Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-025-55648

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 10/14/2025

Additional Operator Remarks

Location of Well

0. SHL: SENW / 2365 FNL / 1440 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102125 / LONG: -103.393424 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 1 FNL / 2450 FEL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094109 / LONG: -103.388913 (TVD: 12550 feet, MD: 15591 feet)

PPP: NWSE / 2540 FSL / 2450 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101091 / LONG: -103.388921 (TVD: 12550 feet, MD: 12951 feet)

BHL: SWSE / 50 FSL / 2450 FEL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.079744 / LONG: -103.388896 (TVD: 12550 feet, MD: 20638 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-025- 55648	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp	
Property Code 338321	Property Name BOATER FEDERAL COM		Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING LLC		Ground Level Elevation 3279.2'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1440 FWL	32.102125°N	103.393424°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	32	25-S	35-E		50 FSL	2450 FEL	32.079744°N	103.388896°W	LEA

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
960	~~Defining~~			Com
Order Numbers.			Well setbacks are under Common Ownership: ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1440 FWL	32.102125°N	103.393424°W	LEA

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	29	25-S	35-E		2540 FSL	2450 FEL	32.101091°N	103.388921°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
O	32	25-S	35-E		100 FSL	2450 FEL	32.079882°N	103.388896°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3279.2'

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Signature: Stan Wagner Date: 7/7/25

Printed Name: Stan Wagner

Email Address:

SURVEYOR CERTIFICATIONS

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

CHAD L. HARCROW NEW MEXICO 17777 LICENSED PROFESSIONAL SURVEYOR

Chad Harcrow 6/6/25

Signature and Seal of Professional Suveyor

Certificate Number: 17777

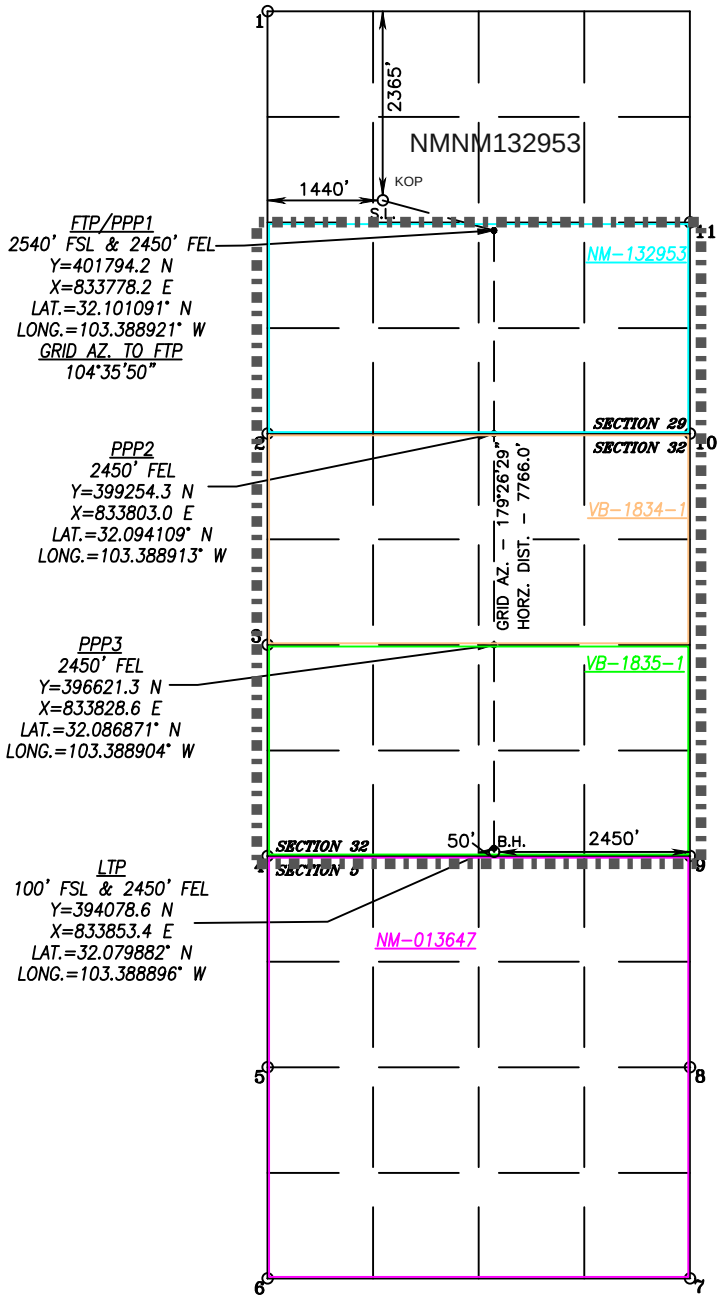
Date of Survey: MAY 28, 2025

W.O.#25-506 | DRAWN BY: WN | PAGE 1 OF 2

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



KOP

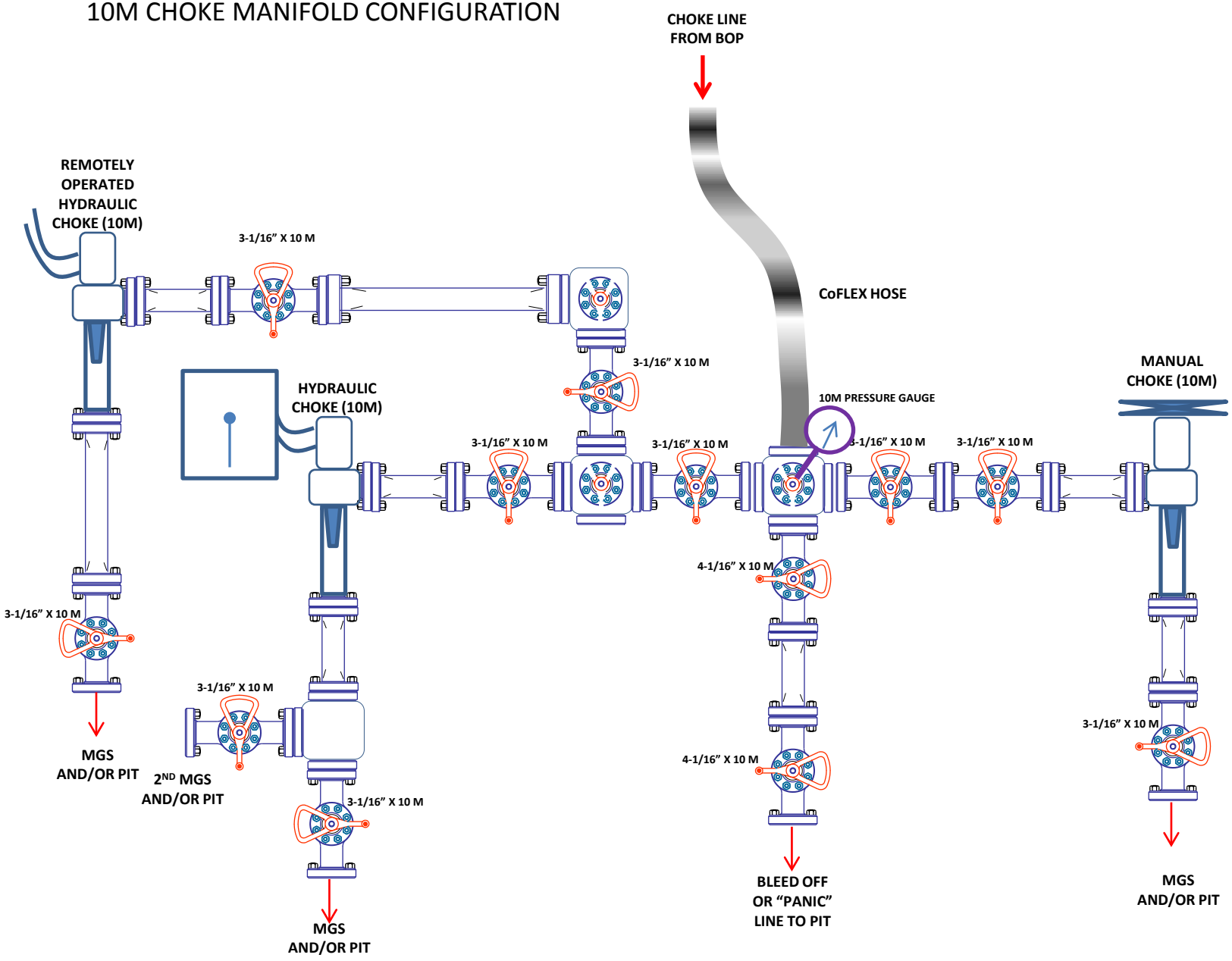
NAD 83 NME
SURFACE LOCATION
Y=402158.2 N
X=832380.5 E
LAT.=32.102125° N
LONG.=103.393424° W

POINT LEGEND	
1	Y=404513.1 N X=830918.0 E
2	Y=399234.4 N X=830968.3 E
3	Y=396607.8 N X=830995.2 E
4	Y=393959.5 N X=831020.5 E
5	Y=391316.9 N X=831048.4 E
6	Y=388675.4 N X=831074.4 E
7	Y=388711.3 N X=836356.4 E
8	Y=391351.2 N X=836332.1 E
9	Y=393995.1 N X=836304.4 E
10	Y=399270.9 N X=836252.9 E
11	Y=401910.4 N X=836227.2 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=394028.6 N
X=833853.9 E
LAT.=32.079744° N
LONG.=103.388896° W

PAGE 2 OF 2

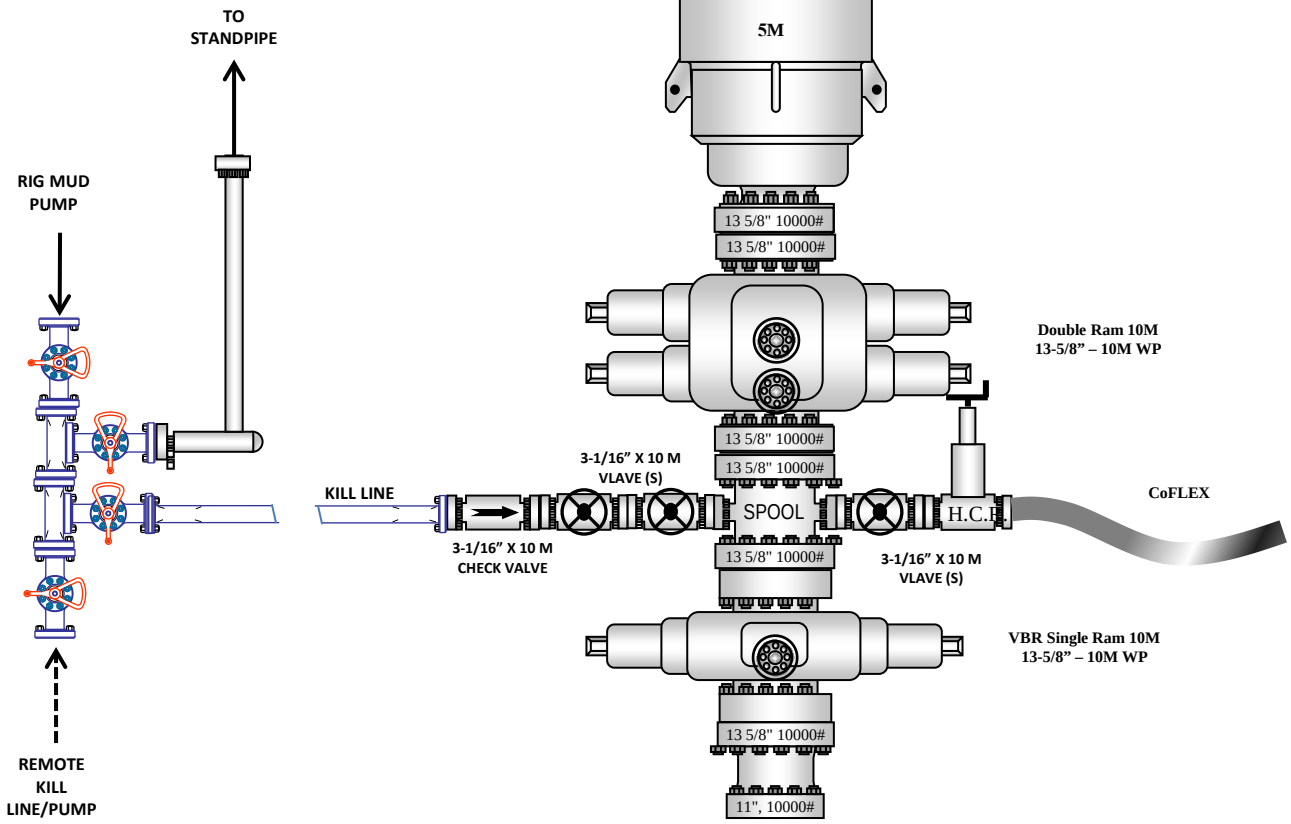
10M CHOKE MANIFOLD CONFIGURATION



10M BOP Stack

10M BOP Stack
(5M Annular)

10M REMOTE KILL SCHEMATIC



ConocoPhillips - Boater Federal Com 702H

General Information	
Operator	ConocoPhillips
Well Name	Boater Federal Com 702H
Target Formation	Wolfcamp A
Date	7/8/2025

TVD of Target:	12,550' EOL	Pilot hole depth:	N/A
MD at TD:	20,639'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazar
Quaternary Fill	Surface	Water	
Rustler	717	Water	
Top of Salt	876	Salt	
Base of Salt	5159	Salt	
Lamar	5279	Salt Water	
Bell Canyon	5284	Salt Water	
Cherry Canyon	6280	Oil/Gas	
Brushy Canyon	7961	Oil/Gas	
Bone Spring	9230	Oil/Gas	
1st Bone Spring Sand	10377	Oil/Gas	
2nd Bone Spring Sand	10909	Oil/Gas	
3rd Bone Spring Sand	12022	Oil/Gas	
Wolfcamp	12425	Oil/Gas	
Wolfcamp A	12545	Target Oil/Gas	

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse
	From	To					
14.75"	0	726	10.75"	45.5	J55	BTC	6.29
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.47
8.750"	8200	12101	7.625"	29.7	P110-ICY	W513	2.84
6.75"	0	11901	5.5"	23	P110-CY	BTC	3.37
6.75"	11901	20,639	5.5"	23	P110-CY	W441	3.28
				BLM Minimum Safety Factor			1.125

Is casing new? If used, attach certification as required in Onshore Order #1
Does casing meet API specifications? If no, attach casing specification sheet.
Is premium or uncommon casing planned? If yes attach casing specification sheet.
Does the above casing design meet or exceed BLM's minimum standards? If not provide justificati (loading assumptions, casing design criteria).
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?
Is well located within Capitan Reef?
If yes, does production casing cement tie back a minimum of 50' above the Reef?
Is well within the designated 4 string boundary?
Is well located in SOPA but not in R-111-P?
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back
500' into previous casing?
Is well located in R-111-P and SOPA?
If yes, are the first three strings cemented to surface?
Is 2nd string set 100' to 600' below the base of salt?
Is well located in high Cave/Karst?
If yes, are there two strings cemented to surface?
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?
Is well located in critical Cave/Karst?
If yes, are there three strings cemented to surface?

DVT Depth	5279

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hrs)	
Surf.	203	13.5	1.75	9	12	Lead: Class
	187	14.8	1.34	6.34	8	Tail: Class
Int. Stage 1	1184	11	2.54	15.33	12	Lead: Class
	112	14.8	1.34	6.52	8	Tail: Class
Int. Stage 2	555	12.9	1.9	10.52	24	Lead: Class
	192	14.8	1.34	6.52	8	Tail: Class
Prod	657	12.7	1.68	9.09	72	Lead: Clas
	835	14.5	1.18	5.26	19	Tail: Class

Casing String	TOC	% Excess
Surface	0'	50% in OH
Int Stg 1	0'	50% in OH
Int Stg 2	0'	20% in OH

Production	11,601'	35% OH in Lateral (KOP to EOL)

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hrs)	
Surf.	203	13.5	1.75	9	12	Lead: Class
	187	14.8	1.34	6.34	8	Tail: Class
Bradenhead Stage 1	423	15.6	1.216	5.28	6	Stage 1 Le
	134	16.2	1.123	4.6	11	Stage 1 Ta
Bradenhead Stage 2	2500	14.8	1.5	7.2	4	Bradenhea
	400	14.8	1.33	6.4	5	Top Out: C
Prod	657	12.7	1.68	9.09	72	Lead: Clas
	835	14.5	1.18	5.26	19	Tail: Class

Casing String	TOC	% Excess
Surface	0’	50% in OH
BH Stg 1	0’	50% in OH
BH Stg 2	7,961'	121%
Production	11,601'	35% OH in Lateral (KOP to EOL)

Sur
Interm
Interm
Productio

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8”	13-5/8”	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4”	13-5/8”	10M	5M Annular	x	2500psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	

			Other*			

Y	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.	
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.	
	N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.	

Depth		Type	Weight (ppg)	Viscosity	Water
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/(
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.6 - 10	28-34	N/(
7-5/8" Int shoe	Lateral TD	OBM	9 - 13	35-45	<2(

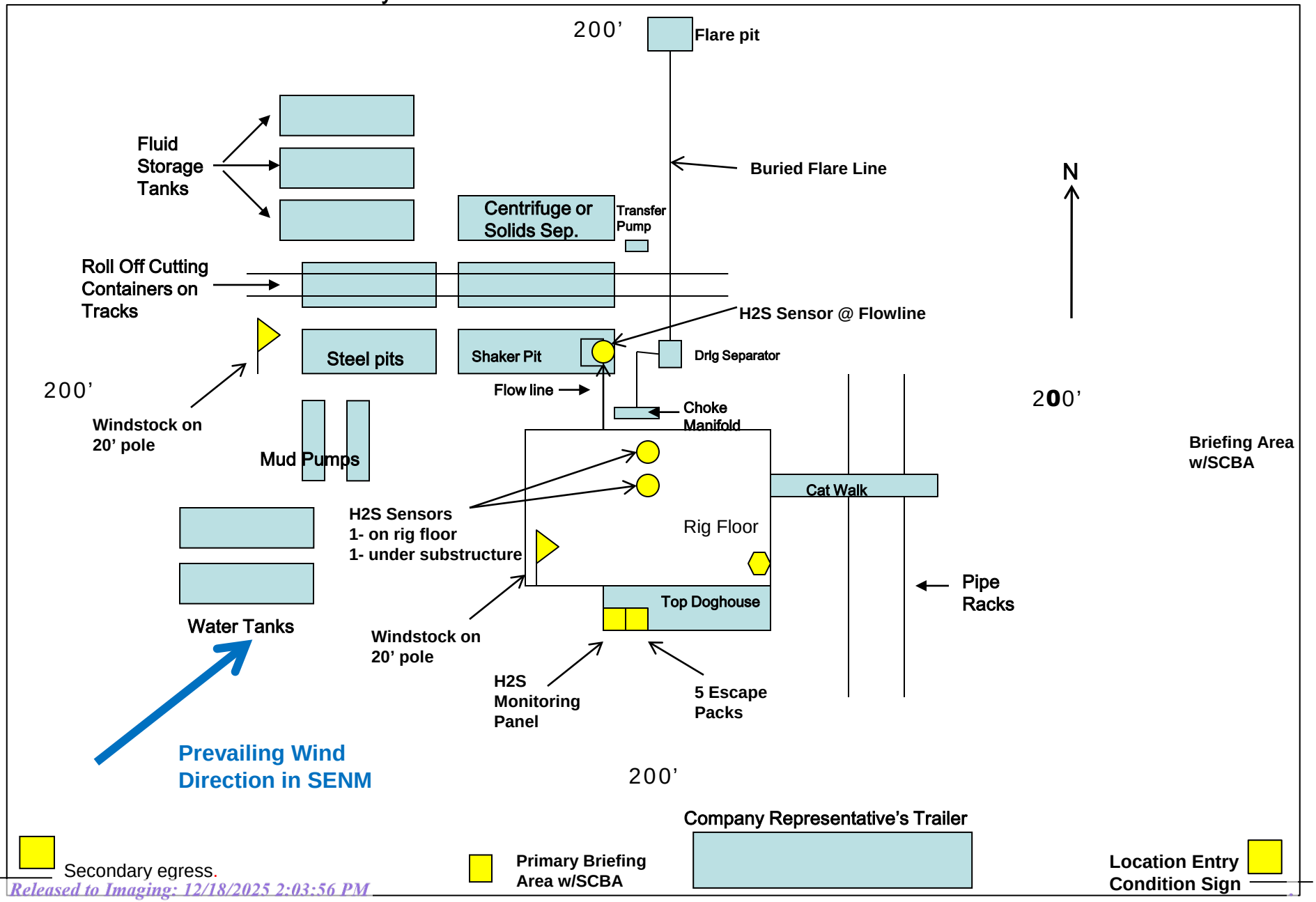
What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitori

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated lo will be in the Completion Report and submitted to the BLM.
Y	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
N	CBL	Production casing
Y	Mud log	Intermediate shoe to TD
N	PEX	

COG Operating LLC
H_2S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400' with cellar in center of pad



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

a. The hazards and characteristics of hydrogen sulfide (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
c. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:
Flare line.
Choke manifold with remotely operated choke.
Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.

f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

YOU ARE ENTERING AN H_2S AREA
AUTHORIZED PERSONNEL ONLY

1. ***BEARDS OR CONTACT LENSES NOT ALLOWED***
2. ***HARD HATS REQUIRED***
3. ***SMOKING IN DESIGNATED AREAS ONLY***
4. ***BE WIND CONSCIOUS AT ALL TIMES***
5. ***CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	OFFICE	MOBILE
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 702H - Slot BOATER FED COM 702H

OWB

Plan: PWP0

Standard Planning Report

24 April, 2025

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA COUNTY SOUTHEAST		
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		

Site	BOATER FED COM PROJECT				
Site Position:		**Northing:**	398,922.70 usft	**Latitude:**	32° 5' 35.657 N
From:	Map	**Easting:**	792,291.08 usft	**Longitude:**	103° 23' 22.218 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well	_BOATER FED COM 702H - Slot BOATER FED COM 702H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	402,103.04 usft	**Latitude:**	32° 6' 7.213 N
	+E/-W	0.0 usft	**Easting:**	791,295.19 usft	**Longitude:**	103° 23' 33.471 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,220.0 usft
Grid Convergence:		0.50 °				

Wellbore	OWB				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2024	4/23/2025	6.04	59.61	47,142.26992139

Design	PWP0			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	170.42

Plan Survey Tool Program **Date** 4/24/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,638.5	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	
				ISCWSA MWD + IFR1 + SAG ·	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,598.2	11.96	88.49	2,593.9	1.6	62.2	2.00	2.00	0.00	88.49	
7,932.5	11.96	88.49	7,812.3	30.7	1,167.6	0.00	0.00	0.00	0.00	
9,128.9	0.00	0.00	9,000.0	34.0	1,292.0	1.00	-1.00	0.00	180.00	
12,201.4	0.00	0.00	12,072.5	34.0	1,292.0	0.00	0.00	0.00	0.00	
12,951.4	90.00	179.44	12,550.0	-443.4	1,296.7	12.00	12.00	23.93	179.44	
20,638.5	90.00	179.44	12,550.0	-8,130.2	1,371.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned 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	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	88.49	2,100.0	0.0	1.7	0.2	2.00	2.00	0.00
2,200.0	4.00	88.49	2,199.8	0.2	7.0	1.0	2.00	2.00	0.00
2,300.0	6.00	88.49	2,299.5	0.4	15.7	2.2	2.00	2.00	0.00
2,400.0	8.00	88.49	2,398.7	0.7	27.9	3.9	2.00	2.00	0.00
2,500.0	10.00	88.49	2,497.5	1.1	43.5	6.1	2.00	2.00	0.00
2,598.2	11.96	88.49	2,593.9	1.6	62.2	8.7	2.00	2.00	0.00
2,600.0	11.96	88.49	2,595.6	1.6	62.6	8.8	0.00	0.00	0.00
2,700.0	11.96	88.49	2,693.5	2.2	83.3	11.7	0.00	0.00	0.00
2,800.0	11.96	88.49	2,791.3	2.7	104.0	14.6	0.00	0.00	0.00
2,900.0	11.96	88.49	2,889.1	3.3	124.7	17.5	0.00	0.00	0.00
3,000.0	11.96	88.49	2,986.9	3.8	145.5	20.4	0.00	0.00	0.00
3,100.0	11.96	88.49	3,084.8	4.4	166.2	23.3	0.00	0.00	0.00
3,200.0	11.96	88.49	3,182.6	4.9	186.9	26.2	0.00	0.00	0.00
3,300.0	11.96	88.49	3,280.4	5.5	207.6	29.2	0.00	0.00	0.00
3,400.0	11.96	88.49	3,378.2	6.0	228.4	32.1	0.00	0.00	0.00
3,500.0	11.96	88.49	3,476.1	6.6	249.1	35.0	0.00	0.00	0.00
3,600.0	11.96	88.49	3,573.9	7.1	269.8	37.9	0.00	0.00	0.00
3,700.0	11.96	88.49	3,671.7	7.6	290.5	40.8	0.00	0.00	0.00
3,800.0	11.96	88.49	3,769.6	8.2	311.2	43.7	0.00	0.00	0.00
3,900.0	11.96	88.49	3,867.4	8.7	332.0	46.6	0.00	0.00	0.00
4,000.0	11.96	88.49	3,965.2	9.3	352.7	49.5	0.00	0.00	0.00
4,100.0	11.96	88.49	4,063.0	9.8	373.4	52.4	0.00	0.00	0.00
4,200.0	11.96	88.49	4,160.9	10.4	394.1	55.3	0.00	0.00	0.00
4,300.0	11.96	88.49	4,258.7	10.9	414.9	58.3	0.00	0.00	0.00
4,400.0	11.96	88.49	4,356.5	11.5	435.6	61.2	0.00	0.00	0.00
4,500.0	11.96	88.49	4,454.4	12.0	456.3	64.1	0.00	0.00	0.00
4,600.0	11.96	88.49	4,552.2	12.6	477.0	67.0	0.00	0.00	0.00
4,700.0	11.96	88.49	4,650.0	13.1	497.7	69.9	0.00	0.00	0.00
4,800.0	11.96	88.49	4,747.8	13.6	518.5	72.8	0.00	0.00	0.00
4,900.0	11.96	88.49	4,845.7	14.2	539.2	75.7	0.00	0.00	0.00
5,000.0	11.96	88.49	4,943.5	14.7	559.9	78.6	0.00	0.00	0.00
5,100.0	11.96	88.49	5,041.3	15.3	580.6	81.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned 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)
5,200.0	11.96	88.49	5,139.1	15.8	601.4	84.4	0.00	0.00	0.00
5,300.0	11.96	88.49	5,237.0	16.4	622.1	87.4	0.00	0.00	0.00
5,400.0	11.96	88.49	5,334.8	16.9	642.8	90.3	0.00	0.00	0.00
5,500.0	11.96	88.49	5,432.6	17.5	663.5	93.2	0.00	0.00	0.00
5,600.0	11.96	88.49	5,530.5	18.0	684.2	96.1	0.00	0.00	0.00
5,700.0	11.96	88.49	5,628.3	18.6	705.0	99.0	0.00	0.00	0.00
5,800.0	11.96	88.49	5,726.1	19.1	725.7	101.9	0.00	0.00	0.00
5,900.0	11.96	88.49	5,823.9	19.6	746.4	104.8	0.00	0.00	0.00
6,000.0	11.96	88.49	5,921.8	20.2	767.1	107.7	0.00	0.00	0.00
6,100.0	11.96	88.49	6,019.6	20.7	787.9	110.6	0.00	0.00	0.00
6,200.0	11.96	88.49	6,117.4	21.3	808.6	113.5	0.00	0.00	0.00
6,300.0	11.96	88.49	6,215.3	21.8	829.3	116.5	0.00	0.00	0.00
6,400.0	11.96	88.49	6,313.1	22.4	850.0	119.4	0.00	0.00	0.00
6,500.0	11.96	88.49	6,410.9	22.9	870.7	122.3	0.00	0.00	0.00
6,600.0	11.96	88.49	6,508.7	23.5	891.5	125.2	0.00	0.00	0.00
6,700.0	11.96	88.49	6,606.6	24.0	912.2	128.1	0.00	0.00	0.00
6,800.0	11.96	88.49	6,704.4	24.6	932.9	131.0	0.00	0.00	0.00
6,900.0	11.96	88.49	6,802.2	25.1	953.6	133.9	0.00	0.00	0.00
7,000.0	11.96	88.49	6,900.0	25.6	974.4	136.8	0.00	0.00	0.00
7,100.0	11.96	88.49	6,997.9	26.2	995.1	139.7	0.00	0.00	0.00
7,200.0	11.96	88.49	7,095.7	26.7	1,015.8	142.7	0.00	0.00	0.00
7,300.0	11.96	88.49	7,193.5	27.3	1,036.5	145.6	0.00	0.00	0.00
7,400.0	11.96	88.49	7,291.4	27.8	1,057.2	148.5	0.00	0.00	0.00
7,500.0	11.96	88.49	7,389.2	28.4	1,078.0	151.4	0.00	0.00	0.00
7,600.0	11.96	88.49	7,487.0	28.9	1,098.7	154.3	0.00	0.00	0.00
7,700.0	11.96	88.49	7,584.8	29.5	1,119.4	157.2	0.00	0.00	0.00
7,800.0	11.96	88.49	7,682.7	30.0	1,140.1	160.1	0.00	0.00	0.00
7,900.0	11.96	88.49	7,780.5	30.5	1,160.9	163.0	0.00	0.00	0.00
7,932.5	11.96	88.49	7,812.3	30.7	1,167.6	164.0	0.00	0.00	0.00
8,000.0	11.29	88.49	7,878.4	31.1	1,181.2	165.9	1.00	-1.00	0.00
8,100.0	10.29	88.49	7,976.6	31.6	1,199.9	168.5	1.00	-1.00	0.00
8,200.0	9.29	88.49	8,075.2	32.0	1,216.9	170.9	1.00	-1.00	0.00
8,300.0	8.29	88.49	8,174.0	32.4	1,232.2	173.0	1.00	-1.00	0.00
8,400.0	7.29	88.49	8,273.1	32.8	1,245.7	174.9	1.00	-1.00	0.00
8,500.0	6.29	88.49	8,372.4	33.1	1,257.5	176.6	1.00	-1.00	0.00
8,600.0	5.29	88.49	8,471.9	33.4	1,267.6	178.0	1.00	-1.00	0.00
8,700.0	4.29	88.49	8,571.5	33.6	1,276.0	179.2	1.00	-1.00	0.00
8,800.0	3.29	88.49	8,671.3	33.8	1,282.6	180.1	1.00	-1.00	0.00
8,900.0	2.29	88.49	8,771.2	33.9	1,287.4	180.8	1.00	-1.00	0.00
9,000.0	1.29	88.49	8,871.1	34.0	1,290.6	181.2	1.00	-1.00	0.00
9,100.0	0.29	88.49	8,971.1	34.0	1,291.9	181.4	1.00	-1.00	0.00
9,128.9	0.00	0.00	9,000.0	34.0	1,292.0	181.4	1.00	-1.00	0.00
9,200.0	0.00	0.00	9,071.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,171.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,271.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,371.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,471.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,571.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,671.1	34.0	1,292.0	181.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,771.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,871.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,100.0	0.00	0.00	9,971.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,200.0	0.00	0.00	10,071.1	34.0	1,292.0	181.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,300.0	0.00	0.00	10,171.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,400.0	0.00	0.00	10,271.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,500.0	0.00	0.00	10,371.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,600.0	0.00	0.00	10,471.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,700.0	0.00	0.00	10,571.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,800.0	0.00	0.00	10,671.1	34.0	1,292.0	181.4	0.00	0.00	0.00
10,900.0	0.00	0.00	10,771.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,000.0	0.00	0.00	10,871.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,100.0	0.00	0.00	10,971.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,071.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,171.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,271.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,500.0	0.00	0.00	11,371.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,471.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,700.0	0.00	0.00	11,571.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,800.0	0.00	0.00	11,671.1	34.0	1,292.0	181.4	0.00	0.00	0.00
11,900.0	0.00	0.00	11,771.1	34.0	1,292.0	181.4	0.00	0.00	0.00
12,000.0	0.00	0.00	11,871.1	34.0	1,292.0	181.4	0.00	0.00	0.00
12,100.0	0.00	0.00	11,971.1	34.0	1,292.0	181.4	0.00	0.00	0.00
12,200.0	0.00	0.00	12,071.1	34.0	1,292.0	181.4	0.00	0.00	0.00
12,201.4	0.00	0.00	12,072.5	34.0	1,292.0	181.4	0.00	0.00	0.00
12,300.0	11.83	179.44	12,170.4	23.9	1,292.1	191.5	12.00	12.00	0.00
12,400.0	23.83	179.44	12,265.4	-6.7	1,292.4	221.7	12.00	12.00	0.00
12,500.0	35.83	179.44	12,352.0	-56.4	1,292.9	270.7	12.00	12.00	0.00
12,600.0	47.83	179.44	12,426.4	-122.9	1,293.5	336.5	12.00	12.00	0.00
12,700.0	59.83	179.44	12,485.3	-203.5	1,294.3	416.0	12.00	12.00	0.00
12,800.0	71.83	179.44	12,526.2	-294.6	1,295.2	506.0	12.00	12.00	0.00
12,900.0	83.83	179.44	12,547.2	-392.2	1,296.2	602.4	12.00	12.00	0.00
12,951.4	90.00	179.44	12,550.0	-443.4	1,296.7	653.0	12.00	12.00	0.00
13,000.0	90.00	179.44	12,550.0	-492.1	1,297.1	701.0	0.00	0.00	0.00
13,100.0	90.00	179.44	12,550.0	-592.1	1,298.1	799.8	0.00	0.00	0.00
13,200.0	90.00	179.44	12,550.0	-692.1	1,299.1	898.5	0.00	0.00	0.00
13,300.0	90.00	179.44	12,550.0	-792.0	1,300.1	997.3	0.00	0.00	0.00
13,400.0	90.00	179.44	12,550.0	-892.0	1,301.1	1,096.1	0.00	0.00	0.00
13,500.0	90.00	179.44	12,550.0	-992.0	1,302.0	1,194.8	0.00	0.00	0.00
13,600.0	90.00	179.44	12,550.0	-1,092.0	1,303.0	1,293.6	0.00	0.00	0.00
13,700.0	90.00	179.44	12,550.0	-1,192.0	1,304.0	1,392.4	0.00	0.00	0.00
13,800.0	90.00	179.44	12,550.0	-1,292.0	1,305.0	1,491.1	0.00	0.00	0.00
13,900.0	90.00	179.44	12,550.0	-1,392.0	1,305.9	1,589.9	0.00	0.00	0.00
14,000.0	90.00	179.44	12,550.0	-1,492.0	1,306.9	1,688.7	0.00	0.00	0.00
14,100.0	90.00	179.44	12,550.0	-1,592.0	1,307.9	1,787.4	0.00	0.00	0.00
14,200.0	90.00	179.44	12,550.0	-1,692.0	1,308.9	1,886.2	0.00	0.00	0.00
14,300.0	90.00	179.44	12,550.0	-1,792.0	1,309.9	1,985.0	0.00	0.00	0.00
14,400.0	90.00	179.44	12,550.0	-1,892.0	1,310.8	2,083.7	0.00	0.00	0.00
14,500.0	90.00	179.44	12,550.0	-1,992.0	1,311.8	2,182.5	0.00	0.00	0.00
14,600.0	90.00	179.44	12,550.0	-2,092.0	1,312.8	2,281.2	0.00	0.00	0.00
14,700.0	90.00	179.44	12,550.0	-2,192.0	1,313.8	2,380.0	0.00	0.00	0.00
14,800.0	90.00	179.44	12,550.0	-2,292.0	1,314.7	2,478.8	0.00	0.00	0.00
14,900.0	90.00	179.44	12,550.0	-2,392.0	1,315.7	2,577.5	0.00	0.00	0.00
15,000.0	90.00	179.44	12,550.0	-2,492.0	1,316.7	2,676.3	0.00	0.00	0.00
15,100.0	90.00	179.44	12,550.0	-2,592.0	1,317.7	2,775.1	0.00	0.00	0.00
15,200.0	90.00	179.44	12,550.0	-2,692.0	1,318.7	2,873.8	0.00	0.00	0.00
15,300.0	90.00	179.44	12,550.0	-2,791.9	1,319.6	2,972.6	0.00	0.00	0.00

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Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned 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)
15,400.0	90.00	179.44	12,550.0	-2,891.9	1,320.6	3,071.4	0.00	0.00	0.00
15,500.0	90.00	179.44	12,550.0	-2,991.9	1,321.6	3,170.1	0.00	0.00	0.00
15,600.0	90.00	179.44	12,550.0	-3,091.9	1,322.6	3,268.9	0.00	0.00	0.00
15,700.0	90.00	179.44	12,550.0	-3,191.9	1,323.5	3,367.7	0.00	0.00	0.00
15,800.0	90.00	179.44	12,550.0	-3,291.9	1,324.5	3,466.4	0.00	0.00	0.00
15,900.0	90.00	179.44	12,550.0	-3,391.9	1,325.5	3,565.2	0.00	0.00	0.00
16,000.0	90.00	179.44	12,550.0	-3,491.9	1,326.5	3,663.9	0.00	0.00	0.00
16,100.0	90.00	179.44	12,550.0	-3,591.9	1,327.5	3,762.7	0.00	0.00	0.00
16,200.0	90.00	179.44	12,550.0	-3,691.9	1,328.4	3,861.5	0.00	0.00	0.00
16,300.0	90.00	179.44	12,550.0	-3,791.9	1,329.4	3,960.2	0.00	0.00	0.00
16,400.0	90.00	179.44	12,550.0	-3,891.9	1,330.4	4,059.0	0.00	0.00	0.00
16,500.0	90.00	179.44	12,550.0	-3,991.9	1,331.4	4,157.8	0.00	0.00	0.00
16,600.0	90.00	179.44	12,550.0	-4,091.9	1,332.3	4,256.5	0.00	0.00	0.00
16,700.0	90.00	179.44	12,550.0	-4,191.9	1,333.3	4,355.3	0.00	0.00	0.00
16,800.0	90.00	179.44	12,550.0	-4,291.9	1,334.3	4,454.1	0.00	0.00	0.00
16,900.0	90.00	179.44	12,550.0	-4,391.9	1,335.3	4,552.8	0.00	0.00	0.00
17,000.0	90.00	179.44	12,550.0	-4,491.9	1,336.3	4,651.6	0.00	0.00	0.00
17,100.0	90.00	179.44	12,550.0	-4,591.9	1,337.2	4,750.4	0.00	0.00	0.00
17,200.0	90.00	179.44	12,550.0	-4,691.9	1,338.2	4,849.1	0.00	0.00	0.00
17,300.0	90.00	179.44	12,550.0	-4,791.9	1,339.2	4,947.9	0.00	0.00	0.00
17,400.0	90.00	179.44	12,550.0	-4,891.8	1,340.2	5,046.6	0.00	0.00	0.00
17,500.0	90.00	179.44	12,550.0	-4,991.8	1,341.1	5,145.4	0.00	0.00	0.00
17,600.0	90.00	179.44	12,550.0	-5,091.8	1,342.1	5,244.2	0.00	0.00	0.00
17,700.0	90.00	179.44	12,550.0	-5,191.8	1,343.1	5,342.9	0.00	0.00	0.00
17,800.0	90.00	179.44	12,550.0	-5,291.8	1,344.1	5,441.7	0.00	0.00	0.00
17,900.0	90.00	179.44	12,550.0	-5,391.8	1,345.1	5,540.5	0.00	0.00	0.00
18,000.0	90.00	179.44	12,550.0	-5,491.8	1,346.0	5,639.2	0.00	0.00	0.00
18,100.0	90.00	179.44	12,550.0	-5,591.8	1,347.0	5,738.0	0.00	0.00	0.00
18,200.0	90.00	179.44	12,550.0	-5,691.8	1,348.0	5,836.8	0.00	0.00	0.00
18,300.0	90.00	179.44	12,550.0	-5,791.8	1,349.0	5,935.5	0.00	0.00	0.00
18,400.0	90.00	179.44	12,550.0	-5,891.8	1,349.9	6,034.3	0.00	0.00	0.00
18,500.0	90.00	179.44	12,550.0	-5,991.8	1,350.9	6,133.0	0.00	0.00	0.00
18,600.0	90.00	179.44	12,550.0	-6,091.8	1,351.9	6,231.8	0.00	0.00	0.00
18,700.0	90.00	179.44	12,550.0	-6,191.8	1,352.9	6,330.6	0.00	0.00	0.00
18,800.0	90.00	179.44	12,550.0	-6,291.8	1,353.9	6,429.3	0.00	0.00	0.00
18,900.0	90.00	179.44	12,550.0	-6,391.8	1,354.8	6,528.1	0.00	0.00	0.00
19,000.0	90.00	179.44	12,550.0	-6,491.8	1,355.8	6,626.9	0.00	0.00	0.00
19,100.0	90.00	179.44	12,550.0	-6,591.8	1,356.8	6,725.6	0.00	0.00	0.00
19,200.0	90.00	179.44	12,550.0	-6,691.8	1,357.8	6,824.4	0.00	0.00	0.00
19,300.0	90.00	179.44	12,550.0	-6,791.8	1,358.7	6,923.2	0.00	0.00	0.00
19,400.0	90.00	179.44	12,550.0	-6,891.8	1,359.7	7,021.9	0.00	0.00	0.00
19,500.0	90.00	179.44	12,550.0	-6,991.7	1,360.7	7,120.7	0.00	0.00	0.00
19,600.0	90.00	179.44	12,550.0	-7,091.7	1,361.7	7,219.5	0.00	0.00	0.00
19,700.0	90.00	179.44	12,550.0	-7,191.7	1,362.7	7,318.2	0.00	0.00	0.00
19,800.0	90.00	179.44	12,550.0	-7,291.7	1,363.6	7,417.0	0.00	0.00	0.00
19,900.0	90.00	179.44	12,550.0	-7,391.7	1,364.6	7,515.7	0.00	0.00	0.00
20,000.0	90.00	179.44	12,550.0	-7,491.7	1,365.6	7,614.5	0.00	0.00	0.00
20,100.0	90.00	179.44	12,550.0	-7,591.7	1,366.6	7,713.3	0.00	0.00	0.00
20,200.0	90.00	179.44	12,550.0	-7,691.7	1,367.5	7,812.0	0.00	0.00	0.00
20,300.0	90.00	179.44	12,550.0	-7,791.7	1,368.5	7,910.8	0.00	0.00	0.00
20,400.0	90.00	179.44	12,550.0	-7,891.7	1,369.5	8,009.6	0.00	0.00	0.00
20,500.0	90.00	179.44	12,550.0	-7,991.7	1,370.5	8,108.3	0.00	0.00	0.00
20,600.0	90.00	179.44	12,550.0	-8,091.7	1,371.5	8,207.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned 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)
20,638.5	90.00	179.44	12,550.0	-8,130.2	1,371.8	8,245.1	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP_BOATER FED COM - plan misses target center by 2232.9usft at 20583.3usft MD (12550.0 TVD, -8075.0 N, 1371.3 E) - Circle (radius 50.0)	90.00	179.44	12,380.0	-8,096.7	-855.0	394,006.30	790,440.15	32° 4' 47.168 N	103° 23' 44.229 W
LTP_BOATER FED COM - plan misses target center by 720.3usft at 20590.2usft MD (12550.0 TVD, -8081.9 N, 1371.4 E) - Circle (radius 50.0)	90.00	179.44	12,380.0	-8,075.0	2,071.3	394,028.01	793,366.51	32° 4' 47.130 N	103° 23' 10.218 W
LTP_BOATER FED COM - plan misses target center by 773.4usft at 20586.7usft MD (12550.0 TVD, -8078.4 N, 1371.3 E) - Circle (radius 50.0)	90.00	179.44	12,380.0	-8,085.7	616.9	394,017.30	791,912.11	32° 4' 47.150 N	103° 23' 27.122 W
LTP_BOATER FED COM - plan hits target center - Circle (radius 50.0)	90.00	179.44	12,550.0	-8,080.2	1,371.3	394,022.82	792,666.53	32° 4' 47.139 N	103° 23' 18.353 W
LTP_BOATER FED COM - plan misses target center by 1350.0usft at 20591.7usft MD (12550.0 TVD, -8083.4 N, 1371.4 E) - Circle (radius 50.0)	90.00	179.44	12,550.0	-8,070.2	2,721.3	394,032.83	794,016.50	32° 4' 47.121 N	103° 23' 2.664 W
LTP_BOATER FED COM - plan misses target center by 1404.4usft at 20585.2usft MD (12550.0 TVD, -8076.9 N, 1371.3 E) - Circle (radius 50.0)	90.00	179.44	12,550.0	-8,090.6	-33.1	394,012.40	791,262.12	32° 4' 47.157 N	103° 23' 34.676 W
LTP_BOATER FED COM - plan misses target center by 5290.1usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.43	12,750.0	-13,371.1	680.6	388,731.93	791,975.79	32° 3' 54.844 N	103° 23' 26.918 W
LTP_BOATER FED COM - plan misses target center by 5242.2usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.44	12,750.0	-13,365.1	1,562.5	388,737.90	792,857.71	32° 3' 54.827 N	103° 23' 16.670 W
LTP_BOATER FED COM - plan misses target center by 5800.0usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.43	12,750.0	-13,383.0	-1,079.4	388,720.03	790,215.82	32° 3' 54.878 N	103° 23' 47.370 W
LTP_BOATER FED COM - plan misses target center by 5579.0usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.44	12,750.0	-13,353.2	3,322.5	388,749.80	794,617.68	32° 3' 54.791 N	103° 22' 56.218 W
LTP_BOATER FED COM - plan misses target center by 5341.2usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.44	12,750.0	-13,359.2	2,442.5	388,743.85	793,737.70	32° 3' 54.809 N	103° 23' 6.444 W
LTP_BOATER FED COM - plan misses target center by 5480.7usft at 20638.5usft MD (12550.0 TVD, -8130.2 N, 1371.8 E) - Circle (radius 50.0)	90.00	179.43	12,750.0	-13,377.1	-199.4	388,725.98	791,095.81	32° 3' 54.861 N	103° 23' 37.144 W

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Company:	DELAWARE BASIN EAST	**TVD Reference:**	KB @ 3252.0usft
Project:	LEA COUNTY SOUTHEAST	**MD Reference:**	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	**North Reference:**	Grid
Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Casing Points

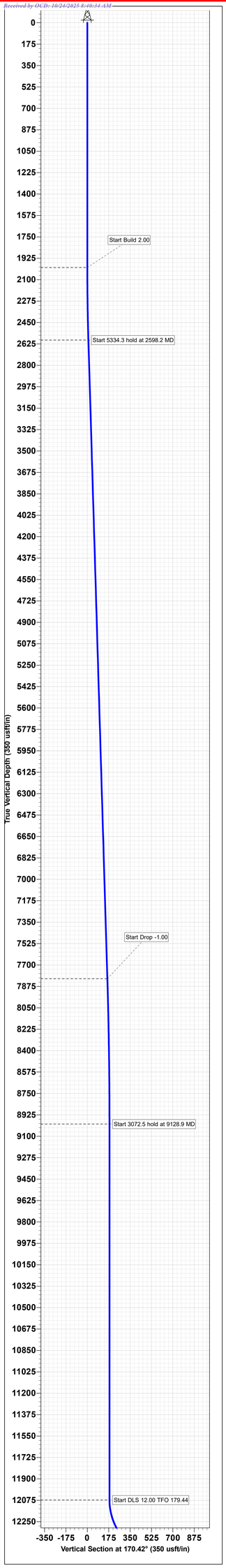
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
20,638.6	12,550.0	5-1/2" Production Casing	5-1/2	6

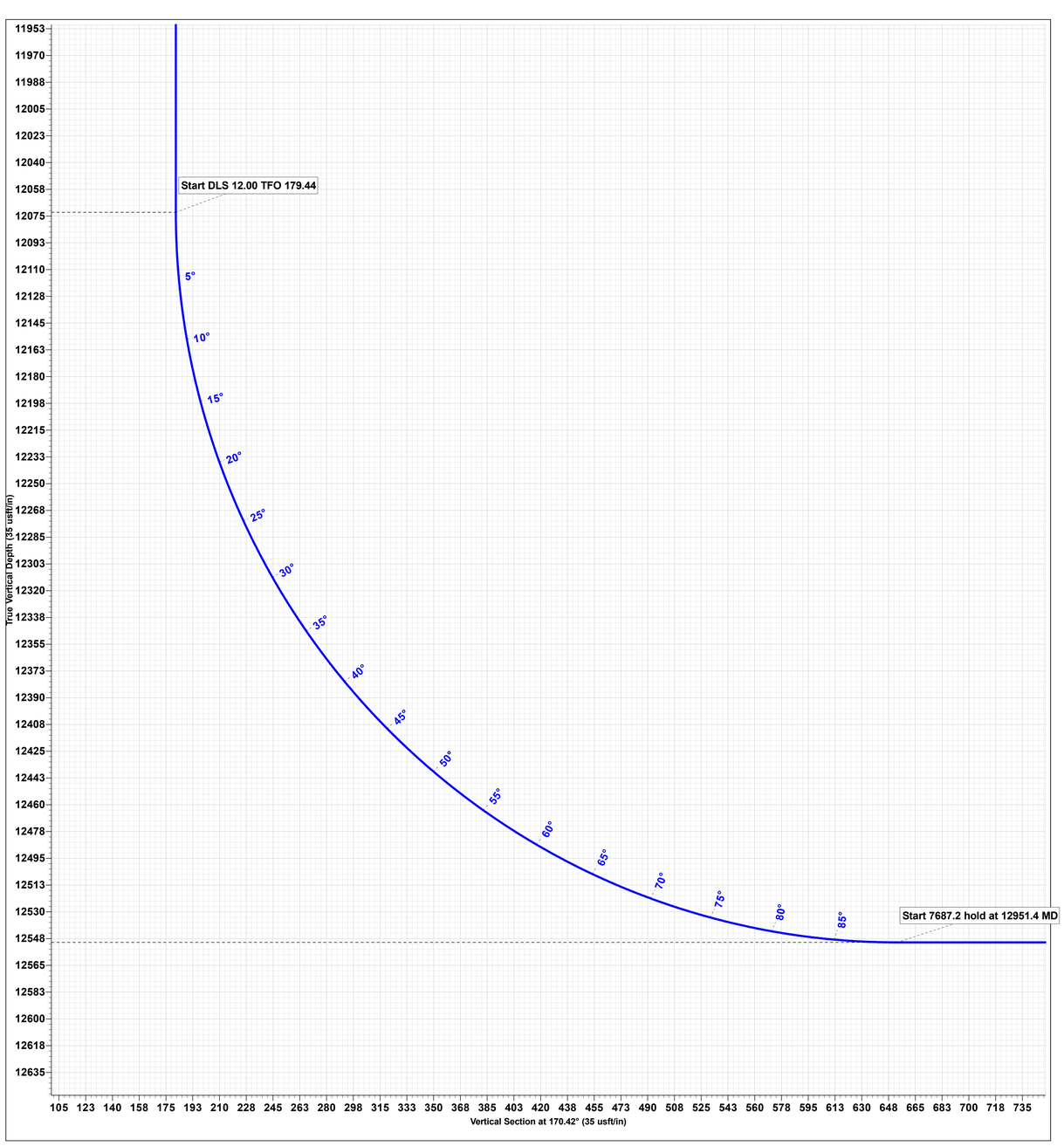
ConocoPhillips

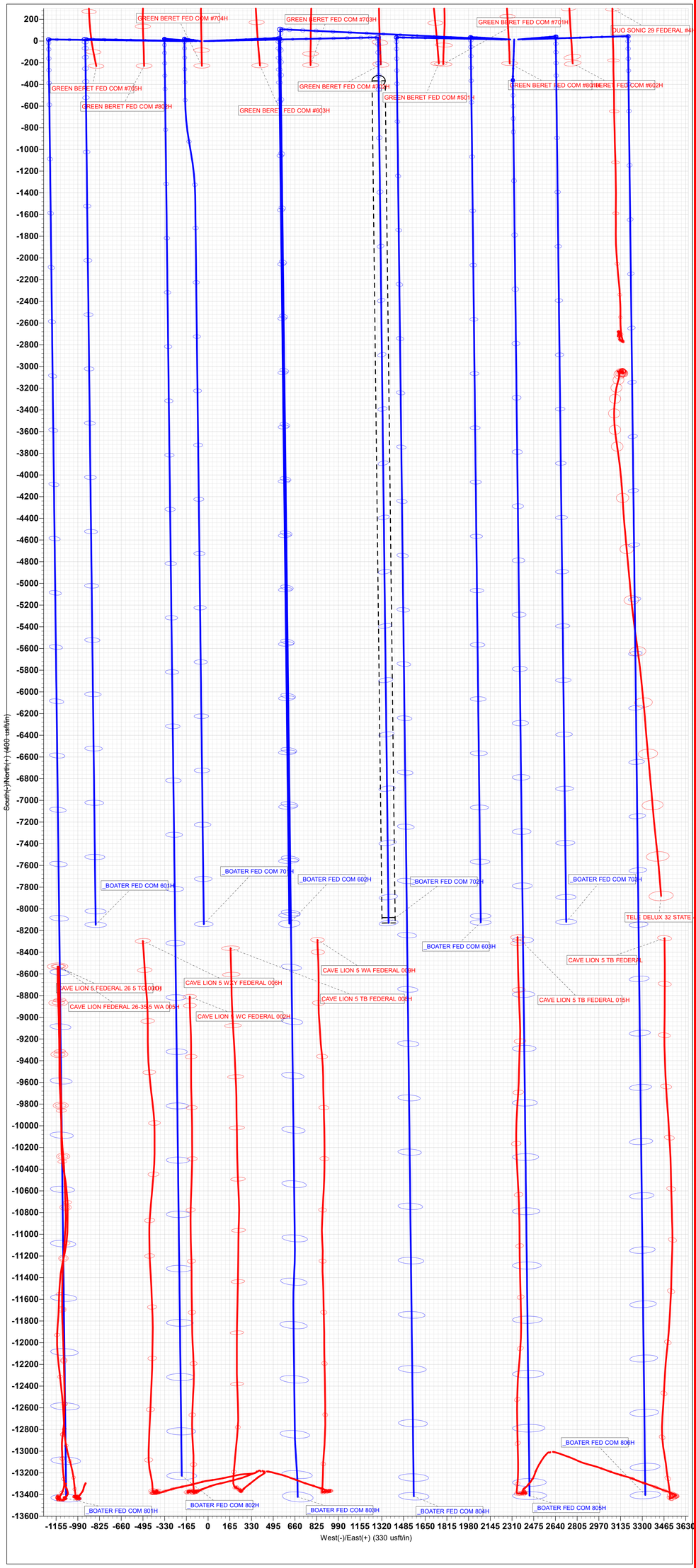
Project:	LEA COUNTY SOUTHEAST
Site:	BOATER FED COM PROJECT
Well:	_BOATER FED COM 702H
Wellbore:	OWB
Design:	PWP0

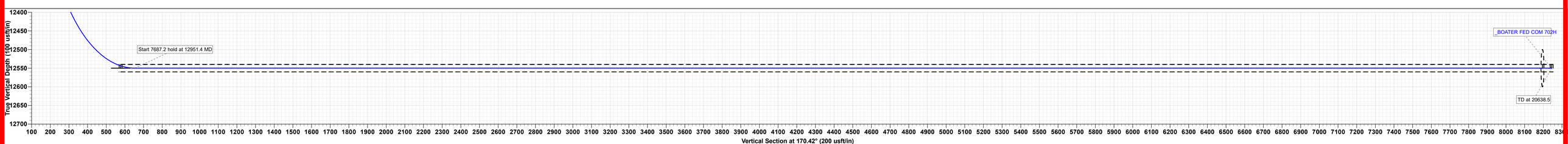
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2598.2	11.96	88.49	2593.9	1.6	62.2	2.00	88.49	8.7
7932.5	11.96	88.49	7812.3	30.7	1167.6	0.00	0.00	164.0
9128.9	0.00	0.00	9000.0	34.0	1292.0	1.00	180.00	181.4
12201.4	0.00	0.00	12072.5	34.0	1292.0	0.00	0.00	181.4
12951.4	90.00	179.44	12550.0	-443.4	1296.7	12.00	179.44	653.0
20638.5	90.00	179.44	12550.0	-8130.2	1371.8	0.00	0.00	8245.1









DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 702H

OWB
PWP0

Anticollision Report

24 April, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference PWP0

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	**Error Model:**	ISCWSA
Depth Range:	Unlimited	**Scan Method:**	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	**Error Surface:**	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 **Sigma**	**Casing Method:**	Added to Error Values

Survey Tool Program **Date** 4/24/2025

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,638.5	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
AKUBRA PROJECT						
AKUBRA FED COM 701H - OWB - AWP						Out of range
BOATER FED COM PROJECT						
_BOATER FED COM 601H - OWB - PWP0	2,000.0	2,000.0	120.0	108.6	10.490	CC, ES
_BOATER FED COM 601H - OWB - PWP0	2,100.0	2,095.9	123.4	111.5	10.389	SF
_BOATER FED COM 602H - OWB - PWP0	2,417.2	2,421.6	29.7	16.5	2.248	Caution - Monitor Closely, CC, ES, SF
_BOATER FED COM 603H - OWB - PWP0	12,010.0	11,903.1	703.9	665.3	18.242	CC
_BOATER FED COM 603H - OWB - PWP0	20,638.5	20,358.4	720.3	571.3	4.832	ES, SF
_BOATER FED COM 701H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245	CC, ES
_BOATER FED COM 701H - OWB - PWP0	2,100.0	2,100.0	61.7	49.9	5.225	SF
_BOATER FED COM 703H - OWB - PWP0						Out of range
_BOATER FED COM 801H - OWB - PWP0	2,000.0	2,000.0	149.7	138.3	13.088	CC, ES
_BOATER FED COM 801H - OWB - PWP0	2,100.0	2,094.9	153.1	141.2	12.894	SF
_BOATER FED COM 802H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867	CC, ES
_BOATER FED COM 802H - OWB - PWP0	2,100.0	2,096.9	93.4	81.5	7.864	SF
_BOATER FED COM 803H - OWB - PWP0	7,134.9	7,188.3	56.9	27.6	1.941	Caution - Monitor Closely, CC, ES, SF
_BOATER FED COM 804H - OWB - PWP0	12,235.5	12,184.3	139.3	101.2	3.654	CC
_BOATER FED COM 804H - OWB - PWP0	12,250.0	12,198.7	139.3	101.2	3.653	ES
_BOATER FED COM 804H - OWB - PWP0	20,638.5	20,786.1	243.8	131.9	2.179	Caution - Monitor Closely, SF
_BOATER FED COM 805H - OWB - PWP0						Out of range
_BOATER FED COM 806H - OWB - PWP0						Out of range
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 008H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 015H - OWB - AWP						Out of range
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	20,638.5	17,619.0	566.7	442.0	4.543	CC, ES, SF
CAVE LION 5 WC FEDERAL 002H - OWB - AWP						Out of range
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP						Out of range
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP						Out of range
CAVE LION 5 FEDERAL (5H, 1H)						
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
DUO SONIC 29 FEDERAL #4H - OWB - AWP						Out of range
GREEN BERET FED COM #501H - OWB - AWP	12,731.8	20,221.6	462.8	372.0	5.099	CC, ES, SF
GREEN BERET FED COM #602H - OWB - AWP						Out of range
GREEN BERET FED COM #603H - OWB - AWP	12,478.1	19,840.6	910.4	820.8	10.163	CC, ES
GREEN BERET FED COM #603H - OWB - AWP	12,650.0	19,953.0	916.2	825.2	10.067	SF
GREEN BERET FED COM #701H - OWB - AWP	11,135.8	18,298.8	501.9	406.0	5.233	CC, ES, SF
GREEN BERET FED COM #702H - OWB - AWP	12,750.0	20,435.0	236.8	133.8	2.300	Caution - Monitor Closely, SF
GREEN BERET FED COM #702H - OWB - AWP	12,775.0	20,435.0	231.6	132.7	2.342	Caution - Monitor Closely, ES
GREEN BERET FED COM #702H - OWB - AWP	12,794.9	20,435.0	230.4	135.4	2.427	Caution - Monitor Closely, CC
GREEN BERET FED COM #703H - OWB - AWP	12,725.0	20,139.0	519.0	428.0	5.703	SF
GREEN BERET FED COM #703H - OWB - AWP	12,742.6	20,139.0	518.7	427.8	5.707	CC, ES
GREEN BERET FED COM #704H - OWB - AWP						Out of range
GREEN BERET FED COM #705H - OWB - AWP						Out of range
GREEN BERET FED COM #801H - OWB - AWP	12,436.8	19,775.8	993.4	905.3	11.277	CC, ES
GREEN BERET FED COM #801H - OWB - AWP	12,550.0	19,839.6	998.5	909.7	11.240	SF
GREEN BERET FED COM #802H - OWB - AWP						Out of range
TELE DELUX 32 STATE 4H - OWB - AWP						Out of range

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.8	-120.0	120.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.8	-120.0	120.0	118.0	1.99	60.264	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.8	-120.0	120.0	116.7	3.31	36.237	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.8	-120.0	120.0	115.8	4.20	28.603	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.8	-120.0	120.0	115.1	4.91	24.430	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.8	-120.0	120.0	114.5	5.53	21.688	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.8	-120.0	120.0	113.9	6.09	19.704	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.8	-120.0	120.0	113.4	6.60	18.178	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.8	-120.0	120.0	112.9	7.08	16.957	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.8	-120.0	120.0	112.5	7.52	15.950	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.8	-120.0	120.0	112.1	7.95	15.099	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.8	-120.0	120.0	111.6	8.35	14.368	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.8	-120.0	120.0	111.3	8.74	13.731	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.8	-120.0	120.0	110.9	9.11	13.168	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.8	-120.0	120.0	110.5	9.47	12.667	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.8	-120.0	120.0	110.2	9.82	12.216	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.8	-120.0	120.0	109.8	10.16	11.808	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.8	-120.0	120.0	109.5	10.49	11.436	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.8	-120.0	120.0	109.2	10.82	11.095	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.8	-120.0	120.0	108.9	11.13	10.781	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.8	-120.0	120.0	108.6	11.44	10.490	CC, ES
2,100.0	2,100.0	2,095.9	2,095.9	5.8	5.8	-178.88	-0.8	-121.6	123.4	111.5	11.88	10.389	SF
2,200.0	2,199.8	2,191.1	2,190.9	6.0	6.0	-178.86	-0.7	-126.4	133.6	121.4	12.29	10.873	
2,300.0	2,299.5	2,285.0	2,284.5	6.2	6.2	-178.83	-0.5	-134.2	150.6	137.9	12.70	11.857	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
2,400.0	2,398.7	2,377.0	2,375.9	6.4	6.5	-178.79	-0.3	-144.8	174.1	161.0	13.11	13.284	
2,500.0	2,497.5	2,466.5	2,464.4	6.6	6.7	-178.75	0.0	-157.9	204.1	190.6	13.52	15.100	
2,598.2	2,593.9	2,551.4	2,548.0	6.8	7.0	-178.72	0.4	-172.9	239.5	225.6	13.91	17.223	
2,600.0	2,595.6	2,553.0	2,549.6	6.8	7.0	-178.72	0.4	-173.2	240.2	226.3	13.92	17.263	
2,700.0	2,693.5	2,636.8	2,631.6	7.3	7.2	-178.69	0.8	-190.5	280.7	266.1	14.54	19.309	
2,800.0	2,791.3	2,726.0	2,718.5	7.5	7.4	-178.67	1.3	-210.5	322.9	308.0	14.85	21.737	
2,900.0	2,889.1	2,816.7	2,806.8	7.6	7.6	-178.64	1.8	-231.0	365.1	349.9	15.24	23.952	
3,000.0	2,986.9	2,907.3	2,895.1	7.7	7.9	-178.63	2.2	-251.4	407.3	391.7	15.65	26.020	
3,100.0	3,084.8	2,998.0	2,983.4	7.9	8.2	-178.61	2.7	-271.8	449.6	433.5	16.09	27.948	
3,200.0	3,182.6	3,088.6	3,071.7	8.0	8.5	-178.60	3.2	-292.3	491.8	475.3	16.54	29.741	
3,300.0	3,280.4	3,179.2	3,160.1	8.2	8.8	-178.59	3.7	-312.7	534.1	517.1	17.00	31.409	
3,400.0	3,378.2	3,269.9	3,248.4	8.3	9.1	-178.59	4.1	-333.1	576.3	558.8	17.49	32.959	
3,500.0	3,476.1	3,360.5	3,336.7	8.5	9.5	-178.58	4.6	-353.5	618.5	600.6	17.98	34.399	
3,600.0	3,573.9	3,451.2	3,425.0	8.6	9.8	-178.57	5.1	-374.0	660.8	642.3	18.49	35.737	
3,700.0	3,671.7	3,541.8	3,513.3	8.8	10.2	-178.57	5.6	-394.4	703.0	684.0	19.01	36.981	
3,800.0	3,769.6	3,632.5	3,601.6	9.0	10.5	-178.56	6.0	-414.8	745.3	725.7	19.54	38.137	
3,900.0	3,867.4	3,723.1	3,689.9	9.1	10.9	-178.56	6.5	-435.3	787.5	767.4	20.08	39.213	
4,000.0	3,965.2	3,813.7	3,778.2	9.3	11.2	-178.55	7.0	-455.7	829.7	809.1	20.63	40.214	
4,100.0	4,063.0	3,904.4	3,866.5	9.5	11.6	-178.55	7.5	-476.1	872.0	850.8	21.19	41.146	
4,200.0	4,160.9	3,995.0	3,954.8	9.6	12.0	-178.55	8.0	-496.6	914.2	892.5	21.76	42.015	
4,300.0	4,258.7	4,085.7	4,043.1	9.8	12.4	-178.54	8.4	-517.0	956.4	934.1	22.33	42.825	
4,400.0	4,356.5	4,176.3	4,131.4	10.0	12.8	-178.54	8.9	-537.4	998.7	975.8	22.91	43.583	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.2	-30.0	30.0	28.0	1.99	15.066	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.2	-30.0	30.0	26.7	3.31	9.059	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.2	-30.0	30.0	25.8	4.20	7.151	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.2	-30.0	30.0	25.1	4.91	6.108	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.2	-30.0	30.0	24.5	5.53	5.422	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.2	-30.0	30.0	23.9	6.09	4.926	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.2	-30.0	30.0	23.4	6.60	4.545	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.2	-30.0	30.0	22.9	7.08	4.239	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.2	-30.0	30.0	22.5	7.52	3.987	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.2	-30.0	30.0	22.1	7.95	3.775	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.2	-30.0	30.0	21.6	8.35	3.592	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.2	-30.0	30.0	21.3	8.74	3.433	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.2	-30.0	30.0	20.9	9.11	3.292	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.2	-30.0	30.0	20.5	9.47	3.167	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.2	-30.0	30.0	20.2	9.82	3.054	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.2	-30.0	30.0	19.8	10.16	2.952	Normal Operations
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.2	-30.0	30.0	19.5	10.49	2.859	Normal Operations
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.2	-30.0	30.0	19.2	10.82	2.774	Normal Operations
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.2	-30.0	30.0	18.9	11.13	2.695	Normal Operations
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.2	-30.0	30.0	18.6	11.44	2.622	Normal Operations
2,100.0	2,100.0	2,101.1	2,101.0	5.8	5.8	-178.81	-0.1	-28.2	30.0	18.1	11.89	2.522	Normal Operations
2,200.0	2,199.8	2,202.1	2,201.9	6.0	6.0	-178.58	0.1	-22.9	29.9	17.6	12.31	2.431	Caution - Monitor Closely
2,300.0	2,299.5	2,303.2	2,302.6	6.2	6.3	-178.18	0.6	-14.0	29.8	17.1	12.74	2.343	Caution - Monitor Closely
2,400.0	2,398.7	2,404.2	2,402.9	6.4	6.5	-177.62	1.2	-1.6	29.7	16.6	13.17	2.258	Caution - Monitor Closely
2,417.2	2,415.7	2,421.6	2,420.1	6.5	6.6	-177.51	1.3	0.9	29.7	16.5	13.22	2.248	Caution - Monitor Closely, CC, ES, SF
2,500.0	2,497.5	2,504.3	2,501.9	6.6	6.7	-177.09	1.9	12.9	30.9	17.3	13.56	2.279	Caution - Monitor Closely
2,598.2	2,593.9	2,602.4	2,599.0	6.8	6.9	-176.93	2.6	27.2	35.4	21.4	13.98	2.533	Normal Operations
2,600.0	2,595.6	2,604.2	2,600.8	6.8	7.0	-176.93	2.6	27.4	35.5	21.5	13.99	2.540	Normal Operations
2,700.0	2,693.5	2,704.0	2,699.5	7.3	7.2	-176.94	3.3	41.9	41.8	27.1	14.77	2.833	Normal Operations
2,800.0	2,791.3	2,803.8	2,798.3	7.5	7.5	-176.94	4.1	56.4	48.2	33.0	15.17	3.175	
2,900.0	2,889.1	2,903.6	2,897.0	7.6	7.8	-176.94	4.8	70.9	54.5	38.9	15.59	3.494	
3,000.0	2,986.9	3,003.4	2,995.7	7.7	8.0	-176.95	5.5	85.4	60.8	44.7	16.02	3.792	
3,100.0	3,084.8	3,103.2	3,094.5	7.9	8.4	-176.95	6.2	99.9	67.1	50.6	16.48	4.070	
3,200.0	3,182.6	3,203.0	3,193.2	8.0	8.7	-176.95	6.9	114.3	73.4	56.4	16.95	4.329	
3,300.0	3,280.4	3,302.8	3,292.0	8.2	9.0	-176.95	7.6	128.8	79.7	62.3	17.44	4.570	
3,400.0	3,378.2	3,402.6	3,390.7	8.3	9.3	-176.95	8.3	143.3	86.0	68.1	17.94	4.795	
3,500.0	3,476.1	3,502.4	3,489.4	8.5	9.7	-176.95	9.0	157.8	92.3	73.9	18.45	5.004	
3,600.0	3,573.9	3,602.2	3,588.2	8.6	10.0	-176.96	9.8	172.3	98.6	79.6	18.97	5.198	
3,700.0	3,671.7	3,702.0	3,686.9	8.8	10.4	-176.96	10.5	186.8	104.9	85.4	19.50	5.380	
3,800.0	3,769.6	3,801.8	3,785.7	9.0	10.8	-176.96	11.2	201.2	111.2	91.2	20.05	5.549	
3,900.0	3,867.4	3,901.6	3,884.4	9.1	11.1	-176.96	11.9	215.7	117.5	96.9	20.60	5.706	
4,000.0	3,965.2	4,001.4	3,983.2	9.3	11.5	-176.96	12.6	230.2	123.8	102.7	21.16	5.854	
4,100.0	4,063.0	4,101.2	4,081.9	9.5	11.9	-176.96	13.3	244.7	130.1	108.4	21.72	5.991	
4,200.0	4,160.9	4,201.0	4,180.6	9.6	12.3	-176.96	14.0	259.2	136.5	114.2	22.30	6.120	
4,300.0	4,258.7	4,300.8	4,279.4	9.8	12.7	-176.96	14.8	273.7	142.8	119.9	22.88	6.241	
4,400.0	4,356.5	4,400.6	4,378.1	10.0	13.0	-176.96	15.5	288.1	149.1	125.6	23.46	6.354	
4,500.0	4,454.4	4,500.4	4,476.9	10.2	13.4	-176.96	16.2	302.6	155.4	131.3	24.05	6.460	
4,600.0	4,552.2	4,600.2	4,575.6	10.3	13.8	-176.96	16.9	317.1	161.7	137.0	24.65	6.560	
4,700.0	4,650.0	4,700.0	4,674.3	10.5	14.2	-176.96	17.6	331.6	168.0	142.7	25.25	6.654	
4,800.0	4,747.8	4,799.8	4,773.1	10.7	14.6	-176.96	18.3	346.1	174.3	148.4	25.85	6.742	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
4,900.0	4,845.7	4,899.7	4,871.8	10.9	15.0	-176.96	19.0	360.6	180.6	154.1	26.46	6.825	
5,000.0	4,943.5	4,999.5	4,970.6	11.1	15.4	-176.96	19.8	375.0	186.9	159.8	27.07	6.904	
5,100.0	5,041.3	5,099.3	5,069.3	11.2	15.8	-176.96	20.5	389.5	193.2	165.5	27.69	6.978	
5,200.0	5,139.1	5,199.1	5,168.1	11.4	16.3	-176.96	21.2	404.0	199.5	171.2	28.31	7.048	
5,300.0	5,237.0	5,298.9	5,266.8	11.6	16.7	-176.96	21.9	418.5	205.8	176.9	28.93	7.115	
5,400.0	5,334.8	5,398.7	5,365.5	11.8	17.1	-176.96	22.6	433.0	212.1	182.6	29.55	7.178	
5,500.0	5,432.6	5,498.5	5,464.3	12.0	17.5	-176.96	23.3	447.5	218.4	188.3	30.18	7.237	
5,600.0	5,530.5	5,598.3	5,563.0	12.2	17.9	-176.96	24.0	461.9	224.8	193.9	30.81	7.294	
5,700.0	5,628.3	5,698.1	5,661.8	12.4	18.3	-176.96	24.8	476.4	231.1	199.6	31.45	7.347	
5,800.0	5,726.1	5,794.1	5,756.9	12.6	18.7	-176.98	25.4	489.7	238.1	206.0	32.06	7.428	
5,900.0	5,823.9	5,889.7	5,851.8	12.8	19.1	-177.02	26.0	501.3	246.8	214.2	32.65	7.560	
6,000.0	5,921.8	5,985.0	5,946.5	13.0	19.5	-177.08	26.5	511.2	257.2	224.0	33.22	7.742	
6,100.0	6,019.6	6,079.9	6,041.1	13.2	19.8	-177.16	26.9	519.6	269.2	235.4	33.76	7.972	
6,200.0	6,117.4	6,174.4	6,135.4	13.4	20.2	-177.26	27.2	526.4	282.8	248.5	34.29	8.248	
6,300.0	6,215.3	6,268.5	6,229.3	13.6	20.5	-177.37	27.5	531.6	298.1	263.3	34.78	8.571	
6,400.0	6,313.1	6,362.1	6,322.8	13.8	20.8	-177.49	27.7	535.3	315.0	279.7	35.23	8.939	
6,500.0	6,410.9	6,455.1	6,415.8	13.9	21.0	-177.62	27.8	537.4	333.4	297.8	35.64	9.356	
6,600.0	6,508.7	6,548.0	6,508.7	14.1	21.2	-177.74	27.8	538.0	353.5	317.6	35.93	9.838	
6,700.0	6,606.6	6,645.9	6,606.6	14.3	21.2	-177.87	27.8	538.0	374.2	338.1	36.13	10.358	
6,800.0	6,704.4	6,743.7	6,704.4	14.5	21.3	-177.98	27.8	538.0	394.9	358.6	36.33	10.869	
6,900.0	6,802.2	6,841.5	6,802.2	14.8	21.3	-178.08	27.8	538.0	415.6	379.1	36.54	11.374	
7,000.0	6,900.0	6,939.4	6,900.0	15.0	21.3	-178.17	27.8	538.0	436.4	399.6	36.75	11.873	
7,100.0	6,997.9	7,037.2	6,997.9	15.2	21.4	-178.25	27.8	538.0	457.1	420.1	36.96	12.366	
7,200.0	7,095.7	7,135.0	7,095.7	15.4	21.4	-178.33	27.8	538.0	477.8	440.6	37.17	12.853	
7,300.0	7,193.5	7,232.8	7,193.5	15.6	21.5	-178.40	27.8	538.0	498.5	461.1	37.39	13.333	
7,400.0	7,291.4	7,330.7	7,291.4	15.8	21.5	-178.46	27.8	538.0	519.2	481.6	37.60	13.808	
7,500.0	7,389.2	7,428.5	7,389.2	16.0	21.5	-178.52	27.8	538.0	540.0	502.1	37.82	14.277	
7,600.0	7,487.0	7,526.3	7,487.0	16.2	21.6	-178.58	27.8	538.0	560.7	522.6	38.04	14.739	
7,700.0	7,584.8	7,624.2	7,584.8	16.4	21.6	-178.63	27.8	538.0	581.4	543.2	38.26	15.196	
7,800.0	7,682.7	7,722.0	7,682.7	16.6	21.7	-178.67	27.8	538.0	602.1	563.7	38.48	15.647	
7,900.0	7,780.5	7,819.8	7,780.5	16.8	21.7	-178.72	27.8	538.0	622.9	584.2	38.71	16.092	
7,932.5	7,812.3	7,851.6	7,812.3	16.9	21.7	-178.73	27.8	538.0	629.6	590.8	38.77	16.239	
8,000.0	7,878.4	7,917.7	7,878.4	17.0	21.8	-178.76	27.8	538.0	643.2	604.3	38.91	16.529	
8,100.0	7,976.6	8,016.0	7,976.6	17.2	21.8	-178.80	27.8	538.0	661.9	622.8	39.13	16.914	
8,200.0	8,075.2	8,114.5	8,075.2	17.4	21.9	-178.83	27.8	538.0	678.9	639.6	39.35	17.251	
8,300.0	8,174.0	8,213.3	8,174.0	17.6	21.9	-178.86	27.8	538.0	694.2	654.6	39.57	17.542	
8,400.0	8,273.1	8,312.4	8,273.1	17.8	21.9	-178.89	27.8	538.0	707.7	667.9	39.79	17.788	
8,500.0	8,372.4	8,411.7	8,372.4	17.9	22.0	-178.91	27.8	538.0	719.6	679.6	40.00	17.990	
8,600.0	8,471.9	8,511.2	8,471.9	18.1	22.0	-178.93	27.8	538.0	729.6	689.4	40.20	18.148	
8,700.0	8,571.5	8,610.8	8,571.5	18.3	22.1	-178.94	27.8	538.0	738.0	697.6	40.41	18.264	
8,800.0	8,671.3	8,710.6	8,671.3	18.5	22.1	-178.95	27.8	538.0	744.6	704.0	40.60	18.338	
8,900.0	8,771.2	8,810.5	8,771.2	18.6	22.2	-178.96	27.8	538.0	749.5	708.7	40.79	18.373	
9,000.0	8,871.1	8,910.4	8,871.1	18.8	22.2	-178.96	27.8	538.0	752.6	711.6	40.97	18.369	
9,100.0	8,971.1	9,010.4	8,971.1	18.9	22.3	-178.96	27.8	538.0	754.0	712.8	41.13	18.330	
9,128.9	9,000.0	9,039.3	9,000.0	18.9	22.3	-90.47	27.8	538.0	754.0	712.9	41.16	18.319	
9,200.0	9,071.1	9,110.4	9,071.1	18.9	22.3	-90.47	27.8	538.0	754.0	712.8	41.22	18.294	
9,300.0	9,171.1	9,210.4	9,171.1	19.0	22.4	-90.47	27.8	538.0	754.0	712.7	41.31	18.253	
9,400.0	9,271.1	9,310.4	9,271.1	19.0	22.4	-90.47	27.8	538.0	754.0	712.6	41.40	18.212	
9,500.0	9,371.1	9,410.4	9,371.1	19.1	22.5	-90.47	27.8	538.0	754.0	712.5	41.50	18.171	
9,600.0	9,471.1	9,510.4	9,471.1	19.1	22.5	-90.47	27.8	538.0	754.0	712.4	41.59	18.131	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,700.0	9,571.1	9,610.4	9,571.1	19.2	22.5	-90.47	27.8	538.0	754.0	712.3	41.68	18.090	
9,800.0	9,671.1	9,710.4	9,671.1	19.2	22.6	-90.47	27.8	538.0	754.0	712.2	41.78	18.049	
9,900.0	9,771.1	9,810.4	9,771.1	19.3	22.6	-90.47	27.8	538.0	754.0	712.2	41.87	18.008	
10,000.0	9,871.1	9,910.4	9,871.1	19.3	22.7	-90.47	27.8	538.0	754.0	712.1	41.97	17.967	
10,100.0	9,971.1	10,010.4	9,971.1	19.4	22.7	-90.47	27.8	538.0	754.0	712.0	42.06	17.926	
10,200.0	10,071.1	10,110.4	10,071.1	19.4	22.8	-90.47	27.8	538.0	754.0	711.9	42.16	17.885	
10,300.0	10,171.1	10,210.4	10,171.1	19.5	22.8	-90.47	27.8	538.0	754.0	711.8	42.26	17.844	
10,400.0	10,271.1	10,310.4	10,271.1	19.5	22.9	-90.47	27.8	538.0	754.0	711.7	42.35	17.803	
10,500.0	10,371.1	10,410.4	10,371.1	19.5	22.9	-90.47	27.8	538.0	754.0	711.6	42.45	17.762	
10,600.0	10,471.1	10,510.4	10,471.1	19.6	23.0	-90.47	27.8	538.0	754.0	711.5	42.55	17.722	
10,700.0	10,571.1	10,610.4	10,571.1	19.6	23.0	-90.47	27.8	538.0	754.0	711.4	42.65	17.681	
10,800.0	10,671.1	10,710.4	10,671.1	19.7	23.1	-90.47	27.8	538.0	754.0	711.3	42.74	17.640	
10,900.0	10,771.1	10,810.4	10,771.1	19.8	23.1	-90.47	27.8	538.0	754.0	711.2	42.84	17.599	
11,000.0	10,871.1	10,910.4	10,871.1	19.8	23.2	-90.47	27.8	538.0	754.0	711.1	42.94	17.559	
11,100.0	10,971.1	11,010.4	10,971.1	19.9	23.2	-90.47	27.8	538.0	754.0	711.0	43.04	17.518	
11,200.0	11,071.1	11,110.4	11,071.1	19.9	23.3	-90.47	27.8	538.0	754.0	710.9	43.14	17.478	
11,300.0	11,171.1	11,210.4	11,171.1	20.0	23.3	-90.47	27.8	538.0	754.0	710.8	43.24	17.437	
11,400.0	11,271.1	11,310.4	11,271.1	20.0	23.4	-90.47	27.8	538.0	754.0	710.7	43.34	17.396	
11,500.0	11,371.1	11,410.4	11,371.1	20.1	23.4	-90.47	27.8	538.0	754.0	710.6	43.44	17.356	
11,600.0	11,471.1	11,510.4	11,471.1	20.1	23.5	-90.47	27.8	538.0	754.0	710.5	43.55	17.315	
11,700.0	11,571.1	11,610.4	11,571.1	20.2	23.5	-90.47	27.8	538.0	754.0	710.4	43.65	17.275	
11,800.0	11,671.1	11,710.4	11,671.1	20.2	23.6	-90.47	27.8	538.0	754.0	710.3	43.75	17.235	
11,900.0	11,771.1	11,810.4	11,771.1	20.3	23.6	-90.47	27.8	538.0	754.0	710.2	43.85	17.194	
12,000.0	11,871.1	11,910.4	11,871.1	20.3	23.7	-90.47	27.8	538.0	754.0	710.1	43.95	17.155	
12,064.1	11,935.2	11,974.6	11,935.2	20.4	23.7	-90.56	26.7	538.0	754.0	710.0	43.99	17.139	
12,100.0	11,971.1	12,010.1	11,970.6	20.4	23.7	-90.84	22.9	538.0	754.0	710.0	44.01	17.134	
12,200.0	12,071.1	12,104.2	12,061.8	20.4	23.7	-92.55	0.4	538.3	754.5	710.5	44.04	17.135	
12,201.4	12,072.5	12,105.5	12,063.0	20.4	23.7	-92.58	0.0	538.3	754.6	710.5	44.04	17.135	
12,225.0	12,096.1	12,126.3	12,082.5	20.4	23.7	87.41	-7.4	538.3	754.9	710.9	44.02	17.147	
12,250.0	12,121.0	12,148.1	12,102.5	20.4	23.7	86.82	-16.1	538.4	755.3	711.3	44.00	17.165	
12,275.0	12,145.8	12,169.6	12,121.8	20.4	23.7	86.23	-25.5	538.5	755.8	711.9	43.98	17.186	
12,300.0	12,170.4	12,190.9	12,140.4	20.4	23.6	85.66	-35.7	538.6	756.4	712.5	43.96	17.208	
12,325.0	12,194.7	12,211.8	12,158.4	20.4	23.6	85.10	-46.6	538.7	757.1	713.1	43.93	17.233	
12,350.0	12,218.7	12,232.6	12,175.6	20.4	23.6	84.55	-58.1	538.8	757.8	713.9	43.91	17.259	
12,375.0	12,242.3	12,253.1	12,192.2	20.4	23.6	84.01	-70.2	539.0	758.5	714.6	43.88	17.286	
12,400.0	12,265.4	12,275.0	12,209.3	20.4	23.6	83.46	-83.8	539.1	759.3	715.5	43.85	17.315	
12,425.0	12,288.0	12,293.6	12,223.3	20.4	23.6	82.98	-96.1	539.2	760.2	716.3	43.84	17.340	
12,450.0	12,310.0	12,313.6	12,237.8	20.4	23.6	82.49	-109.8	539.3	761.0	717.2	43.82	17.367	
12,475.0	12,331.4	12,333.4	12,251.6	20.4	23.6	82.02	-124.0	539.5	761.9	718.1	43.81	17.392	
12,500.0	12,352.0	12,353.1	12,264.8	20.4	23.7	81.57	-138.6	539.6	762.8	719.0	43.80	17.416	
12,525.0	12,371.9	12,375.0	12,278.7	20.4	23.7	81.09	-155.6	539.8	763.6	719.9	43.78	17.442	
12,550.0	12,391.0	12,392.0	12,288.9	20.4	23.7	80.71	-169.2	539.9	764.5	720.7	43.79	17.459	
12,575.0	12,409.1	12,411.3	12,299.9	20.4	23.7	80.32	-185.0	540.1	765.4	721.6	43.79	17.478	
12,600.0	12,426.4	12,430.4	12,310.2	20.4	23.7	79.95	-201.1	540.2	766.2	722.4	43.80	17.495	
12,625.0	12,442.7	12,450.0	12,320.0	20.4	23.7	79.59	-218.1	540.4	767.0	723.2	43.81	17.510	
12,650.0	12,458.0	12,468.4	12,328.7	20.4	23.7	79.27	-234.4	540.6	767.8	724.0	43.82	17.521	
12,675.0	12,472.2	12,487.3	12,336.8	20.4	23.7	78.96	-251.4	540.7	768.6	724.7	43.84	17.531	
12,700.0	12,485.3	12,506.1	12,344.3	20.5	23.7	78.68	-268.6	540.9	769.3	725.4	43.86	17.538	
12,725.0	12,497.3	12,525.0	12,351.1	20.5	23.7	78.43	-286.2	541.1	769.9	726.0	43.89	17.544	
12,750.0	12,508.1	12,543.6	12,357.1	20.5	23.8	78.20	-303.8	541.2	770.5	726.6	43.91	17.547	
12,775.0	12,517.8	12,562.2	12,362.5	20.5	23.8	77.99	-321.6	541.4	771.1	727.1	43.94	17.548	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,800.0	12,526.2	12,580.8	12,367.1	20.6	23.8	77.81	-339.6	541.6	771.6	727.6	43.97	17.548	
12,825.0	12,533.3	12,600.0	12,371.2	20.6	23.8	77.66	-358.4	541.8	772.0	728.0	44.00	17.546	
12,850.0	12,539.2	12,617.8	12,374.2	20.7	23.8	77.53	-375.9	541.9	772.3	728.3	44.03	17.541	
12,875.0	12,543.9	12,636.3	12,376.7	20.7	23.9	77.43	-394.2	542.1	772.6	728.5	44.06	17.535	
12,900.0	12,547.2	12,654.7	12,378.5	20.8	23.9	77.36	-412.6	542.3	772.8	728.7	44.09	17.527	
12,925.0	12,549.2	12,675.0	12,379.7	20.8	23.9	77.31	-432.8	542.5	772.9	728.8	44.12	17.519	
12,951.4	12,550.0	12,692.9	12,380.0	20.9	23.9	77.30	-450.8	542.7	773.0	728.8	44.15	17.507	
13,000.0	12,550.0	12,741.6	12,380.0	21.0	24.0	77.30	-499.4	543.1	773.0	728.7	44.23	17.477	
13,100.0	12,550.0	12,841.6	12,380.0	21.3	24.2	77.30	-599.4	544.1	773.0	728.5	44.44	17.394	
13,200.0	12,550.0	12,941.6	12,380.0	21.6	24.4	77.30	-699.4	545.1	773.0	728.3	44.72	17.285	
13,300.0	12,550.0	13,041.6	12,380.0	21.9	24.7	77.30	-799.4	546.0	773.0	727.9	45.07	17.151	
13,400.0	12,550.0	13,141.6	12,380.0	22.3	25.0	77.30	-899.4	547.0	773.0	727.5	45.49	16.993	
13,500.0	12,550.0	13,241.6	12,380.0	22.7	25.3	77.30	-999.4	548.0	773.0	727.0	45.97	16.815	
13,600.0	12,550.0	13,341.6	12,380.0	23.1	25.7	77.30	-1,099.4	549.0	773.0	726.5	46.52	16.617	
13,700.0	12,550.0	13,441.6	12,380.0	23.5	26.1	77.30	-1,199.4	549.9	773.0	725.9	47.13	16.402	
13,800.0	12,550.0	13,541.6	12,380.0	23.9	26.5	77.30	-1,299.4	550.9	773.0	725.2	47.80	16.173	
13,900.0	12,550.0	13,641.6	12,380.0	24.4	27.0	77.30	-1,399.4	551.9	773.0	724.5	48.52	15.932	
14,000.0	12,550.0	13,741.6	12,380.0	24.8	27.5	77.30	-1,499.3	552.9	773.0	723.7	49.30	15.681	
14,100.0	12,550.0	13,841.6	12,380.0	25.3	28.0	77.30	-1,599.3	553.8	773.0	722.9	50.13	15.421	
14,200.0	12,550.0	13,941.6	12,380.0	25.8	28.5	77.30	-1,699.3	554.8	773.0	722.0	51.01	15.156	
14,300.0	12,550.0	14,041.6	12,380.0	26.4	29.1	77.30	-1,799.3	555.8	773.0	721.1	51.93	14.886	
14,400.0	12,550.0	14,141.6	12,380.0	26.9	29.6	77.30	-1,899.3	556.7	773.0	720.1	52.90	14.613	
14,500.0	12,550.0	14,241.6	12,380.0	27.4	30.2	77.30	-1,999.3	557.7	773.1	719.1	53.91	14.339	
14,600.0	12,550.0	14,341.6	12,380.0	28.0	30.9	77.30	-2,099.3	558.7	773.1	718.1	54.96	14.065	
14,700.0	12,550.0	14,441.6	12,380.0	28.6	31.5	77.30	-2,199.3	559.7	773.1	717.0	56.05	13.792	
14,800.0	12,550.0	14,541.6	12,380.0	29.2	32.1	77.30	-2,299.3	560.6	773.1	715.9	57.17	13.522	
14,900.0	12,550.0	14,641.6	12,380.0	29.8	32.8	77.30	-2,399.3	561.6	773.1	714.7	58.33	13.254	
15,000.0	12,550.0	14,741.6	12,380.0	30.4	33.5	77.30	-2,499.3	562.6	773.1	713.6	59.51	12.990	
15,100.0	12,550.0	14,841.6	12,380.0	31.0	34.2	77.30	-2,599.3	563.6	773.1	712.4	60.73	12.730	
15,200.0	12,550.0	14,941.6	12,380.0	31.7	34.9	77.30	-2,699.3	564.5	773.1	711.1	61.97	12.475	
15,300.0	12,550.0	15,041.6	12,380.0	32.3	35.6	77.30	-2,799.3	565.5	773.1	709.9	63.24	12.225	
15,400.0	12,550.0	15,141.6	12,380.0	33.0	36.3	77.30	-2,899.3	566.5	773.1	708.6	64.53	11.980	
15,500.0	12,550.0	15,241.6	12,380.0	33.6	37.1	77.30	-2,999.3	567.4	773.1	707.3	65.85	11.741	
15,600.0	12,550.0	15,341.6	12,380.0	34.3	37.8	77.30	-3,099.3	568.4	773.1	705.9	67.19	11.507	
15,700.0	12,550.0	15,441.6	12,380.0	35.0	38.6	77.30	-3,199.3	569.4	773.1	704.6	68.54	11.279	
15,800.0	12,550.0	15,541.6	12,380.0	35.6	39.3	77.30	-3,299.3	570.4	773.1	703.2	69.92	11.057	
15,900.0	12,550.0	15,641.6	12,380.0	36.3	40.1	77.30	-3,399.3	571.3	773.1	701.8	71.31	10.841	
16,000.0	12,550.0	15,741.6	12,380.0	37.0	40.9	77.30	-3,499.3	572.3	773.1	700.4	72.72	10.631	
16,100.0	12,550.0	15,841.6	12,380.0	37.7	41.7	77.30	-3,599.2	573.3	773.1	699.0	74.15	10.426	
16,200.0	12,550.0	15,941.6	12,380.0	38.4	42.5	77.30	-3,699.2	574.2	773.1	697.5	75.59	10.228	
16,300.0	12,550.0	16,041.6	12,380.0	39.2	43.3	77.30	-3,799.2	575.2	773.1	696.1	77.05	10.034	
16,400.0	12,550.0	16,141.6	12,380.0	39.9	44.1	77.30	-3,899.2	576.2	773.2	694.6	78.52	9.847	
16,500.0	12,550.0	16,241.6	12,380.0	40.6	44.9	77.30	-3,999.2	577.2	773.2	693.2	80.00	9.664	
16,600.0	12,550.0	16,341.6	12,380.0	41.3	45.8	77.30	-4,099.2	578.1	773.2	691.7	81.50	9.487	
16,700.0	12,550.0	16,441.6	12,380.0	42.1	46.6	77.30	-4,199.2	579.1	773.2	690.2	83.00	9.315	
16,800.0	12,550.0	16,541.6	12,380.0	42.8	47.4	77.30	-4,299.2	580.1	773.2	688.7	84.52	9.148	
16,900.0	12,550.0	16,641.6	12,380.0	43.6	48.3	77.30	-4,399.2	581.1	773.2	687.1	86.04	8.986	
17,000.0	12,550.0	16,741.6	12,380.0	44.3	49.1	77.30	-4,499.2	582.0	773.2	685.6	87.58	8.829	
17,100.0	12,550.0	16,841.6	12,380.0	45.1	50.0	77.30	-4,599.2	583.0	773.2	684.1	89.12	8.676	
17,200.0	12,550.0	16,941.6	12,380.0	45.8	50.8	77.30	-4,699.2	584.0	773.2	682.5	90.68	8.527	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
17,300.0	12,550.0	17,041.6	12,380.0	46.6	51.7	77.30	-4,799.2	584.9	773.2	681.0	92.24	8.383	
17,400.0	12,550.0	17,141.6	12,380.0	47.3	52.5	77.30	-4,899.2	585.9	773.2	679.4	93.81	8.243	
17,500.0	12,550.0	17,241.6	12,380.0	48.1	53.4	77.30	-4,999.2	586.9	773.2	677.8	95.38	8.106	
17,600.0	12,550.0	17,341.6	12,380.0	48.9	54.3	77.30	-5,099.2	587.9	773.2	676.2	96.97	7.974	
17,700.0	12,550.0	17,441.6	12,380.0	49.6	55.1	77.30	-5,199.2	588.8	773.2	674.7	98.56	7.845	
17,800.0	12,550.0	17,541.6	12,380.0	50.4	56.0	77.30	-5,299.2	589.8	773.2	673.1	100.15	7.720	
17,900.0	12,550.0	17,641.6	12,380.0	51.2	56.9	77.30	-5,399.2	590.8	773.2	671.5	101.76	7.599	
18,000.0	12,550.0	17,741.6	12,380.0	52.0	57.8	77.30	-5,499.2	591.8	773.2	669.9	103.37	7.481	
18,100.0	12,550.0	17,841.6	12,380.0	52.8	58.6	77.30	-5,599.2	592.7	773.2	668.3	104.98	7.366	
18,200.0	12,550.0	17,941.6	12,380.0	53.5	59.5	77.30	-5,699.1	593.7	773.2	666.6	106.60	7.254	
18,300.0	12,550.0	18,041.6	12,380.0	54.3	60.4	77.30	-5,799.1	594.7	773.3	665.0	108.22	7.145	
18,400.0	12,550.0	18,141.6	12,380.0	55.1	61.3	77.30	-5,899.1	595.6	773.3	663.4	109.85	7.039	
18,500.0	12,550.0	18,241.6	12,380.0	55.9	62.2	77.30	-5,999.1	596.6	773.3	661.8	111.49	6.936	
18,600.0	12,550.0	18,341.6	12,380.0	56.7	63.1	77.30	-6,099.1	597.6	773.3	660.1	113.12	6.836	
18,700.0	12,550.0	18,441.6	12,380.0	57.5	64.0	77.30	-6,199.1	598.6	773.3	658.5	114.77	6.738	
18,800.0	12,550.0	18,541.6	12,380.0	58.3	64.9	77.30	-6,299.1	599.5	773.3	656.9	116.41	6.643	
18,900.0	12,550.0	18,641.6	12,380.0	59.1	65.8	77.30	-6,399.1	600.5	773.3	655.2	118.06	6.550	
19,000.0	12,550.0	18,741.6	12,380.0	59.9	66.7	77.30	-6,499.1	601.5	773.3	653.6	119.72	6.459	
19,100.0	12,550.0	18,841.6	12,380.0	60.7	67.6	77.30	-6,599.1	602.4	773.3	651.9	121.37	6.371	
19,200.0	12,550.0	18,941.6	12,380.0	61.5	68.5	77.30	-6,699.1	603.4	773.3	650.3	123.03	6.285	
19,300.0	12,550.0	19,041.6	12,380.0	62.3	69.4	77.30	-6,799.1	604.4	773.3	648.6	124.70	6.201	
19,400.0	12,550.0	19,141.6	12,380.0	63.1	70.3	77.30	-6,899.1	605.4	773.3	646.9	126.36	6.120	
19,500.0	12,550.0	19,241.6	12,380.0	63.9	71.2	77.30	-6,999.1	606.3	773.3	645.3	128.04	6.040	
19,600.0	12,550.0	19,341.6	12,380.0	64.7	72.1	77.30	-7,099.1	607.3	773.3	643.6	129.71	5.962	
19,700.0	12,550.0	19,441.6	12,380.0	65.5	73.0	77.30	-7,199.1	608.3	773.3	641.9	131.38	5.886	
19,800.0	12,550.0	19,541.6	12,380.0	66.3	73.9	77.30	-7,299.1	609.3	773.3	640.3	133.06	5.812	
19,900.0	12,550.0	19,641.6	12,380.0	67.2	74.8	77.30	-7,399.1	610.2	773.3	638.6	134.74	5.739	
20,000.0	12,550.0	19,741.6	12,380.0	68.0	75.8	77.30	-7,499.1	611.2	773.3	636.9	136.43	5.669	
20,100.0	12,550.0	19,841.6	12,380.0	68.8	76.7	77.30	-7,599.1	612.2	773.3	635.2	138.11	5.599	
20,200.0	12,550.0	19,941.6	12,380.0	69.6	77.6	77.30	-7,699.1	613.1	773.4	633.5	139.80	5.532	
20,300.0	12,550.0	20,041.6	12,380.0	70.4	78.5	77.30	-7,799.0	614.1	773.4	631.9	141.49	5.466	
20,400.0	12,550.0	20,141.6	12,380.0	71.2	79.4	77.30	-7,899.0	615.1	773.4	630.2	143.18	5.401	
20,500.0	12,550.0	20,241.6	12,380.0	72.0	80.4	77.30	-7,999.0	616.1	773.4	628.5	144.88	5.338	
20,600.0	12,550.0	20,341.6	12,380.0	72.9	81.3	77.30	-8,099.0	617.0	773.4	626.8	146.57	5.276	
20,603.2	12,550.0	20,344.8	12,380.0	72.9	81.3	77.30	-8,102.2	617.1	773.4	626.7	146.63	5.274	
20,638.5	12,550.0	20,378.9	12,380.0	73.2	81.6	77.30	-8,136.3	617.4	773.4	626.2	147.20	5.254	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
7,200.0	7,095.7	7,117.7	7,095.7	15.4	14.9	0.91	37.4	1,995.9	980.1	949.9	30.21	32.438	
7,300.0	7,193.5	7,215.5	7,193.5	15.6	14.9	0.93	37.4	1,995.9	959.4	928.9	30.49	31.471	
7,400.0	7,291.4	7,313.3	7,291.4	15.8	15.0	0.95	37.4	1,995.9	938.7	907.9	30.76	30.519	
7,500.0	7,389.2	7,411.2	7,389.2	16.0	15.1	0.97	37.4	1,995.9	917.9	886.9	31.03	29.583	
7,600.0	7,487.0	7,509.0	7,487.0	16.2	15.1	0.99	37.4	1,995.9	897.2	865.9	31.30	28.662	
7,700.0	7,584.8	7,606.8	7,584.8	16.4	15.2	1.01	37.4	1,995.9	876.5	844.9	31.58	27.756	
7,800.0	7,682.7	7,704.6	7,682.7	16.6	15.3	1.04	37.4	1,995.9	855.8	823.9	31.85	26.865	
7,900.0	7,780.5	7,802.5	7,780.5	16.8	15.3	1.06	37.4	1,995.9	835.0	802.9	32.13	25.989	
7,932.5	7,812.3	7,834.3	7,812.3	16.9	15.4	1.07	37.4	1,995.9	828.3	796.1	32.21	25.715	
8,000.0	7,878.4	7,900.4	7,878.4	17.0	15.4	1.09	37.4	1,995.9	814.7	782.3	32.39	25.156	
8,100.0	7,976.6	7,998.6	7,976.6	17.2	15.5	1.11	37.4	1,995.9	796.0	763.3	32.66	24.372	
8,200.0	8,075.2	8,097.1	8,075.2	17.4	15.6	1.13	37.4	1,995.9	779.0	746.1	32.93	23.655	
8,300.0	8,174.0	8,196.0	8,174.0	17.6	15.6	1.15	37.4	1,995.9	763.7	730.5	33.20	23.005	
8,400.0	8,273.1	8,295.0	8,273.1	17.8	15.7	1.17	37.4	1,995.9	750.2	716.7	33.46	22.419	
8,500.0	8,372.4	8,394.3	8,372.4	17.9	15.8	1.18	37.4	1,995.9	738.3	704.6	33.72	21.896	
8,600.0	8,471.9	8,493.8	8,471.9	18.1	15.8	1.20	37.4	1,995.9	728.3	694.3	33.97	21.437	
8,700.0	8,571.5	8,593.5	8,571.5	18.3	15.9	1.21	37.4	1,995.9	719.9	685.7	34.22	21.038	
8,800.0	8,671.3	8,693.3	8,671.3	18.5	16.0	1.22	37.4	1,995.9	713.3	678.8	34.46	20.701	
8,900.0	8,771.2	8,793.1	8,771.2	18.6	16.1	1.23	37.4	1,995.9	708.4	673.8	34.69	20.423	
9,000.0	8,871.1	8,893.1	8,871.1	18.8	16.1	1.23	37.4	1,995.9	705.3	670.4	34.91	20.206	
9,100.0	8,971.1	8,993.1	8,971.1	18.9	16.2	1.23	37.4	1,995.9	703.9	668.8	35.10	20.053	
9,128.9	9,000.0	9,022.0	9,000.0	18.9	16.2	89.73	37.4	1,995.9	703.9	668.7	35.14	20.032	
9,200.0	9,071.1	9,093.1	9,071.1	18.9	16.3	89.73	37.4	1,995.9	703.9	668.7	35.21	19.991	
9,300.0	9,171.1	9,193.1	9,171.1	19.0	16.3	89.73	37.4	1,995.9	703.9	668.5	35.32	19.926	
9,400.0	9,271.1	9,293.1	9,271.1	19.0	16.4	89.73	37.4	1,995.9	703.9	668.4	35.44	19.860	
9,500.0	9,371.1	9,393.1	9,371.1	19.1	16.5	89.73	37.4	1,995.9	703.9	668.3	35.56	19.795	
9,600.0	9,471.1	9,493.1	9,471.1	19.1	16.6	89.73	37.4	1,995.9	703.9	668.2	35.67	19.730	
9,700.0	9,571.1	9,593.1	9,571.1	19.2	16.6	89.73	37.4	1,995.9	703.9	668.1	35.79	19.666	
9,800.0	9,671.1	9,693.1	9,671.1	19.2	16.7	89.73	37.4	1,995.9	703.9	668.0	35.91	19.602	
9,900.0	9,771.1	9,793.1	9,771.1	19.3	16.8	89.73	37.4	1,995.9	703.9	667.8	36.03	19.538	
10,000.0	9,871.1	9,893.1	9,871.1	19.3	16.9	89.73	37.4	1,995.9	703.9	667.7	36.14	19.474	
10,100.0	9,971.1	9,993.1	9,971.1	19.4	16.9	89.73	37.4	1,995.9	703.9	667.6	36.26	19.410	
10,200.0	10,071.1	10,093.1	10,071.1	19.4	17.0	89.73	37.4	1,995.9	703.9	667.5	36.38	19.347	
10,300.0	10,171.1	10,193.1	10,171.1	19.5	17.1	89.73	37.4	1,995.9	703.9	667.4	36.50	19.284	
10,400.0	10,271.1	10,293.1	10,271.1	19.5	17.1	89.73	37.4	1,995.9	703.9	667.2	36.62	19.221	
10,500.0	10,371.1	10,393.1	10,371.1	19.5	17.2	89.73	37.4	1,995.9	703.9	667.1	36.74	19.158	
10,600.0	10,471.1	10,493.1	10,471.1	19.6	17.3	89.73	37.4	1,995.9	703.9	667.0	36.86	19.096	
10,700.0	10,571.1	10,593.1	10,571.1	19.6	17.4	89.73	37.4	1,995.9	703.9	666.9	36.98	19.033	
10,800.0	10,671.1	10,693.1	10,671.1	19.7	17.4	89.73	37.4	1,995.9	703.9	666.8	37.10	18.972	
10,900.0	10,771.1	10,793.1	10,771.1	19.8	17.5	89.73	37.4	1,995.9	703.9	666.6	37.22	18.910	
11,000.0	10,871.1	10,893.1	10,871.1	19.8	17.6	89.73	37.4	1,995.9	703.9	666.5	37.34	18.848	
11,100.0	10,971.1	10,993.1	10,971.1	19.9	17.7	89.73	37.4	1,995.9	703.9	666.4	37.47	18.787	
11,200.0	11,071.1	11,093.1	11,071.1	19.9	17.7	89.73	37.4	1,995.9	703.9	666.3	37.59	18.726	
11,300.0	11,171.1	11,193.1	11,171.1	20.0	17.8	89.73	37.4	1,995.9	703.9	666.2	37.71	18.666	
11,400.0	11,271.1	11,293.1	11,271.1	20.0	17.9	89.73	37.4	1,995.9	703.9	666.0	37.83	18.605	
11,500.0	11,371.1	11,393.1	11,371.1	20.1	18.0	89.73	37.4	1,995.9	703.9	665.9	37.95	18.545	
11,600.0	11,471.1	11,493.1	11,471.1	20.1	18.0	89.73	37.4	1,995.9	703.9	665.8	38.08	18.485	
11,700.0	11,571.1	11,593.1	11,571.1	20.2	18.1	89.73	37.4	1,995.9	703.9	665.7	38.20	18.425	
11,800.0	11,671.1	11,693.1	11,671.1	20.2	18.2	89.73	37.4	1,995.9	703.9	665.5	38.32	18.366	
11,900.0	11,771.1	11,793.1	11,771.1	20.3	18.3	89.73	37.4	1,995.9	703.9	665.4	38.45	18.307	
12,000.0	11,871.1	11,893.1	11,871.1	20.3	18.3	89.73	37.4	1,995.9	703.9	665.3	38.57	18.248	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
12,010.0	11,881.1	11,903.1	11,881.1	20.3	18.3	89.73	37.4	1,995.9	703.9	665.3	38.58	18.242 CC	
12,100.0	11,971.1	11,992.2	11,970.0	20.4	18.3	90.12	32.6	1,995.9	703.9	665.3	38.63	18.223	
12,200.0	12,071.1	12,085.5	12,060.5	20.4	18.3	91.92	10.4	1,996.1	704.6	666.0	38.62	18.246	
12,201.4	12,072.5	12,086.8	12,061.7	20.4	18.3	91.95	10.0	1,996.1	704.6	666.0	38.62	18.246	
12,225.0	12,096.1	12,107.5	12,081.1	20.4	18.3	-86.89	2.7	1,996.2	705.0	666.4	38.60	18.266	
12,250.0	12,121.0	12,129.1	12,101.0	20.4	18.3	-86.26	-5.8	1,996.3	705.5	666.9	38.57	18.290	
12,275.0	12,145.8	12,150.0	12,119.7	20.4	18.3	-85.65	-14.9	1,996.3	706.1	667.5	38.55	18.315	
12,300.0	12,170.4	12,171.6	12,138.8	20.4	18.2	-85.03	-25.2	1,996.4	706.8	668.2	38.53	18.343	
12,325.0	12,194.7	12,192.5	12,156.7	20.4	18.2	-84.43	-35.9	1,996.5	707.5	669.0	38.51	18.370	
12,350.0	12,218.7	12,213.1	12,173.9	20.4	18.2	-83.85	-47.3	1,996.6	708.3	669.8	38.50	18.397	
12,375.0	12,242.3	12,233.6	12,190.5	20.4	18.2	-83.29	-59.3	1,996.8	709.1	670.6	38.49	18.422	
12,400.0	12,265.4	12,253.8	12,206.3	20.4	18.2	-82.74	-71.8	1,996.9	709.9	671.5	38.49	18.447	
12,425.0	12,288.0	12,275.0	12,222.4	20.4	18.2	-82.18	-85.6	1,997.0	710.8	672.4	38.48	18.471	
12,450.0	12,310.0	12,293.8	12,236.1	20.4	18.2	-81.69	-98.5	1,997.1	711.8	673.3	38.50	18.488	
12,475.0	12,331.4	12,313.5	12,249.9	20.4	18.2	-81.19	-112.6	1,997.3	712.7	674.2	38.51	18.505	
12,500.0	12,352.0	12,333.1	12,263.0	20.4	18.2	-80.72	-127.1	1,997.4	713.6	675.1	38.54	18.518	
12,525.0	12,371.9	12,350.0	12,273.9	20.4	18.2	-80.31	-140.0	1,997.5	714.6	676.0	38.58	18.521	
12,550.0	12,391.0	12,371.9	12,287.3	20.4	18.2	-79.83	-157.4	1,997.7	715.5	676.9	38.60	18.533	
12,575.0	12,409.1	12,391.1	12,298.3	20.4	18.2	-79.42	-173.1	1,997.8	716.4	677.7	38.65	18.535	
12,600.0	12,426.4	12,410.2	12,308.7	20.4	18.3	-79.04	-189.1	1,998.0	717.3	678.6	38.70	18.532	
12,625.0	12,442.7	12,429.2	12,318.4	20.4	18.3	-78.68	-205.5	1,998.1	718.1	679.3	38.76	18.526	
12,650.0	12,458.0	12,450.0	12,328.2	20.4	18.3	-78.32	-223.8	1,998.3	718.9	680.1	38.82	18.522	
12,675.0	12,472.2	12,467.0	12,335.6	20.4	18.3	-78.03	-239.1	1,998.4	719.7	680.8	38.90	18.501	
12,700.0	12,485.3	12,485.8	12,343.2	20.5	18.3	-77.74	-256.3	1,998.6	720.4	681.4	38.98	18.483	
12,725.0	12,497.3	12,504.5	12,350.0	20.5	18.3	-77.49	-273.7	1,998.8	721.1	682.0	39.06	18.461	
12,750.0	12,508.1	12,525.0	12,356.8	20.5	18.3	-77.24	-293.1	1,998.9	721.7	682.5	39.13	18.442	
12,775.0	12,517.8	12,541.7	12,361.6	20.5	18.4	-77.05	-309.1	1,999.1	722.2	683.0	39.23	18.408	
12,800.0	12,526.2	12,560.3	12,366.4	20.6	18.4	-76.88	-327.0	1,999.3	722.7	683.3	39.33	18.377	
12,825.0	12,533.3	12,578.8	12,370.4	20.6	18.4	-76.73	-345.1	1,999.4	723.1	683.6	39.42	18.343	
12,850.0	12,539.2	12,600.0	12,374.2	20.7	18.4	-76.60	-365.9	1,999.6	723.4	683.9	39.50	18.314	
12,875.0	12,543.9	12,615.8	12,376.4	20.7	18.5	-76.52	-381.5	1,999.8	723.6	684.0	39.61	18.270	
12,900.0	12,547.2	12,634.2	12,378.3	20.8	18.5	-76.45	-399.9	1,999.9	723.8	684.1	39.70	18.231	
12,925.0	12,549.2	12,650.0	12,379.3	20.8	18.5	-76.42	-415.6	2,000.1	723.9	684.1	39.80	18.186	
12,951.4	12,550.0	12,674.5	12,380.0	20.9	18.5	-76.42	-440.1	2,000.3	723.9	684.0	39.88	18.150	
12,971.8	12,550.0	12,691.7	12,380.0	20.9	18.6	-76.42	-457.4	2,000.5	723.9	683.9	39.96	18.117	
13,000.0	12,550.0	12,719.9	12,380.0	21.0	18.6	-76.42	-485.5	2,000.7	723.9	683.8	40.05	18.074	
13,100.0	12,550.0	12,819.9	12,380.0	21.3	18.9	-76.42	-585.5	2,001.7	723.8	683.4	40.44	17.899	
13,200.0	12,550.0	12,919.9	12,380.0	21.6	19.1	-76.42	-685.5	2,002.6	723.8	682.9	40.90	17.696	
13,300.0	12,550.0	13,019.9	12,380.0	21.9	19.5	-76.41	-785.5	2,003.5	723.7	682.3	41.44	17.466	
13,400.0	12,550.0	13,119.9	12,380.0	22.3	19.8	-76.41	-885.5	2,004.4	723.7	681.6	42.04	17.214	
13,500.0	12,550.0	13,219.9	12,380.0	22.7	20.2	-76.41	-985.5	2,005.4	723.6	680.9	42.71	16.943	
13,600.0	12,550.0	13,319.9	12,380.0	23.1	20.7	-76.41	-1,085.5	2,006.3	723.6	680.1	43.44	16.657	
13,700.0	12,550.0	13,419.9	12,380.0	23.5	21.2	-76.41	-1,185.5	2,007.2	723.5	679.3	44.23	16.357	
13,800.0	12,550.0	13,519.9	12,380.0	23.9	21.7	-76.41	-1,285.5	2,008.2	723.5	678.4	45.08	16.048	
13,900.0	12,550.0	13,619.9	12,380.0	24.4	22.2	-76.41	-1,385.5	2,009.1	723.4	677.5	45.99	15.732	
14,000.0	12,550.0	13,719.9	12,380.0	24.8	22.8	-76.41	-1,485.5	2,010.0	723.4	676.5	46.94	15.411	
14,100.0	12,550.0	13,819.9	12,380.0	25.3	23.4	-76.41	-1,585.5	2,011.0	723.4	675.4	47.94	15.089	
14,200.0	12,550.0	13,919.9	12,380.0	25.8	24.0	-76.41	-1,685.5	2,011.9	723.3	674.3	48.98	14.766	
14,300.0	12,550.0	14,019.9	12,380.0	26.4	24.6	-76.41	-1,785.5	2,012.8	723.3	673.2	50.07	14.445	
14,400.0	12,550.0	14,119.9	12,380.0	26.9	25.3	-76.40	-1,885.5	2,013.8	723.2	672.0	51.20	14.126	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
14,500.0	12,550.0	14,219.9	12,380.0	27.4	26.0	-76.40	-1,985.4	2,014.7	723.2	670.8	52.36	13.812	
14,600.0	12,550.0	14,319.9	12,380.0	28.0	26.7	-76.40	-2,085.4	2,015.6	723.1	669.6	53.55	13.503	
14,700.0	12,550.0	14,419.9	12,380.0	28.6	27.4	-76.40	-2,185.4	2,016.5	723.1	668.3	54.78	13.199	
14,800.0	12,550.0	14,519.9	12,380.0	29.2	28.1	-76.40	-2,285.4	2,017.5	723.0	667.0	56.04	12.902	
14,900.0	12,550.0	14,619.9	12,380.0	29.8	28.9	-76.40	-2,385.4	2,018.4	723.0	665.7	57.32	12.612	
15,000.0	12,550.0	14,719.9	12,380.0	30.4	29.6	-76.40	-2,485.4	2,019.3	722.9	664.3	58.63	12.330	
15,100.0	12,550.0	14,819.9	12,380.0	31.0	30.4	-76.40	-2,585.4	2,020.3	722.9	662.9	59.97	12.054	
15,200.0	12,550.0	14,919.9	12,380.0	31.7	31.2	-76.40	-2,685.4	2,021.2	722.8	661.5	61.33	11.787	
15,300.0	12,550.0	15,019.9	12,380.0	32.3	32.0	-76.40	-2,785.4	2,022.1	722.8	660.1	62.71	11.527	
15,400.0	12,550.0	15,119.9	12,380.0	33.0	32.8	-76.40	-2,885.4	2,023.1	722.8	658.7	64.10	11.275	
15,500.0	12,550.0	15,219.9	12,380.0	33.6	33.6	-76.40	-2,985.4	2,024.0	722.7	657.2	65.52	11.030	
15,600.0	12,550.0	15,319.9	12,380.0	34.3	34.4	-76.39	-3,085.4	2,024.9	722.7	655.7	66.95	10.793	
15,700.0	12,550.0	15,419.9	12,380.0	35.0	35.2	-76.39	-3,185.4	2,025.8	722.6	654.2	68.40	10.564	
15,800.0	12,550.0	15,519.9	12,380.0	35.6	36.1	-76.39	-3,285.4	2,026.8	722.6	652.7	69.87	10.342	
15,900.0	12,550.0	15,619.9	12,380.0	36.3	36.9	-76.39	-3,385.4	2,027.7	722.5	651.2	71.35	10.127	
16,000.0	12,550.0	15,719.9	12,380.0	37.0	37.7	-76.39	-3,485.4	2,028.6	722.5	649.6	72.84	9.919	
16,100.0	12,550.0	15,819.9	12,380.0	37.7	38.6	-76.39	-3,585.4	2,029.6	722.4	648.1	74.35	9.717	
16,200.0	12,550.0	15,919.9	12,380.0	38.4	39.4	-76.39	-3,685.4	2,030.5	722.4	646.5	75.86	9.522	
16,300.0	12,550.0	16,019.9	12,380.0	39.2	40.3	-76.39	-3,785.4	2,031.4	722.3	644.9	77.39	9.334	
16,400.0	12,550.0	16,119.9	12,380.0	39.9	41.2	-76.39	-3,885.4	2,032.4	722.3	643.4	78.93	9.151	
16,500.0	12,550.0	16,219.9	12,380.0	40.6	42.0	-76.39	-3,985.4	2,033.3	722.2	641.8	80.48	8.974	
16,600.0	12,550.0	16,319.9	12,380.0	41.3	42.9	-76.39	-4,085.4	2,034.2	722.2	640.2	82.04	8.803	
16,700.0	12,550.0	16,419.9	12,380.0	42.1	43.8	-76.38	-4,185.4	2,035.2	722.2	638.6	83.60	8.638	
16,800.0	12,550.0	16,519.9	12,380.0	42.8	44.7	-76.38	-4,285.3	2,036.1	722.1	636.9	85.18	8.478	
16,900.0	12,550.0	16,619.9	12,380.0	43.6	45.5	-76.38	-4,385.3	2,037.0	722.1	635.3	86.76	8.323	
17,000.0	12,550.0	16,719.9	12,380.0	44.3	46.4	-76.38	-4,485.3	2,037.9	722.0	633.7	88.35	8.172	
17,100.0	12,550.0	16,819.9	12,380.0	45.1	47.3	-76.38	-4,585.3	2,038.9	722.0	632.0	89.95	8.027	
17,200.0	12,550.0	16,919.9	12,380.0	45.8	48.2	-76.38	-4,685.3	2,039.8	721.9	630.4	91.55	7.886	
17,300.0	12,550.0	17,019.9	12,380.0	46.6	49.1	-76.38	-4,785.3	2,040.7	721.9	628.7	93.16	7.749	
17,400.0	12,550.0	17,119.9	12,380.0	47.3	50.0	-76.38	-4,885.3	2,041.7	721.8	627.1	94.78	7.616	
17,500.0	12,550.0	17,219.9	12,380.0	48.1	50.9	-76.38	-4,985.3	2,042.6	721.8	625.4	96.40	7.488	
17,600.0	12,550.0	17,319.9	12,380.0	48.9	51.8	-76.38	-5,085.3	2,043.5	721.7	623.7	98.02	7.363	
17,700.0	12,550.0	17,419.9	12,380.0	49.6	52.7	-76.38	-5,185.3	2,044.5	721.7	622.0	99.66	7.242	
17,800.0	12,550.0	17,519.9	12,380.0	50.4	53.6	-76.37	-5,285.3	2,045.4	721.7	620.4	101.29	7.124	
17,900.0	12,550.0	17,619.9	12,380.0	51.2	54.5	-76.37	-5,385.3	2,046.3	721.6	618.7	102.93	7.010	
18,000.0	12,550.0	17,719.9	12,380.0	52.0	55.4	-76.37	-5,485.3	2,047.3	721.6	617.0	104.58	6.900	
18,100.0	12,550.0	17,819.9	12,380.0	52.8	56.3	-76.37	-5,585.3	2,048.2	721.5	615.3	106.23	6.792	
18,200.0	12,550.0	17,919.9	12,380.0	53.5	57.3	-76.37	-5,685.3	2,049.1	721.5	613.6	107.88	6.688	
18,300.0	12,550.0	18,019.9	12,380.0	54.3	58.2	-76.37	-5,785.3	2,050.0	721.4	611.9	109.54	6.586	
18,400.0	12,550.0	18,119.9	12,380.0	55.1	59.1	-76.37	-5,885.3	2,051.0	721.4	610.2	111.20	6.487	
18,500.0	12,550.0	18,219.9	12,380.0	55.9	60.0	-76.37	-5,985.3	2,051.9	721.3	608.5	112.87	6.391	
18,600.0	12,550.0	18,319.9	12,380.0	56.7	60.9	-76.37	-6,085.3	2,052.8	721.3	606.7	114.54	6.297	
18,700.0	12,550.0	18,419.9	12,380.0	57.5	61.8	-76.37	-6,185.3	2,053.8	721.2	605.0	116.21	6.207	
18,800.0	12,550.0	18,519.9	12,380.0	58.3	62.8	-76.37	-6,285.3	2,054.7	721.2	603.3	117.88	6.118	
18,900.0	12,550.0	18,619.9	12,380.0	59.1	63.7	-76.37	-6,385.3	2,055.6	721.1	601.6	119.56	6.032	
19,000.0	12,550.0	18,719.9	12,380.0	59.9	64.6	-76.36	-6,485.3	2,056.6	721.1	599.9	121.24	5.948	
19,100.0	12,550.0	18,819.9	12,380.0	60.7	65.5	-76.36	-6,585.2	2,057.5	721.1	598.1	122.92	5.866	
19,200.0	12,550.0	18,919.9	12,380.0	61.5	66.5	-76.36	-6,685.2	2,058.4	721.0	596.4	124.61	5.786	
19,300.0	12,550.0	19,019.9	12,380.0	62.3	67.4	-76.36	-6,785.2	2,059.3	721.0	594.7	126.30	5.709	
19,400.0	12,550.0	19,119.9	12,380.0	63.1	68.3	-76.36	-6,885.2	2,060.3	720.9	592.9	127.99	5.633	
19,500.0	12,550.0	19,219.9	12,380.0	63.9	69.3	-76.36	-6,985.2	2,061.2	720.9	591.2	129.68	5.559	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
19,600.0	12,550.0	19,319.9	12,380.0	64.7	70.2	-76.36	-7,085.2	2,062.1	720.8	589.5	131.37	5.487	
19,700.0	12,550.0	19,419.9	12,380.0	65.5	71.1	-76.36	-7,185.2	2,063.1	720.8	587.7	133.07	5.417	
19,800.0	12,550.0	19,519.9	12,380.0	66.3	72.0	-76.36	-7,285.2	2,064.0	720.7	586.0	134.77	5.348	
19,900.0	12,550.0	19,619.9	12,380.0	67.2	73.0	-76.36	-7,385.2	2,064.9	720.7	584.2	136.47	5.281	
20,000.0	12,550.0	19,719.9	12,380.0	68.0	73.9	-76.36	-7,485.2	2,065.9	720.6	582.5	138.17	5.216	
20,100.0	12,550.0	19,819.9	12,380.0	68.8	74.9	-76.35	-7,585.2	2,066.8	720.6	580.7	139.88	5.152	
20,200.0	12,550.0	19,919.9	12,380.0	69.6	75.8	-76.35	-7,685.2	2,067.7	720.5	579.0	141.58	5.089	
20,300.0	12,550.0	20,019.9	12,380.0	70.4	76.7	-76.35	-7,785.2	2,068.7	720.5	577.2	143.29	5.028	
20,400.0	12,550.0	20,119.9	12,380.0	71.2	77.7	-76.35	-7,885.2	2,069.6	720.5	575.5	145.00	4.969	
20,500.0	12,550.0	20,219.9	12,380.0	72.0	78.6	-76.35	-7,985.2	2,070.5	720.4	573.7	146.71	4.910	
20,600.0	12,550.0	20,319.9	12,380.0	72.9	79.5	-76.35	-8,085.2	2,071.4	720.4	571.9	148.42	4.853	
20,638.5	12,550.0	20,358.4	12,380.0	73.2	79.9	-76.35	-8,123.7	2,071.8	720.3	571.3	149.08	4.832	ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.4	-60.0	60.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.4	-60.0	60.0	58.0	1.99	30.132	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.4	-60.0	60.0	56.7	3.31	18.118	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.4	-60.0	60.0	55.8	4.20	14.301	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.4	-60.0	60.0	55.1	4.91	12.215	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.4	-60.0	60.0	54.5	5.53	10.844	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.4	-60.0	60.0	53.9	6.09	9.852	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.4	-60.0	60.0	53.4	6.60	9.089	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.4	-60.0	60.0	52.9	7.08	8.479	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.4	-60.0	60.0	52.5	7.52	7.975	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.4	-60.0	60.0	52.1	7.95	7.550	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.4	-60.0	60.0	51.6	8.35	7.184	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.4	-60.0	60.0	51.3	8.74	6.865	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.4	-60.0	60.0	50.9	9.11	6.584	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.4	-60.0	60.0	50.5	9.47	6.334	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.4	-60.0	60.0	50.2	9.82	6.108	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.4	-60.0	60.0	49.8	10.16	5.904	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.4	-60.0	60.0	49.5	10.49	5.718	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.4	-60.0	60.0	49.2	10.82	5.548	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.4	-60.0	60.0	48.9	11.13	5.390	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.4	-60.0	60.0	48.6	11.44	5.245 CC, ES	
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	-178.92	-0.4	-60.0	61.7	49.9	11.82	5.225 SF	
2,200.0	2,199.8	2,199.8	2,199.8	6.0	5.9	-179.01	-0.4	-60.0	67.0	54.8	12.18	5.501	
2,300.0	2,299.5	2,299.5	2,299.5	6.2	6.0	-179.12	-0.4	-60.0	75.7	63.2	12.53	6.041	
2,400.0	2,398.7	2,398.7	2,398.7	6.4	6.2	-179.24	-0.4	-60.0	87.9	75.0	12.88	6.823	
2,500.0	2,497.5	2,497.5	2,497.5	6.6	6.3	-179.35	-0.4	-60.0	103.5	90.3	13.22	7.828	
2,598.2	2,593.9	2,593.9	2,593.9	6.8	6.4	-179.44	-0.4	-60.0	122.2	108.7	13.55	9.018	
2,600.0	2,595.6	2,595.6	2,595.6	6.8	6.4	-179.45	-0.4	-60.0	122.6	109.0	13.56	9.042	
2,700.0	2,693.5	2,693.5	2,693.5	7.3	6.6	-179.53	-0.4	-60.0	143.3	129.1	14.22	10.082	
2,800.0	2,791.3	2,791.3	2,791.3	7.5	6.7	-179.59	-0.4	-60.0	164.1	149.6	14.48	11.333	
2,900.0	2,889.1	2,889.1	2,889.1	7.6	6.8	-179.63	-0.4	-60.0	184.8	170.0	14.74	12.538	
3,000.0	2,986.9	2,986.9	2,986.9	7.7	7.0	-179.67	-0.4	-60.0	205.5	190.5	15.00	13.698	
3,100.0	3,084.8	3,084.8	3,084.8	7.9	7.1	-179.70	-0.4	-60.0	226.2	211.0	15.27	14.816	
3,200.0	3,182.6	3,182.6	3,182.6	8.0	7.2	-179.73	-0.4	-60.0	247.0	231.4	15.54	15.894	
3,300.0	3,280.4	3,280.4	3,280.4	8.2	7.3	-179.75	-0.4	-60.0	267.7	251.9	15.81	16.932	
3,400.0	3,378.2	3,378.2	3,378.2	8.3	7.5	-179.76	-0.4	-60.0	288.4	272.3	16.08	17.933	
3,500.0	3,476.1	3,476.1	3,476.1	8.5	7.6	-179.78	-0.4	-60.0	309.2	292.8	16.36	18.898	
3,600.0	3,573.9	3,573.9	3,573.9	8.6	7.7	-179.79	-0.4	-60.0	329.9	313.3	16.64	19.830	
3,700.0	3,671.7	3,671.7	3,671.7	8.8	7.8	-179.81	-0.4	-60.0	350.6	333.7	16.91	20.729	
3,800.0	3,769.6	3,769.6	3,769.6	9.0	8.0	-179.82	-0.4	-60.0	371.3	354.1	17.19	21.597	
3,900.0	3,867.4	3,867.4	3,867.4	9.1	8.1	-179.83	-0.4	-60.0	392.1	374.6	17.48	22.435	
4,000.0	3,965.2	3,965.2	3,965.2	9.3	8.2	-179.84	-0.4	-60.0	412.8	395.0	17.76	23.244	
4,100.0	4,063.0	4,054.9	4,054.9	9.5	8.3	-179.83	-0.3	-60.5	434.1	416.1	18.04	24.062	
4,200.0	4,160.9	4,139.2	4,139.1	9.6	8.5	-179.76	0.2	-63.3	458.1	439.8	18.30	25.027	
4,300.0	4,258.7	4,227.0	4,226.8	9.8	8.6	-179.63	1.2	-68.6	484.6	466.1	18.57	26.101	
4,400.0	4,356.5	4,323.2	4,322.8	10.0	8.7	-179.49	2.5	-75.0	511.8	492.9	18.89	27.090	
4,500.0	4,454.4	4,419.5	4,418.8	10.2	8.8	-179.36	3.7	-81.4	538.9	519.7	19.16	28.126	
4,600.0	4,552.2	4,515.7	4,514.8	10.3	8.9	-179.24	4.9	-87.7	566.0	546.6	19.43	29.129	
4,700.0	4,650.0	4,612.0	4,610.9	10.5	9.0	-179.14	6.1	-94.1	593.2	573.5	19.71	30.099	
4,800.0	4,747.8	4,708.2	4,706.9	10.7	9.1	-179.04	7.3	-100.5	620.3	600.3	19.99	31.038	
4,900.0	4,845.7	4,804.4	4,802.9	10.9	9.2	-178.96	8.6	-106.8	647.4	627.2	20.27	31.945	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,943.5	4,900.7	4,898.9	11.1	9.3	-178.87	9.8	-113.2	674.6	654.0	20.55	32.823	
5,100.0	5,041.3	4,996.9	4,995.0	11.2	9.4	-178.80	11.0	-119.6	701.7	680.9	20.84	33.672	
5,200.0	5,139.1	5,093.2	5,091.0	11.4	9.5	-178.73	12.2	-125.9	728.9	707.7	21.13	34.494	
5,300.0	5,237.0	5,189.4	5,187.0	11.6	9.6	-178.67	13.4	-132.3	756.0	734.6	21.42	35.289	
5,400.0	5,334.8	5,285.7	5,283.0	11.8	9.8	-178.61	14.7	-138.6	783.2	761.4	21.72	36.058	
5,500.0	5,432.6	5,381.9	5,379.1	12.0	9.9	-178.55	15.9	-145.0	810.3	788.3	22.02	36.802	
5,600.0	5,530.5	5,478.1	5,475.1	12.2	10.0	-178.50	17.1	-151.4	837.5	815.1	22.32	37.522	
5,700.0	5,628.3	5,574.4	5,571.1	12.4	10.1	-178.45	18.3	-157.7	864.6	842.0	22.62	38.220	
5,800.0	5,726.1	5,670.6	5,667.1	12.6	10.2	-178.41	19.5	-164.1	891.7	868.8	22.93	38.895	
5,900.0	5,823.9	5,776.1	5,772.3	12.8	10.3	-178.36	20.8	-170.8	918.7	895.4	23.25	39.510	
6,000.0	5,921.8	5,891.2	5,887.4	13.0	10.5	-178.34	21.8	-176.1	943.9	920.3	23.61	39.979	
6,100.0	6,019.6	6,007.5	6,003.6	13.2	10.6	-178.35	22.4	-179.2	967.2	943.2	23.96	40.360	
6,200.0	6,117.4	6,121.3	6,117.4	13.4	10.7	-178.38	22.6	-180.0	988.6	964.3	24.30	40.679	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-1.0	-149.7	149.7				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-1.0	-149.7	149.7	147.7	1.99	75.189	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-1.0	-149.7	149.7	146.4	3.31	45.211	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-1.0	-149.7	149.7	145.5	4.20	35.687	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-1.0	-149.7	149.7	144.8	4.91	30.480	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-1.0	-149.7	149.7	144.2	5.53	27.059	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-1.0	-149.7	149.7	143.6	6.09	24.583	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-1.0	-149.7	149.7	143.1	6.60	22.681	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-1.0	-149.7	149.7	142.6	7.08	21.157	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-1.0	-149.7	149.7	142.2	7.52	19.900	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-1.0	-149.7	149.7	141.8	7.95	18.839	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-1.0	-149.7	149.7	141.4	8.35	17.927	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-1.0	-149.7	149.7	141.0	8.74	17.132	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-1.0	-149.7	149.7	140.6	9.11	16.430	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-1.0	-149.7	149.7	140.2	9.47	15.804	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-1.0	-149.7	149.7	139.9	9.82	15.242	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-1.0	-149.7	149.7	139.6	10.16	14.733	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-1.0	-149.7	149.7	139.2	10.49	14.268	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-1.0	-149.7	149.7	138.9	10.82	13.843	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-1.0	-149.7	149.7	138.6	11.13	13.451	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-1.0	-149.7	149.7	138.3	11.44	13.088 CC, ES	
2,100.0	2,100.0	2,094.9	2,094.9	5.8	5.8	-178.89	-1.0	-151.3	153.1	141.2	11.88	12.894 SF	
2,200.0	2,199.8	2,189.2	2,189.1	6.0	6.0	-178.88	-0.9	-156.0	163.3	151.0	12.27	13.306	
2,300.0	2,299.5	2,282.2	2,281.7	6.2	6.2	-178.87	-0.8	-163.6	180.2	167.5	12.65	14.242	
2,400.0	2,398.7	2,373.3	2,372.3	6.4	6.4	-178.86	-0.7	-174.0	203.6	190.6	13.01	15.648	
2,500.0	2,497.5	2,462.0	2,460.0	6.6	6.5	-178.84	-0.5	-186.9	233.4	220.1	13.35	17.481	
2,598.2	2,593.9	2,546.2	2,542.9	6.8	6.7	-178.83	-0.3	-201.6	268.7	255.0	13.67	19.662	
2,600.0	2,595.6	2,547.8	2,544.4	6.8	6.7	-178.83	-0.2	-201.9	269.4	255.7	13.67	19.703	
2,700.0	2,693.5	2,630.9	2,625.8	7.3	6.9	-178.83	0.0	-218.9	309.7	295.4	14.25	21.730	
2,800.0	2,791.3	2,711.9	2,704.6	7.5	7.1	-178.81	0.3	-237.7	352.6	338.1	14.47	24.363	
2,900.0	2,889.1	2,790.7	2,780.7	7.6	7.2	-178.80	0.6	-258.1	397.9	383.3	14.68	27.098	
3,000.0	2,986.9	2,867.3	2,854.1	7.7	7.4	-178.78	0.9	-280.0	445.7	430.8	14.89	29.928	
3,100.0	3,084.8	2,941.6	2,924.8	7.9	7.5	-178.76	1.3	-303.1	495.8	480.7	15.06	32.924	
3,200.0	3,182.6	3,023.4	3,001.9	8.0	7.6	-178.73	1.7	-329.9	547.5	532.3	15.26	35.883	
3,300.0	3,280.4	3,108.9	3,082.7	8.2	7.7	-178.71	2.1	-358.2	599.4	583.8	15.53	38.602	
3,400.0	3,378.2	3,194.4	3,163.4	8.3	7.8	-178.69	2.5	-386.4	651.2	635.4	15.80	41.210	
3,500.0	3,476.1	3,279.9	3,244.1	8.5	8.0	-178.68	3.0	-414.6	703.1	687.0	16.08	43.711	
3,600.0	3,573.9	3,365.4	3,324.8	8.6	8.1	-178.67	3.4	-442.8	754.9	738.5	16.37	46.108	
3,700.0	3,671.7	3,450.9	3,405.5	8.8	8.2	-178.65	3.8	-471.0	806.7	790.1	16.67	48.406	
3,800.0	3,769.6	3,536.4	3,486.3	9.0	8.4	-178.65	4.2	-499.2	858.6	841.6	16.97	50.608	
3,900.0	3,867.4	3,621.9	3,567.0	9.1	8.5	-178.64	4.7	-527.5	910.4	893.2	17.27	52.717	
4,000.0	3,965.2	3,707.5	3,647.7	9.3	8.7	-178.63	5.1	-555.7	962.3	944.7	17.58	54.738	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.6	-90.0	90.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.6	-90.0	90.0	88.0	1.99	45.198	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.6	-90.0	90.0	86.7	3.31	27.178	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.6	-90.0	90.0	85.8	4.20	21.452	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.6	-90.0	90.0	85.1	4.91	18.323	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.6	-90.0	90.0	84.5	5.53	16.266	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.6	-90.0	90.0	83.9	6.09	14.778	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.6	-90.0	90.0	83.4	6.60	13.634	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.6	-90.0	90.0	82.9	7.08	12.718	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.6	-90.0	90.0	82.5	7.52	11.962	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.6	-90.0	90.0	82.1	7.95	11.324	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.6	-90.0	90.0	81.6	8.35	10.776	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.6	-90.0	90.0	81.3	8.74	10.298	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.6	-90.0	90.0	80.9	9.11	9.876	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.6	-90.0	90.0	80.5	9.47	9.500	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.6	-90.0	90.0	80.2	9.82	9.162	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.6	-90.0	90.0	79.8	10.16	8.856	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.6	-90.0	90.0	79.5	10.49	8.577	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.6	-90.0	90.0	79.2	10.82	8.321	
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.6	-90.0	90.0	78.9	11.13	8.086	
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.6	-90.0	90.0	78.6	11.44	7.867 CC, ES	
2,100.0	2,100.0	2,096.9	2,096.8	5.8	5.8	-178.81	-0.5	-91.6	93.4	81.5	11.88	7.864 SF	
2,200.0	2,199.8	2,193.0	2,192.9	6.0	6.0	-178.61	0.0	-96.5	103.7	91.4	12.28	8.443	
2,300.0	2,299.5	2,287.9	2,287.4	6.2	6.2	-178.34	0.7	-104.4	120.7	108.0	12.66	9.530	
2,400.0	2,398.7	2,380.8	2,379.6	6.4	6.4	-178.07	1.7	-115.2	144.3	131.3	13.03	11.077	
2,500.0	2,497.5	2,472.1	2,470.0	6.6	6.5	-177.82	2.9	-128.6	174.3	161.0	13.29	13.115	
2,598.2	2,593.9	2,564.3	2,561.0	6.8	6.6	-177.65	4.2	-143.1	208.0	194.4	13.58	15.312	
2,600.0	2,595.6	2,566.0	2,562.7	6.8	6.6	-177.65	4.2	-143.4	208.6	195.0	13.59	15.352	
2,700.0	2,693.5	2,659.3	2,654.8	7.3	6.7	-177.56	5.6	-158.1	244.5	230.3	14.20	17.218	
2,800.0	2,791.3	2,752.7	2,747.0	7.5	6.8	-177.49	6.9	-172.8	280.4	266.0	14.46	19.399	
2,900.0	2,889.1	2,846.0	2,839.2	7.6	7.0	-177.44	8.2	-187.6	316.3	301.6	14.72	21.494	
3,000.0	2,986.9	2,939.3	2,931.3	7.7	7.1	-177.40	9.6	-202.3	352.2	337.2	14.98	23.508	
3,100.0	3,084.8	3,032.7	3,023.5	7.9	7.3	-177.37	10.9	-217.0	388.1	372.9	15.26	25.441	
3,200.0	3,182.6	3,126.0	3,115.6	8.0	7.4	-177.34	12.3	-231.7	424.0	408.5	15.53	27.297	
3,300.0	3,280.4	3,219.3	3,207.8	8.2	7.5	-177.32	13.6	-246.4	459.9	444.1	15.82	29.075	
3,400.0	3,378.2	3,313.4	3,300.6	8.3	7.7	-177.30	14.9	-261.3	495.8	479.7	16.12	30.766	
3,500.0	3,476.1	3,416.3	3,402.4	8.5	7.8	-177.29	16.3	-276.4	530.7	514.3	16.45	32.268	
3,600.0	3,573.9	3,520.5	3,505.7	8.6	8.0	-177.30	17.5	-290.0	564.0	547.2	16.79	33.592	
3,700.0	3,671.7	3,626.1	3,610.6	8.8	8.2	-177.32	18.6	-301.7	595.5	578.4	17.13	34.760	
3,800.0	3,769.6	3,732.9	3,717.0	9.0	8.3	-177.35	19.5	-311.7	625.2	607.8	17.48	35.779	
3,900.0	3,867.4	3,840.9	3,824.7	9.1	8.5	-177.39	20.3	-319.7	653.2	635.4	17.82	36.661	
4,000.0	3,965.2	3,950.1	3,933.7	9.3	8.7	-177.44	20.8	-325.8	679.4	661.2	18.16	37.415	
4,100.0	4,063.0	4,060.4	4,043.9	9.5	8.8	-177.50	21.2	-329.9	703.6	685.2	18.49	38.051	
4,200.0	4,160.9	4,171.7	4,155.2	9.6	9.0	-177.57	21.4	-331.8	726.1	707.2	18.82	38.586	
4,300.0	4,258.7	4,275.2	4,258.7	9.8	9.1	-177.64	21.4	-332.0	746.9	727.8	19.09	39.123	
4,400.0	4,356.5	4,373.0	4,356.5	10.0	9.2	-177.70	21.4	-332.0	767.6	748.3	19.36	39.652	
4,500.0	4,454.4	4,470.8	4,454.4	10.2	9.3	-177.76	21.4	-332.0	788.4	768.7	19.63	40.163	
4,600.0	4,552.2	4,568.7	4,552.2	10.3	9.4	-177.82	21.4	-332.0	809.1	789.2	19.90	40.657	
4,700.0	4,650.0	4,666.5	4,650.0	10.5	9.5	-177.88	21.4	-332.0	829.8	809.6	20.17	41.134	
4,800.0	4,747.8	4,764.3	4,747.8	10.7	9.5	-177.93	21.4	-332.0	850.5	830.1	20.45	41.596	
4,900.0	4,845.7	4,862.1	4,845.7	10.9	9.6	-177.98	21.4	-332.0	871.2	850.5	20.72	42.042	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,943.5	4,960.0	4,943.5	11.1	9.7	-178.02	21.4	-332.0	891.9	870.9	21.00	42.473	
5,100.0	5,041.3	5,057.8	5,041.3	11.2	9.8	-178.07	21.4	-332.0	912.7	891.4	21.28	42.891	
5,200.0	5,139.1	5,155.6	5,139.1	11.4	9.9	-178.11	21.4	-332.0	933.4	911.8	21.56	43.295	
5,300.0	5,237.0	5,253.5	5,237.0	11.6	10.0	-178.15	21.4	-332.0	954.1	932.3	21.84	43.686	
5,400.0	5,334.8	5,351.3	5,334.8	11.8	10.1	-178.19	21.4	-332.0	974.8	952.7	22.12	44.065	
5,500.0	5,432.6	5,449.1	5,432.6	12.0	10.2	-178.23	21.4	-332.0	995.5	973.1	22.41	44.432	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
5,000.0	4,943.5	5,282.5	5,189.4	11.1	11.6	-1.11	55.9	1,491.0	963.9	941.6	22.37	43.090	
5,100.0	5,041.3	5,371.8	5,275.7	11.2	11.7	-1.29	57.2	1,468.2	918.9	896.2	22.73	40.434	
5,200.0	5,139.1	5,461.0	5,362.0	11.4	11.9	-1.50	58.5	1,445.4	874.0	850.9	23.09	37.857	
5,300.0	5,237.0	5,550.3	5,448.2	11.6	12.1	-1.73	59.7	1,422.5	829.0	805.5	23.45	35.356	
5,400.0	5,334.8	5,639.6	5,534.5	11.8	12.3	-1.98	61.0	1,399.7	784.0	760.2	23.81	32.929	
5,500.0	5,432.6	5,728.8	5,620.8	12.0	12.5	-2.26	62.3	1,376.8	739.1	714.9	24.17	30.574	
5,600.0	5,530.5	5,818.1	5,707.1	12.2	12.7	-2.58	63.6	1,354.0	694.1	669.6	24.54	28.286	
5,700.0	5,628.3	5,907.4	5,793.4	12.4	12.9	-2.95	64.9	1,331.1	649.2	624.3	24.91	26.065	
5,800.0	5,726.1	5,996.6	5,879.7	12.6	13.1	-3.37	66.2	1,308.3	604.3	579.1	25.28	23.909	
5,900.0	5,823.9	6,085.9	5,965.9	12.8	13.2	-3.85	67.4	1,285.5	559.5	533.8	25.65	21.814	
6,000.0	5,921.8	6,175.2	6,052.2	13.0	13.4	-4.42	68.7	1,262.6	514.7	488.6	26.02	19.780	
6,100.0	6,019.6	6,264.4	6,138.5	13.2	13.6	-5.10	70.0	1,239.8	469.9	443.5	26.39	17.804	
6,200.0	6,117.4	6,353.7	6,224.8	13.4	13.8	-5.92	71.3	1,216.9	425.2	398.4	26.77	15.885	
6,300.0	6,215.3	6,443.0	6,311.1	13.6	14.0	-6.94	72.6	1,194.1	380.6	353.4	27.14	14.023	
6,400.0	6,313.1	6,532.2	6,397.4	13.8	14.2	-8.22	73.9	1,171.3	336.1	308.6	27.51	12.215	
6,500.0	6,410.9	6,621.5	6,483.6	13.9	14.4	-9.88	75.2	1,148.4	291.7	263.9	27.88	10.463	
6,600.0	6,508.7	6,710.8	6,569.9	14.1	14.6	-12.14	76.4	1,125.6	247.7	219.4	28.25	8.768	
6,700.0	6,606.6	6,800.0	6,656.2	14.3	14.8	-15.35	77.7	1,102.7	204.1	175.5	28.60	7.135	
6,800.0	6,704.4	6,889.3	6,742.5	14.5	15.0	-20.23	79.0	1,079.9	161.3	132.4	28.94	5.574	
6,900.0	6,802.2	6,978.6	6,828.8	14.8	15.2	-28.40	80.3	1,057.0	120.2	91.0	29.21	4.114	
7,000.0	6,900.0	7,067.8	6,915.1	15.0	15.4	-43.71	81.6	1,034.2	83.3	53.9	29.34	2.839	Normal Operations
7,100.0	6,997.9	7,157.1	7,001.3	15.2	15.6	-73.50	82.9	1,011.4	59.1	29.8	29.25	2.019	Caution - Monitor Closely
7,134.9	7,032.1	7,188.3	7,031.5	15.2	15.7	-87.37	83.3	1,003.4	56.9	27.6	29.33	1.941	Caution - Monitor Closely, CC, ES, SF
7,200.0	7,095.7	7,246.4	7,087.6	15.4	15.8	-112.05	84.1	988.5	64.1	34.2	29.85	2.147	Caution - Monitor Closely
7,300.0	7,193.5	7,335.6	7,173.9	15.6	16.0	-136.72	85.4	965.7	93.7	63.0	30.70	3.053	
7,400.0	7,291.4	7,424.9	7,260.2	15.8	16.2	-149.22	86.7	942.8	132.4	101.1	31.28	4.233	
7,500.0	7,389.2	7,514.1	7,346.5	16.0	16.4	-156.13	88.0	920.0	174.2	142.4	31.75	5.486	
7,600.0	7,487.0	7,603.4	7,432.8	16.2	16.6	-160.39	89.3	897.1	217.3	185.1	32.18	6.751	
7,700.0	7,584.8	7,692.7	7,519.0	16.4	16.8	-163.26	90.6	874.3	261.0	228.4	32.60	8.007	
7,800.0	7,682.7	7,781.9	7,605.3	16.6	17.0	-165.30	91.9	851.5	305.2	272.2	33.01	9.245	
7,900.0	7,780.5	7,871.2	7,691.6	16.8	17.2	-166.83	93.1	828.6	349.6	316.2	33.42	10.461	
7,932.5	7,812.3	7,900.2	7,719.7	16.9	17.3	-167.25	93.6	821.2	364.0	330.5	33.54	10.853	
8,000.0	7,878.4	7,960.7	7,778.1	17.0	17.4	-168.08	94.4	805.7	393.8	360.0	33.80	11.648	
8,100.0	7,976.6	8,050.8	7,865.2	17.2	17.6	-169.07	95.7	782.7	436.6	402.4	34.21	12.763	
8,200.0	8,075.2	8,141.7	7,953.1	17.4	17.8	-169.84	97.0	759.4	478.0	443.3	34.61	13.811	
8,300.0	8,174.0	8,234.4	8,042.7	17.6	18.0	-170.47	98.4	735.7	517.8	482.8	35.01	14.791	
8,400.0	8,273.1	8,336.7	8,141.8	17.8	18.2	-171.01	99.8	710.6	555.0	519.6	35.46	15.652	
8,500.0	8,372.4	8,441.1	8,243.4	17.9	18.5	-171.43	101.1	686.8	589.0	553.1	35.91	16.401	
8,600.0	8,471.9	8,547.4	8,347.4	18.1	18.7	-171.78	102.4	664.5	619.7	583.3	36.36	17.044	
8,700.0	8,571.5	8,655.5	8,453.5	18.3	18.9	-172.05	103.5	643.8	646.9	610.1	36.79	17.584	
8,800.0	8,671.3	8,765.3	8,561.6	18.5	19.1	-172.26	104.6	624.8	670.6	633.4	37.20	18.025	
8,900.0	8,771.2	8,876.4	8,671.4	18.6	19.3	-172.42	105.6	607.7	690.8	653.2	37.60	18.370	
9,000.0	8,871.1	8,988.7	8,782.7	18.8	19.6	-172.54	106.4	592.6	707.3	669.3	37.98	18.622	
9,100.0	8,971.1	9,102.0	8,895.2	18.9	19.8	-172.63	107.2	579.5	720.2	681.8	38.33	18.789	
9,128.9	9,000.0	9,134.8	8,927.9	18.9	19.8	-84.15	107.3	576.1	723.2	684.8	38.41	18.830	
9,200.0	9,071.1	9,215.9	9,008.6	18.9	20.0	-84.18	107.8	568.6	729.8	691.2	38.58	18.915	
9,300.0	9,171.1	9,330.2	9,122.6	19.0	20.1	-84.21	108.3	560.0	737.4	698.5	38.83	18.990	
9,400.0	9,271.1	9,444.9	9,237.1	19.0	20.3	-84.23	108.6	553.6	743.0	703.9	39.06	19.020	
9,500.0	9,371.1	9,559.7	9,351.8	19.1	20.5	-84.24	108.8	549.5	746.5	707.3	39.27	19.009	
9,600.0	9,471.1	9,674.7	9,466.8	19.1	20.6	-84.25	108.9	547.6	748.1	708.7	39.44	18.970	
9,700.0	9,571.1	9,779.0	9,571.1	19.2	20.7	-84.25	109.0	547.6	748.2	708.7	39.54	18.923	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,800.0	9,671.1	9,879.0	9,671.1	19.2	20.7	-84.25	109.0	547.6	748.2	708.6	39.63	18.881	
9,900.0	9,771.1	9,979.0	9,771.1	19.3	20.7	-84.25	109.0	547.6	748.2	708.5	39.72	18.837	
10,000.0	9,871.1	10,079.0	9,871.1	19.3	20.8	-84.25	109.0	547.6	748.2	708.4	39.81	18.794	
10,100.0	9,971.1	10,179.0	9,971.1	19.4	20.8	-84.25	109.0	547.6	748.2	708.3	39.90	18.751	
10,200.0	10,071.1	10,279.0	10,071.1	19.4	20.9	-84.25	109.0	547.6	748.2	708.2	40.00	18.708	
10,300.0	10,171.1	10,379.0	10,171.1	19.5	20.9	-84.25	109.0	547.6	748.2	708.1	40.09	18.664	
10,400.0	10,271.1	10,479.0	10,271.1	19.5	21.0	-84.25	109.0	547.6	748.2	708.0	40.18	18.621	
10,500.0	10,371.1	10,579.0	10,371.1	19.5	21.0	-84.25	109.0	547.6	748.2	707.9	40.27	18.578	
10,600.0	10,471.1	10,679.0	10,471.1	19.6	21.1	-84.25	109.0	547.6	748.2	707.8	40.37	18.534	
10,700.0	10,571.1	10,779.0	10,571.1	19.6	21.1	-84.25	109.0	547.6	748.2	707.7	40.46	18.491	
10,800.0	10,671.1	10,879.0	10,671.1	19.7	21.2	-84.25	109.0	547.6	748.2	707.7	40.56	18.448	
10,900.0	10,771.1	10,979.0	10,771.1	19.8	21.2	-84.25	109.0	547.6	748.2	707.6	40.65	18.404	
11,000.0	10,871.1	11,079.0	10,871.1	19.8	21.3	-84.25	109.0	547.6	748.2	707.5	40.75	18.361	
11,100.0	10,971.1	11,179.0	10,971.1	19.9	21.3	-84.25	109.0	547.6	748.2	707.4	40.85	18.318	
11,200.0	11,071.1	11,279.0	11,071.1	19.9	21.4	-84.25	109.0	547.6	748.2	707.3	40.94	18.275	
11,300.0	11,171.1	11,379.0	11,171.1	20.0	21.4	-84.25	109.0	547.6	748.2	707.2	41.04	18.232	
11,400.0	11,271.1	11,479.0	11,271.1	20.0	21.4	-84.25	109.0	547.6	748.2	707.1	41.14	18.188	
11,500.0	11,371.1	11,579.0	11,371.1	20.1	21.5	-84.25	109.0	547.6	748.2	707.0	41.23	18.145	
11,600.0	11,471.1	11,679.0	11,471.1	20.1	21.5	-84.25	109.0	547.6	748.2	706.9	41.33	18.102	
11,700.0	11,571.1	11,779.0	11,571.1	20.2	21.6	-84.25	109.0	547.6	748.2	706.8	41.43	18.059	
11,800.0	11,671.1	11,879.0	11,671.1	20.2	21.6	-84.25	109.0	547.6	748.2	706.7	41.53	18.016	
11,900.0	11,771.1	11,979.0	11,771.1	20.3	21.7	-84.25	109.0	547.6	748.2	706.6	41.63	17.973	
12,000.0	11,871.1	12,079.0	11,871.1	20.3	21.7	-84.25	109.0	547.6	748.2	706.5	41.73	17.930	
12,100.0	11,971.1	12,179.0	11,971.1	20.4	21.8	-84.25	109.0	547.6	748.2	706.4	41.83	17.887	
12,200.0	12,071.1	12,279.0	12,071.1	20.4	21.8	-84.25	109.0	547.6	748.2	706.3	41.93	17.844	
12,201.4	12,072.5	12,280.4	12,072.5	20.4	21.8	-84.25	109.0	547.6	748.2	706.3	41.93	17.843	
12,225.0	12,096.1	12,304.0	12,096.1	20.4	21.9	96.35	109.0	547.6	748.3	706.3	41.95	17.839	
12,250.0	12,121.0	12,328.9	12,121.0	20.4	21.9	96.46	109.0	547.6	748.5	706.5	41.96	17.839	
12,275.0	12,145.8	12,353.7	12,145.8	20.4	21.9	96.66	109.0	547.6	748.9	706.9	41.97	17.843	
12,300.0	12,170.4	12,378.3	12,170.4	20.4	21.9	96.93	109.0	547.6	749.4	707.4	41.98	17.852	
12,325.0	12,194.7	12,402.7	12,194.7	20.4	21.9	97.27	109.0	547.6	750.1	708.1	41.99	17.866	
12,350.0	12,218.7	12,426.6	12,218.7	20.4	21.9	97.67	109.0	547.6	751.1	709.1	41.99	17.886	
12,375.0	12,242.3	12,450.2	12,242.3	20.4	21.9	98.11	109.0	547.6	752.3	710.3	42.00	17.913	
12,400.0	12,265.4	12,473.4	12,265.4	20.4	21.9	98.60	109.0	547.6	753.8	711.8	42.00	17.947	
12,425.0	12,288.0	12,502.0	12,294.1	20.4	21.9	99.28	108.5	547.6	755.5	713.5	41.99	17.991	
12,450.0	12,310.0	12,534.2	12,326.2	20.4	21.9	100.04	105.9	547.6	757.4	715.4	41.98	18.041	
12,475.0	12,331.4	12,567.6	12,359.2	20.4	21.9	100.78	101.0	547.6	759.3	717.3	41.97	18.090	
12,500.0	12,352.0	12,602.3	12,393.1	20.4	21.9	101.51	93.5	547.7	761.2	719.2	41.97	18.135	
12,525.0	12,371.9	12,638.3	12,427.5	20.4	21.9	102.21	83.1	547.8	763.1	721.1	41.99	18.174	
12,550.0	12,391.0	12,675.6	12,462.3	20.4	21.9	102.89	69.6	547.9	765.0	723.0	42.02	18.205	
12,575.0	12,409.1	12,714.3	12,497.2	20.4	21.9	103.54	52.8	548.1	766.8	724.7	42.07	18.225	
12,600.0	12,426.4	12,754.3	12,531.6	20.4	21.9	104.13	32.5	548.3	768.5	726.4	42.15	18.232	
12,625.0	12,442.7	12,795.6	12,565.3	20.4	21.9	104.67	8.6	548.5	770.1	727.8	42.25	18.226	
12,650.0	12,458.0	12,838.1	12,597.7	20.4	21.9	105.15	-18.9	548.8	771.4	729.0	42.37	18.205	
12,675.0	12,472.2	12,881.7	12,628.2	20.4	21.9	105.55	-50.0	549.1	772.5	730.0	42.51	18.172	
12,700.0	12,485.3	12,926.1	12,656.2	20.5	21.9	105.86	-84.4	549.5	773.4	730.8	42.67	18.128	
12,725.0	12,497.3	12,971.2	12,681.3	20.5	22.0	106.08	-121.8	549.8	774.1	731.2	42.82	18.076	
12,750.0	12,508.1	13,016.7	12,702.9	20.5	22.0	106.20	-161.9	550.2	774.4	731.4	42.98	18.019	
12,775.0	12,517.8	13,062.4	12,720.7	20.5	22.1	106.21	-203.9	550.7	774.4	731.3	43.11	17.962	
12,800.0	12,526.2	13,108.0	12,734.4	20.6	22.2	106.11	-247.4	551.1	774.1	730.9	43.23	17.907	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Rule Assigned: Separation Factor	Warning
12,825.0	12,533.3	13,153.2	12,743.7	20.6	22.3	105.91	-291.6	551.5	773.6	730.2	43.32	17.856	
12,850.0	12,539.2	13,197.8	12,748.8	20.7	22.4	105.62	-335.9	552.0	772.7	729.3	43.38	17.812	
12,875.0	12,543.9	13,236.7	12,750.0	20.7	22.5	105.30	-374.8	552.4	771.6	728.2	43.41	17.775	
12,900.0	12,547.2	13,261.5	12,750.0	20.8	22.5	105.17	-399.6	552.6	770.7	727.3	43.43	17.745	
12,925.0	12,549.2	13,286.4	12,750.0	20.8	22.6	105.08	-424.5	552.9	770.2	726.7	43.47	17.717	
12,951.4	12,550.0	13,312.8	12,750.0	20.9	22.7	105.05	-450.8	553.1	770.0	726.5	43.53	17.687	
13,000.0	12,550.0	13,361.4	12,750.0	21.0	22.8	105.05	-499.5	553.6	770.0	726.3	43.68	17.629	
13,100.0	12,550.0	13,461.4	12,750.0	21.3	23.1	105.05	-599.5	554.6	770.0	726.0	44.02	17.491	
13,200.0	12,550.0	13,561.4	12,750.0	21.6	23.5	105.06	-699.4	555.6	770.0	725.5	44.43	17.331	
13,300.0	12,550.0	13,661.4	12,750.0	21.9	23.8	105.06	-799.4	556.6	770.0	725.1	44.89	17.153	
13,400.0	12,550.0	13,761.4	12,750.0	22.3	24.2	105.06	-899.4	557.6	769.9	724.5	45.41	16.956	
13,500.0	12,550.0	13,861.4	12,750.0	22.7	24.5	105.06	-999.4	558.6	769.9	723.9	45.98	16.745	
13,600.0	12,550.0	13,961.4	12,750.0	23.1	24.9	105.06	-1,099.4	559.6	769.9	723.3	46.60	16.520	
13,700.0	12,550.0	14,061.4	12,750.0	23.5	25.3	105.06	-1,199.4	560.6	769.9	722.6	47.28	16.284	
13,800.0	12,550.0	14,161.4	12,750.0	23.9	25.8	105.06	-1,299.4	561.6	769.9	721.9	48.00	16.039	
13,900.0	12,550.0	14,261.4	12,750.0	24.4	26.2	105.06	-1,399.4	562.6	769.9	721.1	48.77	15.785	
14,000.0	12,550.0	14,361.4	12,750.0	24.8	26.7	105.06	-1,499.4	563.6	769.8	720.3	49.58	15.527	
14,100.0	12,550.0	14,461.4	12,750.0	25.3	27.1	105.06	-1,599.4	564.5	769.8	719.4	50.44	15.263	
14,200.0	12,550.0	14,561.4	12,750.0	25.8	27.6	105.06	-1,699.4	565.5	769.8	718.5	51.33	14.997	
14,300.0	12,550.0	14,661.4	12,750.0	26.4	28.1	105.06	-1,799.4	566.5	769.8	717.5	52.26	14.730	
14,400.0	12,550.0	14,761.4	12,750.0	26.9	28.6	105.06	-1,899.4	567.5	769.8	716.5	53.23	14.462	
14,500.0	12,550.0	14,861.4	12,750.0	27.4	29.2	105.06	-1,999.4	568.5	769.8	715.5	54.22	14.196	
14,600.0	12,550.0	14,961.4	12,750.0	28.0	29.7	105.06	-2,099.4	569.5	769.7	714.5	55.26	13.930	
14,700.0	12,550.0	15,061.4	12,750.0	28.6	30.3	105.06	-2,199.4	570.5	769.7	713.4	56.32	13.668	
14,800.0	12,550.0	15,161.4	12,750.0	29.2	30.8	105.06	-2,299.4	571.5	769.7	712.3	57.41	13.408	
14,900.0	12,550.0	15,261.4	12,750.0	29.8	31.4	105.06	-2,399.4	572.5	769.7	711.2	58.52	13.152	
15,000.0	12,550.0	15,361.4	12,750.0	30.4	32.0	105.06	-2,499.4	573.5	769.7	710.0	59.66	12.900	
15,100.0	12,550.0	15,461.4	12,750.0	31.0	32.6	105.06	-2,599.4	574.5	769.7	708.8	60.83	12.653	
15,200.0	12,550.0	15,561.4	12,750.0	31.7	33.2	105.06	-2,699.3	575.5	769.6	707.6	62.02	12.410	
15,300.0	12,550.0	15,661.4	12,750.0	32.3	33.8	105.06	-2,799.3	576.5	769.6	706.4	63.22	12.173	
15,400.0	12,550.0	15,761.4	12,750.0	33.0	34.5	105.06	-2,899.3	577.5	769.6	705.2	64.45	11.941	
15,500.0	12,550.0	15,861.4	12,750.0	33.6	35.1	105.06	-2,999.3	578.5	769.6	703.9	65.70	11.714	
15,600.0	12,550.0	15,961.4	12,750.0	34.3	35.7	105.06	-3,099.3	579.5	769.6	702.6	66.96	11.492	
15,700.0	12,550.0	16,061.4	12,750.0	35.0	36.4	105.06	-3,199.3	580.5	769.6	701.3	68.25	11.276	
15,800.0	12,550.0	16,161.4	12,750.0	35.6	37.1	105.06	-3,299.3	581.5	769.5	700.0	69.54	11.066	
15,900.0	12,550.0	16,261.4	12,750.0	36.3	37.7	105.06	-3,399.3	582.5	769.5	698.7	70.85	10.861	
16,000.0	12,550.0	16,361.4	12,750.0	37.0	38.4	105.06	-3,499.3	583.4	769.5	697.3	72.18	10.661	
16,100.0	12,550.0	16,461.4	12,750.0	37.7	39.1	105.06	-3,599.3	584.4	769.5	696.0	73.52	10.466	
16,200.0	12,550.0	16,561.4	12,750.0	38.4	39.8	105.06	-3,699.3	585.4	769.5	694.6	74.87	10.277	
16,300.0	12,550.0	16,661.4	12,750.0	39.2	40.5	105.06	-3,799.3	586.4	769.5	693.2	76.24	10.093	
16,400.0	12,550.0	16,761.4	12,750.0	39.9	41.2	105.06	-3,899.3	587.4	769.4	691.8	77.61	9.914	
16,500.0	12,550.0	16,861.4	12,750.0	40.6	41.9	105.06	-3,999.3	588.4	769.4	690.4	79.00	9.740	
16,600.0	12,550.0	16,961.4	12,750.0	41.3	42.6	105.07	-4,099.3	589.4	769.4	689.0	80.39	9.570	
16,700.0	12,550.0	17,061.4	12,750.0	42.1	43.3	105.07	-4,199.3	590.4	769.4	687.6	81.80	9.406	
16,800.0	12,550.0	17,161.4	12,750.0	42.8	44.0	105.07	-4,299.3	591.4	769.4	686.2	83.22	9.246	
16,900.0	12,550.0	17,261.4	12,750.0	43.6	44.8	105.07	-4,399.3	592.4	769.4	684.7	84.64	9.090	
17,000.0	12,550.0	17,361.4	12,750.0	44.3	45.5	105.07	-4,499.3	593.4	769.3	683.3	86.07	8.938	
17,100.0	12,550.0	17,461.4	12,750.0	45.1	46.2	105.07	-4,599.3	594.4	769.3	681.8	87.51	8.791	
17,200.0	12,550.0	17,561.4	12,750.0	45.8	47.0	105.07	-4,699.2	595.4	769.3	680.3	88.96	8.648	
17,300.0	12,550.0	17,661.4	12,750.0	46.6	47.7	105.07	-4,799.2	596.4	769.3	678.9	90.41	8.509	
17,400.0	12,550.0	17,761.4	12,750.0	47.3	48.5	105.07	-4,899.2	597.4	769.3	677.4	91.87	8.373	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,500.0	12,550.0	17,861.4	12,750.0	48.1	49.2	105.07	-4,999.2	598.4	769.3	675.9	93.34	8.241	
17,600.0	12,550.0	17,961.4	12,750.0	48.9	50.0	105.07	-5,099.2	599.4	769.2	674.4	94.82	8.113	
17,700.0	12,550.0	18,061.4	12,750.0	49.6	50.7	105.07	-5,199.2	600.4	769.2	672.9	96.30	7.988	
17,800.0	12,550.0	18,161.4	12,750.0	50.4	51.5	105.07	-5,299.2	601.4	769.2	671.4	97.78	7.867	
17,900.0	12,550.0	18,261.4	12,750.0	51.2	52.2	105.07	-5,399.2	602.4	769.2	669.9	99.27	7.748	
18,000.0	12,550.0	18,361.4	12,750.0	52.0	53.0	105.07	-5,499.2	603.3	769.2	668.4	100.77	7.633	
18,100.0	12,550.0	18,461.4	12,750.0	52.8	53.8	105.07	-5,599.2	604.3	769.2	666.9	102.27	7.521	
18,200.0	12,550.0	18,561.4	12,750.0	53.5	54.6	105.07	-5,699.2	605.3	769.1	665.4	103.77	7.412	
18,300.0	12,550.0	18,661.4	12,750.0	54.3	55.3	105.07	-5,799.2	606.3	769.1	663.8	105.28	7.305	
18,400.0	12,550.0	18,761.4	12,750.0	55.1	56.1	105.07	-5,899.2	607.3	769.1	662.3	106.80	7.202	
18,500.0	12,550.0	18,861.4	12,750.0	55.9	56.9	105.07	-5,999.2	608.3	769.1	660.8	108.31	7.101	
18,600.0	12,550.0	18,961.4	12,750.0	56.7	57.7	105.07	-6,099.2	609.3	769.1	659.2	109.84	7.002	
18,700.0	12,550.0	19,061.4	12,750.0	57.5	58.4	105.07	-6,199.2	610.3	769.1	657.7	111.36	6.906	
18,800.0	12,550.0	19,161.4	12,750.0	58.3	59.2	105.07	-6,299.2	611.3	769.0	656.2	112.89	6.812	
18,900.0	12,550.0	19,261.4	12,750.0	59.1	60.0	105.07	-6,399.2	612.3	769.0	654.6	114.42	6.721	
19,000.0	12,550.0	19,361.4	12,750.0	59.9	60.8	105.07	-6,499.2	613.3	769.0	653.1	115.96	6.632	
19,100.0	12,550.0	19,461.4	12,750.0	60.7	61.6	105.07	-6,599.2	614.3	769.0	651.5	117.50	6.545	
19,200.0	12,550.0	19,561.4	12,750.0	61.5	62.4	105.07	-6,699.2	615.3	769.0	649.9	119.04	6.460	
19,300.0	12,550.0	19,661.4	12,750.0	62.3	63.2	105.07	-6,799.1	616.3	769.0	648.4	120.59	6.377	
19,400.0	12,550.0	19,761.4	12,750.0	63.1	64.0	105.07	-6,899.1	617.3	768.9	646.8	122.13	6.296	
19,500.0	12,550.0	19,861.4	12,750.0	63.9	64.8	105.07	-6,999.1	618.3	768.9	645.2	123.68	6.217	
19,600.0	12,550.0	19,961.4	12,750.0	64.7	65.6	105.07	-7,099.1	619.3	768.9	643.7	125.24	6.140	
19,700.0	12,550.0	20,061.4	12,750.0	65.5	66.4	105.07	-7,199.1	620.3	768.9	642.1	126.79	6.064	
19,800.0	12,550.0	20,161.4	12,750.0	66.3	67.2	105.07	-7,299.1	621.3	768.9	640.5	128.35	5.990	
19,900.0	12,550.0	20,261.4	12,750.0	67.2	68.0	105.08	-7,399.1	622.2	768.9	638.9	129.91	5.918	
20,000.0	12,550.0	20,361.4	12,750.0	68.0	68.8	105.08	-7,499.1	623.2	768.8	637.4	131.48	5.848	
20,100.0	12,550.0	20,461.4	12,750.0	68.8	69.6	105.08	-7,599.1	624.2	768.8	635.8	133.04	5.779	
20,200.0	12,550.0	20,561.4	12,750.0	69.6	70.4	105.08	-7,699.1	625.2	768.8	634.2	134.61	5.711	
20,300.0	12,550.0	20,661.4	12,750.0	70.4	71.2	105.08	-7,799.1	626.2	768.8	632.6	136.18	5.646	
20,400.0	12,550.0	20,761.4	12,750.0	71.2	72.0	105.08	-7,899.1	627.2	768.8	631.0	137.75	5.581	
20,500.0	12,550.0	20,861.4	12,750.0	72.0	72.8	105.08	-7,999.1	628.2	768.8	629.4	139.32	5.518	
20,600.0	12,550.0	20,961.4	12,750.0	72.9	73.6	105.08	-8,099.1	629.2	768.7	627.8	140.90	5.456	
20,638.5	12,550.0	20,999.9	12,750.0	73.2	74.0	105.08	-8,137.6	629.6	768.7	627.2	141.50	5.433	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: No-Go Distance (usft)	Separation Factor	Warning
5,400.0	5,334.8	5,593.6	5,530.2	11.8	11.8	0.80	29.8	1,612.3	989.0	965.5	23.51	42.072	
5,500.0	5,432.6	5,685.4	5,620.2	12.0	12.0	0.77	30.2	1,594.1	949.4	925.5	23.87	39.779	
5,600.0	5,530.5	5,777.2	5,710.2	12.2	12.2	0.74	30.7	1,576.0	909.8	885.5	24.23	37.551	
5,700.0	5,628.3	5,869.0	5,800.2	12.4	12.4	0.71	31.1	1,557.9	870.1	845.5	24.59	35.386	
5,800.0	5,726.1	5,957.9	5,887.3	12.6	12.5	0.68	31.5	1,540.3	830.5	805.6	24.94	33.306	
5,900.0	5,823.9	6,038.7	5,966.6	12.8	12.7	0.64	31.9	1,525.2	791.8	766.5	25.30	31.297	
6,000.0	5,921.8	6,120.4	6,047.1	13.0	12.8	0.61	32.2	1,511.0	754.5	728.8	25.68	29.383	
6,100.0	6,019.6	6,200.0	6,125.7	13.2	13.0	0.59	32.5	1,498.3	718.5	692.4	26.06	27.574	
6,200.0	6,117.4	6,286.7	6,211.5	13.4	13.2	0.56	32.8	1,485.8	683.8	657.4	26.43	25.876	
6,300.0	6,215.3	6,371.1	6,295.2	13.6	13.3	0.53	33.1	1,474.8	650.5	623.7	26.80	24.275	
6,400.0	6,313.1	6,456.5	6,380.0	13.8	13.5	0.51	33.3	1,464.9	618.6	591.4	27.16	22.772	
6,500.0	6,410.9	6,542.6	6,465.7	13.9	13.6	0.49	33.5	1,456.2	588.1	560.6	27.53	21.364	
6,600.0	6,508.7	6,629.6	6,552.4	14.1	13.8	0.47	33.7	1,448.8	559.1	531.2	27.89	20.047	
6,700.0	6,606.6	6,717.4	6,639.9	14.3	13.9	0.46	33.9	1,442.6	531.5	503.3	28.25	18.818	
6,800.0	6,704.4	6,805.9	6,728.3	14.5	14.1	0.45	34.0	1,437.7	505.5	476.9	28.60	17.675	
6,900.0	6,802.2	6,895.2	6,817.5	14.8	14.2	0.45	34.1	1,434.2	480.9	451.9	28.94	16.616	
7,000.0	6,900.0	6,985.1	6,907.4	15.0	14.3	0.46	34.1	1,432.0	457.8	428.5	29.27	15.640	
7,100.0	6,997.9	7,077.7	7,000.0	15.2	14.4	0.47	34.1	1,431.3	436.3	406.7	29.56	14.759	
7,200.0	7,095.7	7,173.4	7,095.7	15.4	14.4	0.50	34.1	1,431.3	415.5	385.7	29.82	13.936	
7,300.0	7,193.5	7,271.2	7,193.5	15.6	14.5	0.52	34.1	1,431.3	394.8	364.7	30.08	13.124	
7,400.0	7,291.4	7,369.1	7,291.4	15.8	14.6	0.55	34.1	1,431.3	374.1	343.7	30.35	12.327	
7,500.0	7,389.2	7,466.9	7,389.2	16.0	14.6	0.58	34.1	1,431.3	353.4	322.7	30.61	11.542	
7,600.0	7,487.0	7,564.7	7,487.0	16.2	14.7	0.62	34.1	1,431.3	332.6	301.7	30.88	10.771	
7,700.0	7,584.8	7,662.6	7,584.8	16.4	14.8	0.66	34.1	1,431.3	311.9	280.7	31.15	10.013	
7,800.0	7,682.7	7,760.4	7,682.7	16.6	14.8	0.71	34.1	1,431.3	291.2	259.7	31.42	9.268	
7,900.0	7,780.5	7,858.2	7,780.5	16.8	14.9	0.76	34.1	1,431.3	270.4	238.8	31.69	8.534	
7,932.5	7,812.3	7,890.0	7,812.3	16.9	14.9	0.78	34.1	1,431.3	263.7	231.9	31.77	8.301	
8,000.0	7,878.4	7,956.1	7,878.4	17.0	14.9	0.82	34.1	1,431.3	250.1	218.2	31.94	7.831	
8,100.0	7,976.6	8,054.3	7,976.6	17.2	15.0	0.89	34.1	1,431.3	231.4	199.2	32.20	7.185	
8,200.0	8,075.2	8,152.9	8,075.2	17.4	15.1	0.95	34.1	1,431.3	214.4	181.9	32.47	6.603	
8,300.0	8,174.0	8,251.7	8,174.0	17.6	15.1	1.02	34.1	1,431.3	199.1	166.4	32.73	6.083	
8,400.0	8,273.1	8,350.8	8,273.1	17.8	15.2	1.10	34.1	1,431.3	185.6	152.6	32.99	5.625	
8,500.0	8,372.4	8,450.1	8,372.4	17.9	15.2	1.17	34.1	1,431.3	173.7	140.5	33.24	5.227	
8,600.0	8,471.9	8,549.6	8,471.9	18.1	15.3	1.24	34.1	1,431.3	163.7	130.2	33.48	4.888	
8,700.0	8,571.5	8,649.2	8,571.5	18.3	15.4	1.30	34.1	1,431.3	155.3	121.6	33.72	4.605	
8,800.0	8,671.3	8,749.0	8,671.3	18.5	15.4	1.36	34.1	1,431.3	148.7	114.7	33.96	4.379	
8,900.0	8,771.2	8,848.9	8,771.2	18.6	15.5	1.40	34.1	1,431.3	143.8	109.7	34.18	4.208	
9,000.0	8,871.1	8,948.8	8,871.1	18.8	15.6	1.43	34.1	1,431.3	140.7	106.3	34.39	4.092	
9,100.0	8,971.1	9,048.8	8,971.1	18.9	15.6	1.45	34.1	1,431.3	139.3	104.8	34.58	4.029	
9,128.9	9,000.0	9,077.7	9,000.0	18.9	15.6	89.94	34.1	1,431.3	139.3	104.7	34.61	4.024	
9,200.0	9,071.1	9,148.8	9,071.1	18.9	15.7	89.94	34.1	1,431.3	139.3	104.6	34.68	4.016	
9,300.0	9,171.1	9,248.8	9,171.1	19.0	15.8	89.94	34.1	1,431.3	139.3	104.5	34.79	4.003	
9,400.0	9,271.1	9,348.8	9,271.1	19.0	15.8	89.94	34.1	1,431.3	139.3	104.4	34.90	3.991	
9,500.0	9,371.1	9,448.8	9,371.1	19.1	15.9	89.94	34.1	1,431.3	139.3	104.3	35.00	3.979	
9,600.0	9,471.1	9,548.8	9,471.1	19.1	16.0	89.94	34.1	1,431.3	139.3	104.2	35.11	3.966	
9,700.0	9,571.1	9,648.8	9,571.1	19.2	16.0	89.94	34.1	1,431.3	139.3	104.0	35.22	3.954	
9,800.0	9,671.1	9,748.8	9,671.1	19.2	16.1	89.94	34.1	1,431.3	139.3	103.9	35.33	3.942	
9,900.0	9,771.1	9,848.8	9,771.1	19.3	16.1	89.94	34.1	1,431.3	139.3	103.8	35.44	3.929	
10,000.0	9,871.1	9,948.8	9,871.1	19.3	16.2	89.94	34.1	1,431.3	139.3	103.7	35.55	3.917	
10,100.0	9,971.1	10,048.8	9,971.1	19.4	16.3	89.94	34.1	1,431.3	139.3	103.6	35.67	3.905	
10,200.0	10,071.1	10,148.8	10,071.1	19.4	16.3	89.94	34.1	1,431.3	139.3	103.5	35.78	3.893	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
10,300.0	10,171.1	10,248.8	10,171.1	19.5	16.4	89.94	34.1	1,431.3	139.3	103.4	35.89	3.881	
10,400.0	10,271.1	10,348.8	10,271.1	19.5	16.5	89.94	34.1	1,431.3	139.3	103.3	36.00	3.869	
10,500.0	10,371.1	10,448.8	10,371.1	19.5	16.5	89.94	34.1	1,431.3	139.3	103.2	36.11	3.856	
10,600.0	10,471.1	10,548.8	10,471.1	19.6	16.6	89.94	34.1	1,431.3	139.3	103.0	36.23	3.844	
10,700.0	10,571.1	10,648.8	10,571.1	19.6	16.7	89.94	34.1	1,431.3	139.3	102.9	36.34	3.832	
10,800.0	10,671.1	10,748.8	10,671.1	19.7	16.7	89.94	34.1	1,431.3	139.3	102.8	36.45	3.820	
10,900.0	10,771.1	10,848.8	10,771.1	19.8	16.8	89.94	34.1	1,431.3	139.3	102.7	36.57	3.809	
11,000.0	10,871.1	10,948.8	10,871.1	19.8	16.9	89.94	34.1	1,431.3	139.3	102.6	36.68	3.797	
11,100.0	10,971.1	11,048.8	10,971.1	19.9	16.9	89.94	34.1	1,431.3	139.3	102.5	36.80	3.785	
11,200.0	11,071.1	11,148.8	11,071.1	19.9	17.0	89.94	34.1	1,431.3	139.3	102.4	36.91	3.773	
11,300.0	11,171.1	11,248.8	11,171.1	20.0	17.1	89.94	34.1	1,431.3	139.3	102.2	37.03	3.761	
11,400.0	11,271.1	11,348.8	11,271.1	20.0	17.1	89.94	34.1	1,431.3	139.3	102.1	37.14	3.750	
11,500.0	11,371.1	11,448.8	11,371.1	20.1	17.2	89.94	34.1	1,431.3	139.3	102.0	37.26	3.738	
11,600.0	11,471.1	11,548.8	11,471.1	20.1	17.3	89.94	34.1	1,431.3	139.3	101.9	37.38	3.726	
11,700.0	11,571.1	11,648.8	11,571.1	20.2	17.3	89.94	34.1	1,431.3	139.3	101.8	37.49	3.715	
11,800.0	11,671.1	11,748.8	11,671.1	20.2	17.4	89.94	34.1	1,431.3	139.3	101.7	37.61	3.703	
11,900.0	11,771.1	11,848.8	11,771.1	20.3	17.5	89.94	34.1	1,431.3	139.3	101.5	37.73	3.691	
12,000.0	11,871.1	11,948.8	11,871.1	20.3	17.6	89.94	34.1	1,431.3	139.3	101.4	37.84	3.680	
12,100.0	11,971.1	12,048.8	11,971.1	20.4	17.6	89.94	34.1	1,431.3	139.3	101.3	37.96	3.669	
12,200.0	12,071.1	12,148.8	12,071.1	20.4	17.7	89.94	34.1	1,431.3	139.3	101.2	38.08	3.657	
12,201.4	12,072.5	12,150.2	12,072.5	20.4	17.7	89.94	34.1	1,431.3	139.3	101.2	38.08	3.657	
12,225.0	12,096.1	12,173.8	12,096.1	20.4	17.7	-89.74	34.1	1,431.3	139.3	101.2	38.10	3.655	
12,235.5	12,106.6	12,184.3	12,106.6	20.4	17.7	-90.00	34.1	1,431.3	139.3	101.2	38.11	3.654 CC	
12,250.0	12,121.0	12,198.7	12,121.0	20.4	17.7	-90.51	34.1	1,431.3	139.3	101.2	38.12	3.653 ES	
12,275.0	12,145.8	12,223.5	12,145.8	20.4	17.7	-91.81	34.1	1,431.3	139.3	101.2	38.14	3.653	
12,300.0	12,170.4	12,248.1	12,170.4	20.4	17.8	-93.59	34.1	1,431.3	139.6	101.4	38.15	3.658	
12,325.0	12,194.7	12,272.5	12,194.7	20.4	17.8	-95.82	34.1	1,431.3	140.0	101.9	38.16	3.670	
12,350.0	12,218.7	12,296.4	12,218.7	20.4	17.8	-98.45	34.1	1,431.3	140.9	102.8	38.15	3.694	
12,375.0	12,242.3	12,320.0	12,242.3	20.4	17.8	-101.38	34.1	1,431.3	142.5	104.3	38.13	3.737	
12,400.0	12,265.4	12,343.1	12,265.4	20.4	17.8	-104.55	34.1	1,431.3	144.8	106.7	38.08	3.802	
12,425.0	12,288.0	12,367.6	12,289.8	20.4	17.8	-108.03	33.8	1,431.3	147.9	109.9	38.00	3.893	
12,450.0	12,310.0	12,393.2	12,315.5	20.4	17.8	-111.50	32.2	1,431.3	151.8	113.9	37.92	4.003	
12,475.0	12,331.4	12,419.6	12,341.6	20.4	17.8	-114.82	29.1	1,431.3	156.2	118.3	37.87	4.125	
12,500.0	12,352.0	12,446.7	12,368.3	20.4	17.8	-117.96	24.4	1,431.4	161.2	123.3	37.87	4.255	
12,525.0	12,371.9	12,474.5	12,395.4	20.4	17.8	-120.94	18.1	1,431.4	166.5	128.6	37.96	4.387	
12,550.0	12,391.0	12,503.2	12,422.9	20.4	17.8	-123.73	9.8	1,431.5	172.2	134.1	38.14	4.516	
12,575.0	12,409.1	12,532.8	12,450.6	20.4	17.8	-126.33	-0.3	1,431.6	178.2	139.8	38.45	4.635	
12,600.0	12,426.4	12,563.2	12,478.5	20.4	17.7	-128.76	-12.6	1,431.7	184.4	145.5	38.89	4.741	
12,625.0	12,442.7	12,594.7	12,506.5	20.4	17.7	-131.01	-27.1	1,431.9	190.6	151.1	39.47	4.829	
12,650.0	12,458.0	12,627.2	12,534.2	20.4	17.7	-133.08	-44.0	1,432.0	196.9	156.7	40.20	4.897	
12,675.0	12,472.2	12,660.8	12,561.6	20.4	17.7	-134.98	-63.3	1,432.2	203.0	162.0	41.05	4.946	
12,700.0	12,485.3	12,695.4	12,588.4	20.5	17.7	-136.72	-85.3	1,432.4	209.0	167.0	42.02	4.974	
12,725.0	12,497.3	12,731.2	12,614.3	20.5	17.7	-138.29	-110.0	1,432.7	214.8	171.7	43.08	4.985	
12,750.0	12,508.1	12,768.1	12,639.0	20.5	17.7	-139.70	-137.3	1,432.9	220.2	176.0	44.21	4.980	
12,775.0	12,517.8	12,806.1	12,662.2	20.5	17.7	-140.94	-167.4	1,433.2	225.2	179.8	45.38	4.963	
12,800.0	12,526.2	12,845.1	12,683.4	20.6	17.8	-142.03	-200.2	1,433.6	229.8	183.2	46.54	4.937	
12,825.0	12,533.3	12,885.2	12,702.3	20.6	17.8	-142.95	-235.5	1,433.9	233.8	186.1	47.66	4.905	
12,850.0	12,539.2	12,926.1	12,718.6	20.7	17.8	-143.72	-273.0	1,434.3	237.1	188.5	48.69	4.870	
12,875.0	12,543.9	12,967.8	12,731.7	20.7	17.9	-144.32	-312.5	1,434.7	239.9	190.3	49.60	4.836	
12,900.0	12,547.2	13,010.0	12,741.5	20.8	18.0	-144.76	-353.7	1,435.1	241.9	191.5	50.36	4.803	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,925.0	12,549.2	13,052.8	12,747.6	20.8	18.0	-145.04	-395.9	1,435.5	243.2	192.3	50.94	4.774	
12,951.4	12,550.0	13,098.1	12,750.0	20.9	18.1	-145.15	-441.2	1,435.9	243.7	192.4	51.31	4.750	
13,000.0	12,550.0	13,147.6	12,750.0	21.0	18.2	-145.15	-490.7	1,436.4	243.7	192.3	51.39	4.742	
13,100.0	12,550.0	13,247.6	12,750.0	21.3	18.5	-145.15	-590.7	1,437.4	243.7	192.2	51.56	4.727	
13,200.0	12,550.0	13,347.6	12,750.0	21.6	18.8	-145.15	-690.7	1,438.4	243.7	192.0	51.76	4.709	
13,300.0	12,550.0	13,447.6	12,750.0	21.9	19.1	-145.15	-790.7	1,439.3	243.7	191.7	51.98	4.688	
13,400.0	12,550.0	13,547.6	12,750.0	22.3	19.5	-145.15	-890.7	1,440.3	243.7	191.5	52.24	4.666	
13,500.0	12,550.0	13,647.6	12,750.0	22.7	19.8	-145.15	-990.7	1,441.3	243.7	191.2	52.52	4.641	
13,600.0	12,550.0	13,747.6	12,750.0	23.1	20.2	-145.15	-1,090.7	1,442.3	243.7	190.9	52.82	4.614	
13,700.0	12,550.0	13,847.6	12,750.0	23.5	20.7	-145.15	-1,190.7	1,443.3	243.7	190.6	53.16	4.585	
13,800.0	12,550.0	13,947.6	12,750.0	23.9	21.1	-145.15	-1,290.7	1,444.2	243.7	190.2	53.52	4.554	
13,900.0	12,550.0	14,047.6	12,750.0	24.4	21.6	-145.14	-1,390.7	1,445.2	243.7	189.8	53.90	4.522	
14,000.0	12,550.0	14,147.6	12,750.0	24.8	22.1	-145.14	-1,490.6	1,446.2	243.7	189.4	54.31	4.488	
14,100.0	12,550.0	14,247.6	12,750.0	25.3	22.6	-145.14	-1,590.6	1,447.2	243.7	189.0	54.74	4.452	
14,200.0	12,550.0	14,347.6	12,750.0	25.8	23.1	-145.14	-1,690.6	1,448.2	243.7	188.5	55.20	4.415	
14,300.0	12,550.0	14,447.6	12,750.0	26.4	23.7	-145.14	-1,790.6	1,449.1	243.7	188.0	55.68	4.377	
14,400.0	12,550.0	14,547.6	12,750.0	26.9	24.2	-145.14	-1,890.6	1,450.1	243.7	187.5	56.18	4.338	
14,500.0	12,550.0	14,647.6	12,750.0	27.4	24.8	-145.14	-1,990.6	1,451.1	243.7	187.0	56.70	4.298	
14,600.0	12,550.0	14,747.6	12,750.0	28.0	25.4	-145.14	-2,090.6	1,452.1	243.7	186.5	57.25	4.258	
14,700.0	12,550.0	14,847.6	12,750.0	28.6	26.0	-145.14	-2,190.6	1,453.1	243.7	185.9	57.81	4.216	
14,800.0	12,550.0	14,947.6	12,750.0	29.2	26.6	-145.14	-2,290.6	1,454.0	243.7	185.3	58.40	4.174	
14,900.0	12,550.0	15,047.6	12,750.0	29.8	27.3	-145.14	-2,390.6	1,455.0	243.7	184.7	59.00	4.131	
15,000.0	12,550.0	15,147.6	12,750.0	30.4	27.9	-145.14	-2,490.6	1,456.0	243.7	184.1	59.62	4.088	
15,100.0	12,550.0	15,247.6	12,750.0	31.0	28.6	-145.14	-2,590.6	1,457.0	243.7	183.5	60.27	4.044	
15,200.0	12,550.0	15,347.6	12,750.0	31.7	29.2	-145.14	-2,690.6	1,458.0	243.7	182.8	60.92	4.001	
15,300.0	12,550.0	15,447.6	12,750.0	32.3	29.9	-145.14	-2,790.6	1,458.9	243.7	182.1	61.60	3.957	
15,400.0	12,550.0	15,547.6	12,750.0	33.0	30.6	-145.14	-2,890.6	1,459.9	243.7	181.4	62.29	3.913	
15,500.0	12,550.0	15,647.6	12,750.0	33.6	31.3	-145.14	-2,990.6	1,460.9	243.7	180.7	63.00	3.869	
15,600.0	12,550.0	15,747.6	12,750.0	34.3	32.0	-145.14	-3,090.6	1,461.9	243.7	180.0	63.72	3.825	
15,700.0	12,550.0	15,847.6	12,750.0	35.0	32.7	-145.14	-3,190.6	1,462.9	243.7	179.3	64.46	3.781	
15,800.0	12,550.0	15,947.6	12,750.0	35.6	33.4	-145.14	-3,290.6	1,463.8	243.7	178.5	65.22	3.737	
15,900.0	12,550.0	16,047.6	12,750.0	36.3	34.1	-145.14	-3,390.6	1,464.8	243.7	177.8	65.98	3.694	
16,000.0	12,550.0	16,147.6	12,750.0	37.0	34.9	-145.14	-3,490.6	1,465.8	243.7	177.0	66.76	3.651	
16,100.0	12,550.0	16,247.6	12,750.0	37.7	35.6	-145.14	-3,590.5	1,466.8	243.7	176.2	67.56	3.608	
16,200.0	12,550.0	16,347.6	12,750.0	38.4	36.3	-145.14	-3,690.5	1,467.8	243.7	175.4	68.36	3.565	
16,300.0	12,550.0	16,447.6	12,750.0	39.2	37.1	-145.14	-3,790.5	1,468.7	243.7	174.6	69.18	3.523	
16,400.0	12,550.0	16,547.6	12,750.0	39.9	37.8	-145.14	-3,890.5	1,469.7	243.7	173.7	70.01	3.482	
16,500.0	12,550.0	16,647.6	12,750.0	40.6	38.6	-145.14	-3,990.5	1,470.7	243.7	172.9	70.85	3.440	
16,600.0	12,550.0	16,747.6	12,750.0	41.3	39.3	-145.14	-4,090.5	1,471.7	243.7	172.0	71.70	3.399	
16,700.0	12,550.0	16,847.6	12,750.0	42.1	40.1	-145.14	-4,190.5	1,472.7	243.7	171.2	72.56	3.359	
16,800.0	12,550.0	16,947.6	12,750.0	42.8	40.9	-145.13	-4,290.5	1,473.6	243.7	170.3	73.43	3.319	
16,900.0	12,550.0	17,047.6	12,750.0	43.6	41.6	-145.13	-4,390.5	1,474.6	243.7	169.4	74.31	3.280	
17,000.0	12,550.0	17,147.6	12,750.0	44.3	42.4	-145.13	-4,490.5	1,475.6	243.7	168.5	75.21	3.241	
17,100.0	12,550.0	17,247.6	12,750.0	45.1	43.2	-145.13	-4,590.5	1,476.6	243.7	167.6	76.11	3.203	
17,200.0	12,550.0	17,347.6	12,750.0	45.8	44.0	-145.13	-4,690.5	1,477.5	243.7	166.7	77.01	3.165	
17,300.0	12,550.0	17,447.6	12,750.0	46.6	44.7	-145.13	-4,790.5	1,478.5	243.7	165.8	77.93	3.128	
17,400.0	12,550.0	17,547.6	12,750.0	47.3	45.5	-145.13	-4,890.5	1,479.5	243.8	164.9	78.86	3.091	
17,500.0	12,550.0	17,647.6	12,750.0	48.1	46.3	-145.13	-4,990.5	1,480.5	243.8	164.0	79.79	3.055	
17,600.0	12,550.0	17,747.6	12,750.0	48.9	47.1	-145.13	-5,090.5	1,481.5	243.8	163.0	80.73	3.019	
17,700.0	12,550.0	17,847.6	12,750.0	49.6	47.9	-145.13	-5,190.5	1,482.4	243.8	162.1	81.68	2.984	Normal Operations
17,800.0	12,550.0	17,947.6	12,750.0	50.4	48.7	-145.13	-5,290.5	1,483.4	243.8	161.1	82.63	2.950	Normal Operations

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR

Rule Assigned:

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,900.0	12,550.0	18,047.6	12,750.0	51.2	49.5	-145.13	-5,390.5	1,484.4	243.8	160.2	83.59	2.916	Normal Operations
18,000.0	12,550.0	18,147.6	12,750.0	52.0	50.3	-145.13	-5,490.5	1,485.4	243.8	159.2	84.56	2.883	Normal Operations
18,100.0	12,550.0	18,247.6	12,750.0	52.8	51.1	-145.13	-5,590.5	1,486.4	243.8	158.2	85.54	2.850	Normal Operations
18,200.0	12,550.0	18,347.6	12,750.0	53.5	51.9	-145.13	-5,690.4	1,487.3	243.8	157.2	86.52	2.817	Normal Operations
18,300.0	12,550.0	18,447.6	12,750.0	54.3	52.7	-145.13	-5,790.4	1,488.3	243.8	156.3	87.50	2.786	Normal Operations
18,400.0	12,550.0	18,547.6	12,750.0	55.1	53.5	-145.13	-5,890.4	1,489.3	243.8	155.3	88.49	2.755	Normal Operations
18,500.0	12,550.0	18,647.6	12,750.0	55.9	54.3	-145.13	-5,990.4	1,490.3	243.8	154.3	89.49	2.724	Normal Operations
18,600.0	12,550.0	18,747.6	12,750.0	56.7	55.1	-145.13	-6,090.4	1,491.3	243.8	153.3	90.49	2.694	Normal Operations
18,700.0	12,550.0	18,847.6	12,750.0	57.5	55.9	-145.13	-6,190.4	1,492.2	243.8	152.3	91.50	2.664	Normal Operations
18,800.0	12,550.0	18,947.6	12,750.0	58.3	56.7	-145.13	-6,290.4	1,493.2	243.8	151.2	92.52	2.635	Normal Operations
18,900.0	12,550.0	19,047.6	12,750.0	59.1	57.5	-145.13	-6,390.4	1,494.2	243.8	150.2	93.53	2.606	Normal Operations
19,000.0	12,550.0	19,147.6	12,750.0	59.9	58.4	-145.13	-6,490.4	1,495.2	243.8	149.2	94.56	2.578	Normal Operations
19,100.0	12,550.0	19,247.6	12,750.0	60.7	59.2	-145.13	-6,590.4	1,496.2	243.8	148.2	95.58	2.550	Normal Operations
19,200.0	12,550.0	19,347.6	12,750.0	61.5	60.0	-145.13	-6,690.4	1,497.1	243.8	147.1	96.62	2.523	Normal Operations
19,300.0	12,550.0	19,447.6	12,750.0	62.3	60.8	-145.13	-6,790.4	1,498.1	243.8	146.1	97.65	2.496	Caution - Monitor Closely
19,400.0	12,550.0	19,547.6	12,750.0	63.1	61.6	-145.13	-6,890.4	1,499.1	243.8	145.1	98.69	2.470	Caution - Monitor Closely
19,500.0	12,550.0	19,647.6	12,750.0	63.9	62.5	-145.13	-6,990.4	1,500.1	243.8	144.0	99.74	2.444	Caution - Monitor Closely
19,600.0	12,550.0	19,747.6	12,750.0	64.7	63.3	-145.13	-7,090.4	1,501.1	243.8	143.0	100.78	2.419	Caution - Monitor Closely
19,700.0	12,550.0	19,847.6	12,750.0	65.5	64.1	-145.12	-7,190.4	1,502.0	243.8	141.9	101.83	2.394	Caution - Monitor Closely
19,800.0	12,550.0	19,947.6	12,750.0	66.3	64.9	-145.12	-7,290.4	1,503.0	243.8	140.9	102.89	2.369	Caution - Monitor Closely
19,900.0	12,550.0	20,047.6	12,750.0	67.2	65.7	-145.12	-7,390.4	1,504.0	243.8	139.8	103.95	2.345	Caution - Monitor Closely
20,000.0	12,550.0	20,147.6	12,750.0	68.0	66.6	-145.12	-7,490.4	1,505.0	243.8	138.8	105.01	2.321	Caution - Monitor Closely
20,100.0	12,550.0	20,247.6	12,750.0	68.8	67.4	-145.12	-7,590.4	1,506.0	243.8	137.7	106.08	2.298	Caution - Monitor Closely
20,200.0	12,550.0	20,347.6	12,750.0	69.6	68.2	-145.12	-7,690.3	1,506.9	243.8	136.6	107.14	2.275	Caution - Monitor Closely
20,300.0	12,550.0	20,447.6	12,750.0	70.4	69.0	-145.12	-7,790.3	1,507.9	243.8	135.6	108.22	2.253	Caution - Monitor Closely
20,400.0	12,550.0	20,547.6	12,750.0	71.2	69.9	-145.12	-7,890.3	1,508.9	243.8	134.5	109.29	2.231	Caution - Monitor Closely
20,500.0	12,550.0	20,647.6	12,750.0	72.0	70.7	-145.12	-7,990.3	1,509.9	243.8	133.4	110.37	2.209	Caution - Monitor Closely
20,600.0	12,550.0	20,747.6	12,750.0	72.9	71.5	-145.12	-8,090.3	1,510.8	243.8	132.3	111.45	2.187	Caution - Monitor Closely
20,638.5	12,550.0	20,786.1	12,750.0	73.2	71.9	-145.12	-8,128.9	1,511.2	243.8	131.9	111.86	2.179	Caution - Monitor Closely, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WA FEDERAL 009H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 183-r.5 MWD+IFR1

Offset Well Error: 0.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
20,000.0	12,550.0	17,619.0	12,619.5	68.0	52.4	97.31	-8,285.5	831.3	959.4	875.4	84.00	11.421	
20,100.0	12,550.0	17,619.0	12,619.5	68.8	52.4	97.31	-8,285.5	831.3	879.0	789.8	89.22	9.852	
20,200.0	12,550.0	17,619.0	12,619.5	69.6	52.4	97.31	-8,285.5	831.3	803.1	707.9	95.21	8.435	
20,300.0	12,550.0	17,619.0	12,619.5	70.4	52.4	97.31	-8,285.5	831.3	733.0	631.1	101.94	7.191	
20,400.0	12,550.0	17,619.0	12,619.5	71.2	52.4	97.31	-8,285.5	831.3	670.5	561.3	109.18	6.141	
20,500.0	12,550.0	17,619.0	12,619.5	72.0	52.4	97.31	-8,285.5	831.3	618.0	501.5	116.44	5.307	
20,600.0	12,550.0	17,619.0	12,619.5	72.9	52.4	97.31	-8,285.5	831.3	578.1	455.3	122.78	4.708	
20,638.5	12,550.0	17,619.0	12,619.5	73.2	52.4	97.31	-8,285.5	831.3	566.7	442.0	124.73	4.543	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #501H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 11812-r.5 MWD+IFR1+MS

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,800.0	11,671.1	19,971.1	12,560.9	20.2	59.5	88.20	48.0	1,736.6	994.8	898.0	96.75	10.282	
11,900.0	11,771.1	19,968.7	12,561.0	20.3	59.5	87.89	50.4	1,736.4	906.4	810.0	96.45	9.398	
12,000.0	11,871.1	19,966.4	12,561.0	20.3	59.5	87.59	52.7	1,736.3	820.8	724.8	96.00	8.549	
12,100.0	11,971.1	19,964.2	12,561.0	20.4	59.5	87.31	54.9	1,736.1	738.7	643.3	95.37	7.746	
12,200.0	12,071.1	19,962.1	12,561.1	20.4	59.5	87.03	57.0	1,736.0	661.6	567.1	94.47	7.003	
12,201.4	12,072.5	19,962.0	12,561.1	20.4	59.5	87.03	57.0	1,736.0	660.6	566.1	94.46	6.993	
12,225.0	12,096.1	19,962.2	12,561.1	20.4	59.5	-95.42	56.9	1,736.0	643.3	549.1	94.21	6.829	
12,250.0	12,121.0	19,963.7	12,561.0	20.4	59.5	-98.21	55.3	1,736.1	625.6	531.7	93.93	6.660	
12,275.0	12,145.8	19,966.7	12,561.0	20.4	59.5	-100.60	52.3	1,736.3	608.5	514.9	93.65	6.498	
12,300.0	12,170.4	19,971.1	12,560.9	20.4	59.5	-102.60	48.0	1,736.6	592.2	498.8	93.36	6.343	
12,325.0	12,194.7	19,976.9	12,560.8	20.4	59.6	-104.23	42.2	1,737.0	576.6	483.5	93.06	6.196	
12,350.0	12,218.7	19,984.0	12,560.6	20.4	59.6	-105.49	35.2	1,737.5	561.9	469.2	92.76	6.058	
12,375.0	12,242.3	19,992.4	12,560.4	20.4	59.7	-106.43	26.8	1,738.1	548.2	455.7	92.46	5.929	
12,400.0	12,265.4	20,002.0	12,560.2	20.4	59.8	-107.05	17.2	1,738.8	535.5	443.3	92.17	5.810	
12,425.0	12,288.0	20,012.9	12,559.9	20.4	59.9	-107.38	6.3	1,739.6	523.8	431.9	91.89	5.700	
12,450.0	12,310.0	20,025.0	12,559.6	20.4	59.9	-107.44	-5.7	1,740.4	513.2	421.5	91.61	5.601	
12,475.0	12,331.4	20,038.2	12,559.2	20.4	60.0	-107.26	-18.9	1,741.3	503.6	412.3	91.36	5.512	
12,500.0	12,352.0	20,052.4	12,558.7	20.4	60.1	-106.87	-33.0	1,742.2	495.2	404.0	91.14	5.433	
12,525.0	12,371.9	20,067.6	12,558.2	20.4	60.3	-106.28	-48.2	1,743.3	487.8	396.9	90.94	5.364	
12,550.0	12,391.0	20,083.7	12,557.6	20.4	60.4	-105.51	-64.3	1,744.3	481.5	390.7	90.78	5.304	
12,575.0	12,409.1	20,100.9	12,556.9	20.4	60.5	-104.59	-81.4	1,745.4	476.2	385.6	90.65	5.253	
12,600.0	12,426.4	20,118.9	12,556.2	20.4	60.6	-103.52	-99.4	1,746.6	471.9	381.3	90.58	5.210	
12,625.0	12,442.7	20,137.6	12,555.4	20.4	60.8	-102.37	-118.0	1,747.8	468.5	377.9	90.54	5.174	
12,650.0	12,458.0	20,155.0	12,554.6	20.4	60.9	-101.29	-135.4	1,748.9	465.9	375.4	90.50	5.148	
12,675.0	12,472.2	20,173.7	12,553.7	20.4	61.1	-100.10	-154.0	1,750.2	464.2	373.7	90.52	5.128	
12,700.0	12,485.3	20,194.3	12,552.8	20.5	61.2	-98.77	-174.6	1,751.7	463.2	372.6	90.60	5.112	
12,725.0	12,497.3	20,215.6	12,551.8	20.5	61.4	-97.45	-195.8	1,753.2	462.8	372.1	90.73	5.101	
12,731.8	12,500.4	20,221.6	12,551.5	20.5	61.4	-97.09	-201.7	1,753.6	462.8	372.0	90.77	5.099	CC, ES, SF
12,750.0	12,508.1	20,226.0	12,551.3	20.5	61.4	-96.79	-206.1	1,753.9	463.0	372.4	90.63	5.109	
12,775.0	12,517.8	20,226.0	12,551.3	20.5	61.4	-96.59	-206.1	1,753.9	464.7	374.5	90.22	5.151	
12,800.0	12,526.2	20,226.0	12,551.3	20.6	61.4	-96.22	-206.1	1,753.9	467.8	378.2	89.64	5.218	
12,825.0	12,533.3	20,226.0	12,551.3	20.6	61.4	-95.67	-206.1	1,753.9	472.4	383.4	88.92	5.312	
12,850.0	12,539.2	20,226.0	12,551.3	20.7	61.4	-94.93	-206.1	1,753.9	478.3	390.3	88.05	5.432	
12,875.0	12,543.9	20,226.0	12,551.3	20.7	61.4	-94.02	-206.1	1,753.9	485.6	398.5	87.05	5.578	
12,900.0	12,547.2	20,226.0	12,551.3	20.8	61.4	-92.94	-206.1	1,753.9	494.1	408.2	85.93	5.750	
12,925.0	12,549.2	20,226.0	12,551.3	20.8	61.4	-91.68	-206.1	1,753.9	503.8	419.1	84.71	5.947	
12,951.4	12,550.0	20,226.0	12,551.3	20.9	61.4	-90.17	-206.1	1,753.9	515.1	431.8	83.33	6.182	
13,000.0	12,550.0	20,226.0	12,551.3	21.0	61.4	-90.17	-206.1	1,753.9	538.9	458.2	80.66	6.681	
13,100.0	12,550.0	20,226.0	12,551.3	21.3	61.4	-90.17	-206.1	1,753.9	597.2	522.1	75.10	7.952	
13,200.0	12,550.0	20,226.0	12,551.3	21.6	61.4	-90.17	-206.1	1,753.9	665.5	595.5	70.01	9.507	
13,300.0	12,550.0	20,226.0	12,551.3	21.9	61.4	-90.17	-206.1	1,753.9	741.1	675.5	65.64	11.290	
13,400.0	12,550.0	20,226.0	12,551.3	22.3	61.4	-90.17	-206.1	1,753.9	821.9	759.9	62.03	13.250	
13,500.0	12,550.0	20,226.0	12,551.3	22.7	61.4	-90.17	-206.1	1,753.9	906.5	847.5	59.09	15.343	
13,600.0	12,550.0	20,226.0	12,551.3	23.1	61.4	-90.17	-206.1	1,753.9	994.0	937.3	56.69	17.534	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #603H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 11546-r.5 MWD+IFR1+MS

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,100.0	11,971.1	19,754.2	12,294.8	20.4	60.0	-93.78	-26.3	379.7	969.9	879.8	90.07	10.768	
12,200.0	12,071.1	19,754.2	12,294.8	20.4	60.0	-93.78	-26.4	379.7	941.2	851.8	89.47	10.521	
12,201.4	12,072.5	19,754.2	12,294.8	20.4	60.0	-93.78	-26.4	379.7	940.9	851.5	89.46	10.518	
12,225.0	12,096.1	19,754.8	12,294.8	20.4	60.0	87.39	-27.0	379.8	935.6	846.2	89.34	10.472	
12,250.0	12,121.0	19,756.9	12,294.8	20.4	60.0	87.88	-29.1	379.9	930.5	841.3	89.24	10.427	
12,275.0	12,145.8	19,760.4	12,294.8	20.4	60.0	88.21	-32.6	380.1	926.0	836.9	89.16	10.386	
12,300.0	12,170.4	19,765.4	12,294.8	20.4	60.0	88.38	-37.5	380.5	922.1	833.0	89.11	10.348	
12,325.0	12,194.7	19,771.8	12,294.8	20.4	60.1	88.39	-43.9	380.9	918.8	829.7	89.09	10.313	
12,350.0	12,218.7	19,779.5	12,294.8	20.4	60.1	88.25	-51.6	381.4	916.1	827.0	89.10	10.282	
12,375.0	12,242.3	19,788.7	12,294.8	20.4	60.2	87.96	-60.8	382.1	914.0	824.8	89.14	10.254	
12,400.0	12,265.4	19,799.2	12,294.8	20.4	60.3	87.54	-71.3	382.8	912.4	823.2	89.20	10.228	
12,425.0	12,288.0	19,811.1	12,294.8	20.4	60.4	87.00	-83.1	383.6	911.3	822.0	89.29	10.205	
12,450.0	12,310.0	19,824.3	12,294.8	20.4	60.5	86.35	-96.3	384.6	910.6	821.2	89.41	10.185	
12,475.0	12,331.4	19,838.8	12,294.9	20.4	60.6	85.60	-110.7	385.7	910.4	820.8	89.56	10.166	
12,478.1	12,334.0	19,840.6	12,294.9	20.4	60.6	85.50	-112.5	385.8	910.4	820.8	89.57	10.163 CC, ES	
12,500.0	12,352.0	19,853.1	12,294.9	20.4	60.7	84.84	-125.0	386.8	910.5	820.8	89.71	10.149	
12,525.0	12,371.9	19,868.9	12,295.0	20.4	60.8	84.00	-140.7	387.9	911.0	821.1	89.90	10.134	
12,550.0	12,391.0	19,885.8	12,295.2	20.4	60.9	83.11	-157.6	389.2	911.7	821.6	90.10	10.119	
12,575.0	12,409.1	19,903.3	12,295.4	20.4	61.1	82.20	-175.0	390.5	912.6	822.3	90.32	10.105	
12,600.0	12,426.4	19,921.5	12,295.6	20.4	61.2	81.29	-193.2	391.9	913.7	823.2	90.55	10.091	
12,625.0	12,442.7	19,940.6	12,295.8	20.4	61.4	80.38	-212.3	393.4	914.9	824.1	90.79	10.077	
12,650.0	12,458.0	19,953.0	12,296.0	20.4	61.5	79.75	-224.6	394.3	916.2	825.2	91.01	10.067 SF	
12,675.0	12,472.2	19,953.0	12,296.0	20.4	61.5	79.56	-224.6	394.3	917.9	826.7	91.15	10.070	
12,700.0	12,485.3	19,953.0	12,296.0	20.5	61.5	79.31	-224.6	394.3	919.9	828.7	91.25	10.081	
12,725.0	12,497.3	19,953.0	12,296.0	20.5	61.5	79.02	-224.6	394.3	922.4	831.1	91.32	10.101	
12,750.0	12,508.1	19,953.0	12,296.0	20.5	61.5	78.67	-224.6	394.3	925.4	834.0	91.34	10.131	
12,775.0	12,517.8	19,953.0	12,296.0	20.5	61.5	78.27	-224.6	394.3	928.7	837.4	91.32	10.170	
12,800.0	12,526.2	19,953.0	12,296.0	20.6	61.5	77.83	-224.6	394.3	932.5	841.2	91.25	10.219	
12,825.0	12,533.3	19,953.0	12,296.0	20.6	61.5	77.34	-224.6	394.3	936.6	845.5	91.12	10.278	
12,850.0	12,539.2	19,953.0	12,296.0	20.7	61.5	76.81	-224.6	394.3	941.1	850.1	90.94	10.348	
12,875.0	12,543.9	19,953.0	12,296.0	20.7	61.5	76.23	-224.6	394.3	945.9	855.2	90.71	10.428	
12,900.0	12,547.2	19,953.0	12,296.0	20.8	61.5	75.62	-224.6	394.3	951.1	860.6	90.42	10.518	
12,925.0	12,549.2	19,953.0	12,296.0	20.8	61.5	74.97	-224.6	394.3	956.5	866.4	90.08	10.619	
12,951.4	12,550.0	19,953.0	12,296.0	20.9	61.5	74.24	-224.6	394.3	962.6	873.0	89.66	10.737	
13,000.0	12,550.0	19,953.0	12,296.0	21.0	61.5	74.24	-224.6	394.3	975.3	886.5	88.76	10.988	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #701H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 10401-MWD+IFR1+FDIR

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
10,300.0	10,171.1	18,303.4	11,006.9	19.5	65.5	92.52	12.0	1,793.5	975.0	881.6	93.38	10.441	
10,400.0	10,271.1	18,302.7	11,006.9	19.5	65.5	92.45	12.6	1,793.5	890.7	797.0	93.69	9.507	
10,500.0	10,371.1	18,302.1	11,007.0	19.5	65.5	92.38	13.2	1,793.5	810.1	716.0	94.04	8.615	
10,600.0	10,471.1	18,301.6	11,007.0	19.6	65.5	92.31	13.7	1,793.5	734.2	639.8	94.42	7.776	
10,700.0	10,571.1	18,301.0	11,007.0	19.6	65.5	92.25	14.3	1,793.5	664.8	569.9	94.84	7.009	
10,800.0	10,671.1	18,300.5	11,007.0	19.7	65.5	92.19	14.8	1,793.6	603.9	508.7	95.27	6.339	
10,900.0	10,771.1	18,300.0	11,007.0	19.8	65.5	92.13	15.3	1,793.6	554.6	458.9	95.65	5.798	
11,000.0	10,871.1	18,299.5	11,007.0	19.8	65.5	92.07	15.8	1,793.6	520.0	424.1	95.91	5.422	
11,100.0	10,971.1	18,299.0	11,007.0	19.9	65.5	92.02	16.3	1,793.6	503.2	407.2	95.96	5.244	
11,135.8	11,006.9	18,298.8	11,007.0	19.9	65.5	92.00	16.5	1,793.6	501.9	406.0	95.92	5.233	CC, ES, SF
11,200.0	11,071.1	18,298.6	11,007.0	19.9	65.5	91.97	16.8	1,793.6	506.0	410.2	95.79	5.283	
11,300.0	11,171.1	18,298.1	11,007.0	20.0	65.5	91.92	17.2	1,793.7	528.1	432.6	95.46	5.532	
11,400.0	11,271.1	18,297.7	11,007.0	20.0	65.5	91.87	17.6	1,793.7	567.2	472.1	95.11	5.963	
11,500.0	11,371.1	18,297.3	11,007.0	20.1	65.5	91.82	18.0	1,793.7	620.1	525.3	94.82	6.540	
11,600.0	11,471.1	18,296.9	11,007.0	20.1	65.5	91.78	18.4	1,793.7	683.6	589.0	94.63	7.225	
11,700.0	11,571.1	18,296.5	11,007.0	20.2	65.5	91.73	18.8	1,793.7	755.1	660.6	94.53	7.988	
11,800.0	11,671.1	18,296.1	11,007.0	20.2	65.5	91.69	19.2	1,793.7	832.5	738.0	94.51	8.809	
11,900.0	11,771.1	18,295.8	11,007.0	20.3	65.5	91.65	19.5	1,793.7	914.2	819.7	94.55	9.670	
12,000.0	11,871.1	18,295.4	11,007.0	20.3	65.5	91.61	19.9	1,793.7	999.3	904.7	94.63	10.560	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #702H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 99-Standard Keeper 104, 1233-r.5 MWD+IFR1+MS

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,900.0	11,771.1	20,148.6	12,729.7	20.3	59.7	16.86	70.2	1,303.0	959.3	858.3	101.02	9.497	
12,000.0	11,871.1	20,151.8	12,729.8	20.3	59.7	18.55	67.0	1,303.1	859.4	758.2	101.23	8.490	
12,100.0	11,971.1	20,155.1	12,729.9	20.4	59.8	20.63	63.7	1,303.2	759.5	658.0	101.45	7.486	
12,200.0	12,071.1	20,158.5	12,730.1	20.4	59.8	23.25	60.4	1,303.3	659.6	557.9	101.69	6.487	
12,201.4	12,072.5	20,158.5	12,730.1	20.4	59.8	23.29	60.3	1,303.3	658.2	556.5	101.69	6.473	
12,225.0	12,096.1	20,159.9	12,730.1	20.4	59.8	-168.44	59.0	1,303.4	634.6	532.9	101.75	6.237	
12,250.0	12,121.0	20,162.4	12,730.2	20.4	59.8	-172.32	56.4	1,303.5	609.8	508.0	101.82	5.989	
12,275.0	12,145.8	20,166.2	12,730.4	20.4	59.8	-174.09	52.7	1,303.6	585.2	483.3	101.90	5.743	
12,300.0	12,170.4	20,171.1	12,730.6	20.4	59.9	-175.08	47.8	1,303.8	560.8	458.8	101.98	5.499	
12,325.0	12,194.7	20,177.2	12,730.8	20.4	59.9	-175.69	41.7	1,304.0	536.7	434.7	102.06	5.259	
12,350.0	12,218.7	20,184.5	12,731.2	20.4	60.0	-176.09	34.4	1,304.2	513.1	410.9	102.16	5.023	
12,375.0	12,242.3	20,193.0	12,731.5	20.4	60.0	-176.36	25.9	1,304.5	489.9	387.7	102.26	4.791	
12,400.0	12,265.4	20,202.6	12,732.0	20.4	60.1	-176.54	16.3	1,304.9	467.3	364.9	102.36	4.565	
12,425.0	12,288.0	20,213.4	12,732.5	20.4	60.2	-176.65	5.6	1,305.2	445.3	342.8	102.47	4.345	
12,450.0	12,310.0	20,225.3	12,733.2	20.4	60.2	-176.71	-6.4	1,305.6	423.9	321.4	102.59	4.133	
12,475.0	12,331.4	20,239.2	12,733.9	20.4	60.3	-176.72	-20.2	1,306.1	403.3	300.6	102.77	3.925	
12,500.0	12,352.0	20,255.1	12,734.7	20.4	60.5	-176.69	-36.0	1,306.6	383.5	280.5	103.04	3.722	
12,525.0	12,371.9	20,271.9	12,735.6	20.4	60.6	-176.62	-52.9	1,307.2	364.4	261.1	103.33	3.527	
12,550.0	12,391.0	20,289.7	12,736.5	20.4	60.7	-176.53	-70.6	1,307.8	346.2	242.6	103.63	3.341	
12,575.0	12,409.1	20,308.4	12,737.3	20.4	60.8	-176.42	-89.3	1,308.4	328.9	225.0	103.94	3.165	
12,600.0	12,426.4	20,328.0	12,738.2	20.4	61.0	-176.28	-108.9	1,309.0	312.5	208.3	104.27	2.997	Normal Operations
12,625.0	12,442.7	20,349.0	12,739.1	20.4	61.1	-176.11	-129.8	1,309.7	297.1	192.4	104.67	2.838	Normal Operations
12,650.0	12,458.0	20,370.7	12,739.9	20.4	61.3	-175.93	-151.5	1,310.4	282.6	177.5	105.08	2.689	Normal Operations
12,675.0	12,472.2	20,392.1	12,740.6	20.4	61.4	-175.75	-172.9	1,311.1	269.1	163.7	105.40	2.553	Normal Operations
12,700.0	12,485.3	20,413.8	12,741.3	20.5	61.6	-175.56	-194.5	1,311.8	256.8	151.1	105.69	2.429	Caution - Monitor Closely
12,725.0	12,497.3	20,435.0	12,742.0	20.5	61.7	-175.37	-215.7	1,312.4	245.6	139.7	105.85	2.320	Caution - Monitor Closely
12,750.0	12,508.1	20,435.0	12,742.0	20.5	61.7	-175.46	-215.7	1,312.4	236.8	133.8	102.96	2.300	Caution - Monitor Closely, SF
12,775.0	12,517.8	20,435.0	12,742.0	20.5	61.7	-175.51	-215.7	1,312.4	231.6	132.7	98.91	2.342	Caution - Monitor Closely, ES
12,794.9	12,524.6	20,435.0	12,742.0	20.6	61.7	-175.52	-215.7	1,312.4	230.4	135.4	94.91	2.427	Caution - Monitor Closely, CC
12,800.0	12,526.2	20,435.0	12,742.0	20.6	61.7	-175.52	-215.7	1,312.4	230.4	136.6	93.80	2.457	Caution - Monitor Closely
12,825.0	12,533.3	20,435.0	12,742.0	20.6	61.7	-175.49	-215.7	1,312.4	233.2	145.4	87.88	2.654	Normal Operations
12,850.0	12,539.2	20,435.0	12,742.0	20.7	61.7	-175.43	-215.7	1,312.4	239.9	158.3	81.58	2.941	Normal Operations
12,875.0	12,543.9	20,435.0	12,742.0	20.7	61.7	-175.32	-215.7	1,312.4	250.1	174.7	75.36	3.318	
12,900.0	12,547.2	20,435.0	12,742.0	20.8	61.7	-175.16	-215.7	1,312.4	263.3	193.7	69.59	3.784	
12,925.0	12,549.2	20,435.0	12,742.0	20.8	61.7	-174.95	-215.7	1,312.4	279.2	214.7	64.51	4.328	
12,951.4	12,550.0	20,435.0	12,742.0	20.9	61.7	-174.65	-215.7	1,312.4	298.3	238.3	60.01	4.971	
13,000.0	12,550.0	20,435.0	12,742.0	21.0	61.7	-174.65	-215.7	1,312.4	336.9	283.3	53.51	6.295	
13,100.0	12,550.0	20,435.0	12,742.0	21.3	61.7	-174.65	-215.7	1,312.4	422.7	377.6	45.15	9.362	
13,200.0	12,550.0	20,435.0	12,742.0	21.6	61.7	-174.65	-215.7	1,312.4	513.7	472.7	41.05	12.517	
13,300.0	12,550.0	20,435.0	12,742.0	21.9	61.7	-174.65	-215.7	1,312.4	607.6	568.4	39.16	15.516	
13,400.0	12,550.0	20,435.0	12,742.0	22.3	61.7	-174.65	-215.7	1,312.4	703.1	664.7	38.40	18.313	
13,500.0	12,550.0	20,435.0	12,742.0	22.7	61.7	-174.65	-215.7	1,312.4	799.8	761.6	38.20	20.938	
13,600.0	12,550.0	20,435.0	12,742.0	23.1	61.7	-174.65	-215.7	1,312.4	897.1	858.9	38.28	23.437	
13,700.0	12,550.0	20,435.0	12,742.0	23.5	61.7	-174.65	-215.7	1,312.4	995.0	956.5	38.50	25.846	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #703H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 12076-r.5 MWD+IFR1+MS

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,900.0	11,771.1	19,884.9	12,559.2	20.3	59.6	-90.16	32.6	780.5	939.6	843.8	95.80	9.808	
12,000.0	11,871.1	19,885.3	12,559.2	20.3	59.6	-90.21	32.1	780.5	857.4	762.1	95.33	8.994	
12,100.0	11,971.1	19,885.7	12,559.2	20.4	59.6	-90.25	31.8	780.5	779.5	684.8	94.67	8.233	
12,200.0	12,071.1	19,886.0	12,559.2	20.4	59.6	-90.28	31.5	780.5	707.1	613.3	93.79	7.539	
12,201.4	12,072.5	19,886.0	12,559.2	20.4	59.6	-90.28	31.5	780.5	706.1	612.3	93.78	7.530	
12,225.0	12,096.1	19,886.7	12,559.2	20.4	59.6	92.83	30.8	780.5	690.0	596.5	93.54	7.377	
12,250.0	12,121.0	19,888.9	12,559.2	20.4	59.6	95.21	28.6	780.5	673.6	580.3	93.28	7.221	
12,275.0	12,145.8	19,892.3	12,559.2	20.4	59.7	97.27	25.1	780.5	657.7	564.7	93.02	7.071	
12,300.0	12,170.4	19,897.1	12,559.2	20.4	59.7	99.03	20.4	780.5	642.6	549.8	92.76	6.927	
12,325.0	12,194.7	19,902.9	12,559.2	20.4	59.7	100.49	14.5	780.5	628.2	535.7	92.50	6.791	
12,350.0	12,218.7	19,909.9	12,559.1	20.4	59.8	101.67	7.6	780.5	614.6	522.3	92.24	6.663	
12,375.0	12,242.3	19,917.8	12,558.9	20.4	59.8	102.59	-0.4	780.4	601.9	509.9	91.98	6.543	
12,400.0	12,265.4	19,926.7	12,558.7	20.4	59.9	103.27	-9.2	780.4	590.1	498.3	91.73	6.432	
12,425.0	12,288.0	19,936.5	12,558.4	20.4	60.0	103.72	-19.0	780.2	579.2	487.7	91.49	6.331	
12,450.0	12,310.0	19,946.8	12,557.9	20.4	60.1	103.98	-29.3	780.0	569.4	478.1	91.26	6.239	
12,475.0	12,331.4	19,958.1	12,557.5	20.4	60.1	104.04	-40.6	779.8	560.6	469.5	91.05	6.157	
12,500.0	12,352.0	19,970.6	12,557.1	20.4	60.2	103.87	-53.1	779.6	552.8	461.9	90.87	6.083	
12,525.0	12,371.9	19,984.3	12,556.7	20.4	60.3	103.52	-66.8	779.3	546.0	455.2	90.72	6.018	
12,550.0	12,391.0	19,999.1	12,556.3	20.4	60.4	102.99	-81.5	779.0	540.1	449.5	90.61	5.961	
12,575.0	12,409.1	20,015.0	12,555.9	20.4	60.6	102.32	-97.4	778.7	535.2	444.7	90.53	5.912	
12,600.0	12,426.4	20,031.9	12,555.6	20.4	60.7	101.52	-114.3	778.4	531.2	440.7	90.50	5.870	
12,625.0	12,442.7	20,057.2	12,555.6	20.4	60.9	100.13	-139.6	778.0	527.9	437.3	90.61	5.826	
12,650.0	12,458.0	20,086.6	12,556.4	20.4	61.1	98.62	-169.0	778.4	524.9	434.1	90.79	5.782	
12,675.0	12,472.2	20,104.9	12,557.0	20.4	61.2	97.85	-187.3	778.6	522.5	431.6	90.85	5.751	
12,700.0	12,485.3	20,126.6	12,557.8	20.5	61.4	96.91	-209.0	779.0	520.5	429.5	90.98	5.721	
12,725.0	12,497.3	20,139.0	12,558.3	20.5	61.5	96.47	-221.4	779.1	519.0	428.0	91.01	5.703 SF	
12,742.6	12,505.0	20,139.0	12,558.3	20.5	61.5	96.51	-221.4	779.1	518.7	427.8	90.89	5.707 CC, ES	
12,750.0	12,508.1	20,139.0	12,558.3	20.5	61.5	96.50	-221.4	779.1	518.7	427.9	90.82	5.712	
12,775.0	12,517.8	20,139.0	12,558.3	20.5	61.5	96.37	-221.4	779.1	519.8	429.3	90.51	5.743	
12,800.0	12,526.2	20,139.0	12,558.3	20.6	61.5	96.08	-221.4	779.1	522.2	432.1	90.07	5.798	
12,825.0	12,533.3	20,139.0	12,558.3	20.6	61.5	95.63	-221.4	779.1	526.0	436.4	89.50	5.876	
12,850.0	12,539.2	20,139.0	12,558.3	20.7	61.5	95.02	-221.4	779.1	531.0	442.2	88.80	5.979	
12,875.0	12,543.9	20,139.0	12,558.3	20.7	61.5	94.25	-221.4	779.1	537.2	449.2	87.98	6.106	
12,900.0	12,547.2	20,139.0	12,558.3	20.8	61.5	93.32	-221.4	779.1	544.6	457.6	87.04	6.257	
12,925.0	12,549.2	20,139.0	12,558.3	20.8	61.5	92.23	-221.4	779.1	553.1	467.1	86.01	6.431	
12,951.4	12,550.0	20,139.0	12,558.3	20.9	61.5	90.92	-221.4	779.1	563.2	478.4	84.82	6.640	
13,000.0	12,550.0	20,139.0	12,558.3	21.0	61.5	90.92	-221.4	779.1	584.5	502.1	82.45	7.089	
13,100.0	12,550.0	20,139.0	12,558.3	21.3	61.5	90.92	-221.4	779.1	637.8	560.5	77.29	8.252	
13,200.0	12,550.0	20,139.0	12,558.3	21.6	61.5	90.92	-221.4	779.1	701.4	629.1	72.27	9.705	
13,300.0	12,550.0	20,139.0	12,558.3	21.9	61.5	90.92	-221.4	779.1	772.7	705.0	67.75	11.406	
13,400.0	12,550.0	20,139.0	12,558.3	22.3	61.5	90.92	-221.4	779.1	849.8	786.0	63.84	13.312	
13,500.0	12,550.0	20,139.0	12,558.3	22.7	61.5	90.92	-221.4	779.1	931.3	870.8	60.53	15.385	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #801H - OWB - AWP

Offset Site Error: 3.0 usft

Survey Program: 100-Standard Keeper 104, 11783-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,325.0	12,194.7	19,742.3	12,321.0	20.4	59.2	-93.51	57.3	2,283.0	999.6	911.7	87.92	11.369	
12,350.0	12,218.7	19,747.2	12,320.6	20.4	59.2	-93.54	52.3	2,283.2	997.1	909.2	87.91	11.342	
12,375.0	12,242.3	19,753.3	12,320.2	20.4	59.3	-93.42	46.3	2,283.5	995.2	907.3	87.92	11.320	
12,400.0	12,265.4	19,762.0	12,319.5	20.4	59.3	-93.09	37.6	2,284.0	994.0	906.1	87.98	11.299	
12,425.0	12,288.0	19,770.5	12,318.8	20.4	59.4	-92.70	29.2	2,284.4	993.5	905.4	88.04	11.284	
12,436.8	12,298.5	19,775.8	12,318.4	20.4	59.5	-92.42	23.8	2,284.7	993.4	905.3	88.09	11.277 CC, ES	
12,450.0	12,310.0	19,782.1	12,317.8	20.4	59.5	-92.08	17.6	2,285.0	993.5	905.3	88.15	11.270	
12,475.0	12,331.4	19,794.9	12,316.7	20.4	59.6	-91.35	4.8	2,285.6	994.0	905.8	88.29	11.259	
12,500.0	12,352.0	19,808.8	12,315.4	20.4	59.7	-90.53	-9.0	2,286.2	995.1	906.7	88.45	11.250	
12,525.0	12,371.9	19,823.7	12,314.0	20.4	59.8	-89.61	-23.8	2,286.8	996.6	908.0	88.64	11.244	
12,550.0	12,391.0	19,839.6	12,312.3	20.4	59.9	-88.63	-39.6	2,287.5	998.5	909.7	88.84	11.240 SF	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

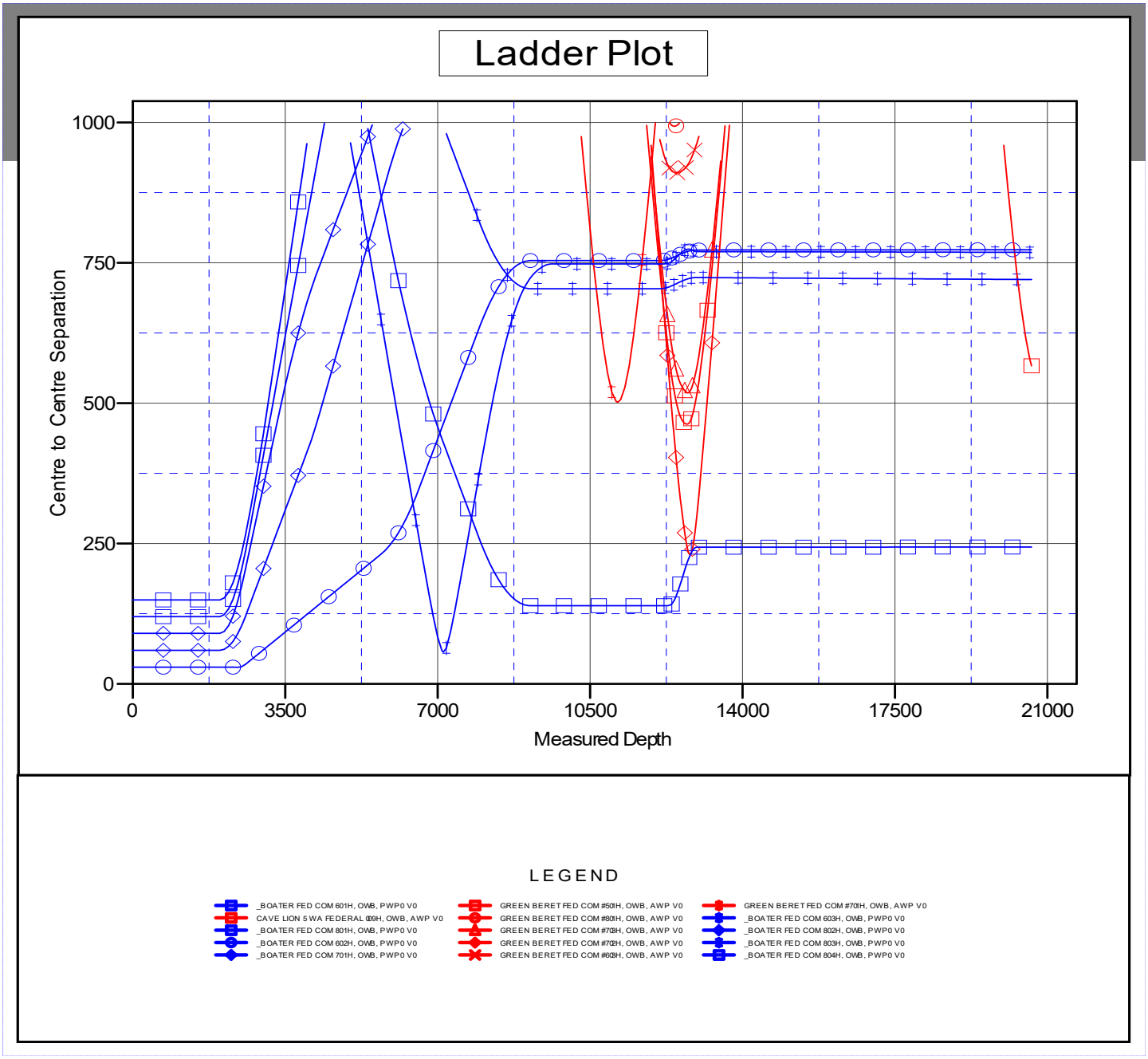
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3252.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 702H - Slot BOATER FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°



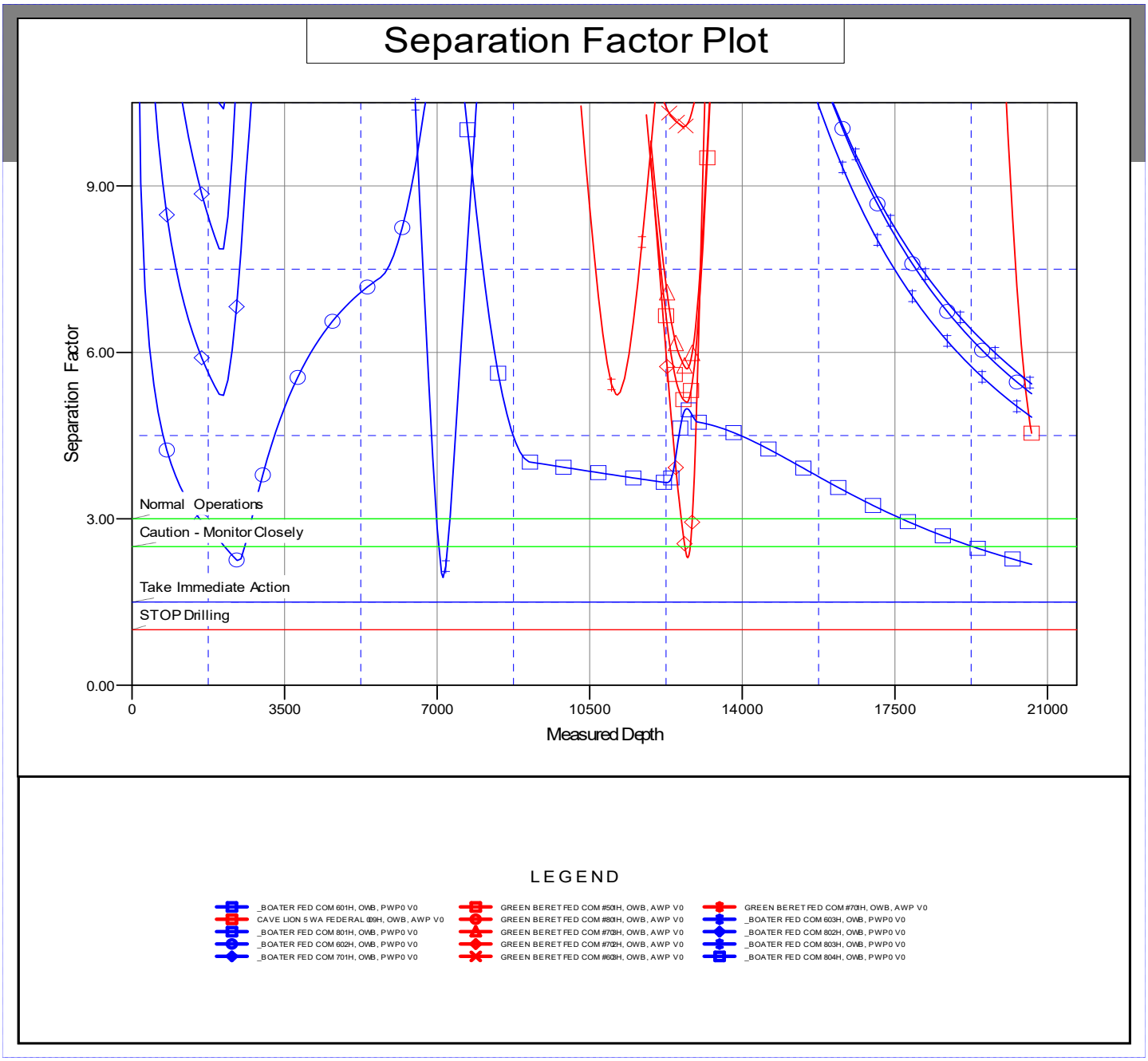
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _BOATER FED COM 702H - Slot BOATER FED COM 702H
Project:	LEA COUNTY SOUTHEAST	**TVD Reference:**	KB @ 3252.0usft
Reference Site:	BOATER FED COM PROJECT	**MD Reference:**	KB @ 3252.0usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	_BOATER FED COM 702H	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 usft	**Output errors are at**	2.00 sigma
Reference Wellbore	OWB	**Database:**	EDT 17 Permian Prod
Reference Design:	PWP0	**Offset TVD Reference:**	Reference Datum

Reference Depths are relative to KB @ 3252.0usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 702H - Slot BOATER FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°



COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

Well pad will be 850' X 785'

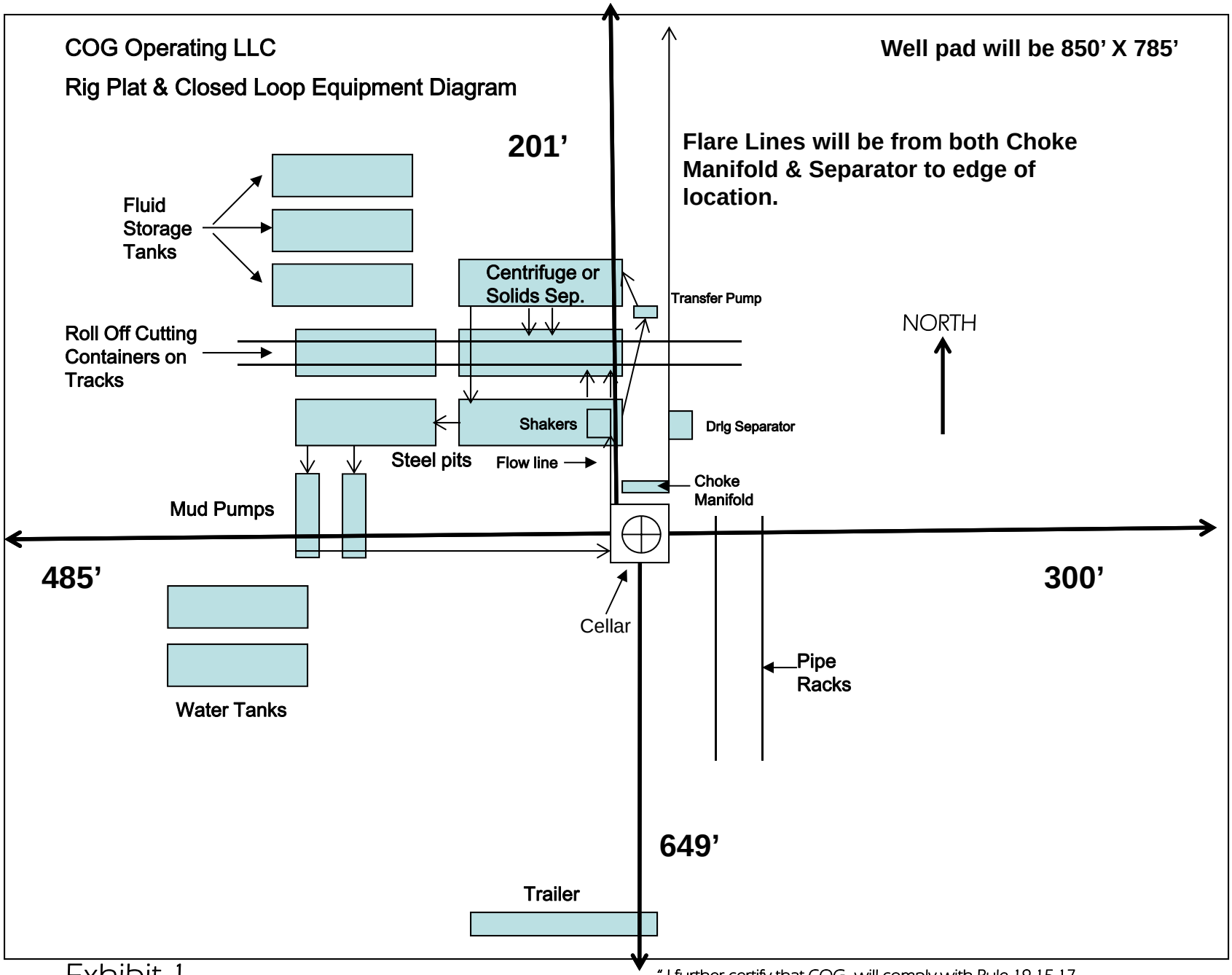


Exhibit 1

" I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: COG Operating LLC **OGRID: 229137** **Date: 07/14/2025**

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Boater Federal Com 601H	30-025-	E-29-25S-35E	2365 FNL & 1320 FWL	± 416	± 553	± 1052
Boater Federal Com 602H	30-025-	F-29-25S-35E	2365 FNL & 1410 FWL	± 519	± 690	± 1331
Boater Federal Com 603H	30-025-	G-29-25S-35E	2365 FNL & 1445 FEL	± 514	± 683	± 1282
Boater Federal Com 701H	30-025-	F-29-25S-35E	2365 FNL & 1380 FWL	± 516	± 689	± 1346
Boater Federal Com 702H	30-025-	F-29-25S-35E	2365 FNL & 1440 FWL	± 518	± 689	± 1298
Boater Federal Com 703H	30-025-	G-29-25S-35E	2365 FNL & 1385 FEL	± 447	± 594	± 1130
Boater Federal Com 801H	30-025-	E-29-25S-35E	2365 FNL & 1290 FWL	± 651	± 832	± 3007
Boater Federal Com 802H	30-025-	F-29-25S-35E	2365 FNL & 1350 FWL	± 655	± 835	± 3149
Boater Federal Com 803H	30-025-	G-29-25S-35E	2365 FNL & 1505 FEL	± 654	± 832	± 3183
Boater Federal Com 804H	30-025-	G-29-25S-35E	2365 FNL & 1475 FEL	± 649	± 829	± 3056
Boater Federal Com 805H	30-025-	G-29-25S-35E	2365 FNL & 1415 FEL	± 649	± 829	± 3056
Boater Federal Com 806H	30-025-	G-29-25S-35E	2365 FNL & 1355 FEL	± 649	± 829	± 3056

IV. Central Delivery Point Name: 29 L CTB 29-25S-35E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Boater Federal Com	Pending	± 02/01/2027	± 25 days from spud	TBD	TBD	TBD
601-603H, 701-703H, 801-806H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Stan Wagner
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	07/14/2025
Phone:	432-253-9685

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

Waste Minimization Plan

Per § 3162.3-1 Drilling applications and plans. Part J:

(1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.

   a. See attached Anticipated Production & Decline Curve

(2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.

   a. See attached Anticipated Production & Decline Curve

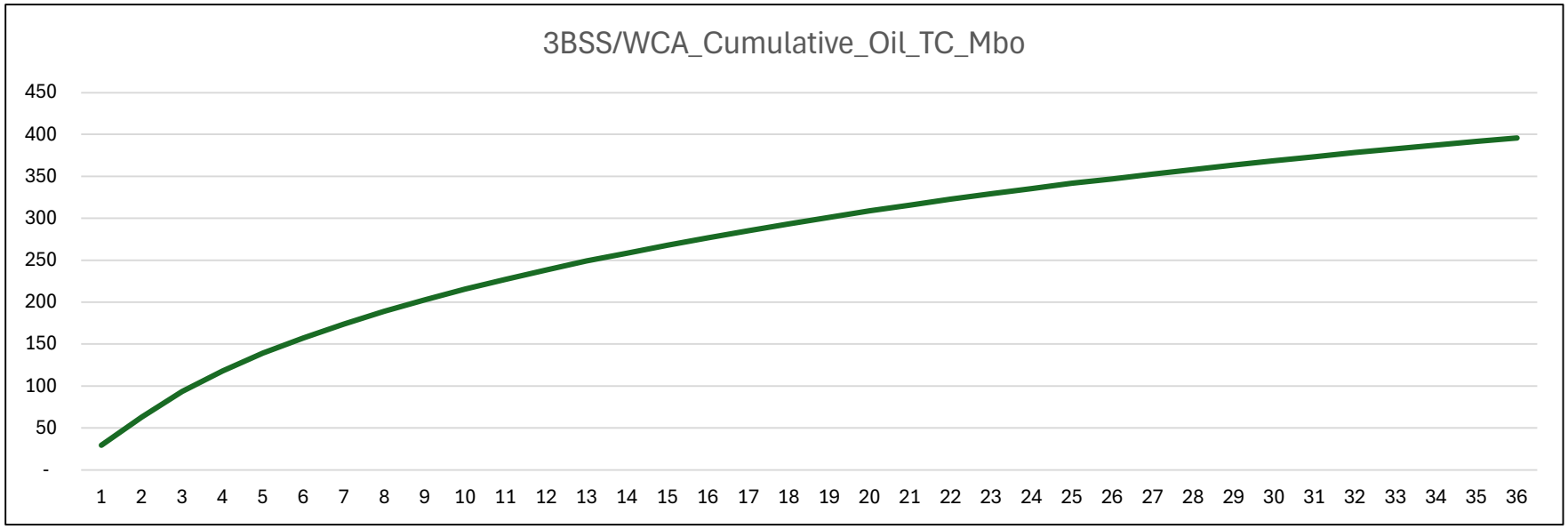
(3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.

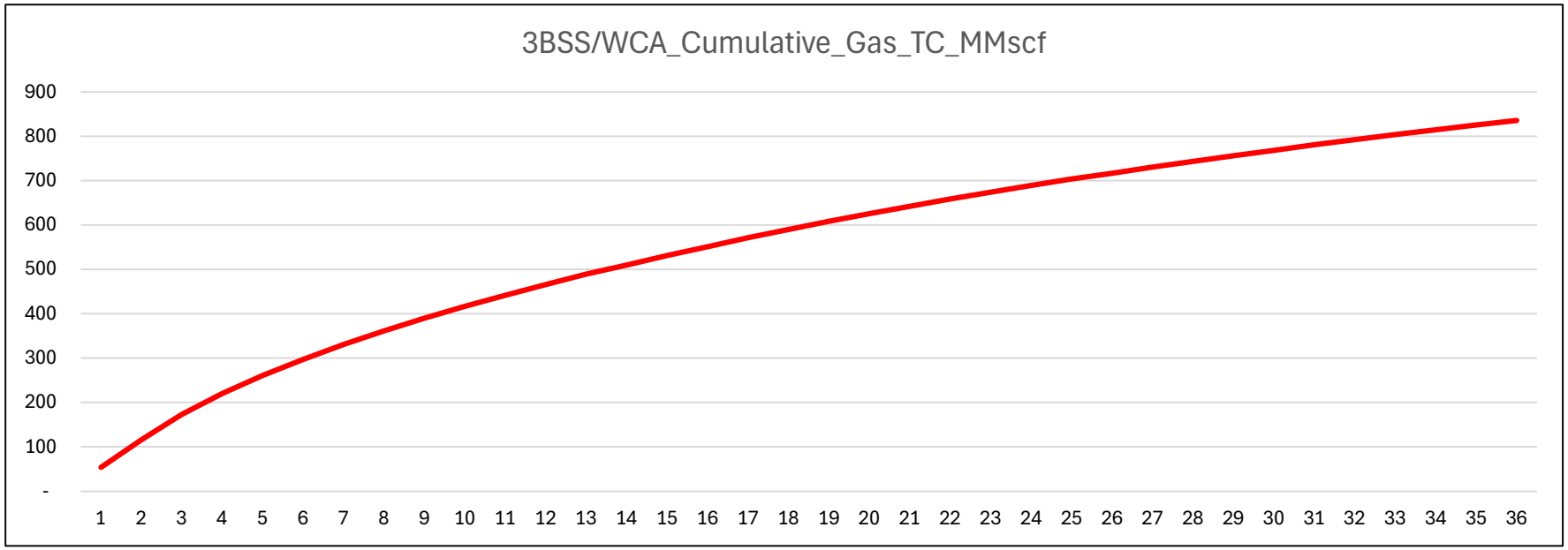
   a. See attached NMOCD – Natural Gas Management Plan

(4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.

   a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

Anticipated Production Decline Curve





PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 702H
LOCATION:	Section 29, T.25 S., R.35 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	(•) Yes	( ) No	
Potash	(•) None	( ) Secretary	( ) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Wellhead Variance	( ) Diverter		
Other	[ ] 4 String	[ ] Capitan Reef	[ ] WIPP
Other	[x] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[x] Contingency Cement Squeeze	[x] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[x] Offline Cementing	[x] Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1225 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Contingency Squeeze:

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

    - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M)** psi. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the

signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)
BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

Offline Cementing:
Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

☒ Eddy County
EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from

spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    iii. Manufacturer representative shall install the test plug for the initial BOP test.
    iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
    v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
    i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
    ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
    iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
    iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
    v. The results of the test shall be reported to the appropriate BLM office.
    vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent

service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/9/2025

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

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519707
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☑	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519707
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/24/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/24/2025
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	12/18/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/18/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/18/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/18/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/18/2025