

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 30-015-47348	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 702H

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 1520	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 216	North/South line S	Feet from the 1226	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				

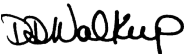
III. Oil and Gas Transporters

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 2/27/2021	²² Ready Date 3/3/2022	²³ TD 21831	²⁴ PBTD 21695	²⁵ Perforations 9530-21676	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
14.75		10.75	612		689 SKS
8.75		7.675	8791		750 SKS
6.75		5.5	21762		1410 SKS
Tubing		2.875	8885		

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 2486	³⁶ Csg. Pressure 246
³⁷ Choke Size 18/64	³⁸ Oil 267	³⁹ Water 4000	⁴⁰ Gas 798		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
611 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 30-015-47348	Pool Code 98220	Pool Name PURPLE SAGE; WOLFCAMP (GAS)
Property Code 331072	Property Name BOO RADLEY FEDERAL COM	
Well Number 702H		
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2994.7'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	16	26-S	28-E		200	SOUTH	1520	EAST	EDDY

Bottom Hole Location If Different From Surface

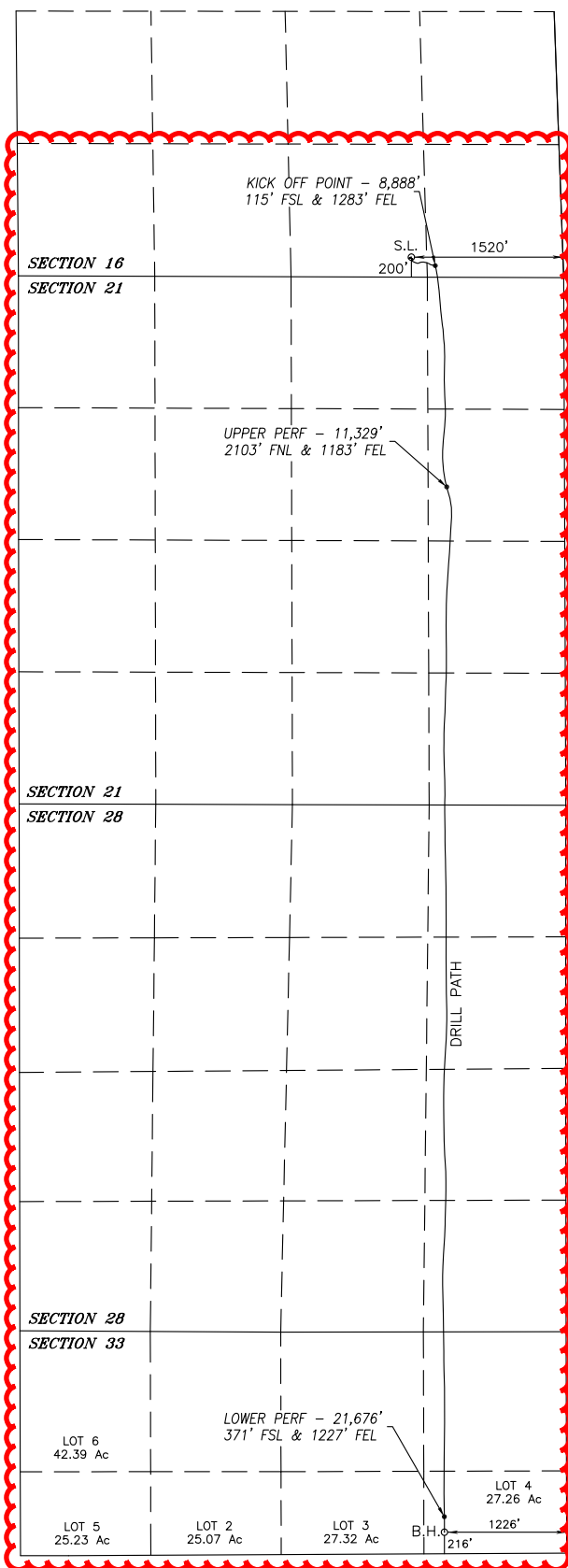
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	33	26-S	28-E		216	SOUTH	1226	EAST	EDDY

Dedicated Acres 1538.88	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 331072	Property Name BOO RADLEY FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2994.7'



NAD 83 NME
SURFACE LOCATION
Y=376827.8 N
X=617271.3 E
LAT.=32.035743° N
LONG.=104.088281° W

SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE BOO RADLEY FEDERAL COM 702H SUPPLIED TO HARCROW SURVEYING, LLC ON DECEMBER 28, 2021.

1800 0 1800
SCALE: 1"=1800'

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/APRIL 20, 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. #21-1115

DRAWN BY: WN

Intent ☐ As Drilled ☐

API # 30-015-47348		
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 # 30-015-47785		
Operator Name: COG Operating LLC	Property Name: Boo Radley Com	Well Number 704H

KZ 06/29/2018

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #702H**

OWB

Design: AWP

Standard Survey Report

20 April, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	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 #702H, ACTIVE			
Well Position	+N/-S	0.0 usft	Northing:	376,770.50 usft
	+E/-W	0.0 usft	Easting:	576,086.50 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft
			Latitude:	32° 2' 8.228 N
			Longitude:	104° 5' 16.059 W
			Ground Level:	2,994.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/28/2021	6.81	59.66	47,370.82735818

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	178.45	

Survey Program	Date	4/20/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,709.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
8,744.0	14,072.0	MWD-CURVE/LAT (OWB)	MWD+IFR1+FDIR	OWSG MWD + IFR1 + FDIR Correction	
14,130.0	21,831.0	MWD-CURVE/LAT2 (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	0.10	291.87	100.0	0.0	-0.1	0.0	0.10	0.10	0.00	
125.0	0.09	277.02	125.0	0.0	-0.1	0.0	0.11	-0.04	-59.40	
150.0	0.08	238.66	150.0	0.0	-0.2	0.0	0.23	-0.04	-153.44	
175.0	0.17	215.42	175.0	0.0	-0.2	0.0	0.41	0.36	-92.96	
200.0	0.19	215.75	200.0	-0.1	-0.2	0.1	0.08	0.08	1.32	
225.0	0.26	210.88	225.0	-0.1	-0.3	0.1	0.29	0.28	-19.48	
250.0	0.31	219.68	250.0	-0.2	-0.4	0.2	0.27	0.20	35.20	
275.0	0.32	218.26	275.0	-0.4	-0.4	0.3	0.05	0.04	-5.68	
300.0	0.42	218.72	300.0	-0.5	-0.5	0.5	0.40	0.40	1.84	
325.0	0.48	251.38	325.0	-0.6	-0.7	0.6	1.04	0.24	130.64	
350.0	0.47	249.74	350.0	-0.7	-0.9	0.6	0.07	-0.04	-6.56	
375.0	0.49	237.08	375.0	-0.8	-1.1	0.7	0.43	0.08	-50.64	
400.0	0.55	273.27	400.0	-0.8	-1.3	0.8	1.31	0.24	144.76	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
425.0	0.63	281.52	425.0	-0.8	-1.6	0.7	0.47	0.32	33.00	
450.0	0.72	279.49	450.0	-0.7	-1.8	0.7	0.37	0.36	-8.12	
475.0	0.80	273.60	475.0	-0.7	-2.2	0.6	0.45	0.32	-23.56	
500.0	0.88	281.37	500.0	-0.6	-2.5	0.6	0.56	0.32	31.08	
525.0	0.97	276.77	525.0	-0.6	-2.9	0.5	0.47	0.36	-18.40	
550.0	0.96	272.36	550.0	-0.5	-3.4	0.4	0.30	-0.04	-17.64	
575.0	1.00	275.77	575.0	-0.5	-3.8	0.4	0.28	0.16	13.64	
600.0	0.99	273.19	600.0	-0.5	-4.2	0.4	0.18	-0.04	-10.32	
625.0	0.89	271.45	625.0	-0.5	-4.6	0.3	0.42	-0.40	-6.96	
650.0	0.85	270.60	650.0	-0.4	-5.0	0.3	0.17	-0.16	-3.40	
675.0	0.88	268.31	675.0	-0.4	-5.4	0.3	0.18	0.12	-9.16	
700.0	0.88	261.81	700.0	-0.5	-5.8	0.3	0.40	0.00	-26.00	
725.0	0.99	255.09	725.0	-0.6	-6.2	0.4	0.62	0.44	-26.88	
750.0	1.06	254.69	750.0	-0.7	-6.6	0.5	0.28	0.28	-1.60	
775.0	1.06	248.54	774.9	-0.8	-7.0	0.6	0.45	0.00	-24.60	
800.0	1.10	246.73	799.9	-1.0	-7.5	0.8	0.21	0.16	-7.24	
825.0	1.04	241.99	824.9	-1.2	-7.9	1.0	0.43	-0.24	-18.96	
850.0	1.09	243.92	849.9	-1.4	-8.3	1.2	0.25	0.20	7.72	
875.0	1.08	239.28	874.9	-1.6	-8.7	1.4	0.35	-0.04	-18.56	
900.0	1.16	241.55	899.9	-1.9	-9.1	1.6	0.37	0.32	9.08	
925.0	1.22	237.28	924.9	-2.1	-9.6	1.9	0.43	0.24	-17.08	
950.0	1.25	236.90	949.9	-2.4	-10.0	2.2	0.12	0.12	-1.52	
975.0	1.30	237.78	974.9	-2.7	-10.5	2.5	0.21	0.20	3.52	
1,000.0	1.38	234.78	999.9	-3.1	-11.0	2.8	0.43	0.32	-12.00	
1,025.0	1.47	237.80	1,024.9	-3.4	-11.5	3.1	0.47	0.36	12.08	
1,050.0	1.63	238.16	1,049.9	-3.8	-12.1	3.4	0.64	0.64	1.44	
1,075.0	1.64	238.10	1,074.9	-4.1	-12.7	3.8	0.04	0.04	-0.24	
1,100.0	1.70	240.70	1,099.9	-4.5	-13.3	4.2	0.39	0.24	10.40	
1,125.0	1.82	244.56	1,124.9	-4.9	-14.0	4.5	0.67	0.48	15.44	
1,150.0	1.93	242.22	1,149.8	-5.2	-14.7	4.8	0.54	0.44	-9.36	
1,175.0	1.95	241.31	1,174.8	-5.6	-15.5	5.2	0.15	0.08	-3.64	
1,200.0	2.25	240.22	1,199.8	-6.1	-16.3	5.6	1.21	1.20	-4.36	
1,225.0	2.55	240.36	1,224.8	-6.6	-17.2	6.1	1.20	1.20	0.56	
1,250.0	2.76	239.16	1,249.8	-7.2	-18.2	6.7	0.87	0.84	-4.80	
1,275.0	2.60	240.24	1,274.7	-7.8	-19.2	7.3	0.67	-0.64	4.32	
1,300.0	2.62	241.09	1,299.7	-8.3	-20.2	7.8	0.17	0.08	3.40	
1,325.0	2.49	237.19	1,324.7	-8.9	-21.1	8.3	0.87	-0.52	-15.60	
1,350.0	1.60	214.64	1,349.7	-9.5	-21.8	8.9	4.73	-3.56	-90.20	
1,375.0	1.26	176.72	1,374.7	-10.0	-22.0	9.4	3.93	-1.36	-151.68	
1,400.0	1.18	167.58	1,399.7	-10.6	-21.9	10.0	0.84	-0.32	-36.56	
1,425.0	1.18	167.27	1,424.6	-11.1	-21.8	10.5	0.03	0.00	-1.24	
1,450.0	0.97	168.04	1,449.6	-11.5	-21.7	10.9	0.84	-0.84	3.08	
1,475.0	0.84	154.04	1,474.6	-11.9	-21.6	11.3	1.02	-0.52	-56.00	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
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Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,500.0	0.67	148.03	1,499.6	-12.2	-21.4	11.6	0.75	-0.68	-24.04	
1,525.0	0.46	145.44	1,524.6	-12.4	-21.3	11.8	0.85	-0.84	-10.36	
1,550.0	0.18	149.12	1,549.6	-12.5	-21.2	11.9	1.12	-1.12	14.72	
1,575.0	0.19	236.66	1,574.6	-12.6	-21.2	12.0	1.02	0.04	350.16	
1,600.0	0.33	258.35	1,599.6	-12.6	-21.3	12.0	0.68	0.56	86.76	
1,625.0	0.73	275.61	1,624.6	-12.6	-21.5	12.0	1.71	1.60	69.04	
1,650.0	1.16	277.35	1,649.6	-12.6	-22.0	12.0	1.72	1.72	6.96	
1,675.0	1.69	281.57	1,674.6	-12.5	-22.6	11.8	2.16	2.12	16.88	
1,700.0	2.02	279.07	1,699.6	-12.3	-23.4	11.7	1.36	1.32	-10.00	
1,725.0	2.27	277.55	1,724.6	-12.2	-24.3	11.5	1.03	1.00	-6.08	
1,750.0	2.45	276.95	1,749.6	-12.0	-25.3	11.4	0.73	0.72	-2.40	
1,775.0	2.53	276.62	1,774.5	-11.9	-26.4	11.2	0.33	0.32	-1.32	
1,800.0	2.52	276.64	1,799.5	-11.8	-27.5	11.0	0.04	-0.04	0.08	
1,825.0	1.46	271.13	1,824.5	-11.7	-28.4	10.9	4.30	-4.24	-22.04	
1,850.0	0.55	200.30	1,849.5	-11.8	-28.7	11.0	5.52	-3.64	-283.32	
1,875.0	0.62	129.68	1,874.5	-12.0	-28.6	11.2	2.71	0.28	-282.48	
1,900.0	0.63	122.98	1,899.5	-12.2	-28.4	11.4	0.29	0.04	-26.80	
1,925.0	0.97	113.93	1,924.5	-12.3	-28.1	11.6	1.45	1.36	-36.20	
1,950.0	1.02	105.00	1,949.5	-12.5	-27.7	11.7	0.65	0.20	-35.72	
1,975.0	1.09	101.59	1,974.5	-12.6	-27.3	11.9	0.38	0.28	-13.64	
2,000.0	1.06	102.03	1,999.5	-12.7	-26.8	12.0	0.12	-0.12	1.76	
2,025.0	1.13	104.23	2,024.5	-12.8	-26.3	12.1	0.33	0.28	8.80	
2,050.0	0.78	98.98	2,049.5	-12.9	-25.9	12.2	1.44	-1.40	-21.00	
2,075.0	0.48	79.12	2,074.5	-12.9	-25.7	12.2	1.47	-1.20	-79.44	
2,100.0	0.39	59.08	2,099.5	-12.8	-25.5	12.1	0.70	-0.36	-80.16	
2,125.0	0.41	44.33	2,124.5	-12.7	-25.4	12.0	0.42	0.08	-59.00	
2,150.0	0.56	61.23	2,149.5	-12.6	-25.2	11.9	0.82	0.60	67.60	
2,175.0	1.00	80.11	2,174.5	-12.5	-24.9	11.8	2.02	1.76	75.52	
2,200.0	1.72	87.63	2,199.5	-12.5	-24.3	11.8	2.96	2.88	30.08	
2,225.0	2.41	88.58	2,224.4	-12.4	-23.4	11.8	2.76	2.76	3.80	
2,250.0	2.69	87.31	2,249.4	-12.4	-22.3	11.8	1.14	1.12	-5.08	
2,275.0	2.75	89.55	2,274.4	-12.4	-21.1	11.8	0.49	0.24	8.96	
2,300.0	2.72	91.68	2,299.4	-12.4	-19.9	11.8	0.42	-0.12	8.52	
2,325.0	2.73	91.40	2,324.3	-12.4	-18.7	11.9	0.07	0.04	-1.12	
2,350.0	2.45	91.84	2,349.3	-12.4	-17.6	11.9	1.12	-1.12	1.76	
2,375.0	2.11	91.01	2,374.3	-12.5	-16.6	12.0	1.37	-1.36	-3.32	
2,400.0	1.98	90.36	2,399.3	-12.5	-15.7	12.0	0.53	-0.52	-2.60	
2,425.0	1.90	90.62	2,424.3	-12.5	-14.8	12.1	0.32	-0.32	1.04	
2,450.0	1.72	88.67	2,449.3	-12.5	-14.0	12.1	0.76	-0.72	-7.80	
2,475.0	1.56	88.84	2,474.2	-12.5	-13.3	12.1	0.64	-0.64	0.68	
2,500.0	1.54	89.25	2,499.2	-12.4	-12.6	12.1	0.09	-0.08	1.64	
2,525.0	1.51	88.59	2,524.2	-12.4	-12.0	12.1	0.14	-0.12	-2.64	
2,550.0	1.55	88.42	2,549.2	-12.4	-11.3	12.1	0.16	0.16	-0.68	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
2,575.0	1.52	86.05	2,574.2	-12.4	-10.6	12.1	0.28	-0.12	-9.48	
2,600.0	1.43	86.89	2,599.2	-12.3	-10.0	12.1	0.37	-0.36	3.36	
2,625.0	1.46	88.00	2,624.2	-12.3	-9.4	12.1	0.16	0.12	4.44	
2,650.0	1.43	88.07	2,649.2	-12.3	-8.7	12.0	0.12	-0.12	0.28	
2,675.0	1.41	90.35	2,674.2	-12.3	-8.1	12.1	0.24	-0.08	9.12	
2,700.0	1.35	88.83	2,699.2	-12.3	-7.5	12.1	0.28	-0.24	-6.08	
2,725.0	1.46	92.75	2,724.2	-12.3	-6.9	12.1	0.58	0.44	15.68	
2,750.0	1.45	90.11	2,749.2	-12.3	-6.3	12.1	0.27	-0.04	-10.56	
2,775.0	1.43	91.30	2,774.1	-12.3	-5.6	12.2	0.14	-0.08	4.76	
2,800.0	1.45	91.38	2,799.1	-12.3	-5.0	12.2	0.08	0.08	0.32	
2,825.0	1.48	92.48	2,824.1	-12.3	-4.4	12.2	0.16	0.12	4.40	
2,850.0	1.47	89.45	2,849.1	-12.4	-3.7	12.3	0.31	-0.04	-12.12	
2,875.0	1.49	91.50	2,874.1	-12.4	-3.1	12.3	0.23	0.08	8.20	
2,900.0	1.52	92.95	2,899.1	-12.4	-2.4	12.3	0.19	0.12	5.80	
2,925.0	1.42	92.27	2,924.1	-12.4	-1.8	12.4	0.41	-0.40	-2.72	
2,950.0	1.35	91.25	2,949.1	-12.4	-1.2	12.4	0.30	-0.28	-4.08	
2,975.0	1.35	87.90	2,974.1	-12.4	-0.6	12.4	0.32	0.00	-13.40	
3,000.0	1.35	91.34	2,999.1	-12.4	0.0	12.4	0.32	0.00	13.76	
3,025.0	1.30	91.69	3,024.1	-12.4	0.6	12.5	0.20	-0.20	1.40	
3,050.0	1.29	87.47	3,049.1	-12.4	1.1	12.5	0.38	-0.04	-16.88	
3,075.0	1.28	88.98	3,074.1	-12.4	1.7	12.5	0.14	-0.04	6.04	
3,100.0	1.22	88.33	3,099.0	-12.4	2.2	12.5	0.25	-0.24	-2.60	
3,125.0	1.11	87.56	3,124.0	-12.4	2.7	12.5	0.44	-0.44	-3.08	
3,150.0	1.01	86.35	3,149.0	-12.4	3.2	12.4	0.41	-0.40	-4.84	
3,175.0	1.05	94.06	3,174.0	-12.4	3.7	12.5	0.58	0.16	30.84	
3,200.0	1.17	92.98	3,199.0	-12.4	4.1	12.5	0.49	0.48	-4.32	
3,225.0	1.76	120.81	3,224.0	-12.6	4.7	12.7	3.63	2.36	111.32	
3,250.0	1.17	91.16	3,249.0	-12.8	5.3	12.9	3.77	-2.36	-118.60	
3,275.0	1.12	94.19	3,274.0	-12.8	5.8	13.0	0.31	-0.20	12.12	
3,300.0	1.05	97.96	3,299.0	-12.9	6.3	13.0	0.40	-0.28	15.08	
3,325.0	1.06	95.78	3,324.0	-12.9	6.7	13.1	0.17	0.04	-8.72	
3,350.0	0.89	95.48	3,349.0	-13.0	7.2	13.2	0.68	-0.68	-1.20	
3,375.0	0.77	95.23	3,374.0	-13.0	7.5	13.2	0.48	-0.48	-1.00	
3,400.0	0.79	97.91	3,399.0	-13.1	7.9	13.3	0.17	0.08	10.72	
3,425.0	0.78	98.21	3,424.0	-13.1	8.2	13.3	0.04	-0.04	1.20	
3,450.0	0.81	98.82	3,449.0	-13.2	8.5	13.4	0.12	0.12	2.44	
3,475.0	0.82	98.83	3,474.0	-13.2	8.9	13.4	0.04	0.04	0.04	
3,500.0	0.78	109.05	3,499.0	-13.3	9.2	13.5	0.59	-0.16	40.88	
3,525.0	0.78	108.79	3,524.0	-13.4	9.5	13.7	0.01	0.00	-1.04	
3,550.0	0.81	105.63	3,549.0	-13.5	9.9	13.8	0.21	0.12	-12.64	
3,575.0	0.76	106.27	3,574.0	-13.6	10.2	13.9	0.20	-0.20	2.56	
3,600.0	0.75	106.17	3,599.0	-13.7	10.5	14.0	0.04	-0.04	-0.40	
3,625.0	0.81	102.09	3,624.0	-13.8	10.9	14.1	0.33	0.24	-16.32	
3,650.0	0.83	99.25	3,649.0	-13.8	11.2	14.1	0.18	0.08	-11.36	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,675.0	0.76	95.63	3,674.0	-13.9	11.5	14.2	0.34	-0.28	-14.48	
3,700.0	0.76	101.55	3,699.0	-13.9	11.9	14.2	0.31	0.00	23.68	
3,725.0	0.65	97.64	3,724.0	-14.0	12.2	14.3	0.48	-0.44	-15.64	
3,750.0	0.53	102.90	3,749.0	-14.0	12.4	14.4	0.53	-0.48	21.04	
3,775.0	0.51	110.47	3,774.0	-14.1	12.6	14.4	0.29	-0.08	30.28	
3,800.0	0.57	106.17	3,799.0	-14.2	12.9	14.5	0.29	0.24	-17.20	
3,825.0	0.54	93.89	3,824.0	-14.2	13.1	14.6	0.49	-0.12	-49.12	
3,850.0	0.37	101.75	3,849.0	-14.2	13.3	14.6	0.72	-0.68	31.44	
3,875.0	0.19	110.63	3,874.0	-14.3	13.4	14.6	0.74	-0.72	35.52	
3,900.0	0.17	134.80	3,899.0	-14.3	13.5	14.7	0.31	-0.08	96.68	
3,925.0	0.19	143.02	3,924.0	-14.4	13.5	14.7	0.13	0.08	32.88	
3,950.0	0.19	135.59	3,949.0	-14.4	13.6	14.8	0.10	0.00	-29.72	
3,975.0	0.31	165.27	3,974.0	-14.5	13.6	14.9	0.69	0.48	118.72	
4,000.0	0.37	160.66	3,999.0	-14.7	13.7	15.0	0.26	0.24	-18.44	
4,025.0	0.40	174.33	4,024.0	-14.8	13.7	15.2	0.39	0.12	54.68	
4,050.0	0.48	179.50	4,049.0	-15.0	13.7	15.4	0.36	0.32	20.68	
4,075.0	0.44	170.90	4,074.0	-15.2	13.7	15.6	0.32	-0.16	-34.40	
4,100.0	0.43	171.75	4,099.0	-15.4	13.8	15.8	0.05	-0.04	3.40	
4,125.0	0.47	175.04	4,124.0	-15.6	13.8	16.0	0.19	0.16	13.16	
4,150.0	0.44	185.51	4,148.9	-15.8	13.8	16.2	0.35	-0.12	41.88	
4,175.0	0.46	195.63	4,173.9	-16.0	13.8	16.4	0.33	0.08	40.48	
4,200.0	0.51	210.47	4,198.9	-16.2	13.7	16.5	0.54	0.20	59.36	
4,225.0	0.55	214.08	4,223.9	-16.4	13.6	16.7	0.21	0.16	14.44	
4,250.0	0.68	214.33	4,248.9	-16.6	13.4	17.0	0.52	0.52	1.00	
4,275.0	0.62	213.43	4,273.9	-16.8	13.2	17.2	0.24	-0.24	-3.60	
4,300.0	0.74	224.56	4,298.9	-17.1	13.1	17.4	0.71	0.48	44.52	
4,325.0	0.78	225.94	4,323.9	-17.3	12.8	17.6	0.18	0.16	5.52	
4,350.0	0.72	225.85	4,348.9	-17.5	12.6	17.9	0.24	-0.24	-0.36	
4,375.0	0.78	225.74	4,373.9	-17.8	12.4	18.1	0.24	0.24	-0.44	
4,400.0	0.83	225.55	4,398.9	-18.0	12.1	18.3	0.20	0.20	-0.76	
4,425.0	0.88	227.08	4,423.9	-18.3	11.8	18.6	0.22	0.20	6.12	
4,450.0	0.85	229.50	4,448.9	-18.5	11.5	18.8	0.19	-0.12	9.68	
4,475.0	0.81	232.23	4,473.9	-18.7	11.3	19.0	0.22	-0.16	10.92	
4,500.0	0.93	232.09	4,498.9	-19.0	11.0	19.3	0.48	0.48	-0.56	
4,525.0	0.93	232.48	4,523.9	-19.2	10.6	19.5	0.03	0.00	1.56	
4,550.0	1.01	232.18	4,548.9	-19.5	10.3	19.7	0.32	0.32	-1.20	
4,575.0	1.05	230.13	4,573.9	-19.8	10.0	20.0	0.22	0.16	-8.20	
4,600.0	1.10	234.13	4,598.9	-20.0	9.6	20.3	0.36	0.20	16.00	
4,625.0	1.06	234.68	4,623.9	-20.3	9.2	20.6	0.17	-0.16	2.20	
4,650.0	1.09	234.62	4,648.9	-20.6	8.8	20.8	0.12	0.12	-0.24	
4,675.0	1.05	234.53	4,673.9	-20.9	8.4	21.1	0.16	-0.16	-0.36	
4,700.0	1.18	236.18	4,698.9	-21.1	8.0	21.3	0.54	0.52	6.60	
4,725.0	1.10	234.78	4,723.9	-21.4	7.6	21.6	0.34	-0.32	-5.60	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,750.0	1.09	234.94	4,748.9	-21.7	7.2	21.9	0.04	-0.04	0.64	
4,775.0	1.11	232.75	4,773.9	-22.0	6.9	22.2	0.19	0.08	-8.76	
4,800.0	1.14	229.58	4,798.9	-22.3	6.5	22.5	0.28	0.12	-12.68	
4,825.0	1.07	233.94	4,823.9	-22.6	6.1	22.7	0.44	-0.28	17.44	
4,850.0	1.14	229.32	4,848.9	-22.9	5.7	23.0	0.45	0.28	-18.48	
4,875.0	1.10	228.60	4,873.9	-23.2	5.4	23.3	0.17	-0.16	-2.88	
4,900.0	1.16	227.94	4,898.9	-23.5	5.0	23.7	0.25	0.24	-2.64	
4,925.0	1.26	229.52	4,923.8	-23.9	4.6	24.0	0.42	0.40	6.32	
4,950.0	1.28	227.79	4,948.8	-24.2	4.2	24.3	0.17	0.08	-6.92	
4,975.0	1.31	226.15	4,973.8	-24.6	3.8	24.7	0.19	0.12	-6.56	
5,000.0	1.22	226.44	4,998.8	-25.0	3.4	25.1	0.36	-0.36	1.16	
5,025.0	1.19	226.74	5,023.8	-25.4	3.0	25.4	0.12	-0.12	1.20	
5,050.0	1.26	227.86	5,048.8	-25.7	2.6	25.8	0.30	0.28	4.48	
5,075.0	1.37	229.98	5,073.8	-26.1	2.2	26.2	0.48	0.44	8.48	
5,100.0	1.45	229.89	5,098.8	-26.5	1.7	26.5	0.32	0.32	-0.36	
5,125.0	1.37	225.95	5,123.8	-26.9	1.2	26.9	0.50	-0.32	-15.76	
5,150.0	1.49	226.62	5,148.8	-27.4	0.8	27.4	0.48	0.48	2.68	
5,175.0	1.38	224.19	5,173.8	-27.8	0.3	27.8	0.50	-0.44	-9.72	
5,200.0	1.23	220.16	5,198.8	-28.2	-0.1	28.2	0.70	-0.60	-16.12	
5,225.0	1.27	222.01	5,223.8	-28.6	-0.4	28.6	0.23	0.16	7.40	
5,250.0	1.02	222.44	5,248.8	-29.0	-0.8	29.0	1.00	-1.00	1.72	
5,275.0	1.02	220.66	5,273.8	-29.3	-1.0	29.3	0.13	0.00	-7.12	
5,300.0	1.16	223.26	5,298.8	-29.7	-1.4	29.6	0.59	0.56	10.40	
5,325.0	1.01	215.16	5,323.7	-30.0	-1.7	30.0	0.86	-0.60	-32.40	
5,350.0	0.88	191.30	5,348.7	-30.4	-1.8	30.4	1.64	-0.52	-95.44	
5,375.0	0.92	186.17	5,373.7	-30.8	-1.9	30.7	0.36	0.16	-20.52	
5,400.0	0.91	180.00	5,398.7	-31.2	-1.9	31.1	0.40	-0.04	-24.68	
5,425.0	1.08	164.46	5,423.7	-31.6	-1.8	31.6	1.27	0.68	-62.16	
5,450.0	1.71	145.89	5,448.7	-32.2	-1.6	32.1	3.07	2.52	-74.28	
5,475.0	2.16	132.56	5,473.7	-32.8	-1.0	32.7	2.53	1.80	-53.32	
5,500.0	2.26	136.96	5,498.7	-33.5	-0.3	33.4	0.79	0.40	17.60	
5,525.0	2.55	135.08	5,523.7	-34.2	0.4	34.2	1.20	1.16	-7.52	
5,550.0	3.38	123.87	5,548.6	-35.0	1.4	35.0	4.03	3.32	-44.84	
5,575.0	3.94	123.44	5,573.6	-35.9	2.7	36.0	2.24	2.24	-1.72	
5,600.0	4.06	124.10	5,598.5	-36.9	4.2	37.0	0.51	0.48	2.64	
5,625.0	4.39	120.18	5,623.5	-37.9	5.7	38.0	1.75	1.32	-15.68	
5,650.0	4.62	121.35	5,648.4	-38.9	7.4	39.0	0.99	0.92	4.68	
5,675.0	4.54	121.54	5,673.3	-39.9	9.1	40.1	0.33	-0.32	0.76	
5,700.0	4.62	120.68	5,698.2	-40.9	10.8	41.2	0.42	0.32	-3.44	
5,725.0	4.52	120.73	5,723.1	-41.9	12.5	42.3	0.40	-0.40	0.20	
5,750.0	4.56	121.15	5,748.1	-43.0	14.2	43.3	0.21	0.16	1.68	
5,775.0	4.63	119.93	5,773.0	-44.0	16.0	44.4	0.48	0.28	-4.88	
5,800.0	4.71	117.88	5,797.9	-45.0	17.8	45.4	0.74	0.32	-8.20	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,825.0	4.92	114.02	5,822.8	-45.9	19.6	46.4	1.54	0.84	-15.44
5,850.0	5.04	113.03	5,847.7	-46.7	21.6	47.3	0.59	0.48	-3.96
5,875.0	5.07	113.03	5,872.6	-47.6	23.7	48.2	0.12	0.12	0.00
5,900.0	5.07	112.99	5,897.5	-48.5	25.7	49.2	0.01	0.00	-0.16
5,925.0	5.02	113.34	5,922.4	-49.3	27.7	50.1	0.23	-0.20	1.40
5,950.0	4.72	114.24	5,947.3	-50.2	29.7	51.0	1.24	-1.20	3.60
5,975.0	4.48	114.94	5,972.3	-51.0	31.5	51.9	0.99	-0.96	2.80
6,000.0	4.33	115.15	5,997.2	-51.8	33.2	52.7	0.60	-0.60	0.84
6,025.0	4.28	114.10	6,022.1	-52.6	34.9	53.6	0.37	-0.20	-4.20
6,050.0	4.38	113.28	6,047.0	-53.4	36.7	54.4	0.47	0.40	-3.28
6,075.0	4.38	115.43	6,072.0	-54.2	38.4	55.2	0.66	0.00	8.60
6,100.0	4.75	111.68	6,096.9	-55.0	40.2	56.0	1.90	1.48	-15.00
6,125.0	4.97	110.42	6,121.8	-55.7	42.2	56.8	0.98	0.88	-5.04
6,150.0	5.02	109.83	6,146.7	-56.5	44.2	57.6	0.29	0.20	-2.36
6,175.0	4.98	108.92	6,171.6	-57.2	46.3	58.4	0.36	-0.16	-3.64
6,200.0	4.70	109.16	6,196.5	-57.9	48.3	59.2	1.12	-1.12	0.96
6,225.0	4.62	109.46	6,221.4	-58.6	50.2	59.9	0.33	-0.32	1.20
6,250.0	4.54	109.32	6,246.4	-59.2	52.1	60.6	0.32	-0.32	-0.56
6,275.0	4.41	106.07	6,271.3	-59.8	53.9	61.3	1.14	-0.52	-13.00
6,300.0	4.63	100.79	6,296.2	-60.3	55.9	61.8	1.88	0.88	-21.12
6,325.0	4.51	98.92	6,321.1	-60.6	57.8	62.2	0.77	-0.48	-7.48
6,350.0	4.10	98.25	6,346.1	-60.9	59.7	62.5	1.65	-1.64	-2.68
6,375.0	3.59	96.48	6,371.0	-61.1	61.3	62.7	2.09	-2.04	-7.08
6,400.0	2.86	94.91	6,396.0	-61.2	62.7	62.9	2.94	-2.92	-6.28
6,425.0	2.54	91.68	6,420.9	-61.3	63.9	63.0	1.42	-1.28	-12.92
6,450.0	2.56	90.15	6,445.9	-61.3	65.0	63.1	0.28	0.08	-6.12
6,475.0	2.78	87.11	6,470.9	-61.3	66.2	63.1	1.05	0.88	-12.16
6,500.0	3.40	81.41	6,495.8	-61.2	67.5	63.0	2.76	2.48	-22.80
6,525.0	3.63	78.53	6,520.8	-60.9	69.0	62.7	1.16	0.92	-11.52
6,550.0	3.60	74.39	6,545.7	-60.5	70.6	62.4	1.05	-0.12	-16.56
6,575.0	3.75	68.69	6,570.7	-60.0	72.1	61.9	1.58	0.60	-22.80
6,600.0	3.79	66.98	6,595.6	-59.4	73.6	61.4	0.48	0.16	-6.84
6,625.0	3.74	65.42	6,620.6	-58.7	75.1	60.7	0.46	-0.20	-6.24
6,650.0	3.44	63.64	6,645.5	-58.1	76.5	60.1	1.28	-1.20	-7.12
6,675.0	3.38	64.19	6,670.5	-57.4	77.9	59.5	0.27	-0.24	2.20
6,700.0	3.64	66.69	6,695.4	-56.8	79.2	58.9	1.21	1.04	10.00
6,725.0	3.97	68.78	6,720.4	-56.1	80.8	58.3	1.43	1.32	8.36
6,750.0	3.80	70.08	6,745.3	-55.6	82.4	57.8	0.77	-0.68	5.20
6,775.0	3.91	70.01	6,770.3	-55.0	83.9	57.2	0.44	0.44	-0.28
6,800.0	4.06	70.37	6,795.2	-54.4	85.6	56.7	0.61	0.60	1.44
6,825.0	3.88	70.13	6,820.2	-53.8	87.2	56.1	0.72	-0.72	-0.96
6,850.0	3.30	69.49	6,845.1	-53.3	88.7	55.6	2.33	-2.32	-2.56
6,875.0	2.65	72.83	6,870.1	-52.8	89.9	55.3	2.69	-2.60	13.36
6,900.0	2.10	71.84	6,895.0	-52.5	90.9	55.0	2.21	-2.20	-3.96

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,925.0	1.80	71.43	6,920.0	-52.3	91.7	54.7	1.20	-1.20	-1.64	
6,950.0	1.69	68.85	6,945.0	-52.0	92.4	54.5	0.54	-0.44	-10.32	
6,975.0	1.74	67.87	6,970.0	-51.7	93.1	54.2	0.23	0.20	-3.92	
7,000.0	1.68	69.11	6,995.0	-51.5	93.8	54.0	0.28	-0.24	4.96	
7,025.0	1.62	71.27	7,020.0	-51.2	94.5	53.8	0.35	-0.24	8.64	
7,050.0	1.84	71.05	7,045.0	-51.0	95.2	53.5	0.88	0.88	-0.88	
7,075.0	2.34	80.05	7,070.0	-50.7	96.1	53.3	2.39	2.00	36.00	
7,100.0	2.68	87.01	7,094.9	-50.6	97.2	53.2	1.82	1.36	27.84	
7,125.0	3.27	86.61	7,119.9	-50.6	98.5	53.2	2.36	2.36	-1.60	
7,150.0	3.91	86.77	7,144.9	-50.5	100.0	53.2	2.56	2.56	0.64	
7,175.0	4.34	86.52	7,169.8	-50.4	101.8	53.1	1.72	1.72	-1.00	
7,200.0	4.48	86.97	7,194.7	-50.2	103.7	53.0	0.58	0.56	1.80	
7,225.0	4.50	87.01	7,219.6	-50.1	105.7	53.0	0.08	0.08	0.16	
7,250.0	4.62	85.32	7,244.6	-50.0	107.7	52.9	0.72	0.48	-6.76	
7,275.0	4.54	87.00	7,269.5	-49.9	109.7	52.8	0.62	-0.32	6.72	
7,300.0	4.52	88.09	7,294.4	-49.8	111.6	52.8	0.35	-0.08	4.36	
7,325.0	4.72	87.73	7,319.3	-49.7	113.7	52.8	0.81	0.80	-1.44	
7,350.0	4.81	87.31	7,344.2	-49.6	115.7	52.8	0.39	0.36	-1.68	
7,375.0	4.89	89.57	7,369.1	-49.6	117.8	52.8	0.83	0.32	9.04	
7,400.0	4.66	90.07	7,394.1	-49.6	119.9	52.8	0.93	-0.92	2.00	
7,425.0	4.54	90.94	7,419.0	-49.6	121.9	52.9	0.56	-0.48	3.48	
7,450.0	4.70	91.20	7,443.9	-49.6	123.9	53.0	0.65	0.64	1.04	
7,475.0	4.74	94.33	7,468.8	-49.7	126.0	53.1	1.04	0.16	12.52	
7,500.0	5.07	97.10	7,493.7	-49.9	128.1	53.4	1.62	1.32	11.08	
7,525.0	6.67	101.44	7,518.6	-50.4	130.6	53.9	6.64	6.40	17.36	
7,550.0	8.17	105.22	7,543.4	-51.1	133.8	54.7	6.31	6.00	15.12	
7,575.0	8.40	106.53	7,568.1	-52.1	137.2	55.8	1.19	0.92	5.24	
7,600.0	7.52	106.34	7,592.9	-53.1	140.6	56.9	3.52	-3.52	-0.76	
7,625.0	6.50	105.02	7,617.7	-53.9	143.5	57.8	4.13	-4.08	-5.28	
7,650.0	5.61	103.23	7,642.5	-54.6	146.1	58.5	3.64	-3.56	-7.16	
7,675.0	5.29	100.03	7,667.4	-55.0	148.4	59.0	1.76	-1.28	-12.80	
7,700.0	4.87	99.72	7,692.3	-55.4	150.6	59.5	1.68	-1.68	-1.24	
7,725.0	4.65	99.79	7,717.3	-55.8	152.6	59.9	0.88	-0.88	0.28	
7,750.0	4.52	102.76	7,742.2	-56.2	154.6	60.3	1.08	-0.52	11.88	
7,775.0	4.48	106.55	7,767.1	-56.7	156.5	60.9	1.20	-0.16	15.16	
7,800.0	5.38	110.27	7,792.0	-57.3	158.5	61.6	3.82	3.60	14.88	
7,825.0	7.38	111.84	7,816.8	-58.3	161.1	62.7	8.03	8.00	6.28	
7,850.0	9.05	114.80	7,841.6	-59.8	164.4	64.2	6.89	6.68	11.84	
7,875.0	9.43	115.19	7,866.3	-61.5	168.0	66.0	1.54	1.52	1.56	
7,900.0	9.58	115.90	7,890.9	-63.2	171.7	67.9	0.76	0.60	2.84	
7,925.0	9.39	116.30	7,915.6	-65.1	175.4	69.8	0.80	-0.76	1.60	
7,950.0	8.26	119.07	7,940.3	-66.8	178.8	71.7	4.83	-4.52	11.08	
7,975.0	7.40	120.25	7,965.1	-68.5	181.8	73.4	3.50	-3.44	4.72	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	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)	
8,000.0	6.54	121.57	7,989.9	-70.1	184.4	75.0	3.50	-3.44	5.28	
8,025.0	5.65	122.68	8,014.7	-71.5	186.6	76.5	3.59	-3.56	4.44	
8,050.0	5.08	121.78	8,039.6	-72.7	188.6	77.8	2.30	-2.28	-3.60	
8,075.0	4.71	119.81	8,064.5	-73.8	190.4	79.0	1.63	-1.48	-7.88	
8,100.0	4.71	117.06	8,089.4	-74.8	192.2	80.0	0.90	0.00	-11.00	
8,125.0	4.71	117.90	8,114.4	-75.7	194.1	81.0	0.28	0.00	3.36	
8,150.0	5.10	111.71	8,139.3	-76.6	196.0	81.9	2.63	1.56	-24.76	
8,175.0	6.24	101.92	8,164.1	-77.3	198.4	82.7	5.96	4.56	-39.16	
8,200.0	7.17	98.05	8,189.0	-77.8	201.2	83.3	4.13	3.72	-15.48	
8,225.0	6.88	97.68	8,213.8	-78.2	204.3	83.8	1.17	-1.16	-1.48	
8,250.0	6.65	96.55	8,238.6	-78.6	207.2	84.2	1.06	-0.92	-4.52	
8,275.0	6.68	94.98	8,263.4	-78.9	210.1	84.6	0.74	0.12	-6.28	
8,300.0	7.00	94.23	8,288.3	-79.1	213.1	84.9	1.33	1.28	-3.00	
8,325.0	7.01	94.53	8,313.1	-79.4	216.1	85.2	0.15	0.04	1.20	
8,350.0	6.38	94.72	8,337.9	-79.6	219.0	85.5	2.52	-2.52	0.76	
8,375.0	5.40	94.59	8,362.8	-79.8	221.6	85.8	3.92	-3.92	-0.52	
8,400.0	4.57	94.36	8,387.7	-80.0	223.7	86.0	3.32	-3.32	-0.92	
8,425.0	3.96	94.09	8,412.6	-80.1	225.6	86.2	2.44	-2.44	-1.08	
8,450.0	3.53	92.48	8,437.6	-80.2	227.2	86.3	1.77	-1.72	-6.44	
8,475.0	3.12	93.50	8,462.5	-80.3	228.7	86.5	1.66	-1.64	4.08	
8,500.0	2.61	87.88	8,487.5	-80.3	229.9	86.5	2.33	-2.04	-22.48	
8,525.0	2.18	87.78	8,512.5	-80.3	230.9	86.5	1.72	-1.72	-0.40	
8,550.0	1.92	89.59	8,537.4	-80.3	231.8	86.5	1.07	-1.04	7.24	
8,575.0	1.77	95.44	8,562.4	-80.3	232.6	86.6	0.96	-0.60	23.40	
8,600.0	1.66	104.91	8,587.4	-80.4	233.4	86.7	1.21	-0.44	37.88	
8,625.0	1.69	113.32	8,612.4	-80.7	234.1	87.0	0.99	0.12	33.64	
8,650.0	1.76	112.52	8,637.4	-80.9	234.8	87.3	0.30	0.28	-3.20	
8,675.0	1.83	108.88	8,662.4	-81.2	235.5	87.6	0.54	0.28	-14.56	
8,700.0	1.92	112.68	8,687.4	-81.5	236.3	87.9	0.61	0.36	15.20	
8,709.0	1.84	114.53	8,696.4	-81.6	236.5	88.0	1.12	-0.89	20.56	
8,744.0	1.57	115.07	8,731.4	-82.1	237.5	88.5	0.77	-0.77	1.54	
8,814.0	1.10	120.30	8,801.3	-82.8	238.9	89.3	0.69	-0.67	7.47	
8,888.0	3.79	166.25	8,875.3	-85.5	240.1	92.0	4.23	3.64	62.09	
8,935.0	13.37	168.61	8,921.7	-92.4	241.6	98.9	20.39	20.38	5.02	
8,982.0	21.38	167.07	8,966.5	-106.1	244.6	112.7	17.07	17.04	-3.28	
9,030.0	28.87	166.34	9,009.9	-125.9	249.3	132.6	15.62	15.60	-1.52	
9,078.0	35.02	170.07	9,050.6	-150.8	254.4	157.6	13.45	12.81	7.77	
9,125.0	40.75	172.53	9,087.7	-179.3	258.7	186.2	12.61	12.19	5.23	
9,171.0	47.50	172.62	9,120.7	-211.0	262.8	218.1	14.67	14.67	0.19	
FTP @ 9171'MD										
9,173.0	47.79	172.62	9,122.1	-212.5	263.0	219.5	14.67	14.67	0.17	
9,220.0	52.94	171.49	9,152.0	-248.3	268.0	255.5	11.11	10.96	-2.40	
9,268.0	57.19	173.09	9,179.5	-287.3	273.3	294.6	9.27	8.85	3.33	
9,315.0	62.12	174.70	9,203.3	-327.6	277.6	335.0	10.90	10.49	3.43	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	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)
9,362.0	65.36	174.41	9,224.1	-369.6	281.6	377.1	6.92	6.89	-0.62
9,409.0	66.48	176.56	9,243.2	-412.4	285.0	419.9	4.81	2.38	4.57
9,457.0	67.32	174.38	9,262.1	-456.4	288.5	464.0	4.53	1.75	-4.54
9,504.0	68.22	176.28	9,279.9	-499.7	292.0	507.5	4.20	1.91	4.04
9,552.0	71.51	173.80	9,296.4	-544.6	295.9	552.4	8.40	6.85	-5.17
9,599.0	72.15	174.33	9,311.0	-589.0	300.5	597.0	1.73	1.36	1.13
9,647.0	72.94	173.92	9,325.4	-634.6	305.2	642.6	1.84	1.65	-0.85
9,694.0	77.92	170.51	9,337.3	-679.6	311.4	687.8	12.71	10.60	-7.26
9,741.0	83.16	173.15	9,345.0	-725.5	318.0	733.8	12.45	11.15	5.62
9,788.0	86.32	177.85	9,349.3	-772.1	321.6	780.6	12.01	6.72	10.00
9,836.0	87.20	175.13	9,352.0	-820.0	324.6	828.5	5.95	1.83	-5.67
9,930.0	86.60	175.48	9,357.1	-913.5	332.2	922.2	0.74	-0.64	0.37
10,026.0	88.44	181.66	9,361.2	-1,009.3	334.6	1,018.0	6.71	1.92	6.44
10,121.0	89.83	182.07	9,362.7	-1,104.3	331.5	1,112.9	1.53	1.46	0.43
10,216.0	95.08	179.68	9,358.6	-1,199.1	330.1	1,207.6	6.07	5.53	-2.52
10,310.0	94.14	179.15	9,351.1	-1,292.8	331.0	1,301.3	1.15	-1.00	-0.56
10,406.0	93.41	176.82	9,344.7	-1,388.5	334.4	1,397.1	2.54	-0.76	-2.43
10,501.0	82.90	176.59	9,347.8	-1,483.2	339.9	1,491.9	11.07	-11.06	-0.24
10,596.0	88.29	182.43	9,355.1	-1,577.8	340.7	1,586.5	8.35	5.67	6.15
10,690.0	88.97	182.81	9,357.3	-1,671.7	336.4	1,680.2	0.83	0.72	0.40
10,785.0	92.62	187.23	9,356.0	-1,766.3	328.1	1,774.6	6.03	3.84	4.65
10,880.0	94.37	184.79	9,350.2	-1,860.6	318.1	1,868.5	3.16	1.84	-2.57
10,975.0	93.70	180.76	9,343.5	-1,955.2	313.5	1,963.0	4.29	-0.71	-4.24
11,069.0	93.76	177.06	9,337.4	-2,049.0	315.3	2,056.8	3.93	0.06	-3.94
11,163.0	94.73	173.38	9,330.5	-2,142.4	323.1	2,150.4	4.04	1.03	-3.91
11,258.0	92.12	169.37	9,324.8	-2,236.1	337.4	2,244.5	5.03	-2.75	-4.22
11,353.0	86.68	162.69	9,325.8	-2,328.2	360.3	2,337.1	9.07	-5.73	-7.03
11,448.0	82.63	164.84	9,334.6	-2,419.0	386.7	2,428.6	4.82	-4.26	2.26
11,543.0	88.73	176.29	9,341.8	-2,512.3	402.2	2,522.3	13.62	6.42	12.05
11,638.0	86.77	182.26	9,345.5	-2,607.1	403.4	2,617.1	6.61	-2.06	6.28
11,733.0	88.26	183.74	9,349.7	-2,701.9	398.4	2,711.7	2.21	1.57	1.56
11,828.0	89.74	183.70	9,351.3	-2,796.7	392.2	2,806.3	1.56	1.56	-0.04
11,921.0	89.24	183.33	9,352.1	-2,889.5	386.5	2,898.9	0.67	-0.54	-0.40
12,015.0	89.21	183.97	9,353.4	-2,983.3	380.5	2,992.5	0.68	-0.03	0.68
12,110.0	87.89	184.24	9,355.8	-3,078.0	373.8	3,087.0	1.42	-1.39	0.28
12,205.0	89.66	183.70	9,357.8	-3,172.8	367.2	3,181.6	1.95	1.86	-0.57
12,300.0	90.30	183.60	9,357.9	-3,267.6	361.1	3,276.2	0.68	0.67	-0.11
12,395.0	90.16	182.86	9,357.5	-3,362.4	355.8	3,370.9	0.79	-0.15	-0.78
12,490.0	89.29	182.08	9,358.0	-3,457.4	351.7	3,465.6	1.23	-0.92	-0.82
12,585.0	88.99	180.29	9,359.4	-3,552.3	349.7	3,560.5	1.91	-0.32	-1.88
12,680.0	88.93	180.59	9,361.1	-3,647.3	349.0	3,655.4	0.32	-0.06	0.32
12,775.0	89.94	179.87	9,362.0	-3,742.3	348.6	3,750.4	1.31	1.06	-0.76
12,869.0	89.99	179.47	9,362.1	-3,836.3	349.1	3,844.4	0.43	0.05	-0.43

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	edm

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,964.0	90.58	178.73	9,361.6	-3,931.3	350.6	3,939.3	1.00	0.62	-0.78
13,059.0	88.59	180.17	9,362.3	-4,026.3	351.6	4,034.3	2.59	-2.09	1.52
13,152.0	90.13	180.39	9,363.4	-4,119.3	351.1	4,127.3	1.67	1.66	0.24
13,247.0	92.21	181.69	9,361.4	-4,214.2	349.4	4,222.1	2.58	2.19	1.37
13,342.0	93.08	182.58	9,357.0	-4,309.0	345.8	4,316.8	1.31	0.92	0.94
13,437.0	93.13	181.95	9,351.9	-4,403.8	342.1	4,411.5	0.66	0.05	-0.66
13,532.0	94.06	180.96	9,345.9	-4,498.6	339.7	4,506.2	1.43	0.98	-1.04
13,627.0	92.12	183.23	9,340.8	-4,593.4	336.2	4,600.8	3.14	-2.04	2.39
13,722.0	93.16	183.47	9,336.4	-4,688.1	330.7	4,695.4	1.12	1.09	0.25
13,816.0	88.14	179.96	9,335.4	-4,782.0	327.9	4,789.2	6.52	-5.34	-3.73
13,909.0	91.70	181.44	9,335.5	-4,875.0	326.7	4,882.1	4.15	3.83	1.59
14,004.0	87.50	179.01	9,336.2	-4,970.0	326.3	4,977.0	5.11	-4.42	-2.56
14,130.0	93.39	178.17	9,335.2	-5,095.9	329.4	5,102.9	4.72	4.67	-0.67
14,223.0	90.32	177.57	9,332.2	-5,188.8	332.9	5,195.9	3.36	-3.30	-0.65
14,318.0	88.65	179.32	9,333.0	-5,283.7	335.5	5,290.9	2.55	-1.76	1.84
14,413.0	89.07	180.48	9,334.9	-5,378.7	335.6	5,385.8	1.30	0.44	1.22
14,508.0	88.59	180.20	9,336.9	-5,473.7	335.1	5,480.7	0.58	-0.51	-0.29
14,603.0	88.64	179.59	9,339.1	-5,568.6	335.3	5,575.7	0.64	0.05	-0.64
14,699.0	89.79	179.42	9,340.5	-5,664.6	336.1	5,671.7	1.21	1.20	-0.18
14,793.0	90.95	179.25	9,339.9	-5,758.6	337.2	5,765.6	1.25	1.23	-0.18
14,889.0	89.61	179.48	9,339.4	-5,854.6	338.2	5,861.6	1.42	-1.40	0.24
14,983.0	89.53	178.86	9,340.1	-5,948.6	339.6	5,955.6	0.67	-0.09	-0.66
15,079.0	89.59	178.96	9,340.8	-6,044.6	341.4	6,051.6	0.12	0.06	0.10
15,174.0	90.21	178.95	9,341.0	-6,139.6	343.2	6,146.6	0.65	0.65	-0.01
15,269.0	90.86	179.00	9,340.1	-6,234.5	344.9	6,241.6	0.69	0.68	0.05
15,363.0	91.94	178.75	9,337.8	-6,328.5	346.7	6,335.6	1.18	1.15	-0.27
15,458.0	91.12	179.31	9,335.3	-6,423.4	348.3	6,430.5	1.05	-0.86	0.59
15,553.0	90.02	179.96	9,334.3	-6,518.4	348.9	6,525.5	1.34	-1.16	0.68
15,648.0	89.84	179.80	9,334.4	-6,613.4	349.1	6,620.5	0.25	-0.19	-0.17
15,743.0	91.13	179.84	9,333.6	-6,708.4	349.4	6,715.4	1.36	1.36	0.04
15,837.0	89.38	180.88	9,333.2	-6,802.4	348.8	6,809.4	2.17	-1.86	1.11
15,932.0	88.44	180.58	9,335.0	-6,897.4	347.6	6,904.3	1.04	-0.99	-0.32
16,026.0	87.90	179.51	9,338.0	-6,991.3	347.5	6,998.2	1.27	-0.57	-1.14
16,121.0	89.29	180.19	9,340.4	-7,086.3	347.8	7,093.1	1.63	1.46	0.72
16,216.0	89.41	179.87	9,341.4	-7,181.3	347.7	7,188.1	0.36	0.13	-0.34
16,311.0	87.22	178.45	9,344.2	-7,276.2	349.1	7,283.0	2.75	-2.31	-1.49
16,407.0	89.78	177.89	9,346.7	-7,372.2	352.2	7,379.0	2.73	2.67	-0.58
16,501.0	91.47	179.24	9,345.7	-7,466.1	354.5	7,473.0	2.30	1.80	1.44
16,597.0	92.34	178.87	9,342.5	-7,562.1	356.1	7,568.9	0.98	0.91	-0.39
16,691.0	92.85	181.26	9,338.3	-7,655.9	356.0	7,662.8	2.60	0.54	2.54
16,787.0	91.50	182.04	9,334.6	-7,751.8	353.3	7,758.6	1.62	-1.41	0.81
16,882.0	92.09	182.90	9,331.7	-7,846.7	349.2	7,853.3	1.10	0.62	0.91
16,976.0	89.22	183.56	9,330.6	-7,940.5	343.9	7,946.9	3.13	-3.05	0.70

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	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)
17,071.0	89.86	184.32	9,331.3	-8,035.3	337.3	8,041.5	1.05	0.67	0.80
17,166.0	89.35	182.37	9,332.0	-8,130.1	331.8	8,136.1	2.12	-0.54	-2.05
17,261.0	89.61	182.16	9,332.9	-8,225.1	328.0	8,230.9	0.35	0.27	-0.22
17,356.0	89.10	180.98	9,333.9	-8,320.0	325.4	8,325.8	1.35	-0.54	-1.24
17,451.0	89.55	180.03	9,335.0	-8,415.0	324.6	8,420.7	1.11	0.47	-1.00
17,546.0	90.56	179.81	9,335.0	-8,510.0	324.7	8,515.7	1.09	1.06	-0.23
17,640.0	91.10	179.74	9,333.6	-8,604.0	325.1	8,609.6	0.58	0.57	-0.07
17,735.0	92.07	178.98	9,331.0	-8,698.9	326.2	8,704.6	1.30	1.02	-0.80
17,831.0	90.27	179.22	9,329.0	-8,794.9	327.7	8,800.6	1.89	-1.88	0.25
17,925.0	88.87	178.06	9,329.7	-8,888.9	329.9	8,894.6	1.93	-1.49	-1.23
18,021.0	89.24	177.51	9,331.3	-8,984.8	333.6	8,990.5	0.69	0.39	-0.57
18,116.0	88.02	175.52	9,333.6	-9,079.6	339.4	9,085.4	2.46	-1.28	-2.09
18,211.0	91.06	178.30	9,334.3	-9,174.4	344.5	9,180.4	4.34	3.20	2.93
18,306.0	93.35	179.37	9,330.7	-9,269.3	346.4	9,275.3	2.66	2.41	1.13
18,402.0	92.74	180.63	9,325.6	-9,365.2	346.4	9,371.1	1.46	-0.64	1.31
18,497.0	91.29	181.80	9,322.2	-9,460.1	344.4	9,466.0	1.96	-1.53	1.23
18,591.0	91.21	181.42	9,320.2	-9,554.0	341.8	9,559.8	0.41	-0.09	-0.40
18,686.0	92.55	181.33	9,317.1	-9,649.0	339.5	9,654.6	1.41	1.41	-0.09
18,780.0	92.86	181.50	9,312.6	-9,742.8	337.2	9,748.4	0.38	0.33	0.18
18,875.0	90.21	183.60	9,310.1	-9,837.7	333.0	9,843.1	3.56	-2.79	2.21
18,970.0	90.59	183.32	9,309.4	-9,932.5	327.2	9,937.7	0.50	0.40	-0.29
19,065.0	87.03	183.76	9,311.4	-10,027.3	321.4	10,032.3	3.78	-3.75	0.46
19,160.0	86.09	182.00	9,317.1	-10,122.0	316.6	10,126.9	2.10	-0.99	-1.85
19,255.0	86.08	181.07	9,323.6	-10,216.7	314.1	10,221.5	0.98	-0.01	-0.98
19,350.0	91.10	179.76	9,325.9	-10,311.7	313.4	10,316.4	5.46	5.28	-1.38
19,445.0	91.75	178.41	9,323.6	-10,406.6	314.9	10,411.3	1.58	0.68	-1.42
19,541.0	90.16	178.54	9,322.0	-10,502.6	317.4	10,507.3	1.66	-1.66	0.14
19,635.0	90.52	178.39	9,321.4	-10,596.5	320.0	10,601.3	0.41	0.38	-0.16
19,730.0	91.49	179.26	9,319.7	-10,691.5	321.9	10,696.3	1.37	1.02	0.92
19,825.0	91.88	179.61	9,316.9	-10,786.5	322.9	10,791.3	0.55	0.41	0.37
19,920.0	91.76	179.20	9,313.9	-10,881.4	323.8	10,886.2	0.45	-0.13	-0.43
20,015.0	92.41	179.00	9,310.5	-10,976.3	325.3	10,981.1	0.72	0.68	-0.21
20,109.0	91.19	179.98	9,307.5	-11,070.3	326.2	11,075.1	1.66	-1.30	1.04
20,202.0	89.19	178.08	9,307.2	-11,163.3	327.7	11,168.0	2.97	-2.15	-2.04
20,297.0	91.96	178.39	9,306.3	-11,258.2	330.7	11,263.0	2.93	2.92	0.33
20,392.0	90.77	180.18	9,304.0	-11,353.2	331.8	11,358.0	2.26	-1.25	1.88
20,486.0	90.42	180.42	9,303.0	-11,447.2	331.4	11,451.9	0.45	-0.37	0.26
20,579.0	89.05	179.55	9,303.4	-11,540.1	331.4	11,544.9	1.75	-1.47	-0.94
20,673.0	88.92	179.02	9,305.1	-11,634.1	332.6	11,638.9	0.58	-0.14	-0.56
20,767.0	91.50	179.89	9,304.8	-11,728.1	333.4	11,732.8	2.90	2.74	0.93
20,862.0	89.87	180.64	9,303.6	-11,823.1	333.0	11,827.8	1.89	-1.72	0.79
20,957.0	89.77	180.21	9,303.9	-11,918.1	332.3	11,922.7	0.46	-0.11	-0.45
21,052.0	89.41	181.52	9,304.6	-12,013.1	330.9	12,017.6	1.43	-0.38	1.38
21,147.0	89.10	180.98	9,305.8	-12,108.1	328.8	12,112.5	0.66	-0.33	-0.57

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3020.7usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3020.7usft (HP 486)
Well:	BOO RADLEY COM #702H	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)
21,242.0	90.96	181.34	9,305.8	-12,203.0	326.9	12,207.4	1.99	1.96	0.38
21,336.0	91.34	180.52	9,303.9	-12,297.0	325.3	12,301.3	0.96	0.40	-0.87
21,431.0	90.49	179.09	9,302.4	-12,392.0	325.7	12,396.3	1.75	-0.89	-1.51
21,526.0	91.47	179.08	9,300.8	-12,487.0	327.2	12,491.2	1.03	1.03	-0.01
21,620.0	91.09	178.32	9,298.7	-12,580.9	329.3	12,585.2	0.90	-0.40	-0.81
21,715.0	89.32	179.65	9,298.3	-12,675.9	331.0	12,680.2	2.33	-1.86	1.40
21,717.0	89.32	179.65	9,298.3	-12,677.9	331.0	12,682.2	0.00	0.00	0.00
LTP @ 21717'MD									
21,775.0	89.36	179.63	9,299.0	-12,735.9	331.4	12,740.2	0.08	0.07	-0.03
LAST MWD @ 21775'MD									
21,831.0	89.36	179.63	9,299.6	-12,791.9	331.7	12,796.2	0.00	0.00	0.00
PTD @ 21831'MD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,171.0	9,120.7	-211.0	262.8	FTP @ 9171'MD
21,717.0	9,298.3	-12,677.9	331.0	LTP @ 21717'MD
21,775.0	9,299.0	-12,735.9	331.4	LAST MWD @ 21775'MD
21,831.0	9,299.6	-12,791.9	331.7	PTD @ 21831'MD

Checked By: _____ Approved By: _____ Date: _____

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

Well Name: BOO RADLEY FEDERAL	Well Location:	County or Parish/State:
Well Number: 702H	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: 3001547348	Well Status: Producing Gas Well	Operator: COG OPERATING LLC

Subsequent Report

Sundry ID: 2656811

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 02/14/2022

Time Sundry Submitted: 10:53

Date Operation Actually Began: 09/01/2021

Actual Procedure: 9/1/2021 - Test 9 5/8" x 5 1/2" annulus to 1500# 9/8/2021 - Set CBD @ 21,695' and test csg to 11,619psi. Good Test. 12/5/2021 – 1/1/2022 Perf 9,530 – 21,676' (1736 Shots) Frac w/ 30,527,779 total proppant & 605,153bbl clean fluid 2/2/2022 – 2/5/2022 Drilled out CPFs. Clean down to PBTD @ 21,695'. 02/13/2022 - Set 2 7/8 6.5# L-80tbg @ 8,885'. Installed gas lift system.

Well Name: BOO RADLEY FEDERAL**Well Location:****County or Parish/State:****Well Number:** 702H**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:** 3001547348**Well Status:** Producing Gas 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 10:53 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. 30-015-47348		
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.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name BOO RADLEY FEDERAL COM		
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	1520	E	EDDY
BH:	4	33	26S	28E		216	S	1226	E	EDDY
13. Date Spudded 2/27/2021	14. Date T.D. Reached 4/18/2021	15. Date Rig Released 4/20/2021			16. Date Completed (Ready to Produce) 3/3/2022			17. Elevations (DF and RKB, RT, GR, etc.) 2993		
18. Total Measured Depth of Well 21,831			19. Plug Back Measured Depth 21695			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		612		14.75		689 SKS		
7.625		29.7		8791		8.75		750 SKS		
5.5		23.0		21762		6.75		1410 SKS		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN		25. TUBING RECORD			
							SIZE	DEPTH SET	PACKER SET	
							2.875	8885		
26. Perforation record (interval, size, and number) 9530-21676, .38, 1736 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9530-21676		30,527,779 OF PROPPANT IN 605,153BBLs 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 18/64	Prod'n For Test Period	Oil - Bbl 267	Gas - MCF 798	Water - Bbl. 4000	Gas - Oil Ratio 2988			
Flow Tubing Press. 2486	Casing Pressure 246	Calculated 24-Hour Rate	Oil - Bbl. 267	Gas - MCF 798	Water - Bbl. 4000	Oil Gravity - API - (<i>Corr.</i>) 48.6				
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	688	T. Canyon	T. Ojo Alamo	T. Penn. "A"
T. Salt	862	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	2283	T. Atoka	T. Fruitland	T. Penn. "C"
T. Lamar	2464	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Bell Canyon	2507	T. Devonian	T. Cliff House	T. Leadville
T. Cherry Canyon	3353	T. Silurian	T. Menefee	T. Madison
T. Brushy Canyon	4601	T. Montoya	T. Point Lookout	T. Elbert
T. Bone Spring Lime	5954	T. Simpson	T. Mancos	T. McCracken
T. 1 st Bone Spring	6182	T. McKee	T. Gallup	T. Ignacio Otzte
T. 2 nd Bone Spring	7098	T. Ellenburger	Base Greenhorn	T. Granite
T. 3 rd Bone Spring	7864	T. Gr. Wash	T. Dakota	
T. Wolfcamp	9226	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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CURRENT WELL SKETCH

API: 30-015-47348
SPUD: 2/26/2021
FRR: 4/20/2021
RIG: H&P 486

Boo Radley Federal Com 702H
Purple Sage; Wolfcamp
Eddy County

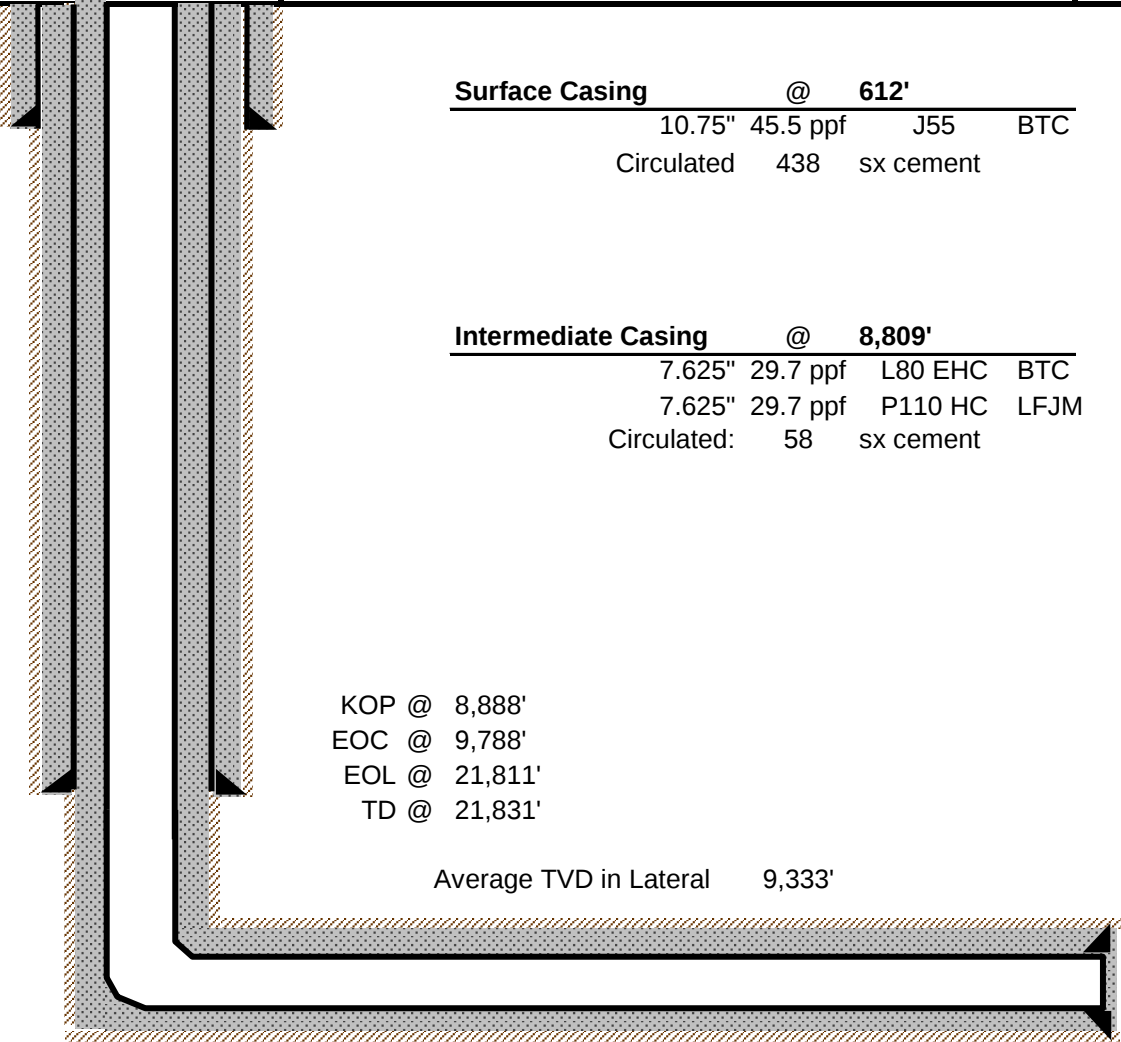
Sec 16 T/B 26S R/Svy 28E
SHL: 200' FSL & 1,520' FEL
BHL: 216' FSL & 1,226' FEL (est.)
Sec 33 T/B 26S R/Svy 28E
GL: 2,995'
KB: 3,021'
ZERO: 26'

HOLE SIZE

MW

BHST

Evaluation



Surface Casing @ 612'
10.75" 45.5 ppf J55 BTC
Circulated 438 sx cement

Intermediate Casing @ 8,809'
7.625" 29.7 ppf L80 EHC BTC
7.625" 29.7 ppf P110 HC LFJM
Circulated: 58 sx cement

KOP @ 8,888'
EOC @ 9,788'
EOL @ 21,811'
TD @ 21,831'

Average TVD in Lateral 9,333'

Surface to 5,819'
5,819' to 8,809'

Notes: Wet Shoe

Production Casing @ 21,811'
5.5" 23 ppf P110 RY CDCHTQ
5.5" 23 ppf P110 RY Talon HTQ
PBTD (LC) 21,763'
MJ: 8,519'
Floatation Collar: 8,631'
Circulated: 152 sx cement
X/O: 8,633' CDCHTQ to Talon HTQ

Surface to 8,633'
8,633' to 21,811'

14.75"

8.4 (ppg)

No Logs

9.875"8.75"

9.4 (ppg)

No Logs

6.75"

11.8 (ppg)

162°F (est.)

Mud and Cased-Hole logs

Updated by A. Wills
Date: 8/25/2021

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 141296

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141296
	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.

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

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

CONDITIONS

Action 141296

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141296
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

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