PTD @ 22053'MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,238.2	9,178.5	-212.0	526.5	FTP @ 9238.2'MD	
21,920.4	9,319.1	-12,674.0	1,160.2	LTP @ 21920.4'MD	
21,996.0	9,319.6	-12,749.6	1,159.5	LAST MWD @ 21996'MD	
22,053.0	9,320.2	-12,806.6	1,159.6	PTD @ 22053'MD	

Checked By: _____ Approved By: _____ Date: _____

U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

04/25/2022

Well Name: BOO RADLEY FED COM	Well Location: T26S / R28E / SEC 16 / SWSE /	County or Parish/State: EDDY / NM
Well Number: 701H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: STATE	Unit or CA Name:	Unit or CA Number: NMNM142941
US Well Number:	Well Status: Drilling Well	Operator: COG OPERATING LLC

Subsequent Report

Sundry ID: 2656810

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 02/14/2022

Time Sundry Submitted: 10:52

Date Operation Actually Began: 08/28/2021

Actual Procedure: 8/28/2021 - Test 9 5/8" x 5 1/2" annulus to 1500# 9/2/2021 - Set CBD @ 21,895' and test csg to 11,632psi. Good Test. 12/14/2021 - 1/2/2022 Perf 9,510 - 21,856' (1736 Shots) Frac w/ 30,965,767 total proppant & 606,535bbl clean fluid 1/26/2022 - 1/30/2022 Drilled out CPFs. Clean down to PBTD @ 21,895'. 02/1/2022 - Set 2 7/8 6.5# L-80tbg @ 9,102'. Installed gas lift system.

Well Name: BOO RADLEY FED COM**Well Location:** T26S / R28E / SEC 16 / SWSE /**County or Parish/State:** EDDY / NM**Well Number:** 701H**Type of Well:** CONVENTIONAL GAS WELL**Allottee or Tribe Name:****Lease Number:** STATE**Unit or CA Name:****Unit or CA Number:**
NMNM142941**US Well Number:****Well Status:** Drilling Well**Operator:** COG OPERATING LLC

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: DANIELLE WALKUP**Signed on:** FEB 14, 2022 10:52 AM**Name:** COG OPERATING LLC**Title:** Regulatory Technician**Street Address:** 600 W. ILLINOIS**City:** MIDLAND**State:** TX**Phone:** (432) 253-9685**Email address:** D.D.WALKUP@CONOCOPHILLIPS.COM

Field Representative

Representative Name:**Street Address:****City:****State:****Zip:****Phone:****Email address:**

BLM Point of Contact

BLM POC Name: Jonathon W Shepard**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5752345972**BLM POC Email Address:** jshepard@blm.gov**Disposition:** Accepted**Disposition Date:** 04/22/2022**Signature:** Jonathon Shepard

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-015-47347		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN		
								3. State Oil & Gas Lease No.		
5. Lease Name or Unit Agreement Name BOO RADLEY FEDERAL COM								6. Well Number: 701H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator COG Operating						9. OGRID 229137				
10. Address of Operator 600 W. Illinois Ave Midland, TX 79701						11. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	O	16	26S	28E		200	S	1490	E	EDDY
BH:	4	33	26S	28E		197	S	368	E	EDDY
13. Date Spudded 2/25/2021	14. Date T.D. Reached 5/7/2021		15. Date Rig Released 5/10/2021		16. Date Completed (Ready to Produce) 3/3/2022			17. Elevations (DF and RKB, RT, GR, etc.) 2993		
18. Total Measured Depth of Well 22053			19. Plug Back Measured Depth 21895		20. Was Directional Survey Made? Y			21. Type Electric and Other Logs Run		
22. Producing Interval(s), of this completion - Top, Bottom, Name WOLFCAMP										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
10.75		45.5		547		14.75		1039 SKS		
7.625		29.7		8786		9.625		800 SKS		
5.5		23.0		22053		6.75		1400 SKS		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN		25. TUBING RECORD			
							SIZE	DEPTH SET	PACKER SET	
							2.875	9102		
26. Perforation record (interval, size, and number) 9510-21856, .38, 1736 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9510-21856		30,965,767LBS OF PROPPANT IN 606,535BBLs CLEAN FLUID		
28. PRODUCTION										
Date First Production 3/3/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) GAS LIFT					Well Status (<i>Prod. or Shut-in</i>) PRODUCING			
Date of Test 3/3/2022	Hours Tested 24	Choke Size 17/64	Prod'n For Test Period	Oil - Bbl 171	Gas - MCF 619	Water - Bbl. 2762	Gas - Oil Ratio 3619			
Flow Tubing Press. 1642	Casing Pressure 232	Calculated 24-Hour Rate	Oil - Bbl. 171	Gas - MCF 619	Water - Bbl. 2762	Oil Gravity - API - (<i>Corr.</i>) 46.3				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SOLD								30. Test Witnessed By		
31. List Attachments Completion Package/C102, BLM Completion, etc										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date:		
34. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude Longitude NAD83										

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Printed Name : Danielle D. Walkup

Signature *D. Walkup*

Title Regulatory Coord.

Date: 9/7/2022

E-mail Address: d.d.walkup@conocophillips.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico			Northwestern New Mexico	
T. Rustler	700	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	833	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	2260	T. Atoka	T. Fruitland	T. Penn. "C"
T. Lamar	2451	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Bell Canyon	2487	T. Devonian	T. Cliff House	T. Leadville
T. Cherry Canyon	3342	T. Silurian	T. Menefee	T. Madison
T. Brushy Canyon	4600	T. Montoya	T. Point Lookout	T. Elbert
T. Bone Spring Lime	6201	T. Simpson	T. Mancos	T. McCracken
T. 1 st Bone Spring	7124	T. McKee	T. Gallup	T. Ignacio Otzte
T. 2 nd Bone Spring	7886	T. Ellenburger	Base Greenhorn	T. Granite
T. 3 rd Bone Spring	8870	T. Gr. Wash	T. Dakota	
T. Wolfcamp	9311	T. Delaware Sand	T. Morrison	
		T. Bone Springs	T. Todilto	
		T.	T. Entrada	
		T.	T. Wingate	
		T.	T. Chinle	
		T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 3, from.....to.....

No. 2, from.....to.....

No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology
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Boo Radley Com 701H

Proposed WBD

API: 30-015-47347

Wolfcamp A Shale

Lat/Long (NAD 27): 32.035742/-104.088185

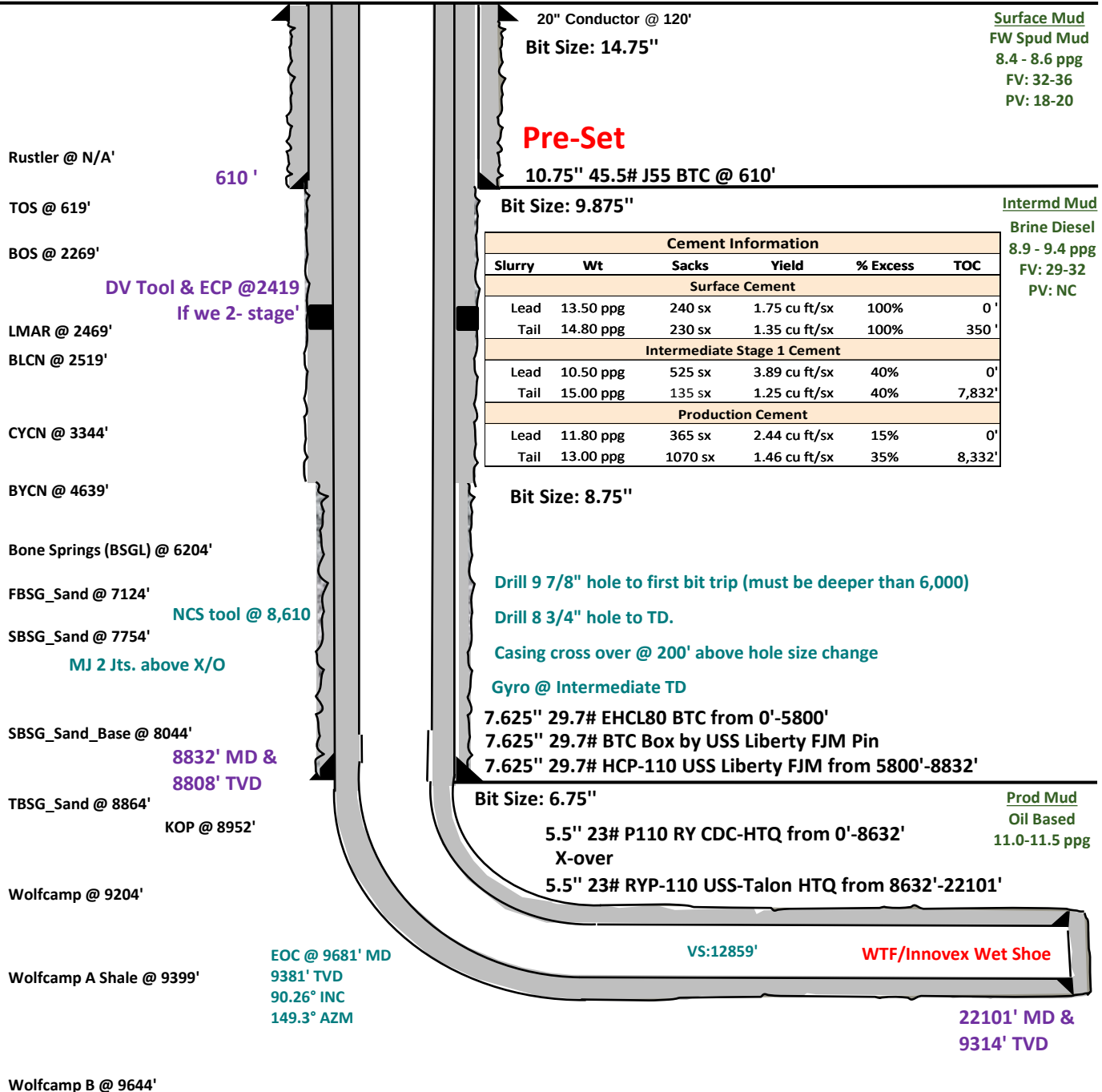
Eddy County, NM

Rig: H&P 486
 Cmt: Compass
 Casing: Sooner
 Mud: Nova
 Dir Drlg: AIM
 Wellhead: AFS
 Float Equip: WTF/Innovex

SHL
 Sec.16 - T26S - R28E
 200' FSL
 1490' FEL

BHL
 Sec.33 - T26S - R28E
 200' FSL
 330' FEL

RKB: 26'
 KB: 3019'
 GL: 2993'



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 141291

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141291
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

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

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CONDITIONS

Action 141291

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141291
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	10/30/2025