

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/2.28.2022	
⁴ API Number 30-015-47349	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 703H

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 1550	East/West line E	County EDDY
--------------------	---------------	-----------------	--------------	---------	----------------------	-----------------------	-----------------------	---------------------	----------------

¹¹ Bottom Hole Location

UL or lot no. 3	Section 33	Township 26S	Range 38E	Lot Idn	Feet from the 217	North/South line S	Feet from the 2060	East/West line E	County EDDY
¹² Lse Code S	¹³ Producing Method Code P		¹⁴ Gas Connection Date 2/28/2022		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

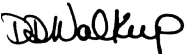
III. Oil and Gas Transporters

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 2/28/2022	²³ TD 21999	²⁴ PBTD 21860	²⁵ Perforations 9563-21841	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	8815		800 SKS
6.75		5.5	21999		1425 SKS
Tubing		2.875	8954		

V. Well Test Data

³¹ Date New Oil 2/28/2022	³² Gas Delivery Date 2/28/2022	³³ Test Date 2/28/2022	³⁴ Test Length 24hrs	³⁵ Tbg. Pressure 124	³⁶ Csg. Pressure 1350
³⁷ Choke Size 10/64	³⁸ Oil 19	³⁹ Water 2732	⁴⁰ Gas 64		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 30-015-47349		Pool Code 98220	Pool Name PURPLE SAFE; WOLFCAMP (GAS)
Property Code 331072	Property Name BOO RADLEY FEDERAL COM		Well Number 703H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 2995.0'

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	1550	EAST	EDDY

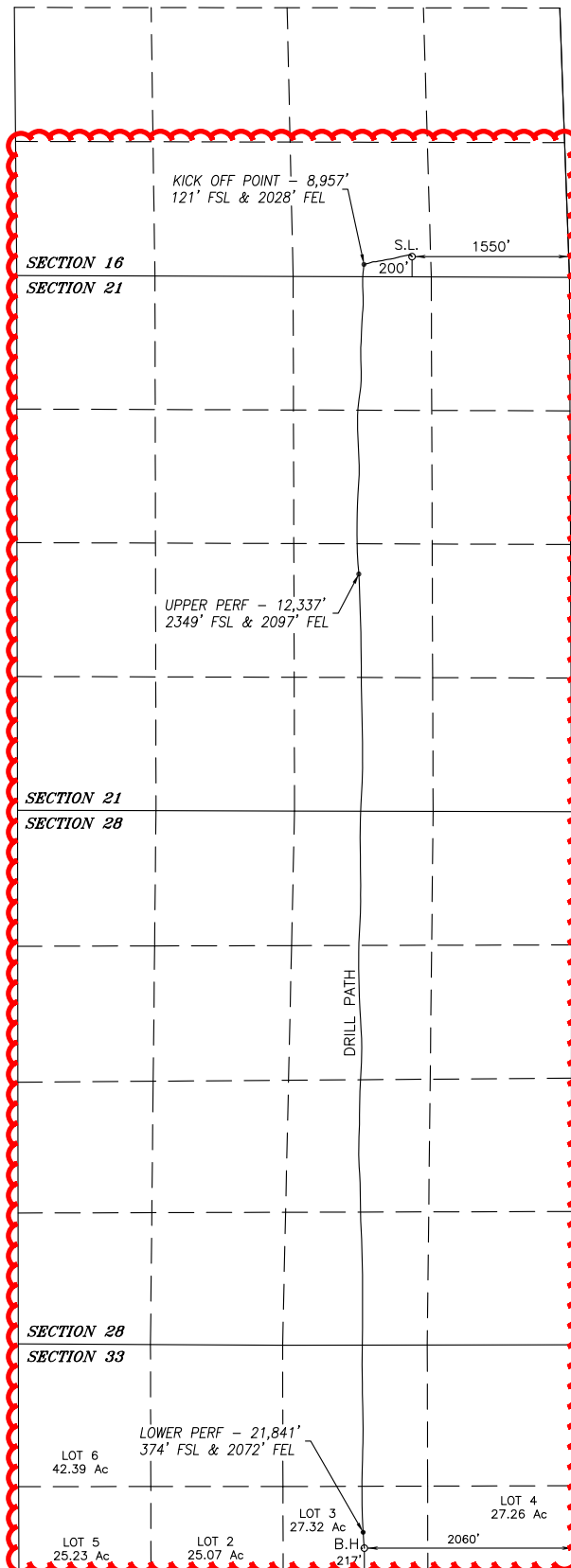
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	33	26-S	28-E		217	SOUTH	2060	EAST	EDDY
Dedicated Acres 1535.04	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 703H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 2995.0'



NAD 83 NME
SURFACE LOCATION
Y=376827.8 N
X=617241.2 E
LAT.=32.035743° N
LONG.=104.088379° W

SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE BOO RADLEY FEDERAL COM 703H 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. 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/MAR. 30, 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. #21-1116

DRAWN BY: WN

Intent ☐ As Drilled ☐

API # 30-015-47349		
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:	Property Name:	Well Number
COG Operating LLC	Boo Radley Federal Com	704H

KZ 06/29/2018

DELAWARE BASIN WEST

**ATLAS PROSPECT (NM-E)
BOO RADLEY COM PROJECT
BOO RADLEY COM #703H**

OWB

Design: AWP

Standard Survey Report

30 March, 2021



ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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 #703H, ACTIVE				
Well Position	+N/-S	0.0 usft	Northing:	376,770.60 usft	Latitude: 32° 2' 8.230 N
	+E/-W	0.0 usft	Easting:	576,056.40 usft	Longitude: 104° 5' 16.409 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level: 2,995.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	1/28/2021	6.81	59.66	47,370.81518299

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	182.25	

Survey Program	Date	3/30/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,706.0	GYRO-INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
8,749.0	21,999.0	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	0.33	331.16	100.0	0.3	-0.1	-0.2	0.33	0.33	0.00	
125.0	0.30	341.48	125.0	0.4	-0.2	-0.4	0.26	-0.12	41.28	
150.0	0.31	343.59	150.0	0.5	-0.2	-0.5	0.06	0.04	8.44	
175.0	0.44	309.16	175.0	0.6	-0.3	-0.6	1.02	0.52	-137.72	
200.0	0.36	339.76	200.0	0.8	-0.4	-0.7	0.90	-0.32	122.40	
225.0	0.56	322.70	225.0	0.9	-0.5	-0.9	0.96	0.80	-68.24	
250.0	0.73	320.48	250.0	1.2	-0.7	-1.1	0.69	0.68	-8.88	
275.0	0.82	316.67	275.0	1.4	-0.9	-1.4	0.41	0.36	-15.24	
300.0	0.93	311.40	300.0	1.7	-1.2	-1.6	0.54	0.44	-21.08	
325.0	0.98	309.87	325.0	1.9	-1.5	-1.9	0.22	0.20	-6.12	
350.0	0.99	308.33	350.0	2.2	-1.9	-2.1	0.11	0.04	-6.16	
375.0	0.90	309.11	375.0	2.5	-2.2	-2.4	0.36	-0.36	3.12	
400.0	0.92	319.12	400.0	2.7	-2.5	-2.6	0.64	0.08	40.04	
425.0	1.02	323.04	425.0	3.1	-2.7	-3.0	0.48	0.40	15.68	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	1.06	315.20	450.0	3.4	-3.0	-3.3	0.59	0.16	-31.36
475.0	1.02	312.52	475.0	3.7	-3.3	-3.6	0.25	-0.16	-10.72
500.0	1.00	309.35	500.0	4.0	-3.7	-3.9	0.24	-0.08	-12.68
525.0	0.98	317.51	525.0	4.3	-4.0	-4.2	0.57	-0.08	32.64
550.0	0.99	322.43	550.0	4.6	-4.3	-4.5	0.34	0.04	19.68
575.0	1.10	316.89	574.9	5.0	-4.6	-4.8	0.60	0.44	-22.16
600.0	1.02	315.85	599.9	5.3	-4.9	-5.1	0.33	-0.32	-4.16
625.0	0.95	316.05	624.9	5.6	-5.2	-5.4	0.28	-0.28	0.80
650.0	0.96	318.83	649.9	5.9	-5.5	-5.7	0.19	0.04	11.12
675.0	0.92	319.34	674.9	6.3	-5.7	-6.0	0.16	-0.16	2.04
700.0	1.08	315.06	699.9	6.6	-6.0	-6.3	0.71	0.64	-17.12
725.0	1.09	308.71	724.9	6.9	-6.4	-6.6	0.48	0.04	-25.40
750.0	0.98	304.07	749.9	7.2	-6.7	-6.9	0.55	-0.44	-18.56
775.0	0.98	309.91	774.9	7.4	-7.1	-7.1	0.40	0.00	23.36
800.0	1.07	309.44	799.9	7.7	-7.4	-7.4	0.36	0.36	-1.88
825.0	1.12	301.63	824.9	8.0	-7.8	-7.7	0.63	0.20	-31.24
850.0	1.09	297.38	849.9	8.2	-8.2	-7.9	0.35	-0.12	-17.00
875.0	1.04	294.70	874.9	8.4	-8.7	-8.1	0.28	-0.20	-10.72
900.0	1.09	300.89	899.9	8.6	-9.1	-8.3	0.50	0.20	24.76
925.0	1.14	295.29	924.9	8.9	-9.5	-8.5	0.48	0.20	-22.40
950.0	1.01	293.75	949.9	9.1	-9.9	-8.7	0.53	-0.52	-6.16
975.0	1.02	299.07	974.9	9.3	-10.3	-8.8	0.38	0.04	21.28
1,000.0	1.13	295.10	999.9	9.5	-10.7	-9.0	0.53	0.44	-15.88
1,025.0	1.24	288.26	1,024.9	9.7	-11.2	-9.2	0.72	0.44	-27.36
1,050.0	1.19	286.74	1,049.9	9.8	-11.7	-9.3	0.24	-0.20	-6.08
1,075.0	1.29	289.75	1,074.9	10.0	-12.2	-9.5	0.48	0.40	12.04
1,100.0	1.18	290.10	1,099.9	10.2	-12.7	-9.7	0.44	-0.44	1.40
1,125.0	1.26	286.22	1,124.9	10.3	-13.2	-9.8	0.46	0.32	-15.52
1,150.0	1.24	285.82	1,149.8	10.5	-13.8	-9.9	0.09	-0.08	-1.60
1,175.0	1.37	290.35	1,174.8	10.7	-14.3	-10.1	0.66	0.52	18.12
1,200.0	1.29	284.68	1,199.8	10.8	-14.9	-10.2	0.62	-0.32	-22.68
1,225.0	1.30	282.78	1,224.8	11.0	-15.4	-10.4	0.18	0.04	-7.60
1,250.0	1.36	279.53	1,249.8	11.1	-16.0	-10.4	0.39	0.24	-13.00
1,275.0	1.36	280.36	1,274.8	11.2	-16.6	-10.5	0.08	0.00	3.32
1,300.0	1.37	284.58	1,299.8	11.3	-17.1	-10.6	0.40	0.04	16.88
1,325.0	1.43	281.91	1,324.8	11.5	-17.7	-10.8	0.35	0.24	-10.68
1,350.0	1.33	282.78	1,349.8	11.6	-18.3	-10.9	0.41	-0.40	3.48
1,375.0	1.42	285.40	1,374.8	11.7	-18.9	-11.0	0.44	0.36	10.48
1,400.0	1.45	281.09	1,399.8	11.9	-19.5	-11.1	0.45	0.12	-17.24
1,425.0	1.42	280.28	1,424.8	12.0	-20.1	-11.2	0.14	-0.12	-3.24
1,450.0	1.37	285.46	1,449.8	12.1	-20.7	-11.3	0.54	-0.20	20.72
1,475.0	1.46	280.62	1,474.8	12.3	-21.3	-11.4	0.60	0.36	-19.36
1,500.0	1.57	285.14	1,499.7	12.4	-22.0	-11.5	0.65	0.44	18.08

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	1.46	299.51	1,524.7	12.7	-22.6	-11.8	1.58	-0.44	57.48
1,550.0	1.50	300.55	1,549.7	13.0	-23.1	-12.1	0.19	0.16	4.16
1,575.0	1.51	303.43	1,574.7	13.3	-23.7	-12.4	0.31	0.04	11.52
1,600.0	1.65	309.04	1,599.7	13.7	-24.3	-12.8	0.83	0.56	22.44
1,625.0	1.84	303.29	1,624.7	14.2	-24.9	-13.2	1.03	0.76	-23.00
1,650.0	1.75	303.91	1,649.7	14.6	-25.5	-13.6	0.37	-0.36	2.48
1,675.0	1.82	305.84	1,674.7	15.1	-26.2	-14.0	0.37	0.28	7.72
1,700.0	1.54	298.73	1,699.7	15.5	-26.8	-14.4	1.39	-1.12	-28.44
1,725.0	1.10	289.04	1,724.7	15.7	-27.3	-14.6	1.97	-1.76	-38.76
1,750.0	1.00	282.20	1,749.7	15.8	-27.7	-14.7	0.64	-0.40	-27.36
1,775.0	1.06	279.82	1,774.6	15.9	-28.2	-14.8	0.29	0.24	-9.52
1,800.0	1.06	280.70	1,799.6	16.0	-28.6	-14.9	0.07	0.00	3.52
1,825.0	1.02	279.05	1,824.6	16.1	-29.1	-14.9	0.20	-0.16	-6.60
1,850.0	0.97	278.38	1,849.6	16.1	-29.5	-15.0	0.21	-0.20	-2.68
1,875.0	1.00	283.63	1,874.6	16.2	-29.9	-15.0	0.38	0.12	21.00
1,900.0	0.84	303.61	1,899.6	16.4	-30.3	-15.2	1.42	-0.64	79.92
1,925.0	0.72	320.73	1,924.6	16.6	-30.5	-15.4	1.04	-0.48	68.48
1,950.0	0.62	333.13	1,949.6	16.8	-30.7	-15.6	0.70	-0.40	49.60
1,975.0	0.49	10.93	1,974.6	17.1	-30.7	-15.8	1.52	-0.52	151.20
2,000.0	0.39	59.32	1,999.6	17.2	-30.7	-16.0	1.49	-0.40	193.56
2,025.0	0.66	79.94	2,024.6	17.3	-30.4	-16.1	1.30	1.08	82.48
2,050.0	0.61	82.87	2,049.6	17.3	-30.2	-16.1	0.24	-0.20	11.72
2,075.0	0.64	83.90	2,074.6	17.3	-29.9	-16.2	0.13	0.12	4.12
2,100.0	0.75	73.60	2,099.6	17.4	-29.6	-16.2	0.66	0.44	-41.20
2,125.0	0.69	75.19	2,124.6	17.5	-29.3	-16.3	0.25	-0.24	6.36
2,150.0	1.10	89.43	2,149.6	17.5	-28.9	-16.4	1.85	1.64	56.96
2,175.0	1.73	91.63	2,174.6	17.5	-28.3	-16.4	2.53	2.52	8.80
2,200.0	2.24	94.28	2,199.6	17.5	-27.4	-16.4	2.07	2.04	10.60
2,225.0	2.80	92.27	2,224.6	17.4	-26.3	-16.4	2.27	2.24	-8.04
2,250.0	2.87	91.20	2,249.5	17.4	-25.1	-16.4	0.35	0.28	-4.28
2,275.0	2.98	92.82	2,274.5	17.3	-23.8	-16.4	0.55	0.44	6.48
2,300.0	2.93	91.42	2,299.5	17.3	-22.5	-16.4	0.35	-0.20	-5.60
2,325.0	2.94	90.09	2,324.4	17.3	-21.3	-16.4	0.28	0.04	-5.32
2,350.0	2.85	90.20	2,349.4	17.3	-20.0	-16.5	0.36	-0.36	0.44
2,375.0	2.74	88.71	2,374.4	17.3	-18.8	-16.5	0.53	-0.44	-5.96
2,400.0	2.61	88.39	2,399.3	17.3	-17.6	-16.6	0.52	-0.52	-1.28
2,425.0	2.37	87.71	2,424.3	17.3	-16.5	-16.7	0.97	-0.96	-2.72
2,450.0	1.93	86.96	2,449.3	17.4	-15.6	-16.8	1.76	-1.76	-3.00
2,475.0	0.98	83.11	2,474.3	17.4	-15.0	-16.8	3.82	-3.80	-15.40
2,500.0	0.71	79.04	2,499.3	17.5	-14.6	-16.9	1.11	-1.08	-16.28
2,525.0	0.78	85.70	2,524.3	17.5	-14.3	-17.0	0.44	0.28	26.64
2,550.0	0.77	79.68	2,549.3	17.6	-13.9	-17.0	0.33	-0.04	-24.08
2,575.0	0.85	79.84	2,574.3	17.6	-13.6	-17.1	0.32	0.32	0.64

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	0.76	82.95	2,599.3	17.7	-13.2	-17.2	0.40	-0.36	12.44	
2,625.0	0.85	84.96	2,624.3	17.7	-12.9	-17.2	0.38	0.36	8.04	
2,650.0	0.79	82.08	2,649.3	17.8	-12.5	-17.3	0.29	-0.24	-11.52	
2,675.0	0.20	6.50	2,674.3	17.8	-12.4	-17.3	3.06	-2.36	-302.32	
2,700.0	0.33	302.22	2,699.3	17.9	-12.4	-17.4	1.21	0.52	-257.12	
2,725.0	0.46	288.49	2,724.3	18.0	-12.6	-17.5	0.64	0.52	-54.92	
2,750.0	0.69	288.20	2,749.3	18.1	-12.8	-17.6	0.92	0.92	-1.16	
2,775.0	1.56	277.21	2,774.3	18.2	-13.3	-17.6	3.57	3.48	-43.96	
2,800.0	1.89	273.44	2,799.3	18.2	-14.0	-17.7	1.40	1.32	-15.08	
2,825.0	2.00	274.52	2,824.2	18.3	-14.9	-17.7	0.46	0.44	4.32	
2,850.0	2.43	271.13	2,849.2	18.3	-15.8	-17.7	1.80	1.72	-13.56	
2,875.0	3.14	266.07	2,874.2	18.3	-17.1	-17.6	3.00	2.84	-20.24	
2,900.0	3.42	263.02	2,899.2	18.2	-18.5	-17.4	1.32	1.12	-12.20	
2,925.0	3.34	263.21	2,924.1	18.0	-19.9	-17.2	0.32	-0.32	0.76	
2,950.0	3.45	262.16	2,949.1	17.8	-21.4	-16.9	0.51	0.44	-4.20	
2,975.0	3.43	263.89	2,974.0	17.6	-22.9	-16.7	0.42	-0.08	6.92	
3,000.0	3.40	262.11	2,999.0	17.4	-24.4	-16.5	0.44	-0.12	-7.12	
3,025.0	3.92	262.57	3,023.9	17.2	-26.0	-16.2	2.08	2.08	1.84	
3,050.0	4.56	261.35	3,048.9	17.0	-27.8	-15.9	2.59	2.56	-4.88	
3,075.0	4.70	261.49	3,073.8	16.7	-29.8	-15.5	0.56	0.56	0.56	
3,100.0	4.69	260.54	3,098.7	16.3	-31.8	-15.1	0.31	-0.04	-3.80	
3,125.0	4.69	260.64	3,123.6	16.0	-33.8	-14.7	0.03	0.00	0.40	
3,150.0	4.75	260.91	3,148.5	15.7	-35.9	-14.3	0.26	0.24	1.08	
3,175.0	4.67	259.96	3,173.4	15.3	-37.9	-13.8	0.45	-0.32	-3.80	
3,200.0	4.58	261.64	3,198.4	15.0	-39.9	-13.4	0.65	-0.36	6.72	
3,225.0	4.61	260.49	3,223.3	14.7	-41.8	-13.0	0.39	0.12	-4.60	
3,250.0	4.52	259.01	3,248.2	14.3	-43.8	-12.6	0.59	-0.36	-5.92	
3,275.0	4.32	257.37	3,273.1	13.9	-45.7	-12.1	0.95	-0.80	-6.56	
3,300.0	4.10	254.98	3,298.1	13.5	-47.5	-11.6	1.13	-0.88	-9.56	
3,325.0	4.07	255.22	3,323.0	13.1	-49.2	-11.1	0.14	-0.12	0.96	
3,350.0	4.08	256.49	3,347.9	12.6	-50.9	-10.6	0.36	0.04	5.08	
3,375.0	4.11	256.94	3,372.9	12.2	-52.7	-10.1	0.18	0.12	1.80	
3,400.0	4.10	255.76	3,397.8	11.8	-54.4	-9.6	0.34	-0.04	-4.72	
3,425.0	4.47	257.14	3,422.7	11.3	-56.2	-9.1	1.54	1.48	5.52	
3,450.0	4.82	257.89	3,447.7	10.9	-58.2	-8.6	1.42	1.40	3.00	
3,475.0	4.92	257.16	3,472.6	10.5	-60.3	-8.1	0.47	0.40	-2.92	
3,500.0	5.25	259.28	3,497.5	10.0	-62.4	-7.5	1.52	1.32	8.48	
3,525.0	5.66	259.72	3,522.3	9.6	-64.8	-7.0	1.65	1.64	1.76	
3,550.0	5.67	259.43	3,547.2	9.1	-67.2	-6.5	0.12	0.04	-1.16	
3,575.0	5.76	259.61	3,572.1	8.7	-69.6	-5.9	0.37	0.36	0.72	
3,600.0	5.75	259.50	3,597.0	8.2	-72.1	-5.4	0.06	-0.04	-0.44	
3,625.0	5.78	259.50	3,621.9	7.8	-74.6	-4.8	0.12	0.12	0.00	
3,650.0	5.77	260.08	3,646.7	7.3	-77.0	-4.3	0.24	-0.04	2.32	
3,675.0	5.76	259.43	3,671.6	6.9	-79.5	-3.7	0.26	-0.04	-2.60	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	5.81	259.22	3,696.5	6.4	-82.0	-3.2	0.22	0.20	-0.84
3,725.0	5.68	258.67	3,721.3	5.9	-84.5	-2.6	0.56	-0.52	-2.20
3,750.0	5.69	259.57	3,746.2	5.4	-86.9	-2.0	0.36	0.04	3.60
3,775.0	5.75	259.36	3,771.1	5.0	-89.3	-1.5	0.25	0.24	-0.84
3,800.0	5.82	258.97	3,796.0	4.5	-91.8	-0.9	0.32	0.28	-1.56
3,825.0	5.75	258.57	3,820.8	4.0	-94.3	-0.3	0.32	-0.28	-1.60
3,850.0	5.70	258.52	3,845.7	3.5	-96.7	0.3	0.20	-0.20	-0.20
3,875.0	5.73	258.05	3,870.6	3.0	-99.2	0.9	0.22	0.12	-1.88
3,900.0	5.83	257.53	3,895.5	2.5	-101.6	1.5	0.45	0.40	-2.08
3,925.0	5.78	257.69	3,920.3	2.0	-104.1	2.1	0.21	-0.20	0.64
3,950.0	5.72	257.11	3,945.2	1.4	-106.5	2.8	0.33	-0.24	-2.32
3,975.0	5.81	257.70	3,970.1	0.9	-109.0	3.4	0.43	0.36	2.36
4,000.0	5.88	256.69	3,995.0	0.3	-111.5	4.1	0.50	0.28	-4.04
4,025.0	5.87	257.46	4,019.8	-0.3	-114.0	4.7	0.32	-0.04	3.08
4,050.0	5.75	256.71	4,044.7	-0.8	-116.4	5.4	0.57	-0.48	-3.00
4,075.0	5.58	256.05	4,069.6	-1.4	-118.8	6.1	0.73	-0.68	-2.64
4,100.0	5.58	255.60	4,094.5	-2.0	-121.2	6.8	0.18	0.00	-1.80
4,125.0	5.58	255.08	4,119.3	-2.6	-123.5	7.5	0.20	0.00	-2.08
4,150.0	5.50	254.42	4,144.2	-3.3	-125.9	8.2	0.41	-0.32	-2.64
4,175.0	5.44	254.22	4,169.1	-3.9	-128.2	8.9	0.25	-0.24	-0.80
4,200.0	5.45	253.98	4,194.0	-4.6	-130.4	9.7	0.10	0.04	-0.96
4,225.0	5.55	254.88	4,218.9	-5.2	-132.8	10.4	0.53	0.40	3.60
4,250.0	5.61	254.70	4,243.8	-5.8	-135.1	11.1	0.25	0.24	-0.72
4,275.0	5.48	253.93	4,268.6	-6.5	-137.4	11.9	0.60	-0.52	-3.08
4,300.0	5.50	253.82	4,293.5	-7.2	-139.7	12.6	0.09	0.08	-0.44
4,325.0	5.48	254.36	4,318.4	-7.8	-142.0	13.4	0.22	-0.08	2.16
4,350.0	5.53	254.92	4,343.3	-8.5	-144.3	14.1	0.29	0.20	2.24
4,375.0	5.55	254.77	4,368.2	-9.1	-146.7	14.8	0.10	0.08	-0.60
4,400.0	5.63	255.12	4,393.1	-9.7	-149.0	15.5	0.35	0.32	1.40
4,425.0	5.58	255.54	4,417.9	-10.3	-151.4	16.3	0.26	-0.20	1.68
4,450.0	5.60	255.38	4,442.8	-10.9	-153.7	17.0	0.10	0.08	-0.64
4,475.0	5.70	255.74	4,467.7	-11.6	-156.1	17.7	0.42	0.40	1.44
4,500.0	5.66	256.54	4,492.6	-12.2	-158.5	18.4	0.35	-0.16	3.20
4,525.0	5.49	255.77	4,517.5	-12.7	-160.9	19.0	0.74	-0.68	-3.08
4,550.0	5.69	256.06	4,542.3	-13.3	-163.2	19.7	0.81	0.80	1.16
4,575.0	5.77	255.43	4,567.2	-13.9	-165.7	20.4	0.41	0.32	-2.52
4,600.0	5.71	254.37	4,592.1	-14.6	-168.1	21.2	0.49	-0.24	-4.24
4,625.0	5.60	252.62	4,617.0	-15.3	-170.4	22.0	0.82	-0.44	-7.00
4,650.0	5.72	252.63	4,641.8	-16.0	-172.8	22.8	0.48	0.48	0.04
4,675.0	5.59	252.95	4,666.7	-16.8	-175.1	23.6	0.54	-0.52	1.28
4,700.0	5.67	253.37	4,691.6	-17.5	-177.5	24.4	0.36	0.32	1.68
4,725.0	5.64	254.49	4,716.5	-18.1	-179.9	25.2	0.46	-0.12	4.48
4,750.0	5.55	257.49	4,741.4	-18.7	-182.2	25.9	1.22	-0.36	12.00

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	5.51	260.14	4,766.2	-19.2	-184.6	26.4	1.03	-0.16	10.60	
4,800.0	5.46	260.19	4,791.1	-19.6	-186.9	26.9	0.20	-0.20	0.20	
4,825.0	5.52	260.07	4,816.0	-20.0	-189.3	27.4	0.24	0.24	-0.48	
4,850.0	5.53	260.00	4,840.9	-20.4	-191.7	27.9	0.05	0.04	-0.28	
4,875.0	5.39	259.98	4,865.8	-20.9	-194.0	28.4	0.56	-0.56	-0.08	
4,900.0	5.11	259.64	4,890.7	-21.3	-196.3	28.9	1.13	-1.12	-1.36	
4,925.0	4.84	257.77	4,915.6	-21.7	-198.4	29.4	1.26	-1.08	-7.48	
4,950.0	4.70	257.75	4,940.5	-22.1	-200.4	30.0	0.56	-0.56	-0.08	
4,975.0	4.46	257.24	4,965.4	-22.6	-202.4	30.5	0.97	-0.96	-2.04	
5,000.0	4.41	258.99	4,990.4	-23.0	-204.3	30.9	0.58	-0.20	7.00	
5,025.0	4.31	257.29	5,015.3	-23.3	-206.1	31.4	0.65	-0.40	-6.80	
5,050.0	4.41	258.98	5,040.2	-23.7	-208.0	31.9	0.65	0.40	6.76	
5,075.0	4.39	257.31	5,065.1	-24.1	-209.9	32.3	0.52	-0.08	-6.68	
5,100.0	4.39	258.50	5,090.1	-24.5	-211.7	32.8	0.36	0.00	4.76	
5,125.0	4.82	261.34	5,115.0	-24.9	-213.7	33.2	1.95	1.72	11.36	
5,150.0	5.12	264.79	5,139.9	-25.1	-215.8	33.6	1.69	1.20	13.80	
5,175.0	5.30	264.85	5,164.8	-25.3	-218.1	33.9	0.72	0.72	0.24	
5,200.0	5.32	263.62	5,189.7	-25.6	-220.4	34.2	0.46	0.08	-4.92	
5,225.0	5.23	263.66	5,214.6	-25.8	-222.7	34.5	0.36	-0.36	0.16	
5,250.0	5.24	264.22	5,239.5	-26.1	-225.0	34.9	0.21	0.04	2.24	
5,275.0	5.22	264.19	5,264.4	-26.3	-227.2	35.2	0.08	-0.08	-0.12	
5,300.0	5.26	263.31	5,289.3	-26.5	-229.5	35.5	0.36	0.16	-3.52	
5,325.0	5.11	263.34	5,314.2	-26.8	-231.7	35.9	0.60	-0.60	0.12	
5,350.0	5.01	262.69	5,339.1	-27.1	-233.9	36.2	0.46	-0.40	-2.60	
5,375.0	5.05	262.77	5,364.0	-27.4	-236.1	36.6	0.16	0.16	0.32	
5,400.0	4.95	262.34	5,388.9	-27.6	-238.3	37.0	0.43	-0.40	-1.72	
5,425.0	4.78	261.59	5,413.8	-27.9	-240.4	37.3	0.73	-0.68	-3.00	
5,450.0	4.81	262.26	5,438.7	-28.2	-242.4	37.7	0.25	0.12	2.68	
5,475.0	4.78	261.73	5,463.6	-28.5	-244.5	38.1	0.21	-0.12	-2.12	
5,500.0	4.70	261.09	5,488.5	-28.8	-246.5	38.5	0.38	-0.32	-2.56	
5,525.0	4.56	261.14	5,513.4	-29.1	-248.5	38.9	0.56	-0.56	0.20	
5,550.0	4.64	260.22	5,538.4	-29.5	-250.5	39.3	0.44	0.32	-3.68	
5,575.0	4.57	259.96	5,563.3	-29.8	-252.5	39.7	0.29	-0.28	-1.04	
5,600.0	4.34	259.65	5,588.2	-30.2	-254.4	40.1	0.93	-0.92	-1.24	
5,625.0	4.36	258.45	5,613.1	-30.5	-256.3	40.5	0.37	0.08	-4.80	
5,650.0	4.39	258.32	5,638.0	-30.9	-258.1	41.0	0.13	0.12	-0.52	
5,675.0	4.30	259.42	5,663.0	-31.3	-260.0	41.4	0.49	-0.36	4.40	
5,700.0	4.44	258.56	5,687.9	-31.6	-261.9	41.9	0.62	0.56	-3.44	
5,725.0	4.39	259.12	5,712.8	-32.0	-263.8	42.3	0.26	-0.20	2.24	
5,750.0	4.36	257.95	5,737.8	-32.4	-265.6	42.8	0.38	-0.12	-4.68	
5,775.0	4.24	258.54	5,762.7	-32.8	-267.5	43.2	0.51	-0.48	2.36	
5,800.0	4.14	255.96	5,787.6	-33.2	-269.2	43.7	0.85	-0.40	-10.32	
5,825.0	4.24	257.93	5,812.6	-33.6	-271.0	44.2	0.70	0.40	7.88	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	4.17	255.73	5,837.5	-34.0	-272.8	44.7	0.70	-0.28	-8.80
5,875.0	4.16	254.14	5,862.4	-34.5	-274.6	45.2	0.46	-0.04	-6.36
5,900.0	4.01	253.65	5,887.4	-35.0	-276.3	45.8	0.62	-0.60	-1.96
5,925.0	4.00	253.61	5,912.3	-35.4	-277.9	46.3	0.04	-0.04	-0.16
5,950.0	3.87	254.15	5,937.2	-35.9	-279.6	46.9	0.54	-0.52	2.16
5,975.0	3.91	254.20	5,962.2	-36.4	-281.2	47.4	0.16	0.16	0.20
6,000.0	4.09	254.27	5,987.1	-36.9	-282.9	47.9	0.72	0.72	0.28
6,025.0	3.99	254.49	6,012.1	-37.3	-284.6	48.5	0.40	-0.40	0.88
6,050.0	4.03	254.10	6,037.0	-37.8	-286.3	49.0	0.19	0.16	-1.56
6,075.0	4.08	253.54	6,061.9	-38.3	-288.0	49.6	0.26	0.20	-2.24
6,100.0	4.01	255.85	6,086.9	-38.8	-289.7	50.1	0.71	-0.28	9.24
6,125.0	4.07	255.68	6,111.8	-39.2	-291.4	50.6	0.24	0.24	-0.68
6,150.0	4.05	258.33	6,136.7	-39.6	-293.1	51.1	0.75	-0.08	10.60
6,175.0	4.00	261.91	6,161.7	-39.9	-294.8	51.4	1.02	-0.20	14.32
6,200.0	4.05	261.55	6,186.6	-40.2	-296.6	51.7	0.22	0.20	-1.44
6,225.0	3.86	262.59	6,211.6	-40.4	-298.3	52.0	0.81	-0.76	4.16
6,250.0	3.66	261.65	6,236.5	-40.6	-299.9	52.3	0.84	-0.80	-3.76
6,275.0	3.29	261.55	6,261.5	-40.8	-301.4	52.6	1.48	-1.48	-0.40
6,300.0	3.35	260.68	6,286.4	-41.1	-302.8	52.9	0.31	0.24	-3.48
6,325.0	3.44	258.95	6,311.4	-41.3	-304.3	53.2	0.55	0.36	-6.92
6,350.0	3.49	260.14	6,336.3	-41.6	-305.8	53.5	0.35	0.20	4.76
6,375.0	3.37	259.43	6,361.3	-41.9	-307.3	53.9	0.51	-0.48	-2.84
6,400.0	3.46	259.01	6,386.2	-42.1	-308.7	54.2	0.37	0.36	-1.68
6,425.0	3.45	260.15	6,411.2	-42.4	-310.2	54.5	0.28	-0.04	4.56
6,450.0	3.40	264.17	6,436.2	-42.6	-311.7	54.8	0.98	-0.20	16.08
6,475.0	3.34	265.13	6,461.1	-42.8	-313.1	55.0	0.33	-0.24	3.84
6,500.0	3.41	267.79	6,486.1	-42.8	-314.6	55.1	0.69	0.28	10.64
6,525.0	3.44	266.66	6,511.0	-42.9	-316.1	55.3	0.30	0.12	-4.52
6,550.0	3.49	266.05	6,536.0	-43.0	-317.6	55.4	0.25	0.20	-2.44
6,575.0	3.29	265.10	6,560.9	-43.1	-319.1	55.6	0.83	-0.80	-3.80
6,600.0	3.33	263.48	6,585.9	-43.3	-320.5	55.8	0.41	0.16	-6.48
6,625.0	3.47	264.75	6,610.8	-43.4	-322.0	56.0	0.64	0.56	5.08
6,650.0	3.54	262.74	6,635.8	-43.6	-323.5	56.2	0.57	0.28	-8.04
6,675.0	3.69	261.07	6,660.7	-43.8	-325.1	56.5	0.73	0.60	-6.68
6,700.0	3.79	262.09	6,685.7	-44.1	-326.7	56.8	0.48	0.40	4.08
6,725.0	3.94	259.91	6,710.6	-44.3	-328.3	57.1	0.84	0.60	-8.72
6,750.0	4.29	259.52	6,735.6	-44.6	-330.1	57.5	1.40	1.40	-1.56
6,775.0	4.54	259.74	6,760.5	-45.0	-332.0	58.0	1.00	1.00	0.88
6,800.0	4.58	259.45	6,785.4	-45.3	-334.0	58.4	0.18	0.16	-1.16
6,825.0	4.56	258.23	6,810.3	-45.7	-335.9	58.9	0.40	-0.08	-4.88
6,850.0	4.62	257.30	6,835.3	-46.1	-337.9	59.4	0.38	0.24	-3.72
6,875.0	4.55	256.67	6,860.2	-46.6	-339.8	59.9	0.34	-0.28	-2.52
6,900.0	4.62	256.12	6,885.1	-47.1	-341.8	60.4	0.33	0.28	-2.20
6,925.0	4.65	256.20	6,910.0	-47.6	-343.7	61.0	0.12	0.12	0.32

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	4.65	254.90	6,934.9	-48.1	-345.7	61.6	0.42	0.00	-5.20
6,975.0	4.79	254.98	6,959.9	-48.6	-347.7	62.2	0.56	0.56	0.32
7,000.0	4.83	255.37	6,984.8	-49.1	-349.7	62.8	0.21	0.16	1.56
7,025.0	4.93	255.70	7,009.7	-49.7	-351.8	63.4	0.42	0.40	1.32
7,050.0	5.02	257.69	7,034.6	-50.2	-353.9	64.0	0.78	0.36	7.96
7,075.0	5.04	256.82	7,059.5	-50.6	-356.0	64.6	0.32	0.08	-3.48
7,100.0	5.16	259.66	7,084.4	-51.1	-358.2	65.1	1.12	0.48	11.36
7,125.0	5.26	265.13	7,109.3	-51.4	-360.4	65.5	2.03	0.40	21.88
7,150.0	5.38	267.91	7,134.2	-51.5	-362.7	65.7	1.14	0.48	11.12
7,175.0	5.26	268.82	7,159.1	-51.6	-365.1	65.9	0.59	-0.48	3.64
7,200.0	5.16	269.62	7,184.0	-51.6	-367.3	66.0	0.49	-0.40	3.20
7,225.0	4.94	271.85	7,208.9	-51.6	-369.5	66.0	1.18	-0.88	8.92
7,250.0	5.03	271.49	7,233.8	-51.5	-371.7	66.1	0.38	0.36	-1.44
7,275.0	5.07	271.61	7,258.7	-51.5	-373.9	66.1	0.17	0.16	0.48
7,300.0	4.97	271.37	7,283.6	-51.4	-376.1	66.1	0.41	-0.40	-0.96
7,325.0	4.73	270.69	7,308.5	-51.4	-378.2	66.2	0.99	-0.96	-2.72
7,350.0	4.36	268.87	7,333.4	-51.4	-380.2	66.2	1.59	-1.48	-7.28
7,375.0	3.95	267.76	7,358.3	-51.4	-382.0	66.4	1.67	-1.64	-4.44
7,400.0	3.60	264.62	7,383.3	-51.6	-383.6	66.5	1.63	-1.40	-12.56
7,425.0	3.44	262.03	7,408.2	-51.7	-385.2	66.8	0.90	-0.64	-10.36
7,450.0	3.50	261.72	7,433.2	-51.9	-386.7	67.1	0.25	0.24	-1.24
7,475.0	3.60	260.57	7,458.1	-52.2	-388.2	67.4	0.49	0.40	-4.60
7,500.0	4.13	257.22	7,483.1	-52.5	-389.8	67.7	2.30	2.12	-13.40
7,525.0	4.52	256.65	7,508.0	-52.9	-391.7	68.2	1.57	1.56	-2.28
7,550.0	4.64	253.84	7,532.9	-53.4	-393.6	68.8	1.02	0.48	-11.24
7,575.0	4.80	250.60	7,557.9	-54.1	-395.6	69.5	1.24	0.64	-12.96
7,600.0	4.89	248.11	7,582.8	-54.8	-397.5	70.4	0.91	0.36	-9.96
7,625.0	4.93	247.73	7,607.7	-55.6	-399.5	71.2	0.21	0.16	-1.52
7,650.0	5.11	248.60	7,632.6	-56.4	-401.5	72.1	0.78	0.72	3.48
7,675.0	5.20	251.06	7,657.5	-57.2	-403.7	73.0	0.95	0.36	9.84
7,700.0	5.31	251.14	7,682.4	-58.0	-405.8	73.8	0.44	0.44	0.32
7,725.0	5.52	252.79	7,707.3	-58.7	-408.1	74.6	1.05	0.84	6.60
7,750.0	5.71	250.80	7,732.1	-59.4	-410.4	75.5	1.09	0.76	-7.96
7,775.0	6.07	249.49	7,757.0	-60.3	-412.8	76.4	1.54	1.44	-5.24
7,800.0	6.44	249.59	7,781.9	-61.3	-415.4	77.5	1.48	1.48	0.40
7,825.0	6.59	249.84	7,806.7	-62.3	-418.0	78.6	0.61	0.60	1.00
7,850.0	6.59	249.84	7,831.5	-63.2	-420.7	79.7	0.00	0.00	0.00
7,875.0	6.11	251.16	7,856.4	-64.2	-423.3	80.7	2.01	-1.92	5.28
7,900.0	5.75	251.83	7,881.2	-65.0	-425.8	81.6	1.47	-1.44	2.68
7,925.0	5.11	253.29	7,906.1	-65.7	-428.0	82.4	2.62	-2.56	5.84
7,950.0	4.86	254.24	7,931.0	-66.3	-430.1	83.1	1.05	-1.00	3.80
7,975.0	4.68	256.73	7,956.0	-66.8	-432.1	83.7	1.10	-0.72	9.96
8,000.0	4.64	256.35	7,980.9	-67.3	-434.1	84.3	0.20	-0.16	-1.52

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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	4.62	257.14	8,005.8	-67.8	-436.1	84.8	0.27	-0.08	3.16	
8,050.0	4.51	258.21	8,030.7	-68.2	-438.0	85.3	0.56	-0.44	4.28	
8,075.0	4.22	259.17	8,055.6	-68.6	-439.9	85.7	1.20	-1.16	3.84	
8,100.0	4.02	257.89	8,080.6	-68.9	-441.6	86.2	0.88	-0.80	-5.12	
8,125.0	3.80	256.46	8,105.5	-69.3	-443.3	86.6	0.96	-0.88	-5.72	
8,150.0	3.54	253.74	8,130.5	-69.7	-444.8	87.1	1.25	-1.04	-10.88	
8,175.0	3.29	252.92	8,155.4	-70.1	-446.3	87.6	1.02	-1.00	-3.28	
8,200.0	2.93	254.34	8,180.4	-70.5	-447.6	88.0	1.47	-1.44	5.68	
8,225.0	2.77	254.45	8,205.4	-70.9	-448.8	88.4	0.64	-0.64	0.44	
8,250.0	2.58	254.11	8,230.3	-71.2	-449.9	88.7	0.76	-0.76	-1.36	
8,275.0	2.42	253.06	8,255.3	-71.5	-450.9	89.1	0.67	-0.64	-4.20	
8,300.0	2.52	252.04	8,280.3	-71.8	-452.0	89.5	0.44	0.40	-4.08	
8,325.0	2.45	258.54	8,305.3	-72.1	-453.0	89.8	1.16	-0.28	26.00	
8,350.0	2.52	254.79	8,330.2	-72.3	-454.1	90.1	0.71	0.28	-15.00	
8,375.0	2.38	255.11	8,355.2	-72.6	-455.1	90.4	0.56	-0.56	1.28	
8,400.0	2.29	252.01	8,380.2	-72.9	-456.1	90.7	0.62	-0.36	-12.40	
8,425.0	2.30	255.54	8,405.2	-73.2	-457.0	91.0	0.57	0.04	14.12	
8,450.0	2.30	257.00	8,430.1	-73.4	-458.0	91.3	0.23	0.00	5.84	
8,475.0	2.43	261.98	8,455.1	-73.6	-459.0	91.5	0.97	0.52	19.92	
8,500.0	2.47	266.44	8,480.1	-73.7	-460.1	91.7	0.78	0.16	17.84	
8,525.0	2.46	270.66	8,505.1	-73.7	-461.1	91.7	0.73	-0.04	16.88	
8,550.0	2.34	269.94	8,530.1	-73.7	-462.2	91.8	0.49	-0.48	-2.88	
8,575.0	2.18	272.56	8,555.0	-73.7	-463.2	91.8	0.76	-0.64	10.48	
8,600.0	2.12	269.86	8,580.0	-73.7	-464.1	91.8	0.47	-0.24	-10.80	
8,625.0	2.12	273.25	8,605.0	-73.7	-465.0	91.8	0.50	0.00	13.56	
8,650.0	2.12	272.29	8,630.0	-73.6	-466.0	91.8	0.14	0.00	-3.84	
8,675.0	2.04	265.52	8,655.0	-73.6	-466.9	91.9	1.03	-0.32	-27.08	
8,700.0	2.04	266.40	8,680.0	-73.7	-467.8	92.0	0.13	0.00	3.52	
8,706.0	1.90	268.16	8,686.0	-73.7	-468.0	92.0	2.54	-2.33	29.33	
8,749.0	1.97	266.59	8,728.9	-73.8	-469.4	92.1	0.20	0.16	-3.65	
8,837.0	1.82	264.33	8,816.9	-74.0	-472.3	92.4	0.19	-0.17	-2.57	
8,893.0	1.80	261.61	8,872.8	-74.2	-474.1	92.7	0.16	-0.04	-4.86	
8,957.0	4.95	187.33	8,936.8	-77.1	-475.4	95.7	7.48	4.92	-116.06	
8,987.0	8.80	186.17	8,966.5	-80.7	-475.8	99.2	12.84	12.83	-3.87	
9,083.0	15.49	184.23	9,060.3	-100.8	-477.6	119.4	6.98	6.97	-2.02	
9,178.0	22.01	189.10	9,150.2	-131.0	-481.3	149.8	7.05	6.86	5.13	
9,209.0	25.91	187.34	9,178.6	-143.5	-483.1	162.3	12.79	12.58	-5.68	
9,273.0	28.06	183.61	9,235.6	-172.4	-485.8	191.3	4.27	3.36	-5.83	
9,334.0	32.58	181.34	9,288.2	-203.1	-487.1	222.1	7.64	7.41	-3.72	
9,343.0	33.90	181.54	9,295.8	-208.1	-487.3	227.0	14.67	14.62	2.17	
FTP @ 9343'MD										
9,366.0	37.26	181.98	9,314.5	-221.5	-487.7	240.4	14.67	14.63	1.93	
9,398.0	44.77	182.72	9,338.6	-242.4	-488.5	261.4	23.52	23.47	2.31	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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)	
9,429.0	48.64	182.30	9,359.9	-265.0	-489.5	283.9	12.52	12.48	-1.35	
9,461.0	52.80	180.35	9,380.1	-289.7	-490.1	308.7	13.83	13.00	-6.09	
9,493.0	58.38	176.57	9,398.2	-316.1	-489.3	335.0	19.97	17.44	-11.81	
9,525.0	64.08	175.32	9,413.6	-344.0	-487.4	362.9	18.14	17.81	-3.91	
9,556.0	69.57	174.87	9,425.8	-372.4	-484.9	391.1	17.76	17.71	-1.45	
9,588.0	75.91	177.25	9,435.3	-402.9	-482.8	421.5	21.05	19.81	7.44	
9,620.0	80.80	180.44	9,441.7	-434.2	-482.2	452.8	18.13	15.28	9.97	
9,650.0	86.21	183.26	9,445.1	-464.0	-483.2	482.6	20.31	18.03	9.40	
9,744.0	91.96	184.79	9,446.6	-557.7	-489.8	576.5	6.33	6.12	1.63	
9,840.0	92.28	183.28	9,443.1	-653.4	-496.5	672.4	1.61	0.33	-1.57	
9,935.0	93.02	181.34	9,438.7	-748.2	-500.3	767.3	2.18	0.78	-2.04	
10,030.0	91.33	183.50	9,435.1	-843.1	-504.3	862.2	2.89	-1.78	2.27	
10,126.0	91.24	181.45	9,432.9	-938.9	-508.5	958.1	2.14	-0.09	-2.14	
10,221.0	88.49	177.20	9,433.2	-1,033.9	-507.4	1,053.0	5.33	-2.89	-4.47	
10,315.0	90.68	178.74	9,433.8	-1,127.8	-504.0	1,146.7	2.85	2.33	1.64	
10,410.0	92.55	180.61	9,431.2	-1,222.8	-503.5	1,241.6	2.78	1.97	1.97	
10,505.0	95.36	188.34	9,424.6	-1,317.2	-510.9	1,336.2	8.64	2.96	8.14	
10,600.0	92.66	188.20	9,417.9	-1,411.0	-524.5	1,430.4	2.85	-2.84	-0.15	
10,695.0	90.89	185.23	9,415.0	-1,505.3	-535.6	1,525.1	3.64	-1.86	-3.13	
10,789.0	90.05	180.38	9,414.2	-1,599.1	-540.2	1,619.0	5.24	-0.89	-5.16	
10,885.0	88.89	178.22	9,415.1	-1,695.1	-539.0	1,714.9	2.55	-1.21	-2.25	
10,974.0	92.59	177.41	9,414.0	-1,784.0	-535.6	1,803.6	4.26	4.16	-0.91	
11,068.0	91.18	177.46	9,410.9	-1,877.9	-531.4	1,897.2	1.50	-1.50	0.05	
11,162.0	89.42	177.28	9,410.4	-1,971.8	-527.1	1,990.9	1.88	-1.87	-0.19	
11,257.0	89.45	177.08	9,411.3	-2,066.6	-522.5	2,085.5	0.21	0.03	-0.21	
11,352.0	92.18	183.59	9,410.0	-2,161.6	-523.0	2,180.4	7.43	2.87	6.85	
11,447.0	92.45	183.79	9,406.1	-2,256.3	-529.1	2,275.3	0.35	0.28	0.21	
11,542.0	87.16	182.99	9,406.5	-2,351.1	-534.7	2,370.2	5.63	-5.57	-0.84	
11,637.0	87.43	183.14	9,410.9	-2,445.8	-539.8	2,465.1	0.33	0.28	0.16	
11,732.0	88.09	180.95	9,414.7	-2,540.7	-543.2	2,560.0	2.41	0.69	-2.31	
11,827.0	88.14	180.22	9,417.8	-2,635.6	-544.2	2,654.9	0.77	0.05	-0.77	
11,920.0	89.01	179.84	9,420.1	-2,728.6	-544.2	2,747.8	1.02	0.94	-0.41	
12,014.0	87.26	180.08	9,423.2	-2,822.6	-544.1	2,841.7	1.88	-1.86	0.26	
12,109.0	87.73	178.29	9,427.3	-2,917.5	-542.8	2,936.5	1.95	0.49	-1.88	
12,204.0	90.59	174.99	9,428.7	-3,012.3	-537.2	3,031.0	4.60	3.01	-3.47	
12,299.0	94.23	175.16	9,424.7	-3,106.8	-529.1	3,125.2	3.84	3.83	0.18	
12,394.0	95.46	177.44	9,416.7	-3,201.3	-523.0	3,219.3	2.72	1.29	2.40	
12,489.0	89.66	178.33	9,412.4	-3,296.1	-519.5	3,313.9	6.18	-6.11	0.94	
12,584.0	88.03	178.11	9,414.4	-3,391.0	-516.5	3,408.6	1.73	-1.72	-0.23	
12,679.0	91.34	178.99	9,414.9	-3,486.0	-514.1	3,503.4	3.61	3.48	0.93	
12,774.0	90.12	176.92	9,413.7	-3,580.9	-510.7	3,598.1	2.53	-1.28	-2.18	
12,868.0	93.39	179.02	9,410.8	-3,674.8	-507.4	3,691.8	4.13	3.48	2.23	
12,964.0	90.78	179.76	9,407.3	-3,770.7	-506.4	3,787.6	2.83	-2.72	0.77	
13,058.0	90.43	178.84	9,406.3	-3,864.7	-505.2	3,881.5	1.05	-0.37	-0.98	

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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)
13,151.0	90.07	178.74	9,405.9	-3,957.6	-503.3	3,974.3	0.40	-0.39	-0.11
13,246.0	91.10	179.75	9,404.9	-4,052.6	-502.0	4,069.2	1.52	1.08	1.06
13,341.0	92.52	180.63	9,401.9	-4,147.6	-502.3	4,164.1	1.76	1.49	0.93
13,436.0	90.99	179.96	9,399.0	-4,242.5	-502.8	4,259.0	1.76	-1.61	-0.71
13,531.0	89.11	177.80	9,398.9	-4,337.5	-501.0	4,353.8	3.01	-1.98	-2.27
13,626.0	91.39	177.91	9,398.5	-4,432.4	-497.4	4,448.5	2.40	2.40	0.12
13,721.0	94.45	179.53	9,393.7	-4,527.3	-495.3	4,543.2	3.64	3.22	1.71
13,816.0	90.48	179.25	9,389.6	-4,622.1	-494.3	4,638.0	4.19	-4.18	-0.29
13,909.0	89.56	178.65	9,389.6	-4,715.1	-492.6	4,730.8	1.18	-0.99	-0.65
14,004.0	92.63	179.19	9,387.7	-4,810.1	-490.8	4,825.6	3.28	3.23	0.57
14,098.0	90.26	180.08	9,385.4	-4,904.0	-490.2	4,919.5	2.69	-2.52	0.95
14,191.0	89.83	179.15	9,385.3	-4,997.0	-489.6	5,012.4	1.10	-0.46	-1.00
14,285.0	88.85	181.15	9,386.4	-5,091.0	-489.8	5,106.3	2.37	-1.04	2.13
14,380.0	92.21	182.92	9,385.5	-5,185.9	-493.2	5,201.3	4.00	3.54	1.86
14,476.0	90.01	182.49	9,383.6	-5,281.8	-497.7	5,297.3	2.34	-2.29	-0.45
14,571.0	91.04	183.49	9,382.8	-5,376.7	-502.7	5,392.2	1.51	1.08	1.05
14,666.0	87.66	182.45	9,383.9	-5,471.5	-507.6	5,487.2	3.72	-3.56	-1.09
14,761.0	86.32	181.65	9,388.8	-5,566.3	-511.0	5,582.1	1.64	-1.41	-0.84
14,856.0	86.43	180.55	9,394.9	-5,661.1	-512.8	5,676.9	1.16	0.12	-1.16
14,951.0	88.30	180.55	9,399.2	-5,756.0	-513.7	5,771.7	1.97	1.97	0.00
15,046.0	89.24	178.99	9,401.3	-5,851.0	-513.3	5,866.6	1.92	0.99	-1.64
15,141.0	90.14	179.28	9,401.8	-5,946.0	-511.9	5,961.5	1.00	0.95	0.31
15,236.0	91.24	179.72	9,400.6	-6,041.0	-511.1	6,056.4	1.25	1.16	0.46
15,331.0	88.10	178.78	9,401.2	-6,135.9	-509.8	6,151.2	3.45	-3.31	-0.99
15,426.0	93.51	180.09	9,399.8	-6,230.9	-508.9	6,246.0	5.86	5.69	1.38
15,521.0	94.75	180.26	9,393.0	-6,325.6	-509.2	6,340.7	1.32	1.31	0.18
15,616.0	94.28	180.09	9,385.5	-6,420.4	-509.5	6,435.4	0.53	-0.49	-0.18
15,710.0	97.82	182.08	9,375.6	-6,513.8	-511.2	6,528.8	4.31	3.77	2.12
15,805.0	93.35	183.93	9,366.4	-6,608.2	-516.2	6,623.3	5.09	-4.71	1.95
15,899.0	88.05	183.68	9,365.2	-6,701.9	-522.4	6,717.3	5.64	-5.64	-0.27
15,994.0	85.28	181.07	9,370.7	-6,796.7	-526.4	6,812.1	4.00	-2.92	-2.75
16,088.0	88.64	180.39	9,375.7	-6,890.5	-527.5	6,905.9	3.65	3.57	-0.72
16,114.0	90.12	180.55	9,376.0	-6,916.5	-527.8	6,931.9	5.73	5.69	0.62
16,184.0	88.00	180.13	9,377.2	-6,986.5	-528.2	7,001.8	3.09	-3.03	-0.60
16,279.0	89.84	178.97	9,379.0	-7,081.5	-527.4	7,096.7	2.29	1.94	-1.22
16,374.0	91.11	178.80	9,378.2	-7,176.5	-525.6	7,191.5	1.35	1.34	-0.18
16,469.0	91.04	178.84	9,376.4	-7,271.4	-523.6	7,286.3	0.08	-0.07	0.04
16,564.0	88.45	177.81	9,376.8	-7,366.4	-520.9	7,381.1	2.93	-2.73	-1.08
16,659.0	90.23	176.38	9,377.9	-7,461.2	-516.0	7,475.7	2.40	1.87	-1.51
16,754.0	91.17	176.90	9,376.7	-7,556.1	-510.5	7,570.3	1.13	0.99	0.55
16,849.0	91.90	176.49	9,374.2	-7,650.9	-505.0	7,664.8	0.88	0.77	-0.43
16,943.0	92.66	177.09	9,370.5	-7,744.6	-499.7	7,758.3	1.03	0.81	0.64
17,038.0	95.66	179.87	9,363.6	-7,839.3	-497.2	7,852.8	4.30	3.16	2.93

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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)
17,133.0	93.97	183.24	9,355.6	-7,934.0	-499.8	7,947.4	3.96	-1.78	3.55
17,228.0	88.97	182.43	9,353.1	-8,028.8	-504.5	8,042.4	5.33	-5.26	-0.85
17,323.0	88.36	182.36	9,355.4	-8,123.7	-508.5	8,137.3	0.65	-0.64	-0.07
17,418.0	87.79	183.15	9,358.6	-8,218.5	-513.0	8,232.3	1.03	-0.60	0.83
17,513.0	89.31	181.84	9,361.0	-8,313.4	-517.2	8,327.3	2.11	1.60	-1.38
17,608.0	89.03	180.78	9,362.3	-8,408.3	-519.3	8,422.2	1.15	-0.29	-1.12
17,703.0	89.29	180.33	9,363.7	-8,503.3	-520.2	8,517.2	0.55	0.27	-0.47
17,798.0	89.72	180.59	9,364.5	-8,598.3	-521.0	8,612.1	0.53	0.45	0.27
17,893.0	91.01	182.73	9,363.9	-8,693.3	-523.8	8,707.1	2.63	1.36	2.25
17,988.0	85.83	181.36	9,366.6	-8,788.1	-527.1	8,802.0	5.64	-5.45	-1.44
18,023.0	84.66	181.19	9,369.5	-8,823.0	-527.9	8,836.9	3.38	-3.34	-0.49
18,083.0	85.79	179.12	9,374.5	-8,882.8	-528.1	8,896.7	3.92	1.88	-3.45
18,186.0	87.72	176.94	9,380.3	-8,985.6	-524.5	8,999.2	2.82	1.87	-2.12
18,281.0	89.89	176.89	9,382.3	-9,080.4	-519.4	9,093.8	2.28	2.28	-0.05
18,376.0	89.84	177.67	9,382.5	-9,175.3	-514.9	9,188.4	0.82	-0.05	0.82
18,472.0	90.85	178.98	9,381.9	-9,271.2	-512.1	9,284.2	1.72	1.05	1.36
18,566.0	90.31	179.27	9,381.0	-9,365.2	-510.7	9,378.0	0.65	-0.57	0.31
18,661.0	92.41	179.32	9,378.7	-9,460.2	-509.5	9,472.9	2.21	2.21	0.05
18,755.0	92.63	179.04	9,374.6	-9,554.1	-508.2	9,566.7	0.38	0.23	-0.30
18,850.0	91.85	177.54	9,370.9	-9,649.0	-505.3	9,661.4	1.78	-0.82	-1.58
18,945.0	91.03	177.72	9,368.5	-9,743.9	-501.4	9,756.0	0.88	-0.86	0.19
19,040.0	90.90	177.72	9,366.9	-9,838.8	-497.6	9,850.7	0.14	-0.14	0.00
19,135.0	90.54	177.63	9,365.7	-9,933.7	-493.8	9,945.4	0.39	-0.38	-0.09
19,230.0	91.81	178.11	9,363.7	-10,028.6	-490.2	10,040.1	1.43	1.34	0.51
19,325.0	90.91	179.86	9,361.5	-10,123.5	-488.6	10,134.9	2.07	-0.95	1.84
19,420.0	90.60	179.81	9,360.2	-10,218.5	-488.3	10,229.8	0.33	-0.33	-0.05
19,516.0	89.71	179.43	9,360.0	-10,314.5	-487.7	10,325.7	1.01	-0.93	-0.40
19,610.0	91.76	181.21	9,358.8	-10,408.5	-488.2	10,419.6	2.89	2.18	1.89
19,705.0	90.09	180.80	9,357.2	-10,503.5	-489.8	10,514.6	1.81	-1.76	-0.43
19,800.0	88.95	180.78	9,358.0	-10,598.5	-491.2	10,609.6	1.20	-1.20	-0.02
19,895.0	88.93	180.78	9,359.8	-10,693.4	-492.5	10,704.5	0.02	-0.02	0.00
19,990.0	88.26	180.47	9,362.1	-10,788.4	-493.5	10,799.5	0.78	-0.71	-0.33
20,084.0	87.83	180.33	9,365.3	-10,882.4	-494.1	10,893.4	0.48	-0.46	-0.15
20,177.0	89.91	179.69	9,367.2	-10,975.3	-494.2	10,986.3	2.34	2.24	-0.69
20,272.0	90.34	179.48	9,366.9	-11,070.3	-493.5	11,081.2	0.50	0.45	-0.22
20,367.0	92.31	179.43	9,364.7	-11,165.3	-492.6	11,176.0	2.07	2.07	-0.05
20,461.0	90.18	178.82	9,362.7	-11,259.3	-491.1	11,269.8	2.36	-2.27	-0.65
20,554.0	90.34	179.13	9,362.3	-11,352.2	-489.5	11,362.7	0.38	0.17	0.33
20,649.0	89.39	179.07	9,362.5	-11,447.2	-488.0	11,457.6	1.00	-1.00	-0.06
20,742.0	87.95	178.47	9,364.7	-11,540.2	-486.0	11,550.4	1.68	-1.55	-0.65
20,837.0	88.46	180.39	9,367.6	-11,635.1	-485.0	11,645.2	2.09	0.54	2.02
20,933.0	91.78	181.12	9,367.4	-11,731.1	-486.3	11,741.1	3.54	3.46	0.76
21,028.0	91.98	181.24	9,364.3	-11,826.0	-488.3	11,836.1	0.25	0.21	0.13

ConocoPhillips

Survey Report



Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well BOO RADLEY COM #703H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	KB=26' @ 3021.0usft (HP 486)
Site:	BOO RADLEY COM PROJECT	MD Reference:	KB=26' @ 3021.0usft (HP 486)
Well:	BOO RADLEY COM #703H	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)	
21,122.0	93.40	182.09	9,359.9	-11,919.9	-491.0	11,930.0	1.76	1.51	0.90	
21,217.0	92.85	181.27	9,354.7	-12,014.7	-493.8	12,024.8	1.04	-0.58	-0.86	
21,312.0	89.14	180.75	9,353.1	-12,109.6	-495.4	12,119.8	3.94	-3.91	-0.55	
21,369.0	87.74	180.20	9,354.6	-12,166.6	-495.9	12,176.7	2.64	-2.46	-0.96	
21,406.0	87.51	179.92	9,356.2	-12,203.6	-495.9	12,213.7	0.98	-0.62	-0.76	
21,501.0	87.46	179.38	9,360.3	-12,298.5	-495.4	12,308.5	0.57	-0.05	-0.57	
21,595.0	89.42	179.40	9,362.9	-12,392.5	-494.4	12,402.3	2.09	2.09	0.02	
21,690.0	88.01	178.12	9,365.0	-12,487.4	-492.3	12,497.1	2.00	-1.48	-1.35	
21,784.0	87.42	176.74	9,368.8	-12,581.2	-488.1	12,590.7	1.60	-0.63	-1.47	
21,879.0	86.05	175.89	9,374.2	-12,675.9	-482.0	12,685.0	1.70	-1.44	-0.89	
21,885.0	85.97	175.82	9,374.6	-12,681.8	-481.6	12,691.0	1.67	-1.27	-1.09	
LTP @ 21885'MD										
21,935.0	85.34	175.28	9,378.4	-12,731.6	-477.7	12,740.5	1.67	-1.27	-1.09	
LAST MWD @ 21935'MD										
21,999.0	85.34	175.28	9,383.6	-12,795.1	-472.5	12,803.8	0.00	0.00	0.00	
PTD @ 21999'MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,343.0	9,295.8	-208.1	-487.3	FTP @ 9343'MD	
21,885.0	9,374.6	-12,681.8	-481.6	LTP @ 21885'MD	
21,935.0	9,378.4	-12,731.6	-477.7	LAST MWD @ 21935'MD	
21,999.0	9,383.6	-12,795.1	-472.5	PTD @ 21999'MD	

Checked By: _____ Approved By: _____ Date: _____

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

04/27/2022

Well Name: BOO RADLEY FEDERAL COM	Well Location: T26-S / R28-E / SEC 16 / NWNE / 32.035174 / -104.090096	County or Parish/State: EDDY / NM
Well Number: 703H	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: 3001547349	Well Status: Drilling Well	Operator: COG OPERATING LLC

Notification

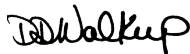
Sundry ID:	2658107		
Type of Submission:	Notification	Type of Action:	Hydraulic Fracturing
Date Sundry Submitted:	Feb 21, 2022	Time Sundry Submitted:	10:17:55 AM
Date Operation will begin:	Sep 1, 2021	Time Operation will begin:	11:00:00 PM
Field Contact Name:	Danielle Walkup	Field Contact Number:	4326889053
Rig Name:	H&P	Rig Number:	486
Procedure Description:	09/01/2021 - Test 9 5/8" x 5 1/2" annulus to 1500# 9/03/2021 - Set CBD @ 21,860' and test csg to 11,622psi. Good Test. 12/6/2021 – 1/2/2022 Perf 9,563 – 21,841' (1736 Shots) Frac w/ 35,477,790 total proppant & 606,360bbl clean fluid 2/14/2022 – 2/17/2022 Drilled out CPFs. Clean down to PBTD @ 21,860'. 2/19/2022 - Set 2 7/8 6.5# L-80tbg @ 8,954'. Installed gas lift system.		
Disposition:	Accepted		
Accepted Date:	02/22/2022		

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. 30-015-47349		
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: 703H		
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	1550	E	EDDY
BH:	3	33	26S	28E		217	S	2060	E	EDDY
13. Date Spudded 2/27/2021	14. Date T.D. Reached 3/28/2021	15. Date Rig Released 3/31/2021			16. Date Completed (Ready to Produce) 2/28/2022			17. Elevations (DF and RKB, RT, GR, etc.) 2995		
18. Total Measured Depth of Well 21,999			19. Plug Back Measured Depth 21860			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		8815		8.75		800 SKS		
5.5		23.0		21999		6.75		1425 SKS		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
						SIZE	DEPTH SET	PACKER SET		
						2.875	8954			
26. Perforation record (interval, size, and number) 9563-21841, .38, 1736 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9563-21841		35,447,790LBS OF PROPPANT IN 606,360BBLs CLEAN FLUID		
28. PRODUCTION										
Date First Production 2/28/2022		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 2/28/2022	Hours Tested 24	Choke Size 10/64	Prod'n For Test Period	Oil - Bbl 19	Gas - MCF 64	Water - Bbl. 2732	Gas - Oil Ratio 3368			
Flow Tubing Press. 124	Casing Pressure 1350	Calculated 24-Hour Rate	Oil - Bbl. 19	Gas - MCF 64	Water - Bbl. 2732	Oil Gravity - API - (<i>Corr.</i>) 46.4				
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



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	659	T. Canyon	T. Ojo Alamo	T. Penn A"	
T. Salt	816	T. Strawn	T. Kirtland	T. Penn. "B"	
B. Salt	2254	T. Atoka	T. Fruitland	T. Penn. "C"	
T. Lamar	2456	T. Miss	T. Pictured Cliffs	T. Penn. "D"	
T. Bell Canyon	2492	T. Devonian	T. Cliff House	T. Leadville	
T. Cherry Canyon	3357	T. Silurian	T. Menefee	T. Madison	
T. Brushy Canyon	4609	T. Montoya	T. Point Lookout	T. Elbert	
T. Bone Spring Lime	6192	T. Simpson	T. Mancos	T. McCracken	
T. 1 st Bone Spring	7120	T. McKee	T. Gallup	T. Ignacio Otzte	
T. 2 nd Bone Spring	7873	T. Ellenburger	Base Greenhorn	T. Granite	
T. 3 rd Bone Spring	8910	T. Gr. Wash	T. Dakota		
Wolfcamp	9229	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
------	----	----------------------	-----------	------	----	----------------------	-----------

--	--	--	--	--	--	--	--	--

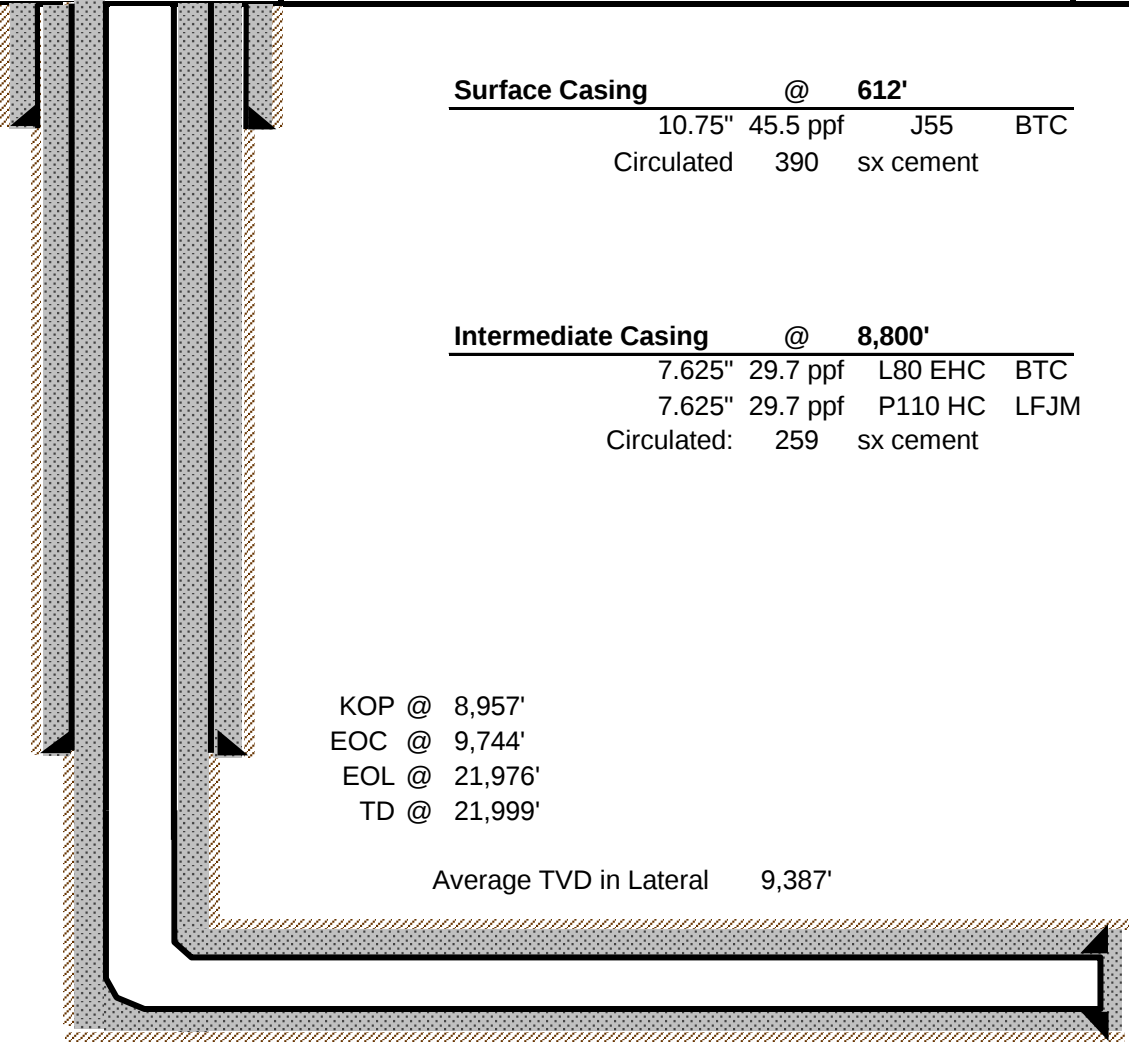
CURRENT WELL SKETCH

API: 30-015-47349
SPUD: 2/27/2021
FRR: 3/31/2021
RIG: H&P 486

Boo Radley Com 703H
Purple Sage; Wolfcamp
Eddy County

Sec 16 T/B 26S R/Svy 28E
SHL: 200' FSL & 1,550' FEL
BHL: 217' FSL & 2,060' FEL (est.)
Sec 33 T/B 26S R/Svy 28E
GL: 2,995'
KB: 3,021'
ZERO: 26'

HOLE SIZE
MW
BHST
Evaluation



Surface to 5,803'
5,803' to 8,800'

Notes: Wet Shoe

Surface to 8,583'
8,583' to 21,976'

14.75"
8.4 (ppg)
No Logs

9.875"/8.75"
9.4 (ppg)
No Logs

6.75"
11.4 (ppg)
163°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/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 141304

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141304
	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
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

CONDITIONS

Action 141304

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 141304
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	11/3/2025