

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-55646
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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.

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SENW / 2365 FNL / 1380 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102125 / LONG: -103.393618 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2540 FSL / 1430 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101097 / LONG: -103.393446 (TVD: 12543 feet, MD: 12750 feet)

PPP: NENW / 1 FNL / 1431 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094115 / LONG: -103.393446 (TVD: 12550 feet, MD: 15390 feet)

BHL: SESW / 50 FSL / 1430 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.079752 / LONG: -103.393429 (TVD: 12550 feet, MD: 20516 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- 55646	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3279.1'
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	1380 FWL	32.102125°N	103.393618°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		50 FSL	1430 FWL	32.079752°N	103.393429°W	LEA

Dedicated Acres 960	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code 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	1380 FWL	32.102125°N	103.393618°W	LEA

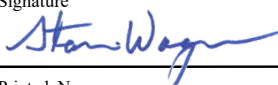
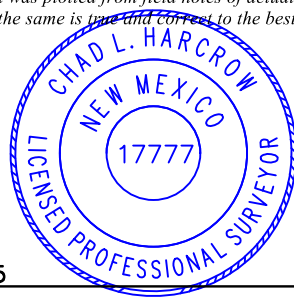
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	29	25-S	35-E		2540 FSL	1430 FWL	32.101097°N	103.393455°W	LEA

Last Take Point (LTP)

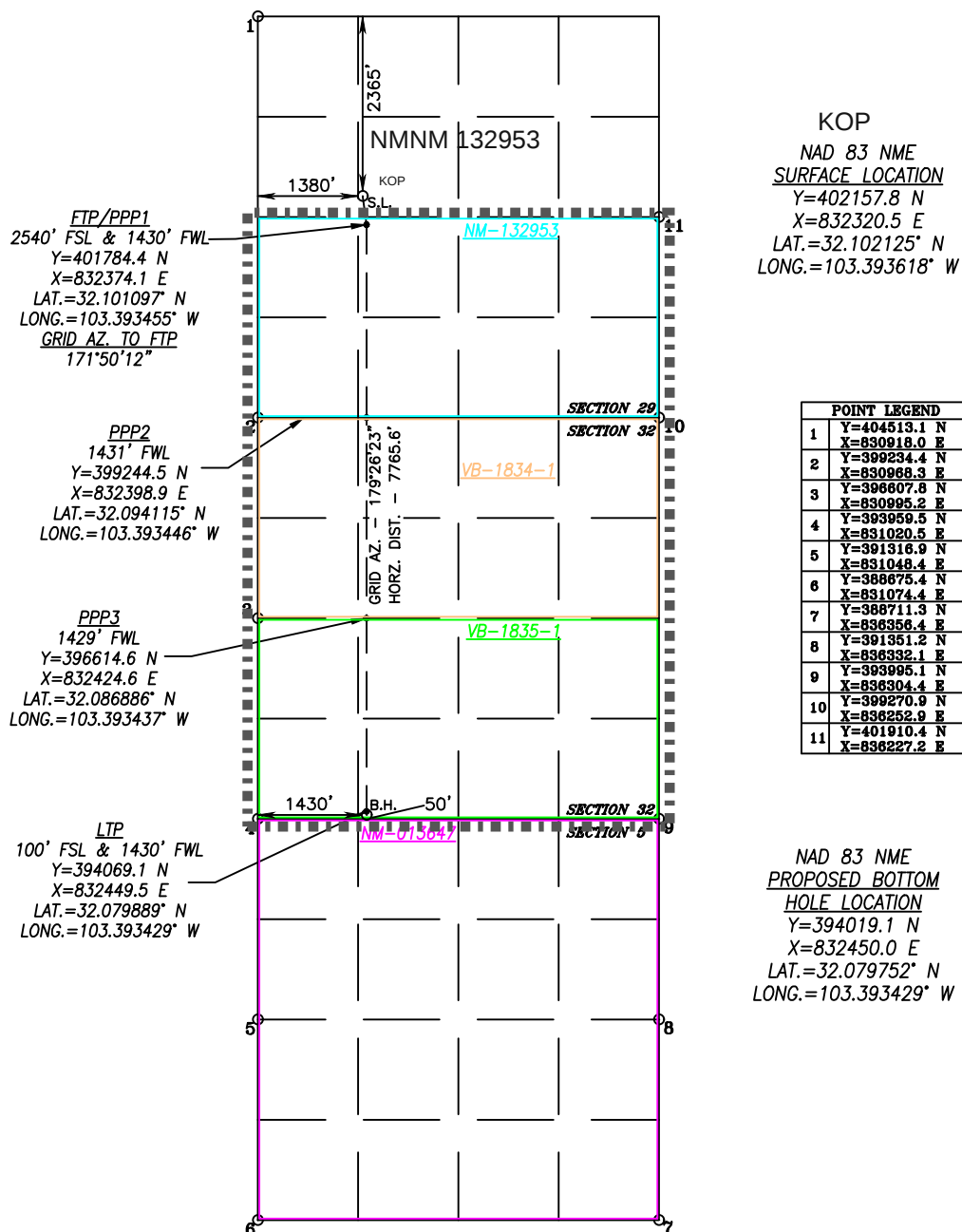
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		100 FSL	1430 FWL	32.079889°N	103.393429°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3280.2'
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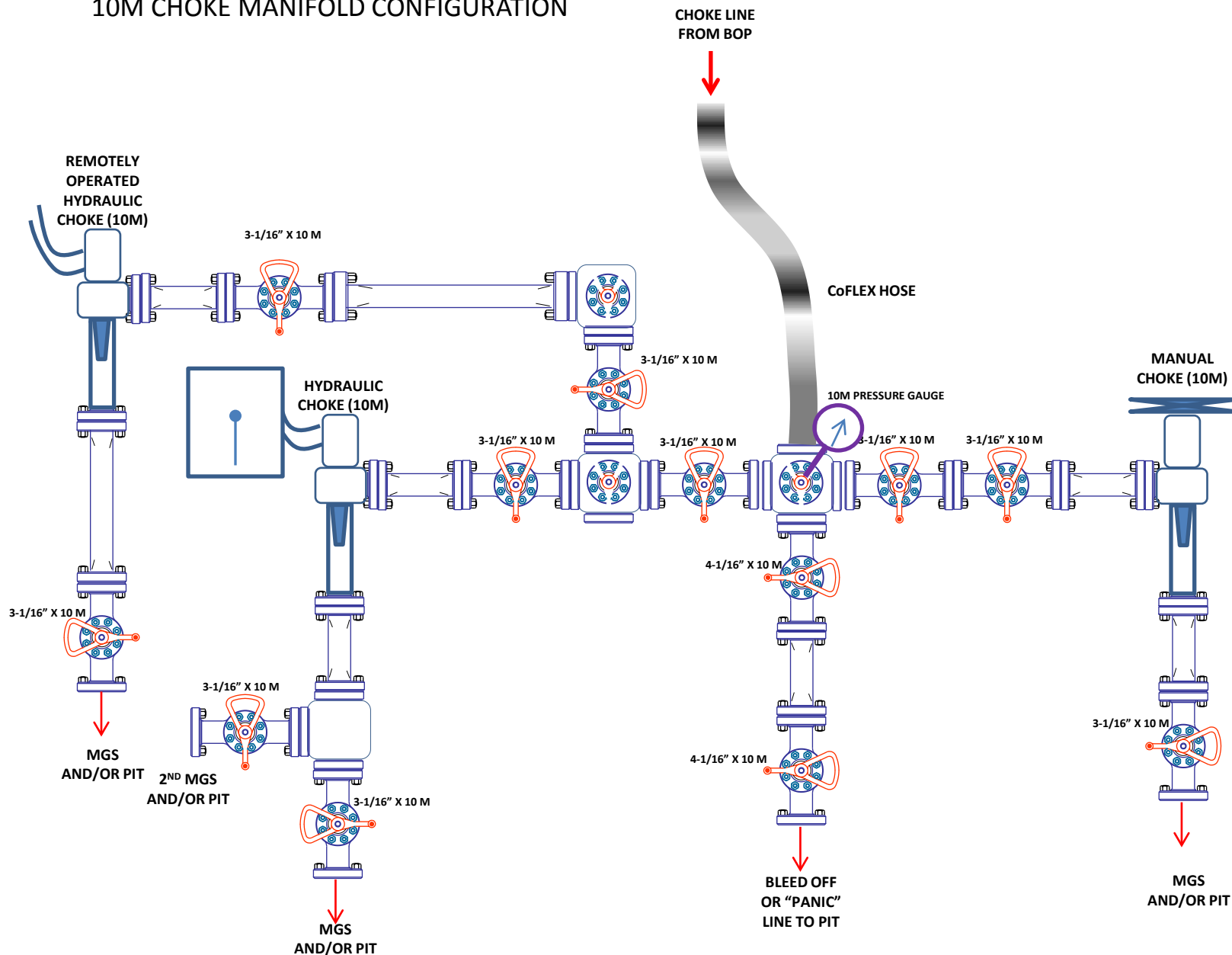
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.</i> <i>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.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature 	Date 7/7/25	Signature and Seal of Professional Surveyor  Chad Harcrow 6/6/25	
Printed Name Stan Wagner	Email Address	Certificate Number 17777	Date of Survey MAY 28, 2025
		W.O.#25-504	DRAWN BY: WN PAGE 1 OF 2

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.

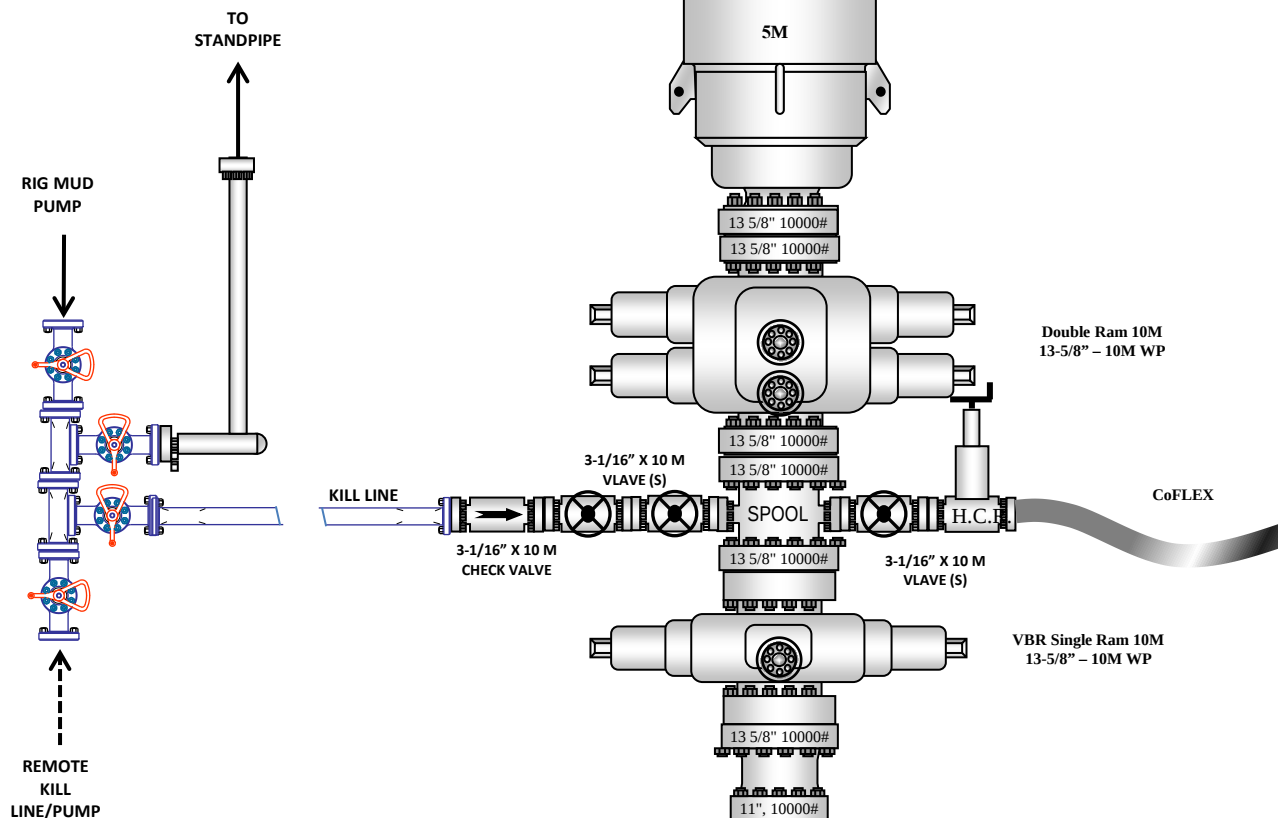
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



ConocoPhillips - Boater Federal Com 701H

1. Geologic Formations

TVD of Target:	12,550' EOL	Pilot hole depth:	N/A
MD at TD:	20,517'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	716	Water	
Top of Salt	875	Salt	
Base of Salt	5158	Salt	
Lamar	5278	Salt Water	
Bell Canyon	5283	Salt Water	
Cherry Canyon	6279	Oil/Gas	
Brushy Canyon	7960	Oil/Gas	
Bone Spring	9230	Oil/Gas	
1st Bone Spring Sand	10376	Oil/Gas	
2nd Bone Spring Sand	10907	Oil/Gas	
3rd Bone Spring Sand	12022	Oil/Gas	
Wolfcamp	12425	Oil/Gas	
Wolfcamp A	12545	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	725	10.75"	45.5	J55	BTC	6.30	8.09	21.67	24.13
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.47	1.03	2.98	3.01
8.750"	8200	11976	7.625"	29.7	P110-ICY	W513	2.85	1.56	3.00	1.80
6.75"	0	11776	5.5"	23	P110-CY	BTC	3.39	2.05	2.69	2.69
6.75"	11776	20,517	5.5"	23	P110-CY	W441	3.28	2.05	2.53	2.29
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

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

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1176	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	555	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	651	12.7	1.68	9.09	72	Lead: Class C
	835	14.5	1.18	5.26	19	Tail: Class H

Intermediate cement job to be performed offline.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Stage tool ~50' into Lamar if required.

Casing String	TOC	% Excess
Surface	0'	50% in OH
Int Stg 1	0'	50% in OH
Int Stg 2	0'	20% in OH
Production	11,476'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	408	15.6	1.216	5.28	6	Stage 1 Lead: Class H
	134	16.2	1.123	4.6	11	Stage 1 Tail: Class H
Bradenhead Stage 2	2500	14.8	1.5	7.2	4	Bradenhead: Thixotropic Class C
	400	14.8	1.33	6.4	5	Top Out: Class C
Prod	651	12.7	1.68	9.09	72	Lead: Class C
	835	14.5	1.18	5.26	19	Tail: Class H

If conditions dictate, an offline bradenhead cement job will be performed to ensure cement to surface.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50% in OH
BH Stg 1	0'	50% in OH
BH Stg 2	7,960'	122%
Production	11,476'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

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*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

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.

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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.6 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9 - 13	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run 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	

ConocoPhillips - Boater Federal Com 701H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8485 psi at 12550' TVD
Abnormal Temperature	NO 180 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

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 (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S 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 H₂S 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. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S 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 H₂S 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

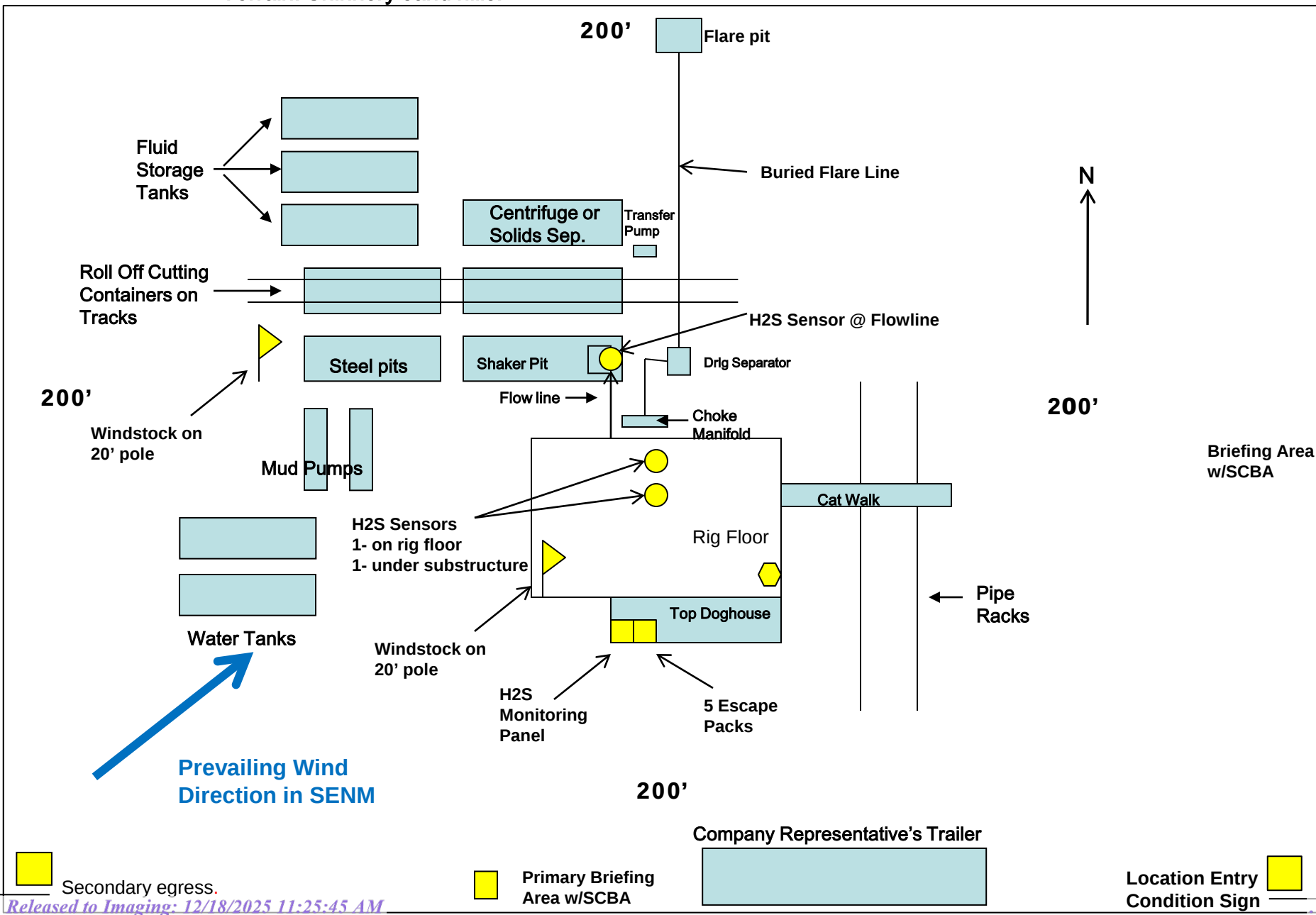
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
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

COC Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

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



DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 701H - Slot BOATER FED COM 701H

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 701H - Slot BOATER FED COM 701H
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 701H	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 701H - Slot BOATER FED COM 701H					
Well Position	+N/-S	0.0 usft	Northing:	402,102.62 usft	Latitude:	32° 6' 7.215 N
	+E/-W	0.0 usft	Easting:	791,235.19 usft	Longitude:	103° 23' 34.169 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	47,142.31567337

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	179.81

Plan Survey Tool Program	Date	4/24/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,516.6 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 701H - Slot BOATER FED COM 701H
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 701H	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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,193.1	3.86	280.85	4,192.9	1.2	-6.4	2.00	2.00	0.00	280.85	
5,717.8	3.86	280.85	5,714.2	20.6	-107.2	0.00	0.00	0.00	0.00	
6,103.9	0.00	0.00	6,100.0	23.0	-120.0	1.00	-1.00	0.00	180.00	
12,076.4	0.00	0.00	12,072.5	23.0	-120.0	0.00	0.00	0.00	0.00	
12,826.4	90.00	179.44	12,550.0	-454.4	-115.3	12.00	12.00	0.00	179.44	
12,916.4	90.00	179.44	12,550.0	-544.4	-114.5	0.00	0.00	0.00	0.00	
13,288.4	90.00	172.00	12,550.0	-915.1	-86.7	2.00	0.00	-2.00	-90.00	
13,438.4	90.00	172.00	12,550.0	-1,063.7	-65.8	0.00	0.00	0.00	0.00	
13,810.4	90.00	179.44	12,550.0	-1,434.4	-38.1	2.00	0.00	2.00	90.00	
20,516.6	90.00	179.44	12,550.0	-8,140.2	27.4	0.00	0.00	0.00	0.00	

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Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	North Reference:	Grid
Well:	_BOATER FED COM 701H	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	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	2.00	280.85	4,100.0	0.3	-1.7	-0.3	2.00	2.00	0.00	
4,193.1	3.86	280.85	4,192.9	1.2	-6.4	-1.2	2.00	2.00	0.00	
4,200.0	3.86	280.85	4,199.8	1.3	-6.8	-1.3	0.00	0.00	0.00	
4,300.0	3.86	280.85	4,299.6	2.6	-13.5	-2.6	0.00	0.00	0.00	
4,400.0	3.86	280.85	4,399.4	3.8	-20.1	-3.9	0.00	0.00	0.00	
4,500.0	3.86	280.85	4,499.2	5.1	-26.7	-5.2	0.00	0.00	0.00	
4,600.0	3.86	280.85	4,598.9	6.4	-33.3	-6.5	0.00	0.00	0.00	
4,700.0	3.86	280.85	4,698.7	7.7	-39.9	-7.8	0.00	0.00	0.00	
4,800.0	3.86	280.85	4,798.5	8.9	-46.5	-9.1	0.00	0.00	0.00	
4,900.0	3.86	280.85	4,898.2	10.2	-53.1	-10.4	0.00	0.00	0.00	
5,000.0	3.86	280.85	4,998.0	11.5	-59.8	-11.7	0.00	0.00	0.00	
5,100.0	3.86	280.85	5,097.8	12.7	-66.4	-12.9	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 701H - Slot BOATER FED COM 701H
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 701H	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	3.86	280.85	5,197.6	14.0	-73.0	-14.2	0.00	0.00	0.00	
5,300.0	3.86	280.85	5,297.3	15.3	-79.6	-15.5	0.00	0.00	0.00	
5,400.0	3.86	280.85	5,397.1	16.5	-86.2	-16.8	0.00	0.00	0.00	
5,500.0	3.86	280.85	5,496.9	17.8	-92.8	-18.1	0.00	0.00	0.00	
5,600.0	3.86	280.85	5,596.7	19.1	-99.4	-19.4	0.00	0.00	0.00	
5,700.0	3.86	280.85	5,696.4	20.3	-106.1	-20.7	0.00	0.00	0.00	
5,717.8	3.86	280.85	5,714.2	20.6	-107.2	-20.9	0.00	0.00	0.00	
5,800.0	3.04	280.85	5,796.2	21.5	-112.1	-21.9	1.00	-1.00	0.00	
5,900.0	2.04	280.85	5,896.1	22.3	-116.4	-22.7	1.00	-1.00	0.00	
6,000.0	1.04	280.85	5,996.1	22.8	-119.1	-23.2	1.00	-1.00	0.00	
6,100.0	0.04	280.85	6,096.1	23.0	-120.0	-23.4	1.00	-1.00	0.00	
6,103.9	0.00	0.00	6,100.0	23.0	-120.0	-23.4	1.00	-1.00	0.00	
6,200.0	0.00	0.00	6,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,096.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,096.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,096.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,096.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	

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Planning Report

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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 701H	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	10,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,096.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,196.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,296.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,396.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,496.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,596.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,696.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,796.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,896.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,996.1	23.0	-120.0	-23.4	0.00	0.00	0.00	
12,076.4	0.00	0.00	12,072.5	23.0	-120.0	-23.4	0.00	0.00	0.00	
12,100.0	2.83	179.44	12,096.1	22.4	-120.0	-22.8	12.00	12.00	0.00	
12,200.0	14.83	179.44	12,194.7	7.1	-119.8	-7.5	12.00	12.00	0.00	
12,300.0	26.83	179.44	12,288.0	-28.4	-119.5	28.0	12.00	12.00	0.00	
12,400.0	38.83	179.44	12,371.9	-82.5	-119.0	82.1	12.00	12.00	0.00	
12,500.0	50.83	179.44	12,442.7	-152.9	-118.3	152.5	12.00	12.00	0.00	
12,600.0	62.83	179.44	12,497.3	-236.4	-117.5	236.0	12.00	12.00	0.00	
12,700.0	74.83	179.44	12,533.3	-329.5	-116.6	329.1	12.00	12.00	0.00	
12,800.0	86.83	179.44	12,549.2	-428.1	-115.6	427.7	12.00	12.00	0.00	
12,826.4	90.00	179.44	12,550.0	-454.4	-115.3	454.1	12.00	12.00	0.00	
12,900.0	90.00	179.44	12,550.0	-528.0	-114.6	527.7	0.00	0.00	0.00	
12,916.4	90.00	179.44	12,550.0	-544.4	-114.5	544.0	0.00	0.00	0.00	
13,000.0	90.00	177.77	12,550.0	-628.0	-112.4	627.6	2.00	0.00	-2.00	
13,100.0	90.00	175.77	12,550.0	-727.8	-106.8	727.5	2.00	0.00	-2.00	
13,200.0	90.00	173.77	12,550.0	-827.4	-97.7	827.1	2.00	0.00	-2.00	
13,288.4	90.00	172.00	12,550.0	-915.1	-86.7	914.8	2.00	0.00	-2.00	
13,300.0	90.00	172.00	12,550.0	-926.6	-85.1	926.3	0.00	0.00	0.00	
13,400.0	90.00	172.00	12,550.0	-1,025.7	-71.2	1,025.4	0.00	0.00	0.00	
13,438.4	90.00	172.00	12,550.0	-1,063.7	-65.8	1,063.5	0.00	0.00	0.00	
13,500.0	90.00	173.23	12,550.0	-1,124.8	-57.9	1,124.6	2.00	0.00	2.00	
13,600.0	90.00	175.23	12,550.0	-1,224.3	-47.9	1,224.1	2.00	0.00	2.00	
13,700.0	90.00	177.23	12,550.0	-1,324.0	-41.3	1,323.9	2.00	0.00	2.00	
13,800.0	90.00	179.23	12,550.0	-1,424.0	-38.2	1,423.8	2.00	0.00	2.00	
13,810.4	90.00	179.44	12,550.0	-1,434.4	-38.1	1,434.3	2.00	0.00	2.00	
13,900.0	90.00	179.44	12,550.0	-1,524.0	-37.2	1,523.8	0.00	0.00	0.00	
14,000.0	90.00	179.44	12,550.0	-1,624.0	-36.2	1,623.8	0.00	0.00	0.00	
14,100.0	90.00	179.44	12,550.0	-1,724.0	-35.3	1,723.8	0.00	0.00	0.00	
14,200.0	90.00	179.44	12,550.0	-1,824.0	-34.3	1,823.8	0.00	0.00	0.00	
14,300.0	90.00	179.44	12,550.0	-1,924.0	-33.3	1,923.8	0.00	0.00	0.00	
14,400.0	90.00	179.44	12,550.0	-2,024.0	-32.3	2,023.8	0.00	0.00	0.00	
14,500.0	90.00	179.44	12,550.0	-2,123.9	-31.4	2,123.8	0.00	0.00	0.00	
14,600.0	90.00	179.44	12,550.0	-2,223.9	-30.4	2,223.8	0.00	0.00	0.00	
14,700.0	90.00	179.44	12,550.0	-2,323.9	-29.4	2,323.8	0.00	0.00	0.00	
14,800.0	90.00	179.44	12,550.0	-2,423.9	-28.4	2,423.8	0.00	0.00	0.00	
14,900.0	90.00	179.44	12,550.0	-2,523.9	-27.4	2,523.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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)
15,000.0	90.00	179.44	12,550.0	-2,623.9	-26.5	2,623.8	0.00	0.00	0.00
15,100.0	90.00	179.44	12,550.0	-2,723.9	-25.5	2,723.8	0.00	0.00	0.00
15,200.0	90.00	179.44	12,550.0	-2,823.9	-24.5	2,823.8	0.00	0.00	0.00
15,300.0	90.00	179.44	12,550.0	-2,923.9	-23.5	2,923.8	0.00	0.00	0.00
15,400.0	90.00	179.44	12,550.0	-3,023.9	-22.6	3,023.8	0.00	0.00	0.00
15,500.0	90.00	179.44	12,550.0	-3,123.9	-21.6	3,123.8	0.00	0.00	0.00
15,600.0	90.00	179.44	12,550.0	-3,223.9	-20.6	3,223.8	0.00	0.00	0.00
15,700.0	90.00	179.44	12,550.0	-3,323.9	-19.6	3,323.8	0.00	0.00	0.00
15,800.0	90.00	179.44	12,550.0	-3,423.9	-18.7	3,423.8	0.00	0.00	0.00
15,900.0	90.00	179.44	12,550.0	-3,523.9	-17.7	3,523.8	0.00	0.00	0.00
16,000.0	90.00	179.44	12,550.0	-3,623.9	-16.7	3,623.8	0.00	0.00	0.00
16,100.0	90.00	179.44	12,550.0	-3,723.9	-15.7	3,723.8	0.00	0.00	0.00
16,200.0	90.00	179.44	12,550.0	-3,823.9	-14.8	3,823.8	0.00	0.00	0.00
16,300.0	90.00	179.44	12,550.0	-3,923.9	-13.8	3,923.8	0.00	0.00	0.00
16,400.0	90.00	179.44	12,550.0	-4,023.9	-12.8	4,023.8	0.00	0.00	0.00
16,500.0	90.00	179.44	12,550.0	-4,123.9	-11.8	4,123.8	0.00	0.00	0.00
16,600.0	90.00	179.44	12,550.0	-4,223.8	-10.8	4,223.8	0.00	0.00	0.00
16,700.0	90.00	179.44	12,550.0	-4,323.8	-9.9	4,323.8	0.00	0.00	0.00
16,800.0	90.00	179.44	12,550.0	-4,423.8	-8.9	4,423.8	0.00	0.00	0.00
16,900.0	90.00	179.44	12,550.0	-4,523.8	-7.9	4,523.8	0.00	0.00	0.00
17,000.0	90.00	179.44	12,550.0	-4,623.8	-6.9	4,623.8	0.00	0.00	0.00
17,100.0	90.00	179.44	12,550.0	-4,723.8	-6.0	4,723.8	0.00	0.00	0.00
17,200.0	90.00	179.44	12,550.0	-4,823.8	-5.0	4,823.8	0.00	0.00	0.00
17,300.0	90.00	179.44	12,550.0	-4,923.8	-4.0	4,923.8	0.00	0.00	0.00
17,400.0	90.00	179.44	12,550.0	-5,023.8	-3.0	5,023.8	0.00	0.00	0.00
17,500.0	90.00	179.44	12,550.0	-5,123.8	-2.1	5,123.8	0.00	0.00	0.00
17,600.0	90.00	179.44	12,550.0	-5,223.8	-1.1	5,223.8	0.00	0.00	0.00
17,700.0	90.00	179.44	12,550.0	-5,323.8	-0.1	5,323.8	0.00	0.00	0.00
17,800.0	90.00	179.44	12,550.0	-5,423.8	0.9	5,423.8	0.00	0.00	0.00
17,900.0	90.00	179.44	12,550.0	-5,523.8	1.9	5,523.8	0.00	0.00	0.00
18,000.0	90.00	179.44	12,550.0	-5,623.8	2.8	5,623.8	0.00	0.00	0.00
18,100.0	90.00	179.44	12,550.0	-5,723.8	3.8	5,723.8	0.00	0.00	0.00
18,200.0	90.00	179.44	12,550.0	-5,823.8	4.8	5,823.8	0.00	0.00	0.00
18,300.0	90.00	179.44	12,550.0	-5,923.8	5.8	5,923.8	0.00	0.00	0.00
18,400.0	90.00	179.44	12,550.0	-6,023.8	6.7	6,023.8	0.00	0.00	0.00
18,500.0	90.00	179.44	12,550.0	-6,123.8	7.7	6,123.7	0.00	0.00	0.00
18,600.0	90.00	179.44	12,550.0	-6,223.8	8.7	6,223.7	0.00	0.00	0.00
18,700.0	90.00	179.44	12,550.0	-6,323.7	9.7	6,323.7	0.00	0.00	0.00
18,800.0	90.00	179.44	12,550.0	-6,423.7	10.6	6,423.7	0.00	0.00	0.00
18,900.0	90.00	179.44	12,550.0	-6,523.7	11.6	6,523.7	0.00	0.00	0.00
19,000.0	90.00	179.44	12,550.0	-6,623.7	12.6	6,623.7	0.00	0.00	0.00
19,100.0	90.00	179.44	12,550.0	-6,723.7	13.6	6,723.7	0.00	0.00	0.00
19,200.0	90.00	179.44	12,550.0	-6,823.7	14.6	6,823.7	0.00	0.00	0.00
19,300.0	90.00	179.44	12,550.0	-6,923.7	15.5	6,923.7	0.00	0.00	0.00
19,400.0	90.00	179.44	12,550.0	-7,023.7	16.5	7,023.7	0.00	0.00	0.00
19,500.0	90.00	179.44	12,550.0	-7,123.7	17.5	7,123.7	0.00	0.00	0.00
19,600.0	90.00	179.44	12,550.0	-7,223.7	18.5	7,223.7	0.00	0.00	0.00
19,700.0	90.00	179.44	12,550.0	-7,323.7	19.4	7,323.7	0.00	0.00	0.00
19,800.0	90.00	179.44	12,550.0	-7,423.7	20.4	7,423.7	0.00	0.00	0.00
19,900.0	90.00	179.44	12,550.0	-7,523.7	21.4	7,523.7	0.00	0.00	0.00
20,000.0	90.00	179.44	12,550.0	-7,623.7	22.4	7,623.7	0.00	0.00	0.00
20,100.0	90.00	179.44	12,550.0	-7,723.7	23.3	7,723.7	0.00	0.00	0.00
20,200.0	90.00	179.44	12,550.0	-7,823.7	24.3	7,823.7	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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)	
20,300.0	90.00	179.44	12,550.0	-7,923.7	25.3	7,923.7	0.00	0.00	0.00	
20,400.0	90.00	179.44	12,550.0	-8,023.7	26.3	8,023.7	0.00	0.00	0.00	
20,500.0	90.00	179.44	12,550.0	-8,123.7	27.2	8,123.7	0.00	0.00	0.00	
20,516.6	90.00	179.44	12,550.0	-8,140.2	27.4	8,140.3	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
- hit/miss target										
- Shape								Longitude		
FTP_BOATER FED COI	0.00	0.00	12,550.0	-376.9	-48.2	401,725.74	791,187.04	32° 6' 3.489 N		
- plan misses target center by 68.2usft at 12750.2usft MD (12543.9 TVD, -378.5 N, -116.1 E)								103° 23' 34.767 W		
- Circle (radius 50.0)										
LTP_BOATER FED COM	90.00	179.44	12,550.0	-8,090.2	26.9	394,012.40	791,262.12	32° 4' 47.157 N		
- plan hits target center								103° 23' 34.676 W		
- Circle (radius 50.0)										
PBHL_BOATER FED C	0.00	359.44	12,550.0	-8,140.2	27.4	393,962.40	791,262.60	32° 4' 46.663 N		
- plan hits target center								103° 23' 34.675 W		
- Rectangle (sides W100.0 H7,764.0 D20.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
20,516.6	12,550.0	5-1/2" Production Casing		5-1/2	6

DELAWARE BASIN EAST

**LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 701H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	20,516.6	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corri	

Summary						
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
BOATER FED COM PROJECT						
_BOATER FED COM 601H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245 CC, ES	
_BOATER FED COM 601H - OWB - PWP0	2,100.0	2,097.9	61.7	49.9	5.225 SF	
_BOATER FED COM 602H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623 Normal Operations, CC, ES, SF	
_BOATER FED COM 603H - OWB - PWP0					Out of range	
_BOATER FED COM 702H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245 CC, ES	
_BOATER FED COM 702H - OWB - PWP0	2,100.0	2,097.9	61.7	49.9	5.226 SF	
_BOATER FED COM 703H - OWB - PWP0					Out of range	
_BOATER FED COM 801H - OWB - PWP0	2,000.0	2,000.0	89.7	78.3	7.843 CC, ES	
_BOATER FED COM 801H - OWB - PWP0	2,100.0	2,096.9	91.4	79.6	7.743 SF	
_BOATER FED COM 802H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623 Normal Operations, CC, ES	
_BOATER FED COM 802H - OWB - PWP0	20,516.6	20,726.1	296.0	176.2	2.470 Caution - Monitor Closely, SF	
_BOATER FED COM 803H - OWB - PWP0	13,809.9	14,289.7	690.6	643.4	14.642 CC	
_BOATER FED COM 803H - OWB - PWP0	20,516.6	20,996.4	691.7	550.3	4.891 ES, SF	
_BOATER FED COM 804H - OWB - PWP0					Out of range	
_BOATER FED COM 805H - OWB - PWP0					Out of range	
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 008H - OWB - AWP	20,516.6	17,261.0	308.6	212.3	3.205 CC, ES, SF	
CAVE LION 5 TB FEDERAL 015H - OWB - AWP						Out of range
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	20,516.6	17,619.0	878.7	757.0	7.219 CC, ES, SF	
CAVE LION 5 WC FEDERAL 002H - OWB - AWP	20,516.6	17,593.0	901.2	826.9	12.126 CC, ES, SF	
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP	20,516.6	17,503.0	491.4	366.4	3.932 CC, ES, SF	
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
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5						Out of range
CHARLIE MURPHY 6 FC (18H, 15H, 14H, 12H)						
CHARLIE MURPHY 6 TB FC 14H (MRO) - CHARLIE MU						Out of range
CHARLIE MURPHY 6 WXY FC 18H (MRO) - CHARLIE M						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
GREEN BERET FED COM #501H - OWB - AWP						Out of range
GREEN BERET FED COM #603H - OWB - AWP	12,291.7	19,718.3	558.2	471.6	6.444 CC, ES	
GREEN BERET FED COM #603H - OWB - AWP	12,325.0	19,732.9	559.0	472.3	6.441 SF	
GREEN BERET FED COM #701H - OWB - AWP						Out of range
GREEN BERET FED COM #702H - OWB - AWP						Out of range
GREEN BERET FED COM #703H - OWB - AWP	12,600.0	20,137.2	958.7	869.6	10.765 SF	
GREEN BERET FED COM #703H - OWB - AWP	12,620.0	20,139.0	958.4	869.4	10.766 CC, ES	
GREEN BERET FED COM #704H - OWB - AWP	12,600.0	20,274.0	136.5	46.7	1.521 Caution - Monitor Closely, ES, SF	
GREEN BERET FED COM #704H - OWB - AWP	12,611.2	20,274.0	136.0	47.2	1.531 Caution - Monitor Closely, CC	
GREEN BERET FED COM #705H - OWB - AWP	12,625.0	20,073.0	678.3	592.0	7.862 CC, ES, SF	
GREEN BERET FED COM #802H - OWB - AWP	12,625.0	20,493.0	376.8	283.7	4.047 SF	
GREEN BERET FED COM #802H - OWB - AWP	12,650.0	20,493.0	374.2	282.2	4.067 ES	
GREEN BERET FED COM #802H - OWB - AWP	12,664.2	20,493.0	373.9	282.6	4.095 CC	
PITCHBLEND FEDERAL PROJECT						
PITCHBLEND 19 30 FEDERAL #208H - OWB - AWP						Out of range
PITCHBLEND 19 30 FEDERAL #358H - OWB - AWP						Out of range
SQUARE BILL FED COM #1H - OWB - AWP						Out of range
SQUARE BILL FED COM #21Y - OWB - AWP						Out of range
SQUARE BILL FED COM #22H - 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)	Vertical Depth (usft)	Offset Measured Depth (usft)	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	-0.4	-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	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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				Rule Assigned:									Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,100.0	2,100.0	2,097.9	2,097.9	5.7	5.8	-90.35	-0.4	-61.7	61.7	49.9	11.81	5.225 SF		
2,200.0	2,200.0	2,195.6	2,195.4	5.9	6.0	-90.23	-0.3	-66.7	66.8	54.7	12.16	5.494		
2,300.0	2,300.0	2,292.8	2,292.3	6.0	6.2	-90.05	-0.1	-74.9	75.3	62.8	12.52	6.017		
2,400.0	2,400.0	2,389.4	2,388.2	6.2	6.5	-89.87	0.2	-86.4	87.2	74.3	12.88	6.770		
2,500.0	2,500.0	2,485.1	2,482.7	6.3	6.8	-89.70	0.5	-101.0	102.4	89.2	13.26	7.727		
2,600.0	2,600.0	2,579.7	2,575.7	6.4	7.0	-89.54	0.9	-118.4	120.9	107.3	13.64	8.866		
2,700.0	2,700.0	2,674.1	2,667.9	6.6	7.3	-89.41	1.4	-138.8	142.5	128.6	13.95	10.215		
2,800.0	2,800.0	2,771.5	2,762.8	6.7	7.5	-89.31	1.9	-160.8	165.0	150.7	14.35	11.500		
2,900.0	2,900.0	2,868.9	2,857.7	6.8	7.8	-89.23	2.4	-182.7	187.6	172.8	14.79	12.684		
3,000.0	3,000.0	2,966.3	2,952.6	7.0	8.1	-89.17	3.0	-204.7	210.1	194.9	15.25	13.783		
3,100.0	3,100.0	3,063.8	3,047.5	7.1	8.4	-89.12	3.5	-226.7	232.7	217.0	15.72	14.803		
3,200.0	3,200.0	3,161.2	3,142.5	7.2	8.8	-89.08	4.0	-248.6	255.2	239.0	16.21	15.747		
3,300.0	3,300.0	3,258.6	3,237.4	7.4	9.1	-89.05	4.5	-270.6	277.8	261.1	16.71	16.623		
3,400.0	3,400.0	3,356.0	3,332.3	7.5	9.5	-89.02	5.0	-292.5	300.3	283.1	17.23	17.434		
3,500.0	3,500.0	3,453.5	3,427.2	7.6	9.8	-88.99	5.5	-314.5	322.9	305.1	17.75	18.186		
3,600.0	3,600.0	3,550.9	3,522.1	7.8	10.2	-88.97	6.0	-336.5	345.4	327.1	18.29	18.884		
3,700.0	3,700.0	3,648.3	3,617.0	7.9	10.6	-88.95	6.5	-358.4	367.9	349.1	18.84	19.531		
3,800.0	3,800.0	3,745.7	3,712.0	8.0	11.0	-88.94	7.1	-380.4	390.5	371.1	19.40	20.133		
3,900.0	3,900.0	3,843.2	3,806.9	8.1	11.4	-88.92	7.6	-402.3	413.0	393.1	19.96	20.693		
4,000.0	4,000.0	3,940.6	3,901.8	8.2	11.8	-88.91	8.1	-424.3	435.6	415.0	20.53	21.214		
4,100.0	4,100.0	4,038.4	3,997.1	8.4	12.2	-9.71	8.6	-446.3	456.4	435.3	21.15	21.585		
4,193.1	4,192.9	4,130.0	4,086.3	8.5	12.6	-9.74	9.1	-467.0	472.8	451.1	21.70	21.787		
4,200.0	4,199.8	4,136.8	4,093.0	8.5	12.6	-9.75	9.1	-468.5	473.9	452.2	21.74	21.804		
4,300.0	4,299.6	4,235.5	4,189.2	8.7	13.0	-9.87	9.6	-490.8	490.0	467.6	22.38	21.890		
4,400.0	4,399.4	4,334.2	4,285.3	8.8	13.4	-9.98	10.2	-513.0	506.0	483.0	22.97	22.028		
4,500.0	4,499.2	4,432.9	4,381.5	8.9	13.9	-10.09	10.7	-535.3	522.0	498.5	23.57	22.152		
4,600.0	4,598.9	4,531.6	4,477.6	9.0	14.3	-10.19	11.2	-557.5	538.1	513.9	24.17	22.264		
4,700.0	4,698.7	4,630.3	4,573.8	9.1	14.7	-10.28	11.7	-579.7	554.1	529.3	24.78	22.365		
4,800.0	4,798.5	4,729.0	4,670.0	9.2	15.2	-10.37	12.2	-602.0	570.2	544.8	25.39	22.456		
4,900.0	4,898.2	4,827.7	4,766.1	9.3	15.6	-10.45	12.8	-624.2	586.2	560.2	26.01	22.537		
5,000.0	4,998.0	4,926.4	4,862.3	9.4	16.0	-10.53	13.3	-646.5	602.2	575.6	26.63	22.611		
5,100.0	5,097.8	5,025.1	4,958.4	9.5	16.5	-10.61	13.8	-668.7	618.3	591.0	27.26	22.678		
5,200.0	5,197.6	5,123.8	5,054.6	9.7	16.9	-10.68	14.3	-691.0	634.3	606.4	27.90	22.738		
5,300.0	5,297.3	5,222.6	5,150.8	9.8	17.4	-10.75	14.8	-713.2	650.4	621.8	28.53	22.794		
5,400.0	5,397.1	5,326.5	5,252.0	9.9	17.8	-10.81	15.4	-736.5	666.3	637.1	29.20	22.819		
5,500.0	5,496.9	5,438.6	5,361.7	10.0	18.3	-10.89	15.9	-759.8	680.6	650.6	29.93	22.740		
5,600.0	5,596.7	5,551.4	5,472.4	10.1	18.8	-10.96	16.4	-781.1	692.9	662.3	30.64	22.618		
5,700.0	5,696.4	5,664.6	5,584.0	10.2	19.3	-11.04	16.9	-800.3	703.3	672.0	31.32	22.454		
5,717.8	5,714.2	5,684.8	5,604.0	10.3	19.4	-11.06	16.9	-803.5	705.0	673.5	31.44	22.425		
5,800.0	5,796.2	5,778.2	5,696.4	10.3	19.8	-11.13	17.3	-817.4	712.3	680.4	31.98	22.274		
5,900.0	5,896.1	5,892.1	5,809.3	10.5	20.3	-11.19	17.6	-832.2	721.1	688.4	32.62	22.105		
6,000.0	5,996.1	6,006.2	5,922.6	10.6	20.7	-11.22	17.9	-844.8	729.5	696.3	33.23	21.955		
6,100.0	6,096.1	6,120.4	6,036.4	10.7	21.2	-11.23	18.1	-855.2	737.7	703.9	33.80	21.826		
6,103.9	6,100.0	6,124.9	6,040.9	10.7	21.2	-90.38	18.2	-855.6	738.0	704.1	33.82	21.821		
6,200.0	6,196.1	6,235.0	6,150.7	10.8	21.6	-90.36	18.3	-863.3	744.7	710.4	34.32	21.700		
6,300.0	6,296.1	6,349.9	6,265.4	10.9	22.0	-90.35	18.5	-869.2	749.8	715.0	34.80	21.549		
6,400.0	6,396.1	6,464.9	6,380.4	11.0	22.3	-90.34	18.6	-872.8	752.9	717.7	35.21	21.382		
6,500.0	6,496.1	6,580.0	6,495.5	11.1	22.5	-90.34	18.6	-874.0	754.0	718.6	35.46	21.266		
6,600.0	6,596.1	6,680.6	6,596.1	11.2	22.6	-90.34	18.6	-874.0	754.0	718.4	35.57	21.198		
6,700.0	6,696.1	6,780.6	6,696.1	11.3	22.6	-90.34	18.6	-874.0	754.0	718.3	35.68	21.132		
6,800.0	6,796.1	6,880.6	6,796.1	11.4	22.6	-90.34	18.6	-874.0	754.0	718.2	35.79	21.068		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
6,900.0	6,896.1	6,980.6	6,896.1	11.4	22.7	-90.34	18.6	-874.0	754.0	718.1	35.90	21.005		
7,000.0	6,996.1	7,080.6	6,996.1	11.5	22.7	-90.34	18.6	-874.0	754.0	718.0	36.01	20.941		
7,100.0	7,096.1	7,180.6	7,096.1	11.6	22.8	-90.34	18.6	-874.0	754.0	717.9	36.12	20.878		
7,200.0	7,196.1	7,280.6	7,196.1	11.7	22.8	-90.34	18.6	-874.0	754.0	717.8	36.22	20.815		
7,300.0	7,296.1	7,380.6	7,296.1	11.8	22.8	-90.34	18.6	-874.0	754.0	717.7	36.33	20.752		
7,400.0	7,396.1	7,480.6	7,396.1	11.9	22.9	-90.34	18.6	-874.0	754.0	717.6	36.45	20.689		
7,500.0	7,496.1	7,580.6	7,496.1	12.0	22.9	-90.34	18.6	-874.0	754.0	717.5	36.56	20.626		
7,600.0	7,596.1	7,680.6	7,596.1	12.1	23.0	-90.34	18.6	-874.0	754.0	717.3	36.67	20.564		
7,700.0	7,696.1	7,780.6	7,696.1	12.2	23.0	-90.34	18.6	-874.0	754.0	717.2	36.78	20.501		
7,800.0	7,796.1	7,880.6	7,796.1	12.3	23.1	-90.34	18.6	-874.0	754.0	717.1	36.89	20.439		
7,900.0	7,896.1	7,980.6	7,896.1	12.4	23.1	-90.34	18.6	-874.0	754.0	717.0	37.00	20.377		
8,000.0	7,996.1	8,080.6	7,996.1	12.5	23.1	-90.34	18.6	-874.0	754.0	716.9	37.12	20.315		
8,100.0	8,096.1	8,180.6	8,096.1	12.6	23.2	-90.34	18.6	-874.0	754.0	716.8	37.23	20.254		
8,200.0	8,196.1	8,280.6	8,196.1	12.7	23.2	-90.34	18.6	-874.0	754.0	716.7	37.34	20.192		
8,300.0	8,296.1	8,380.6	8,296.1	12.7	23.3	-90.34	18.6	-874.0	754.0	716.6	37.46	20.131		
8,400.0	8,396.1	8,480.6	8,396.1	12.8	23.3	-90.34	18.6	-874.0	754.0	716.4	37.57	20.070		
8,500.0	8,496.1	8,580.6	8,496.1	12.9	23.3	-90.34	18.6	-874.0	754.0	716.3	37.68	20.009		
8,600.0	8,596.1	8,680.6	8,596.1	13.0	23.4	-90.34	18.6	-874.0	754.0	716.2	37.80	19.948		
8,700.0	8,696.1	8,780.6	8,696.1	13.1	23.4	-90.34	18.6	-874.0	754.0	716.1	37.91	19.888		
8,800.0	8,796.1	8,880.6	8,796.1	13.2	23.5	-90.34	18.6	-874.0	754.0	716.0	38.03	19.827		
8,900.0	8,896.1	8,980.6	8,896.1	13.3	23.5	-90.34	18.6	-874.0	754.0	715.9	38.14	19.767		
9,000.0	8,996.1	9,080.6	8,996.1	13.4	23.6	-90.34	18.6	-874.0	754.0	715.8	38.26	19.707		
9,100.0	9,096.1	9,180.6	9,096.1	13.5	23.6	-90.34	18.6	-874.0	754.0	715.6	38.38	19.647		
9,200.0	9,196.1	9,280.6	9,196.1	13.6	23.7	-90.34	18.6	-874.0	754.0	715.5	38.49	19.588		
9,300.0	9,296.1	9,380.6	9,296.1	13.7	23.7	-90.34	18.6	-874.0	754.0	715.4	38.61	19.528		
9,400.0	9,396.1	9,480.6	9,396.1	13.8	23.7	-90.34	18.6	-874.0	754.0	715.3	38.73	19.469		
9,500.0	9,496.1	9,580.6	9,496.1	13.8	23.8	-90.34	18.6	-874.0	754.0	715.2	38.85	19.410		
9,600.0	9,596.1	9,680.6	9,596.1	13.9	23.8	-90.34	18.6	-874.0	754.0	715.0	38.96	19.351		
9,700.0	9,696.1	9,780.6	9,696.1	14.0	23.9	-90.34	18.6	-874.0	754.0	714.9	39.08	19.293		
9,800.0	9,796.1	9,880.6	9,796.1	14.1	23.9	-90.34	18.6	-874.0	754.0	714.8	39.20	19.234		
9,900.0	9,896.1	9,980.6	9,896.1	14.2	24.0	-90.34	18.6	-874.0	754.0	714.7	39.32	19.176		
10,000.0	9,996.1	10,080.6	9,996.1	14.3	24.0	-90.34	18.6	-874.0	754.0	714.6	39.44	19.118		
10,100.0	10,096.1	10,180.6	10,096.1	14.4	24.1	-90.34	18.6	-874.0	754.0	714.5	39.56	19.060		
10,200.0	10,196.1	10,280.6	10,196.1	14.5	24.1	-90.34	18.6	-874.0	754.0	714.3	39.68	19.003		
10,300.0	10,296.1	10,380.6	10,296.1	14.6	24.2	-90.34	18.6	-874.0	754.0	714.2	39.80	18.946		
10,400.0	10,396.1	10,480.6	10,396.1	14.7	24.2	-90.34	18.6	-874.0	754.0	714.1	39.92	18.888		
10,500.0	10,496.1	10,580.6	10,496.1	14.7	24.2	-90.34	18.6	-874.0	754.0	714.0	40.04	18.832		
10,600.0	10,596.1	10,680.6	10,596.1	14.8	24.3	-90.34	18.6	-874.0	754.0	713.9	40.16	18.775		
10,700.0	10,696.1	10,780.6	10,696.1	14.9	24.3	-90.34	18.6	-874.0	754.0	713.7	40.28	18.718		
10,800.0	10,796.1	10,880.6	10,796.1	15.0	24.4	-90.34	18.6	-874.0	754.0	713.6	40.40	18.662		
10,900.0	10,896.1	10,980.6	10,896.1	15.1	24.4	-90.34	18.6	-874.0	754.0	713.5	40.53	18.606		
11,000.0	10,996.1	11,080.6	10,996.1	15.2	24.5	-90.34	18.6	-874.0	754.0	713.4	40.65	18.550		
11,100.0	11,096.1	11,180.6	11,096.1	15.3	24.5	-90.34	18.6	-874.0	754.0	713.2	40.77	18.494		
11,200.0	11,196.1	11,280.6	11,196.1	15.4	24.6	-90.34	18.6	-874.0	754.0	713.1	40.89	18.439		
11,300.0	11,296.1	11,380.6	11,296.1	15.5	24.6	-90.34	18.6	-874.0	754.0	713.0	41.02	18.384		
11,400.0	11,396.1	11,480.6	11,396.1	15.5	24.7	-90.34	18.6	-874.0	754.0	712.9	41.14	18.329		
11,500.0	11,496.1	11,580.6	11,496.1	15.6	24.7	-90.34	18.6	-874.0	754.0	712.7	41.26	18.274		
11,600.0	11,596.1	11,680.6	11,596.1	15.7	24.8	-90.34	18.6	-874.0	754.0	712.6	41.39	18.219		
11,700.0	11,696.1	11,780.6	11,696.1	15.8	24.8	-90.34	18.6	-874.0	754.0	712.5	41.51	18.165		
11,800.0	11,796.1	11,880.6	11,796.1	15.9	24.9	-90.34	18.6	-874.0	754.0	712.4	41.63	18.111		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,900.0	11,896.1	11,980.6	11,896.1	16.0	24.9	-90.34	18.6	-874.0	754.0	712.3	41.75	18.059		
11,959.4	11,955.5	12,040.1	11,955.5	16.0	24.9	-90.56	15.6	-874.0	754.0	712.2	41.79	18.044		
12,000.0	11,996.1	12,080.0	11,994.9	16.1	24.9	-91.02	9.6	-873.9	754.0	712.2	41.81	18.037		
12,076.4	12,072.5	12,151.3	12,063.5	16.1	24.9	-92.46	-9.4	-873.7	754.5	712.6	41.85	18.029		
12,100.0	12,096.1	12,172.2	12,083.0	16.1	24.9	87.53	-16.9	-873.7	754.8	712.9	41.86	18.032		
12,125.0	12,121.0	12,194.0	12,103.1	16.1	24.9	86.94	-25.6	-873.6	755.2	713.4	41.86	18.040		
12,150.0	12,145.8	12,215.6	12,122.4	16.1	24.9	86.35	-35.1	-873.5	755.7	713.8	41.87	18.047		
12,175.0	12,170.4	12,236.8	12,141.1	16.1	24.9	85.77	-45.3	-873.4	756.3	714.4	41.89	18.054		
12,200.0	12,194.7	12,257.9	12,159.1	16.1	24.9	85.21	-56.2	-873.3	756.9	715.0	41.91	18.059		
12,225.0	12,218.7	12,278.7	12,176.4	16.1	24.9	84.66	-67.8	-873.2	757.6	715.7	41.94	18.064		
12,250.0	12,242.3	12,300.0	12,193.5	16.1	24.9	84.10	-80.4	-873.0	758.4	716.4	41.97	18.068		
12,275.0	12,265.4	12,319.6	12,208.9	16.0	24.9	83.59	-92.7	-872.9	759.1	717.1	42.02	18.067		
12,300.0	12,288.0	12,339.8	12,224.1	16.0	24.9	83.08	-105.9	-872.8	760.0	717.9	42.07	18.066		
12,325.0	12,310.0	12,359.8	12,238.6	16.0	24.9	82.59	-119.7	-872.7	760.8	718.7	42.12	18.062		
12,350.0	12,331.4	12,379.7	12,252.4	16.0	24.9	82.11	-134.0	-872.5	761.7	719.5	42.19	18.055		
12,375.0	12,352.0	12,400.0	12,265.9	16.0	24.9	81.64	-149.2	-872.4	762.6	720.3	42.25	18.048		
12,400.0	12,371.9	12,418.9	12,277.9	16.0	24.9	81.21	-163.8	-872.2	763.4	721.1	42.33	18.035		
12,425.0	12,390.9	12,438.3	12,289.5	16.0	24.9	80.80	-179.3	-872.1	764.3	721.9	42.41	18.020		
12,450.0	12,409.1	12,457.6	12,300.5	16.0	24.9	80.40	-195.1	-871.9	765.2	722.7	42.50	18.003		
12,475.0	12,428.4	12,475.0	12,309.9	16.0	24.9	80.04	-209.8	-871.8	766.0	723.4	42.60	17.980		
12,500.0	12,442.7	12,495.9	12,320.4	16.0	24.9	79.66	-227.9	-871.6	766.9	724.2	42.69	17.962		
12,525.0	12,458.0	12,514.9	12,329.2	16.1	24.9	79.33	-244.6	-871.4	767.7	724.9	42.80	17.937		
12,550.0	12,472.2	12,533.8	12,337.4	16.1	24.9	79.02	-261.7	-871.3	768.4	725.5	42.90	17.911		
12,575.0	12,485.3	12,550.0	12,343.8	16.1	24.9	78.76	-276.6	-871.1	769.1	726.1	43.02	17.880		
12,600.0	12,497.3	12,571.3	12,351.5	16.1	25.0	78.47	-296.5	-870.9	769.8	726.7	43.12	17.854		
12,625.0	12,508.1	12,590.0	12,357.5	16.1	25.0	78.24	-314.2	-870.8	770.4	727.2	43.23	17.823		
12,650.0	12,517.7	12,608.7	12,362.8	16.1	25.0	78.03	-332.1	-870.6	771.0	727.6	43.33	17.791		
12,675.0	12,526.2	12,625.0	12,366.9	16.1	25.0	77.86	-347.9	-870.4	771.5	728.0	43.44	17.758		
12,700.0	12,533.3	12,645.8	12,371.3	16.1	25.0	77.69	-368.2	-870.2	771.9	728.3	43.55	17.725		
12,725.0	12,539.2	12,664.3	12,374.4	16.1	25.0	77.55	-386.4	-870.1	772.2	728.6	43.65	17.692		
12,750.0	12,543.9	12,682.8	12,376.9	16.2	25.1	77.45	-404.8	-869.9	772.5	728.8	43.75	17.658		
12,775.0	12,547.2	12,700.0	12,378.5	16.2	25.1	77.37	-421.9	-869.7	772.7	728.9	43.84	17.626		
12,800.0	12,549.2	12,719.7	12,379.7	16.2	25.1	77.32	-441.5	-869.5	772.9	729.0	43.93	17.592		
12,826.4	12,550.0	12,739.9	12,380.0	16.2	25.1	77.29	-461.8	-869.3	773.0	728.9	44.03	17.557		
12,900.0	12,550.0	12,813.5	12,380.0	16.3	25.3	77.29	-535.4	-868.6	773.0	728.6	44.36	17.424		
12,916.4	12,550.0	12,829.9	12,380.0	16.3	25.3	77.29	-551.8	-868.5	773.0	728.5	44.44	17.393		
13,000.0	12,550.0	12,913.5	12,380.0	16.5	25.4	77.31	-635.4	-867.6	774.2	729.3	44.89	17.247		
13,100.0	12,550.0	13,013.4	12,380.0	16.8	25.7	77.37	-735.2	-866.7	778.7	733.2	45.48	17.121		
13,200.0	12,550.0	13,113.1	12,380.0	17.1	25.9	77.46	-834.9	-865.7	786.7	740.5	46.13	17.055		
13,288.4	12,550.0	13,200.9	12,380.0	17.4	26.2	77.58	-922.7	-864.8	796.5	749.8	46.72	17.047		
13,300.0	12,550.0	13,212.4	12,380.0	17.5	26.2	77.60	-934.2	-864.7	798.0	751.2	46.81	17.049		
13,400.0	12,550.0	13,311.5	12,380.0	17.8	26.5	77.80	-1,033.4	-863.8	810.6	763.1	47.53	17.057		
13,438.4	12,550.0	13,349.6	12,380.0	18.0	26.7	77.87	-1,071.4	-863.4	815.5	767.7	47.81	17.056		
13,500.0	12,550.0	13,410.8	12,380.0	18.2	26.9	78.01	-1,132.6	-862.8	822.7	774.4	48.30	17.034		
13,600.0	12,550.0	13,510.4	12,380.0	18.7	27.3	78.17	-1,232.2	-861.8	831.6	782.4	49.15	16.918		
13,700.0	12,550.0	13,610.2	12,380.0	19.2	27.7	78.27	-1,332.0	-860.9	837.0	787.0	50.07	16.717		
13,800.0	12,550.0	13,710.2	12,380.0	19.7	28.1	78.31	-1,432.0	-859.9	839.1	788.1	51.04	16.439		
13,810.4	12,550.0	13,720.6	12,380.0	19.7	28.2	78.31	-1,442.4	-859.8	839.1	788.0	51.14	16.407		
13,900.0	12,550.0	13,810.2	12,380.0	20.2	28.6	78.31	-1,532.0	-858.9	839.1	787.1	52.04	16.124		
14,000.0	12,550.0	13,910.2	12,380.0	20.7	29.1	78.31	-1,632.0	-857.9	839.1	786.1	53.09	15.807		
14,100.0	12,550.0	14,010.2	12,380.0	21.3	29.6	78.31	-1,732.0	-857.0	839.1	785.0	54.17	15.491		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
14,200.0	12,550.0	14,110.2	12,380.0	21.9	30.2	78.31	-1,832.0	-856.0	839.1	783.9	55.29	15.178		
14,300.0	12,550.0	14,210.2	12,380.0	22.5	30.7	78.31	-1,932.0	-855.0	839.2	782.7	56.44	14.868		
14,400.0	12,550.0	14,310.2	12,380.0	23.1	31.3	78.31	-2,031.9	-854.1	839.2	781.5	57.63	14.562		
14,500.0	12,550.0	14,410.2	12,380.0	23.7	31.9	78.31	-2,131.9	-853.1	839.2	780.3	58.84	14.261		
14,600.0	12,550.0	14,510.2	12,380.0	24.3	32.5	78.31	-2,231.9	-852.1	839.2	779.1	60.09	13.966		
14,700.0	12,550.0	14,610.2	12,380.0	25.0	33.2	78.31	-2,331.9	-851.1	839.2	777.8	61.36	13.676		
14,800.0	12,550.0	14,710.2	12,380.0	25.7	33.8	78.31	-2,431.9	-850.2	839.2	776.5	62.66	13.393		
14,900.0	12,550.0	14,810.2	12,380.0	26.3	34.5	78.31	-2,531.9	-849.2	839.2	775.2	63.98	13.117		
15,000.0	12,550.0	14,910.2	12,380.0	27.0	35.2	78.31	-2,631.9	-848.2	839.2	773.9	65.32	12.848		
15,100.0	12,550.0	15,010.2	12,380.0	27.7	35.9	78.31	-2,731.9	-847.2	839.2	772.5	66.68	12.585		
15,200.0	12,550.0	15,110.2	12,380.0	28.4	36.6	78.31	-2,831.9	-846.3	839.2	771.1	68.06	12.330		
15,300.0	12,550.0	15,210.2	12,380.0	29.1	37.3	78.31	-2,931.9	-845.3	839.2	769.7	69.46	12.081		
15,400.0	12,550.0	15,310.2	12,380.0	29.9	38.0	78.31	-3,031.9	-844.3	839.2	768.3	70.88	11.839		
15,500.0	12,550.0	15,410.2	12,380.0	30.6	38.8	78.31	-3,131.9	-843.4	839.2	766.9	72.32	11.605		
15,600.0	12,550.0	15,510.2	12,380.0	31.3	39.5	78.31	-3,231.9	-842.4	839.2	765.4	73.76	11.377		
15,700.0	12,550.0	15,610.2	12,380.0	32.1	40.3	78.31	-3,331.9	-841.4	839.2	764.0	75.23	11.155		
15,800.0	12,550.0	15,710.2	12,380.0	32.8	41.0	78.31	-3,431.9	-840.4	839.2	762.5	76.71	10.941		
15,900.0	12,550.0	15,810.2	12,380.0	33.6	41.8	78.31	-3,531.9	-839.5	839.2	761.0	78.20	10.732		
16,000.0	12,550.0	15,910.2	12,380.0	34.3	42.6	78.31	-3,631.9	-838.5	839.2	759.5	79.70	10.530		
16,100.0	12,550.0	16,010.2	12,380.0	35.1	43.4	78.31	-3,731.9	-837.5	839.2	758.0	81.21	10.334		
16,200.0	12,550.0	16,110.2	12,380.0	35.9	44.2	78.31	-3,831.9	-836.5	839.2	756.5	82.74	10.144		
16,300.0	12,550.0	16,210.2	12,380.0	36.6	45.0	78.31	-3,931.9	-835.6	839.2	755.0	84.27	9.959		
16,400.0	12,550.0	16,310.2	12,380.0	37.4	45.8	78.31	-4,031.9	-834.6	839.2	753.4	85.81	9.780		
16,500.0	12,550.0	16,410.2	12,380.0	38.2	46.6	78.31	-4,131.8	-833.6	839.2	751.9	87.37	9.606		
16,600.0	12,550.0	16,510.2	12,380.0	39.0	47.4	78.31	-4,231.8	-832.7	839.2	750.3	88.93	9.437		
16,700.0	12,550.0	16,610.2	12,380.0	39.7	48.2	78.31	-4,331.8	-831.7	839.2	748.7	90.50	9.274		
16,800.0	12,550.0	16,710.2	12,380.0	40.5	49.1	78.31	-4,431.8	-830.7	839.2	747.2	92.08	9.115		
16,900.0	12,550.0	16,810.2	12,380.0	41.3	49.9	78.31	-4,531.8	-829.7	839.3	745.6	93.66	8.961		
17,000.0	12,550.0	16,910.2	12,380.0	42.1	50.7	78.31	-4,631.8	-828.8	839.3	744.0	95.25	8.811		
17,100.0	12,550.0	17,010.2	12,380.0	42.9	51.6	78.31	-4,731.8	-827.8	839.3	742.4	96.85	8.665		
17,200.0	12,550.0	17,110.2	12,380.0	43.7	52.4	78.31	-4,831.8	-826.8	839.3	740.8	98.46	8.524		
17,300.0	12,550.0	17,210.2	12,380.0	44.5	53.3	78.31	-4,931.8	-825.8	839.3	739.2	100.07	8.387		
17,400.0	12,550.0	17,310.2	12,380.0	45.3	54.1	78.31	-5,031.8	-824.9	839.3	737.6	101.68	8.254		
17,500.0	12,550.0	17,410.2	12,380.0	46.1	55.0	78.31	-5,131.8	-823.9	839.3	736.0	103.31	8.124		
17,600.0	12,550.0	17,510.2	12,380.0	46.9	55.8	78.31	-5,231.8	-822.9	839.3	734.3	104.93	7.998		
17,700.0	12,550.0	17,610.2	12,380.0	47.7	56.7	78.31	-5,331.8	-821.9	839.3	732.7	106.57	7.876		
17,800.0	12,550.0	17,710.2	12,380.0	48.5	57.6	78.31	-5,431.8	-821.0	839.3	731.1	108.20	7.757		
17,900.0	12,550.0	17,810.2	12,380.0	49.4	58.5	78.31	-5,531.8	-820.0	839.3	729.4	109.84	7.641		
18,000.0	12,550.0	17,910.2	12,380.0	50.2	59.3	78.31	-5,631.8	-819.0	839.3	727.8	111.49	7.528		
18,100.0	12,550.0	18,010.2	12,380.0	51.0	60.2	78.31	-5,731.8	-818.1	839.3	726.2	113.14	7.418		
18,200.0	12,550.0	18,110.2	12,380.0	51.8	61.1	78.31	-5,831.8	-817.1	839.3	724.5	114.79	7.311		
18,300.0	12,550.0	18,210.2	12,380.0	52.6	62.0	78.31	-5,931.8	-816.1	839.3	722.9	116.45	7.207		
18,400.0	12,550.0	18,310.2	12,380.0	53.4	62.9	78.31	-6,031.8	-815.1	839.3	721.2	118.11	7.106		
18,500.0	12,550.0	18,410.2	12,380.0	54.3	63.7	78.31	-6,131.8	-814.2	839.3	719.5	119.78	7.007		
18,600.0	12,550.0	18,510.2	12,380.0	55.1	64.6	78.31	-6,231.8	-813.2	839.3	717.9	121.45	6.911		
18,700.0	12,550.0	18,610.2	12,380.0	55.9	65.5	78.31	-6,331.7	-812.2	839.3	716.2	123.12	6.817		
18,800.0	12,550.0	18,710.2	12,380.0	56.7	66.4	78.31	-6,431.7	-811.2	839.3	714.5	124.79	6.726		
18,900.0	12,550.0	18,810.2	12,380.0	57.5	67.3	78.31	-6,531.7	-810.3	839.3	712.9	126.47	6.637		
19,000.0	12,550.0	18,910.2	12,380.0	58.4	68.2	78.31	-6,631.7	-809.3	839.3	711.2	128.15	6.550		
19,100.0	12,550.0	19,010.2	12,380.0	59.2	69.1	78.31	-6,731.7	-808.3	839.3	709.5	129.83	6.465		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)				
19,200.0	12,550.0	19,110.2	12,380.0	60.0	70.0	78.31	-6,831.7	-807.4	839.3	707.8	131.52	6.382		
19,300.0	12,550.0	19,210.2	12,380.0	60.8	70.9	78.31	-6,931.7	-806.4	839.3	706.1	133.21	6.301		
19,400.0	12,550.0	19,310.2	12,380.0	61.7	71.8	78.31	-7,031.7	-805.4	839.4	704.5	134.90	6.222		
19,500.0	12,550.0	19,410.2	12,380.0	62.5	72.7	78.31	-7,131.7	-804.4	839.4	702.8	136.59	6.145		
19,600.0	12,550.0	19,510.2	12,380.0	63.3	73.6	78.31	-7,231.7	-803.5	839.4	701.1	138.28	6.070		
19,700.0	12,550.0	19,610.2	12,380.0	64.2	74.5	78.31	-7,331.7	-802.5	839.4	699.4	139.98	5.996		
19,800.0	12,550.0	19,710.2	12,380.0	65.0	75.4	78.31	-7,431.7	-801.5	839.4	697.7	141.68	5.924		
19,900.0	12,550.0	19,810.2	12,380.0	65.8	76.3	78.31	-7,531.7	-800.5	839.4	696.0	143.38	5.854		
20,000.0	12,550.0	19,910.2	12,380.0	66.7	77.3	78.31	-7,631.7	-799.6	839.4	694.3	145.08	5.785		
20,100.0	12,550.0	20,010.2	12,380.0	67.5	78.2	78.32	-7,731.7	-798.6	839.4	692.6	146.79	5.718		
20,200.0	12,550.0	20,110.2	12,380.0	68.3	79.1	78.32	-7,831.7	-797.6	839.4	690.9	148.50	5.653		
20,300.0	12,550.0	20,210.2	12,380.0	69.2	80.0	78.32	-7,931.7	-796.7	839.4	689.2	150.20	5.588		
20,400.0	12,550.0	20,310.2	12,380.0	70.0	80.9	78.32	-8,031.7	-795.7	839.4	687.5	151.92	5.525		
20,500.0	12,550.0	20,410.2	12,380.0	70.8	81.8	78.32	-8,131.7	-794.7	839.4	685.8	153.63	5.464		
20,501.0	12,550.0	20,411.1	12,380.0	70.9	81.8	78.32	-8,132.6	-794.7	839.4	685.8	153.64	5.463		
20,516.6	12,550.0	20,424.8	12,380.0	71.0	82.0	78.32	-8,146.3	-794.6	839.4	685.5	153.90	5.454		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.2	30.0	30.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.2	30.0	30.0	28.0	1.99	15.066		
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.2	30.0	30.0	26.7	3.31	9.059		
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.2	30.0	30.0	25.8	4.20	7.151		
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.2	30.0	30.0	25.1	4.91	6.108		
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.2	30.0	30.0	24.5	5.53	5.422		
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.2	30.0	30.0	23.9	6.09	4.926		
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.2	30.0	30.0	23.4	6.60	4.545		
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.2	30.0	30.0	22.9	7.08	4.239		
900.0	900.0	900.0	900.0	3.6	3.6	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	0.2	30.0	30.0	18.6	11.44	2.623 Normal Operations, CC, ES, SF		
2,100.0	2,100.0	2,098.9	2,098.9	5.7	5.8	89.47	0.3	31.7	31.7	19.9	11.81	2.686 Normal Operations		
2,200.0	2,200.0	2,197.6	2,197.5	5.9	6.0	89.15	0.5	36.8	36.9	24.7	12.17	3.032		
2,300.0	2,300.0	2,295.8	2,295.3	6.0	6.2	88.78	1.0	45.2	45.5	33.0	12.53	3.631		
2,400.0	2,400.0	2,393.4	2,392.1	6.2	6.5	88.45	1.5	56.9	57.5	44.6	12.89	4.459		
2,500.0	2,500.0	2,491.8	2,489.6	6.3	6.7	88.20	2.2	71.1	71.9	58.7	13.22	5.441		
2,600.0	2,600.0	2,590.8	2,587.4	6.4	6.9	88.03	2.9	85.5	86.4	72.9	13.58	6.363		
2,700.0	2,700.0	2,689.7	2,685.3	6.6	7.2	87.90	3.7	99.8	101.0	87.0	13.97	7.227		
2,800.0	2,800.0	2,788.6	2,783.2	6.7	7.4	87.81	4.4	114.2	115.5	101.1	14.37	8.035		
2,900.0	2,900.0	2,887.6	2,881.1	6.8	7.7	87.74	5.1	128.6	130.0	115.2	14.79	8.789		
3,000.0	3,000.0	2,986.5	2,979.0	7.0	8.0	87.69	5.8	142.9	144.6	129.3	15.23	9.493		
3,100.0	3,100.0	3,085.4	3,076.9	7.1	8.3	87.64	6.5	157.3	159.1	143.4	15.67	10.150		
3,200.0	3,200.0	3,184.4	3,174.8	7.2	8.6	87.60	7.2	171.6	173.6	157.5	16.13	10.762		
3,300.0	3,300.0	3,283.3	3,272.7	7.4	8.9	87.57	7.9	186.0	188.2	171.5	16.60	11.333		
3,400.0	3,400.0	3,382.3	3,370.6	7.5	9.3	87.54	8.6	200.3	202.7	185.6	17.08	11.866		
3,500.0	3,500.0	3,481.2	3,468.4	7.6	9.6	87.52	9.3	214.7	217.2	199.6	17.57	12.363		
3,600.0	3,600.0	3,580.1	3,566.3	7.8	10.0	87.49	10.0	229.1	231.7	213.7	18.07	12.827		
3,700.0	3,700.0	3,679.1	3,664.2	7.9	10.3	87.48	10.7	243.4	246.3	227.7	18.57	13.261		
3,800.0	3,800.0	3,778.0	3,762.1	8.0	10.7	87.46	11.4	257.8	260.8	241.7	19.08	13.667		
3,900.0	3,900.0	3,877.0	3,860.0	8.1	11.0	87.44	12.1	272.1	275.3	255.7	19.60	14.047		
4,000.0	4,000.0	3,975.9	3,957.9	8.2	11.4	87.43	12.9	286.5	289.9	269.7	20.13	14.403		
4,100.0	4,100.0	4,074.6	4,055.5	8.4	11.8	166.57	13.6	300.8	306.1	285.4	20.69	14.794		
4,193.1	4,192.9	4,165.8	4,145.8	8.5	12.1	166.67	14.2	314.1	324.2	303.0	21.19	15.296		
4,200.0	4,199.8	4,172.6	4,152.5	8.5	12.2	166.69	14.3	315.0	325.6	304.4	21.23	15.341		
4,300.0	4,299.6	4,270.4	4,249.3	8.7	12.5	166.92	15.0	329.2	346.6	324.8	21.81	15.895		
4,400.0	4,399.4	4,368.2	4,346.0	8.8	12.9	167.13	15.7	343.4	367.6	345.3	22.33	16.465		
4,500.0	4,499.2	4,465.9	4,442.7	8.9	13.3	167.32	16.4	357.6	388.6	365.7	22.85	17.004		
4,600.0	4,598.9	4,563.7	4,539.4	9.0	13.7	167.49	17.1	371.8	409.6	386.2	23.39	17.515		
4,700.0	4,698.7	4,661.4	4,636.2	9.1	14.1	167.64	17.8	386.0	430.6	406.7	23.92	17.999		
4,800.0	4,798.5	4,759.2	4,732.9	9.2	14.5	167.78	18.5	400.2	451.6	427.1	24.47	18.458		
4,900.0	4,898.2	4,857.0	4,829.6	9.3	14.9	167.91	19.2	414.4	472.6	447.6	25.01	18.893		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,998.0	4,954.7	4,926.3	9.4	15.3	168.02	19.9	428.6	493.6	468.0	25.57	19.306	
5,100.0	5,097.8	5,052.5	5,023.1	9.5	15.7	168.13	20.6	442.7	514.6	488.5	26.12	19.699	
5,200.0	5,197.6	5,150.3	5,119.8	9.7	16.1	168.22	21.3	456.9	535.6	509.0	26.69	20.072	
5,300.0	5,297.3	5,248.0	5,216.5	9.8	16.5	168.31	22.0	471.1	556.7	529.4	27.25	20.428	
5,400.0	5,397.1	5,345.8	5,313.2	9.9	16.9	168.40	22.7	485.3	577.7	549.9	27.82	20.766	
5,500.0	5,496.9	5,443.6	5,410.0	10.0	17.3	168.47	23.4	499.5	598.7	570.3	28.39	21.088	
5,600.0	5,596.7	5,541.3	5,506.7	10.1	17.7	168.55	24.1	513.7	619.7	590.7	28.96	21.396	
5,700.0	5,696.4	5,639.1	5,603.4	10.2	18.1	168.61	24.8	527.9	640.7	611.2	29.54	21.688	
5,717.8	5,714.2	5,656.5	5,620.6	10.3	18.1	168.62	24.9	530.4	644.5	614.8	29.64	21.744	
5,800.0	5,796.2	5,741.3	5,704.5	10.3	18.5	168.70	25.5	542.6	661.1	630.9	30.14	21.935	
5,900.0	5,896.1	5,852.8	5,815.1	10.5	18.9	168.77	26.2	557.0	678.3	647.5	30.78	22.039	
6,000.0	5,996.1	5,965.3	5,927.0	10.6	19.4	168.80	26.8	569.3	691.9	660.5	31.39	22.039	
6,100.0	6,096.1	6,078.6	6,039.8	10.7	19.8	168.80	27.3	579.5	701.8	669.8	31.98	21.945	
6,103.9	6,100.0	6,083.0	6,044.2	10.7	19.8	89.65	27.3	579.9	702.1	670.1	32.00	21.940	
6,200.0	6,196.1	6,192.3	6,153.2	10.8	20.2	89.62	27.7	587.5	708.8	676.3	32.52	21.795	
6,300.0	6,296.1	6,306.4	6,267.1	10.9	20.6	89.60	28.0	593.3	713.9	680.9	33.02	21.617	
6,400.0	6,396.1	6,420.6	6,381.3	11.0	20.9	89.59	28.1	596.8	716.9	683.5	33.46	21.425	
6,500.0	6,496.1	6,534.9	6,495.5	11.1	21.2	89.58	28.2	598.0	718.0	684.2	33.77	21.260	
6,600.0	6,596.1	6,635.4	6,596.1	11.2	21.2	89.58	28.2	598.0	718.0	684.1	33.87	21.196	
6,700.0	6,696.1	6,735.4	6,696.1	11.3	21.3	89.58	28.2	598.0	718.0	684.0	33.99	21.125	
6,800.0	6,796.1	6,835.4	6,796.1	11.4	21.3	89.58	28.2	598.0	718.0	683.9	34.10	21.055	
6,900.0	6,896.1	6,935.4	6,896.1	11.4	21.3	89.58	28.2	598.0	718.0	683.8	34.22	20.985	
7,000.0	6,996.1	7,035.4	6,996.1	11.5	21.4	89.58	28.2	598.0	718.0	683.7	34.33	20.915	
7,100.0	7,096.1	7,135.4	7,096.1	11.6	21.4	89.58	28.2	598.0	718.0	683.6	34.45	20.845	
7,200.0	7,196.1	7,235.4	7,196.1	11.7	21.5	89.58	28.2	598.0	718.0	683.5	34.56	20.775	
7,300.0	7,296.1	7,335.4	7,296.1	11.8	21.5	89.58	28.2	598.0	718.0	683.3	34.68	20.706	
7,400.0	7,396.1	7,435.4	7,396.1	11.9	21.6	89.58	28.2	598.0	718.0	683.2	34.79	20.637	
7,500.0	7,496.1	7,535.4	7,496.1	12.0	21.6	89.58	28.2	598.0	718.0	683.1	34.91	20.568	
7,600.0	7,596.1	7,635.4	7,596.1	12.1	21.6	89.58	28.2	598.0	718.0	683.0	35.03	20.500	
7,700.0	7,696.1	7,735.4	7,696.1	12.2	21.7	89.58	28.2	598.0	718.0	682.9	35.14	20.431	
7,800.0	7,796.1	7,835.4	7,796.1	12.3	21.7	89.58	28.2	598.0	718.0	682.8	35.26	20.363	
7,900.0	7,896.1	7,935.4	7,896.1	12.4	21.8	89.58	28.2	598.0	718.0	682.6	35.38	20.295	
8,000.0	7,996.1	8,035.4	7,996.1	12.5	21.8	89.58	28.2	598.0	718.0	682.5	35.50	20.228	
8,100.0	8,096.1	8,135.4	8,096.1	12.6	21.9	89.58	28.2	598.0	718.0	682.4	35.62	20.161	
8,200.0	8,196.1	8,235.4	8,196.1	12.7	21.9	89.58	28.2	598.0	718.0	682.3	35.73	20.093	
8,300.0	8,296.1	8,335.4	8,296.1	12.7	22.0	89.58	28.2	598.0	718.0	682.2	35.85	20.027	
8,400.0	8,396.1	8,435.4	8,396.1	12.8	22.0	89.58	28.2	598.0	718.0	682.0	35.97	19.960	
8,500.0	8,496.1	8,535.4	8,496.1	12.9	22.0	89.58	28.2	598.0	718.0	681.9	36.09	19.894	
8,600.0	8,596.1	8,635.4	8,596.1	13.0	22.1	89.58	28.2	598.0	718.0	681.8	36.21	19.828	
8,700.0	8,696.1	8,735.4	8,696.1	13.1	22.1	89.58	28.2	598.0	718.0	681.7	36.33	19.762	
8,800.0	8,796.1	8,835.4	8,796.1	13.2	22.2	89.58	28.2	598.0	718.0	681.6	36.45	19.697	
8,900.0	8,896.1	8,935.4	8,896.1	13.3	22.2	89.58	28.2	598.0	718.0	681.4	36.57	19.631	
9,000.0	8,996.1	9,035.4	8,996.1	13.4	22.3	89.58	28.2	598.0	718.0	681.3	36.70	19.567	
9,100.0	9,096.1	9,135.4	9,096.1	13.5	22.3	89.58	28.2	598.0	718.0	681.2	36.82	19.502	
9,200.0	9,196.1	9,235.4	9,196.1	13.6	22.4	89.58	28.2	598.0	718.0	681.1	36.94	19.437	
9,300.0	9,296.1	9,335.4	9,296.1	13.7	22.4	89.58	28.2	598.0	718.0	681.0	37.06	19.373	
9,400.0	9,396.1	9,435.4	9,396.1	13.8	22.5	89.58	28.2	598.0	718.0	680.8	37.18	19.309	
9,500.0	9,496.1	9,535.4	9,496.1	13.8	22.5	89.58	28.2	598.0	718.0	680.7	37.31	19.246	
9,600.0	9,596.1	9,635.4	9,596.1	13.9	22.6	89.58	28.2	598.0	718.0	680.6	37.43	19.182	
9,700.0	9,696.1	9,735.4	9,696.1	14.0	22.6	89.58	28.2	598.0	718.0	680.5	37.55	19.119	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,796.1	9,835.4	9,796.1	14.1	22.7	89.58	28.2	598.0	718.0	680.3	37.68	19.057	
9,900.0	9,896.1	9,935.4	9,896.1	14.2	22.7	89.58	28.2	598.0	718.0	680.2	37.80	18.994	
10,000.0	9,996.1	10,035.4	9,996.1	14.3	22.8	89.58	28.2	598.0	718.0	680.1	37.93	18.932	
10,100.0	10,096.1	10,135.4	10,096.1	14.4	22.8	89.58	28.2	598.0	718.0	680.0	38.05	18.870	
10,200.0	10,196.1	10,235.4	10,196.1	14.5	22.9	89.58	28.2	598.0	718.0	679.8	38.18	18.808	
10,300.0	10,296.1	10,335.4	10,296.1	14.6	22.9	89.58	28.2	598.0	718.0	679.7	38.30	18.747	
10,400.0	10,396.1	10,435.4	10,396.1	14.7	23.0	89.58	28.2	598.0	718.0	679.6	38.43	18.685	
10,500.0	10,496.1	10,535.4	10,496.1	14.7	23.0	89.58	28.2	598.0	718.0	679.5	38.55	18.624	
10,600.0	10,596.1	10,635.4	10,596.1	14.8	23.1	89.58	28.2	598.0	718.0	679.3	38.68	18.564	
10,700.0	10,696.1	10,735.4	10,696.1	14.9	23.1	89.58	28.2	598.0	718.0	679.2	38.80	18.503	
10,800.0	10,796.1	10,835.4	10,796.1	15.0	23.2	89.58	28.2	598.0	718.0	679.1	38.93	18.443	
10,900.0	10,896.1	10,935.4	10,896.1	15.1	23.2	89.58	28.2	598.0	718.0	679.0	39.06	18.383	
11,000.0	10,996.1	11,035.4	10,996.1	15.2	23.3	89.58	28.2	598.0	718.0	678.8	39.18	18.324	
11,100.0	11,096.1	11,135.4	11,096.1	15.3	23.3	89.58	28.2	598.0	718.0	678.7	39.31	18.265	
11,200.0	11,196.1	11,235.4	11,196.1	15.4	23.4	89.58	28.2	598.0	718.0	678.6	39.44	18.206	
11,300.0	11,296.1	11,335.4	11,296.1	15.5	23.4	89.58	28.2	598.0	718.0	678.5	39.57	18.147	
11,400.0	11,396.1	11,435.4	11,396.1	15.5	23.5	89.58	28.2	598.0	718.0	678.3	39.70	18.088	
11,500.0	11,496.1	11,535.4	11,496.1	15.6	23.5	89.58	28.2	598.0	718.0	678.2	39.82	18.030	
11,600.0	11,596.1	11,635.4	11,596.1	15.7	23.6	89.58	28.2	598.0	718.0	678.1	39.95	17.972	
11,700.0	11,696.1	11,735.4	11,696.1	15.8	23.6	89.58	28.2	598.0	718.0	677.9	40.08	17.914	
11,800.0	11,796.1	11,835.4	11,796.1	15.9	23.7	89.58	28.2	598.0	718.0	677.8	40.21	17.857	
11,900.0	11,896.1	11,935.4	11,896.1	16.0	23.7	89.58	28.2	598.0	718.0	677.7	40.33	17.803	
11,905.0	11,901.1	11,940.4	11,901.1	16.0	23.7	89.58	28.2	598.0	718.0	677.7	40.34	17.801	
12,000.0	11,996.1	12,033.9	11,994.0	16.1	23.7	90.29	19.4	598.1	718.1	677.7	40.39	17.781	
12,076.4	12,072.5	12,104.6	12,062.1	16.1	23.7	91.78	0.7	598.3	718.7	678.3	40.43	17.778	
12,100.0	12,096.1	12,125.0	12,081.2	16.1	23.7	-87.08	-6.5	598.3	719.1	678.6	40.43	17.784	
12,125.0	12,121.0	12,147.0	12,101.4	16.1	23.7	-86.45	-15.2	598.4	719.6	679.1	40.44	17.795	
12,150.0	12,145.8	12,168.4	12,120.7	16.1	23.7	-85.84	-24.6	598.5	720.1	679.7	40.44	17.806	
12,175.0	12,170.4	12,189.6	12,139.3	16.1	23.6	-85.24	-34.6	598.6	720.8	680.3	40.45	17.817	
12,200.0	12,194.7	12,210.5	12,157.2	16.1	23.6	-84.66	-45.4	598.7	721.5	681.0	40.47	17.826	
12,225.0	12,218.7	12,231.2	12,174.5	16.1	23.6	-84.09	-56.8	598.8	722.2	681.7	40.50	17.834	
12,250.0	12,242.3	12,250.0	12,189.7	16.1	23.6	-83.56	-67.8	598.9	723.0	682.5	40.53	17.837	
12,275.0	12,265.4	12,271.9	12,206.9	16.0	23.6	-82.99	-81.4	599.1	723.9	683.3	40.56	17.845	
12,300.0	12,288.0	12,292.0	12,222.1	16.0	23.6	-82.46	-94.5	599.2	724.7	684.1	40.61	17.846	
12,325.0	12,310.0	12,311.9	12,236.6	16.0	23.6	-81.95	-108.2	599.3	725.6	685.0	40.66	17.845	
12,350.0	12,331.4	12,331.7	12,250.5	16.0	23.6	-81.46	-122.3	599.5	726.5	685.8	40.72	17.841	
12,375.0	12,352.0	12,350.0	12,262.8	16.0	23.7	-81.02	-135.9	599.6	727.5	686.7	40.80	17.831	
12,400.0	12,371.9	12,370.8	12,276.0	16.0	23.7	-80.54	-151.9	599.8	728.4	687.5	40.87	17.824	
12,425.0	12,390.9	12,390.1	12,287.8	16.0	23.7	-80.12	-167.2	599.9	729.3	688.4	40.95	17.811	
12,450.0	12,409.1	12,409.4	12,298.8	16.0	23.7	-79.71	-183.0	600.1	730.2	689.2	41.04	17.794	
12,475.0	12,426.4	12,428.5	12,309.2	16.0	23.7	-79.33	-199.1	600.2	731.1	690.0	41.13	17.776	
12,500.0	12,442.7	12,450.0	12,320.0	16.0	23.7	-78.93	-217.6	600.4	731.9	690.7	41.21	17.759	
12,525.0	12,458.0	12,466.4	12,327.8	16.1	23.7	-78.63	-232.2	600.5	732.7	691.4	41.33	17.730	
12,550.0	12,472.2	12,485.3	12,336.0	16.1	23.7	-78.32	-249.1	600.7	733.5	692.1	41.43	17.704	
12,575.0	12,485.3	12,504.1	12,343.5	16.1	23.7	-78.04	-266.3	600.9	734.2	692.7	41.54	17.676	
12,600.0	12,497.3	12,525.0	12,351.1	16.1	23.7	-77.76	-285.8	601.1	734.9	693.3	41.64	17.649	
12,625.0	12,508.1	12,541.5	12,356.5	16.1	23.8	-77.55	-301.4	601.2	735.5	693.7	41.76	17.615	
12,650.0	12,517.7	12,560.1	12,361.9	16.1	23.8	-77.34	-319.2	601.4	736.0	694.2	41.86	17.582	
12,675.0	12,526.2	12,578.6	12,366.6	16.1	23.8	-77.16	-337.1	601.6	736.5	694.6	41.97	17.549	
12,700.0	12,533.3	12,600.0	12,371.2	16.1	23.8	-77.00	-358.0	601.8	736.9	694.9	42.07	17.517	
12,725.0	12,539.2	12,615.7	12,373.9	16.1	23.8	-76.89	-373.4	601.9	737.3	695.1	42.17	17.482	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,750.0	12,543.9	12,634.1	12,376.5	16.2	23.9	-76.79	-391.7	602.1	737.5	695.3	42.27	17.449	
12,775.0	12,547.2	12,650.0	12,378.1	16.2	23.9	-76.73	-407.5	602.2	737.7	695.4	42.35	17.418	
12,800.0	12,549.2	12,671.0	12,379.5	16.2	23.9	-76.69	-428.5	602.4	737.8	695.4	42.45	17.382	
12,826.4	12,550.0	12,691.8	12,380.0	16.2	23.9	-76.68	-449.2	602.6	737.8	695.3	42.54	17.347	
12,852.3	12,550.0	12,716.0	12,380.0	16.2	24.0	-76.68	-473.4	602.9	737.8	695.2	42.64	17.303	
12,900.0	12,550.0	12,763.6	12,380.0	16.3	24.1	-76.68	-521.1	603.3	737.8	695.0	42.86	17.215	
12,916.4	12,550.0	12,780.0	12,380.0	16.3	24.1	-76.68	-537.5	603.5	737.8	694.9	42.94	17.184	
13,000.0	12,550.0	12,863.6	12,380.0	16.5	24.3	-76.65	-621.0	604.3	736.6	693.3	43.38	16.980	
13,100.0	12,550.0	12,963.5	12,380.0	16.8	24.5	-76.55	-720.9	605.3	732.1	688.1	44.00	16.638	
13,200.0	12,550.0	13,063.2	12,380.0	17.1	24.8	-76.36	-820.6	606.3	724.2	679.5	44.69	16.203	
13,288.4	12,550.0	13,151.0	12,380.0	17.4	25.0	-76.12	-908.4	607.1	714.4	669.0	45.36	15.749	
13,300.0	12,550.0	13,162.5	12,380.0	17.5	25.1	-76.09	-919.9	607.2	712.9	667.5	45.45	15.686	
13,400.0	12,550.0	13,261.7	12,380.0	17.8	25.4	-75.84	-1,019.0	608.2	700.3	654.1	46.26	15.140	
13,438.4	12,550.0	13,299.7	12,380.0	18.0	25.5	-75.74	-1,057.1	608.6	695.5	648.9	46.58	14.932	
13,500.0	12,550.0	13,360.9	12,380.0	18.2	25.8	-75.62	-1,118.3	609.1	688.4	641.3	47.12	14.610	
13,600.0	12,550.0	13,460.5	12,380.0	18.7	26.2	-75.48	-1,217.9	610.1	679.6	631.6	48.05	14.144	
13,700.0	12,550.0	13,560.3	12,380.0	19.2	26.6	-75.39	-1,317.7	611.1	674.2	625.2	49.01	13.755	
13,800.0	12,550.0	13,660.3	12,380.0	19.7	27.1	-75.35	-1,417.7	612.1	672.2	622.1	50.01	13.440	
13,810.4	12,550.0	13,670.7	12,380.0	19.7	27.1	-75.35	-1,428.1	612.2	672.1	622.0	50.11	13.412	
13,900.0	12,550.0	13,760.3	12,380.0	20.2	27.6	-75.35	-1,517.7	613.0	672.1	621.1	51.02	13.174	
14,000.0	12,550.0	13,860.3	12,380.0	20.7	28.1	-75.35	-1,617.7	614.0	672.1	620.1	52.07	12.908	
14,100.0	12,550.0	13,960.3	12,380.0	21.3	28.6	-75.35	-1,717.6	615.0	672.1	619.0	53.16	12.642	
14,200.0	12,550.0	14,060.3	12,380.0	21.9	29.2	-75.35	-1,817.6	616.0	672.1	617.8	54.29	12.380	
14,300.0	12,550.0	14,160.3	12,380.0	22.5	29.8	-75.35	-1,917.6	616.9	672.1	616.7	55.45	12.120	
14,400.0	12,550.0	14,260.3	12,380.0	23.1	30.4	-75.35	-2,017.6	617.9	672.1	615.5	56.65	11.865	
14,500.0	12,550.0	14,360.3	12,380.0	23.7	31.0	-75.35	-2,117.6	618.9	672.1	614.2	57.87	11.614	
14,600.0	12,550.0	14,460.3	12,380.0	24.3	31.6	-75.35	-2,217.6	619.8	672.1	613.0	59.12	11.368	
14,700.0	12,550.0	14,560.3	12,380.0	25.0	32.3	-75.35	-2,317.6	620.8	672.1	611.7	60.40	11.127	
14,800.0	12,550.0	14,660.3	12,380.0	25.7	32.9	-75.35	-2,417.6	621.8	672.1	610.4	61.70	10.892	
14,900.0	12,550.0	14,760.3	12,380.0	26.3	33.6	-75.35	-2,517.6	622.8	672.1	609.1	63.03	10.663	
15,000.0	12,550.0	14,860.3	12,380.0	27.0	34.3	-75.35	-2,617.6	623.7	672.1	607.7	64.38	10.440	
15,100.0	12,550.0	14,960.3	12,380.0	27.7	35.0	-75.35	-2,717.6	624.7	672.1	606.3	65.74	10.223	
15,200.0	12,550.0	15,060.3	12,380.0	28.4	35.7	-75.35	-2,817.6	625.7	672.1	604.9	67.13	10.011	
15,300.0	12,550.0	15,160.3	12,380.0	29.1	36.5	-75.35	-2,917.6	626.6	672.1	603.5	68.54	9.806	
15,400.0	12,550.0	15,260.3	12,380.0	29.9	37.2	-75.35	-3,017.6	627.6	672.1	602.1	69.96	9.607	
15,500.0	12,550.0	15,360.3	12,380.0	30.6	38.0	-75.35	-3,117.6	628.6	672.1	600.7	71.39	9.413	
15,600.0	12,550.0	15,460.3	12,380.0	31.3	38.7	-75.35	-3,217.6	629.6	672.1	599.2	72.85	9.226	
15,700.0	12,550.0	15,560.3	12,380.0	32.1	39.5	-75.35	-3,317.6	630.5	672.1	597.7	74.31	9.044	
15,800.0	12,550.0	15,660.3	12,380.0	32.8	40.3	-75.35	-3,417.6	631.5	672.1	596.3	75.79	8.867	
15,900.0	12,550.0	15,760.3	12,380.0	33.6	41.1	-75.35	-3,517.6	632.5	672.1	594.8	77.28	8.696	
16,000.0	12,550.0	15,860.3	12,380.0	34.3	41.9	-75.35	-3,617.6	633.5	672.0	593.3	78.79	8.530	
16,100.0	12,550.0	15,960.3	12,380.0	35.1	42.7	-75.35	-3,717.6	634.4	672.0	591.7	80.30	8.369	
16,200.0	12,550.0	16,060.3	12,380.0	35.9	43.5	-75.35	-3,817.5	635.4	672.0	590.2	81.83	8.213	
16,300.0	12,550.0	16,160.3	12,380.0	36.6	44.3	-75.35	-3,917.5	636.4	672.0	588.7	83.36	8.062	
16,400.0	12,550.0	16,260.3	12,380.0	37.4	45.1	-75.35	-4,017.5	637.3	672.0	587.1	84.90	7.915	
16,500.0	12,550.0	16,360.3	12,380.0	38.2	45.9	-75.35	-4,117.5	638.3	672.0	585.6	86.46	7.773	
16,600.0	12,550.0	16,460.3	12,380.0	39.0	46.7	-75.35	-4,217.5	639.3	672.0	584.0	88.02	7.635	
16,700.0	12,550.0	16,560.3	12,380.0	39.7	47.6	-75.35	-4,317.5	640.3	672.0	582.4	89.59	7.501	
16,800.0	12,550.0	16,660.3	12,380.0	40.5	48.4	-75.35	-4,417.5	641.2	672.0	580.9	91.16	7.371	
16,900.0	12,550.0	16,760.3	12,380.0	41.3	49.3	-75.35	-4,517.5	642.2	672.0	579.3	92.75	7.246	

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 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,000.0	12,550.0	16,860.3	12,380.0	42.1	50.1	-75.35	-4,617.5	643.2	672.0	577.7	94.34	7.123	
17,100.0	12,550.0	16,960.3	12,380.0	42.9	51.0	-75.35	-4,717.5	644.2	672.0	576.1	95.93	7.005	
17,200.0	12,550.0	17,060.3	12,380.0	43.7	51.8	-75.35	-4,817.5	645.1	672.0	574.5	97.54	6.890	
17,300.0	12,550.0	17,160.3	12,380.0	44.5	52.7	-75.35	-4,917.5	646.1	672.0	572.8	99.15	6.778	
17,400.0	12,550.0	17,260.3	12,380.0	45.3	53.5	-75.35	-5,017.5	647.1	672.0	571.2	100.76	6.669	
17,500.0	12,550.0	17,360.3	12,380.0	46.1	54.4	-75.35	-5,117.5	648.0	672.0	569.6	102.38	6.564	
17,600.0	12,550.0	17,460.3	12,380.0	46.9	55.3	-75.35	-5,217.5	649.0	672.0	568.0	104.00	6.461	
17,700.0	12,550.0	17,560.3	12,380.0	47.7	56.2	-75.35	-5,317.5	650.0	672.0	566.3	105.63	6.361	
17,800.0	12,550.0	17,660.3	12,380.0	48.5	57.0	-75.35	-5,417.5	651.0	672.0	564.7	107.27	6.264	
17,900.0	12,550.0	17,760.3	12,380.0	49.4	57.9	-75.35	-5,517.5	651.9	672.0	563.1	108.91	6.170	
18,000.0	12,550.0	17,860.3	12,380.0	50.2	58.8	-75.35	-5,617.5	652.9	672.0	561.4	110.55	6.079	
18,100.0	12,550.0	17,960.3	12,380.0	51.0	59.7	-75.35	-5,717.5	653.9	672.0	559.8	112.19	5.989	
18,200.0	12,550.0	18,060.3	12,380.0	51.8	60.6	-75.35	-5,817.5	654.9	672.0	558.1	113.84	5.902	
18,300.0	12,550.0	18,160.3	12,380.0	52.6	61.5	-75.35	-5,917.4	655.8	672.0	556.5	115.50	5.818	
18,400.0	12,550.0	18,260.3	12,380.0	53.4	62.3	-75.35	-6,017.4	656.8	671.9	554.8	117.15	5.736	
18,500.0	12,550.0	18,360.3	12,380.0	54.3	63.2	-75.35	-6,117.4	657.8	671.9	553.1	118.82	5.655	
18,600.0	12,550.0	18,460.3	12,380.0	55.1	64.1	-75.35	-6,217.4	658.7	671.9	551.5	120.48	5.577	
18,700.0	12,550.0	18,560.3	12,380.0	55.9	65.0	-75.34	-6,317.4	659.7	671.9	549.8	122.15	5.501	
18,800.0	12,550.0	18,660.3	12,380.0	56.7	65.9	-75.34	-6,417.4	660.7	671.9	548.1	123.82	5.427	
18,900.0	12,550.0	18,760.3	12,380.0	57.5	66.8	-75.34	-6,517.4	661.7	671.9	546.4	125.49	5.355	
19,000.0	12,550.0	18,860.3	12,380.0	58.4	67.7	-75.34	-6,617.4	662.6	671.9	544.8	127.16	5.284	
19,100.0	12,550.0	18,960.3	12,380.0	59.2	68.6	-75.34	-6,717.4	663.6	671.9	543.1	128.84	5.215	
19,200.0	12,550.0	19,060.3	12,380.0	60.0	69.5	-75.34	-6,817.4	664.6	671.9	541.4	130.52	5.148	
19,300.0	12,550.0	19,160.3	12,380.0	60.8	70.5	-75.34	-6,917.4	665.5	671.9	539.7	132.20	5.082	
19,400.0	12,550.0	19,260.3	12,380.0	61.7	71.4	-75.34	-7,017.4	666.5	671.9	538.0	133.89	5.018	
19,500.0	12,550.0	19,360.3	12,380.0	62.5	72.3	-75.34	-7,117.4	667.5	671.9	536.3	135.58	4.956	
19,600.0	12,550.0	19,460.3	12,380.0	63.3	73.2	-75.34	-7,217.4	668.5	671.9	534.6	137.27	4.895	
19,700.0	12,550.0	19,560.3	12,380.0	64.2	74.1	-75.34	-7,317.4	669.4	671.9	532.9	138.96	4.835	
19,800.0	12,550.0	19,660.3	12,380.0	65.0	75.0	-75.34	-7,417.4	670.4	671.9	531.2	140.65	4.777	
19,900.0	12,550.0	19,760.3	12,380.0	65.8	75.9	-75.34	-7,517.4	671.4	671.9	529.5	142.35	4.720	
20,000.0	12,550.0	19,860.3	12,380.0	66.7	76.8	-75.34	-7,617.4	672.4	671.9	527.8	144.04	4.664	
20,100.0	12,550.0	19,960.3	12,380.0	67.5	77.8	-75.34	-7,717.4	673.3	671.9	526.1	145.74	4.610	
20,200.0	12,550.0	20,060.3	12,380.0	68.3	78.7	-75.34	-7,817.4	674.3	671.9	524.4	147.44	4.557	
20,300.0	12,550.0	20,160.3	12,380.0	69.2	79.6	-75.34	-7,917.4	675.3	671.9	522.7	149.15	4.505	
20,400.0	12,550.0	20,260.3	12,380.0	70.0	80.5	-75.34	-8,017.3	676.2	671.9	521.0	150.85	4.454	
20,500.0	12,550.0	20,360.3	12,380.0	70.8	81.4	-75.34	-8,117.3	677.2	671.9	519.3	152.55	4.404	
20,516.6	12,550.0	20,376.8	12,380.0	71.0	81.6	-75.34	-8,133.9	677.4	671.9	519.0	152.84	4.396	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.4	60.0	60.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.4	60.0	60.0	58.0	1.99	30.132		
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.4	60.0	60.0	56.7	3.31	18.118		
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.4	60.0	60.0	55.8	4.20	14.301		
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.4	60.0	60.0	55.1	4.91	12.215		
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.4	60.0	60.0	54.5	5.53	10.844		
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.4	60.0	60.0	53.9	6.09	9.852		
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.4	60.0	60.0	53.4	6.60	9.089		
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.4	60.0	60.0	52.9	7.08	8.479		
900.0	900.0	900.0	900.0	3.6	3.6	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	0.4	60.0	60.0	48.6	11.44	5.245 CC, ES		
2,100.0	2,100.0	2,097.9	2,097.9	5.7	5.8	89.57	0.5	61.7	61.7	49.9	11.81	5.226 SF		
2,200.0	2,200.0	2,195.6	2,195.4	5.9	6.0	89.49	0.6	66.7	66.8	54.7	12.15	5.501		
2,300.0	2,300.0	2,292.8	2,292.3	6.0	6.2	89.38	0.8	74.9	75.3	62.9	12.47	6.040		
2,400.0	2,400.0	2,389.4	2,388.2	6.2	6.4	89.26	1.1	86.4	87.2	74.4	12.78	6.823		
2,500.0	2,500.0	2,485.1	2,482.7	6.3	6.6	89.15	1.5	101.0	102.4	89.3	13.08	7.830		
2,600.0	2,600.0	2,579.7	2,575.7	6.4	6.8	89.05	2.0	118.4	120.9	107.5	13.36	9.049		
2,700.0	2,700.0	2,676.7	2,670.7	6.6	7.2	88.97	2.5	138.5	141.6	127.6	13.94	10.153		
2,800.0	2,800.0	2,774.5	2,766.4	6.7	7.4	88.91	3.0	158.7	162.3	148.0	14.31	11.343		
2,900.0	2,900.0	2,872.4	2,862.1	6.8	7.6	88.86	3.6	179.0	183.0	168.5	14.57	12.558		
3,000.0	3,000.0	2,970.2	2,957.8	7.0	7.7	88.83	4.1	199.3	203.8	188.9	14.84	13.728		
3,100.0	3,100.0	3,068.0	3,053.5	7.1	7.8	88.80	4.6	219.6	224.5	209.4	15.11	14.854		
3,200.0	3,200.0	3,165.8	3,149.2	7.2	8.0	88.77	5.2	239.8	245.2	229.8	15.39	15.938		
3,300.0	3,300.0	3,263.7	3,244.9	7.4	8.1	88.75	5.7	260.1	265.9	250.3	15.66	16.983		
3,400.0	3,400.0	3,361.5	3,340.6	7.5	8.3	88.73	6.2	280.4	286.7	270.7	15.94	17.989		
3,500.0	3,500.0	3,459.3	3,436.3	7.6	8.4	88.71	6.8	300.6	307.4	291.2	16.21	18.959		
3,600.0	3,600.0	3,557.1	3,532.0	7.8	8.6	88.70	7.3	320.9	328.1	311.6	16.49	19.894		
3,700.0	3,700.0	3,655.0	3,627.7	7.9	8.7	88.69	7.8	341.2	348.9	332.1	16.78	20.796		
3,800.0	3,800.0	3,752.8	3,723.4	8.0	8.9	88.68	8.4	361.5	369.6	352.5	17.06	21.666		
3,900.0	3,900.0	3,850.6	3,819.1	8.1	9.0	88.67	8.9	381.7	390.3	373.0	17.34	22.506		
4,000.0	4,000.0	3,948.5	3,914.8	8.2	9.2	88.66	9.4	402.0	411.0	393.4	17.63	23.317		
4,100.0	4,100.0	4,045.9	4,010.1	8.4	9.4	167.75	10.0	422.2	433.4	415.5	17.96	24.140		
4,193.1	4,192.9	4,135.9	4,098.1	8.5	9.5	167.77	10.4	440.8	457.3	439.0	18.23	25.077		
4,200.0	4,199.8	4,142.5	4,104.7	8.5	9.5	167.78	10.5	442.2	459.1	440.9	18.25	25.158		
4,300.0	4,299.6	4,238.8	4,198.8	8.7	9.7	167.94	11.0	462.2	486.3	467.7	18.59	26.157		
4,400.0	4,399.4	4,335.0	4,293.0	8.8	9.9	168.08	11.5	482.1	513.4	494.5	18.86	27.223		
4,500.0	4,499.2	4,431.3	4,387.1	8.9	10.0	168.21	12.1	502.1	540.5	521.4	19.13	28.255		
4,600.0	4,598.9	4,527.5	4,481.3	9.0	10.2	168.32	12.6	522.0	567.7	548.3	19.41	29.253		
4,700.0	4,698.7	4,623.8	4,575.4	9.1	10.4	168.42	13.1	541.9	594.8	575.1	19.68	30.218		
4,800.0	4,798.5	4,720.0	4,669.6	9.2	10.5	168.52	13.6	561.9	621.9	602.0	19.97	31.151		
4,900.0	4,898.2	4,816.2	4,763.7	9.3	10.7	168.61	14.2	581.8	649.1	628.8	20.25	32.053		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 702H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-r.5 MWD+IFR1+SAG+FDIR											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
5,000.0	4,998.0	4,912.5	4,857.9	9.4	10.9	168.69	14.7	601.8	676.2	655.7	20.54	32.925	
5,100.0	5,097.8	5,008.7	4,952.0	9.5	11.1	168.76	15.2	621.7	703.4	682.5	20.83	33.769	
5,200.0	5,197.6	5,105.0	5,046.2	9.7	11.3	168.83	15.7	641.7	730.5	709.4	21.12	34.585	
5,300.0	5,297.3	5,201.2	5,140.3	9.8	11.4	168.89	16.3	661.6	757.6	736.2	21.42	35.375	
5,400.0	5,397.1	5,297.5	5,234.5	9.9	11.6	168.95	16.8	681.5	784.8	763.1	21.72	36.139	
5,500.0	5,496.9	5,393.7	5,328.6	10.0	11.8	169.01	17.3	701.5	811.9	789.9	22.02	36.878	
5,600.0	5,596.7	5,489.9	5,422.8	10.1	12.0	169.06	17.8	721.4	839.1	816.8	22.32	37.593	
5,700.0	5,696.4	5,586.2	5,516.9	10.2	12.2	169.10	18.4	741.4	866.2	843.6	22.63	38.285	
5,717.8	5,714.2	5,603.3	5,533.7	10.3	12.2	169.11	18.4	744.9	871.1	848.4	22.67	38.420	
5,800.0	5,796.2	5,682.6	5,611.2	10.3	12.3	169.19	18.9	761.4	892.8	869.9	22.92	38.950	
5,900.0	5,896.1	5,779.4	5,706.0	10.5	12.5	169.25	19.4	781.4	917.8	894.6	23.23	39.510	
6,000.0	5,996.1	5,876.7	5,801.1	10.6	12.7	169.29	19.9	801.6	941.1	917.5	23.54	39.986	
6,100.0	6,096.1	5,974.3	5,896.6	10.7	12.9	169.30	20.5	821.8	962.7	938.9	23.84	40.384	
6,103.9	6,100.0	5,978.1	5,900.4	10.7	12.9	90.15	20.5	822.6	963.5	939.7	23.85	40.398	
6,200.0	6,196.1	6,072.1	5,992.3	10.8	13.1	90.12	21.0	842.1	983.4	959.3	24.13	40.752	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.39	-0.6	-89.7	89.7					
100.0	100.0	100.0	100.0	0.8	0.8	-90.39	-0.6	-89.7	89.7	87.7	1.99	45.057		
200.0	200.0	200.0	200.0	1.4	1.4	-90.39	-0.6	-89.7	89.7	86.4	3.31	27.093		
300.0	300.0	300.0	300.0	1.9	1.9	-90.39	-0.6	-89.7	89.7	85.5	4.20	21.385		
400.0	400.0	400.0	400.0	2.2	2.2	-90.39	-0.6	-89.7	89.7	84.8	4.91	18.265		
500.0	500.0	500.0	500.0	2.6	2.6	-90.39	-0.6	-89.7	89.7	84.2	5.53	16.215		
600.0	600.0	600.0	600.0	2.8	2.8	-90.39	-0.6	-89.7	89.7	83.6	6.09	14.732		
700.0	700.0	700.0	700.0	3.1	3.1	-90.39	-0.6	-89.7	89.7	83.1	6.60	13.591		
800.0	800.0	800.0	800.0	3.3	3.3	-90.39	-0.6	-89.7	89.7	82.6	7.08	12.678		
900.0	900.0	900.0	900.0	3.6	3.6	-90.39	-0.6	-89.7	89.7	82.2	7.52	11.925		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.39	-0.6	-89.7	89.7	81.8	7.95	11.289		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.39	-0.6	-89.7	89.7	81.4	8.35	10.743		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.39	-0.6	-89.7	89.7	81.0	8.74	10.266		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.39	-0.6	-89.7	89.7	80.6	9.11	9.846		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.39	-0.6	-89.7	89.7	80.2	9.47	9.471		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.39	-0.6	-89.7	89.7	79.9	9.82	9.134		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.39	-0.6	-89.7	89.7	79.6	10.16	8.829		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.39	-0.6	-89.7	89.7	79.2	10.49	8.550		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.39	-0.6	-89.7	89.7	78.9	10.82	8.295		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.39	-0.6	-89.7	89.7	78.6	11.13	8.060		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.39	-0.6	-89.7	89.7	78.3	11.44	7.843 CC, ES		
2,100.0	2,100.0	2,096.9	2,096.9	5.7	5.8	-90.37	-0.6	-91.4	91.4	79.6	11.81	7.743 SF		
2,200.0	2,200.0	2,193.6	2,193.5	5.9	6.0	-90.31	-0.5	-96.3	96.5	84.3	12.14	7.945		
2,300.0	2,300.0	2,289.9	2,289.4	6.0	6.2	-90.22	-0.4	-104.4	104.9	92.4	12.47	8.415		
2,400.0	2,400.0	2,385.5	2,384.3	6.2	6.4	-90.11	-0.2	-115.6	116.7	103.9	12.78	9.132		
2,500.0	2,500.0	2,480.3	2,478.0	6.3	6.6	-90.00	0.0	-129.9	131.7	118.6	13.07	10.076		
2,600.0	2,600.0	2,574.0	2,570.1	6.4	6.8	-89.90	0.2	-147.0	150.0	136.7	13.36	11.232		
2,700.0	2,700.0	2,666.5	2,660.5	6.6	7.0	-89.81	0.5	-166.9	171.5	157.9	13.63	12.583		
2,800.0	2,800.0	2,757.5	2,748.7	6.7	7.2	-89.73	0.9	-189.3	196.1	182.2	13.89	14.117		
2,900.0	2,900.0	2,847.1	2,834.8	6.8	7.3	-89.66	1.3	-214.0	223.7	209.6	14.14	15.820		
3,000.0	3,000.0	2,935.0	2,918.5	7.0	7.5	-89.60	1.7	-240.9	254.4	240.0	14.35	17.722		
3,100.0	3,100.0	3,026.8	3,005.2	7.1	7.6	-89.55	2.1	-271.1	287.2	272.6	14.56	19.720		
3,200.0	3,200.0	3,121.2	3,094.3	7.2	7.7	-89.51	2.6	-302.2	320.2	305.4	14.84	21.574		
3,300.0	3,300.0	3,215.6	3,183.4	7.4	7.9	-89.48	3.1	-333.4	353.2	338.1	15.12	23.354		
3,400.0	3,400.0	3,310.0	3,272.6	7.5	8.0	-89.45	3.5	-364.5	386.2	370.8	15.41	25.062		
3,500.0	3,500.0	3,404.4	3,361.7	7.6	8.2	-89.42	4.0	-395.7	419.2	403.5	15.70	26.703		
3,600.0	3,600.0	3,498.8	3,450.8	7.8	8.3	-89.40	4.5	-426.8	452.2	436.2	15.99	28.279		
3,700.0	3,700.0	3,593.2	3,539.9	7.9	8.5	-89.38	4.9	-458.0	485.2	468.9	16.29	29.793		
3,800.0	3,800.0	3,687.6	3,629.0	8.0	8.6	-89.37	5.4	-489.1	518.2	501.6	16.58	31.247		
3,900.0	3,900.0	3,782.0	3,718.1	8.1	8.8	-89.35	5.9	-520.3	551.2	534.3	16.88	32.645		
4,000.0	4,000.0	3,876.4	3,807.2	8.2	9.0	-89.34	6.3	-551.4	584.2	567.0	17.19	33.988		
4,100.0	4,100.0	3,971.4	3,896.8	8.4	9.2	-10.09	6.8	-582.8	615.6	598.0	17.53	35.111		
4,193.1	4,192.9	4,060.6	3,981.1	8.5	9.3	-10.07	7.3	-612.2	641.8	624.0	17.83	35.999		
4,200.0	4,199.8	4,067.3	3,987.4	8.5	9.3	-10.07	7.3	-614.4	643.7	625.8	17.84	36.076		
4,300.0	4,299.6	4,163.7	4,078.4	8.7	9.5	-10.17	7.8	-646.2	670.3	652.1	18.22	36.801		
4,400.0	4,399.4	4,260.1	4,169.4	8.8	9.7	-10.25	8.2	-678.0	697.0	678.5	18.52	37.645		
4,500.0	4,499.2	4,356.4	4,260.3	8.9	9.9	-10.33	8.7	-709.8	723.7	704.9	18.82	38.452		
4,600.0	4,598.9	4,452.8	4,351.3	9.0	10.2	-10.40	9.2	-741.6	750.4	731.2	19.13	39.225		
4,700.0	4,698.7	4,549.2	4,442.3	9.1	10.4	-10.47	9.7	-773.4	777.0	757.6	19.44	39.965		
4,800.0	4,798.5	4,645.6	4,533.3	9.2	10.6	-10.53	10.2	-805.2	803.7	784.0	19.76	40.674		
4,900.0	4,898.2	4,744.6	4,626.8	9.3	10.8	-10.59	10.6	-837.9	830.4	810.3	20.08	41.361		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
5,000.0	4,998.0	4,858.0	4,734.3	9.4	11.1	-10.66	11.2	-873.9	855.8	835.3	20.46	41.818	
5,100.0	5,097.8	4,972.6	4,843.6	9.5	11.4	-10.73	11.7	-908.1	879.3	858.4	20.86	42.148	
5,200.0	5,197.6	5,088.2	4,954.6	9.7	11.6	-10.79	12.2	-940.4	900.8	879.5	21.26	42.380	
5,300.0	5,297.3	5,204.8	5,067.2	9.8	11.9	-10.85	12.6	-970.7	920.3	898.7	21.64	42.521	
5,400.0	5,397.1	5,322.3	5,181.3	9.9	12.1	-10.92	13.1	-998.9	937.9	915.9	22.03	42.578	
5,500.0	5,496.9	5,440.6	5,296.7	10.0	12.4	-10.98	13.5	-1,025.0	953.4	931.0	22.40	42.555	
5,600.0	5,596.7	5,559.6	5,413.3	10.1	12.6	-11.05	13.8	-1,048.7	966.9	944.1	22.77	42.456	
5,700.0	5,696.4	5,679.3	5,531.0	10.2	12.8	-11.11	14.1	-1,070.2	978.3	955.1	23.13	42.287	
5,717.8	5,714.2	5,700.6	5,552.1	10.3	12.9	-11.13	14.2	-1,073.8	980.1	956.9	23.19	42.266	
5,800.0	5,796.2	5,799.4	5,649.6	10.3	13.0	-11.19	14.4	-1,089.3	988.1	964.7	23.47	42.097	
5,900.0	5,896.1	5,919.8	5,768.9	10.5	13.2	-11.25	14.7	-1,105.9	997.6	973.8	23.81	41.898	

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 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
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	2.623 Normal Operations, CC, ES		
2,100.0	2,100.0	2,098.9	2,098.9	5.7	5.8	-90.10	-0.1	-31.7	31.7	19.9	11.81	2.686 Normal Operations		
2,200.0	2,200.0	2,197.6	2,197.5	5.9	6.0	-89.37	0.4	-36.8	36.9	24.7	12.15	3.034		
2,300.0	2,300.0	2,295.8	2,295.3	6.0	6.2	-88.52	1.2	-45.2	45.5	33.0	12.48	3.642		
2,400.0	2,400.0	2,393.4	2,392.1	6.2	6.4	-87.75	2.2	-56.9	57.4	44.6	12.79	4.489		
2,500.0	2,500.0	2,490.9	2,488.5	6.3	6.5	-87.15	3.6	-71.6	72.6	59.6	12.99	5.586		
2,600.0	2,600.0	2,589.6	2,586.0	6.4	6.6	-86.73	5.0	-87.1	88.4	75.1	13.26	6.667		
2,700.0	2,700.0	2,688.4	2,683.5	6.6	6.8	-86.43	6.4	-102.7	104.2	90.7	13.53	7.701		
2,800.0	2,800.0	2,787.1	2,781.0	6.7	6.9	-86.22	7.8	-118.3	120.0	106.2	13.81	8.694		
2,900.0	2,900.0	2,885.8	2,878.5	6.8	7.0	-86.05	9.2	-133.8	135.9	121.8	14.09	9.646		
3,000.0	3,000.0	2,984.6	2,976.0	7.0	7.2	-85.92	10.6	-149.4	151.7	137.3	14.36	10.562		
3,100.0	3,100.0	3,083.3	3,073.5	7.1	7.3	-85.82	12.1	-165.0	167.5	152.9	14.64	11.442		
3,200.0	3,200.0	3,182.0	3,171.0	7.2	7.5	-85.73	13.5	-180.6	183.4	168.5	14.92	12.288		
3,300.0	3,300.0	3,280.8	3,268.5	7.4	7.6	-85.66	14.9	-196.1	199.2	184.0	15.21	13.097		
3,400.0	3,400.0	3,382.4	3,368.9	7.5	7.8	-85.60	16.3	-211.6	214.5	199.0	15.51	13.834		
3,500.0	3,500.0	3,485.5	3,471.0	7.6	8.0	-85.55	17.6	-225.6	228.2	212.3	15.81	14.430		
3,600.0	3,600.0	3,589.0	3,573.8	7.8	8.1	-85.51	18.7	-237.8	240.0	223.9	16.11	14.894		
3,700.0	3,700.0	3,692.9	3,677.2	7.9	8.3	-85.48	19.6	-248.2	250.0	233.6	16.41	15.238		
3,800.0	3,800.0	3,797.2	3,781.1	8.0	8.4	-85.46	20.4	-256.7	258.2	241.5	16.70	15.466		
3,900.0	3,900.0	3,901.8	3,885.5	8.1	8.6	-85.44	21.0	-263.4	264.6	247.7	16.98	15.586		
4,000.0	4,000.0	4,006.6	3,990.1	8.2	8.7	-85.43	21.4	-268.2	269.2	252.0	17.25	15.604		
4,100.0	4,100.0	4,111.5	4,095.0	8.4	8.9	-6.31	21.7	-271.0	270.2	252.7	17.56	15.390		
4,193.1	4,192.9	4,209.0	4,192.6	8.5	9.0	-6.44	21.8	-272.0	266.4	248.6	17.79	14.973		
4,200.0	4,199.8	4,216.3	4,199.8	8.5	9.0	-6.45	21.8	-272.0	265.9	248.1	17.80	14.944		
4,300.0	4,299.6	4,316.1	4,299.6	8.7	9.1	-6.62	21.8	-272.0	259.3	241.2	18.07	14.347		
4,400.0	4,399.4	4,415.9	4,399.4	8.8	9.2	-6.79	21.8	-272.0	252.6	234.3	18.26	13.831		
4,500.0	4,499.2	4,515.6	4,499.2	8.9	9.3	-6.98	21.8	-272.0	245.9	227.4	18.45	13.325		
4,600.0	4,598.9	4,615.4	4,598.9	9.0	9.4	-7.17	21.8	-272.0	239.2	220.5	18.65	12.828		
4,700.0	4,698.7	4,715.2	4,698.7	9.1	9.5	-7.38	21.8	-272.0	232.5	213.7	18.84	12.341		
4,800.0	4,798.5	4,815.0	4,798.5	9.2	9.6	-7.60	21.8	-272.0	225.8	206.8	19.04	11.863		
4,900.0	4,898.2	4,914.7	4,898.2	9.3	9.7	-7.83	21.8	-272.0	219.2	199.9	19.24	11.394		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,998.0	5,014.5	4,998.0	9.4	9.8	-8.08	21.8	-272.0	212.5	193.1	19.44	10.934	
5,100.0	5,097.8	5,114.3	5,097.8	9.5	9.9	-8.34	21.8	-272.0	205.8	186.2	19.64	10.483	
5,200.0	5,197.6	5,214.0	5,197.6	9.7	10.0	-8.62	21.8	-272.0	199.2	179.3	19.84	10.040	
5,300.0	5,297.3	5,313.8	5,297.3	9.8	10.1	-8.93	21.8	-272.0	192.5	172.5	20.04	9.607	
5,400.0	5,397.1	5,413.6	5,397.1	9.9	10.2	-9.25	21.8	-272.0	185.9	165.6	20.24	9.181	
5,500.0	5,496.9	5,513.4	5,496.9	10.0	10.3	-9.59	21.8	-272.0	179.2	158.8	20.45	8.765	
5,600.0	5,596.7	5,613.1	5,596.7	10.1	10.4	-9.97	21.8	-272.0	172.6	151.9	20.65	8.356	
5,700.0	5,696.4	5,712.9	5,696.4	10.2	10.4	-10.37	21.8	-272.0	166.0	145.1	20.86	7.956	
5,717.8	5,714.2	5,730.6	5,714.2	10.3	10.5	-10.44	21.8	-272.0	164.8	143.9	20.89	7.889	
5,800.0	5,796.2	5,812.7	5,796.2	10.3	10.5	-10.76	21.8	-272.0	159.9	138.9	21.05	7.595	
5,900.0	5,896.1	5,912.6	5,896.1	10.5	10.6	-11.05	21.8	-272.0	155.6	134.3	21.26	7.318	
6,000.0	5,996.1	6,012.6	5,996.1	10.6	10.7	-11.24	21.8	-272.0	152.9	131.5	21.46	7.126	
6,100.0	6,096.1	6,112.6	6,096.1	10.7	10.8	-11.31	21.8	-272.0	152.0	130.3	21.66	7.018	
6,103.9	6,100.0	6,116.5	6,100.0	10.7	10.8	-90.46	21.8	-272.0	152.0	130.3	21.67	7.016	
6,200.0	6,196.1	6,212.6	6,196.1	10.8	10.9	-90.46	21.8	-272.0	152.0	130.2	21.84	6.959	
6,300.0	6,296.1	6,312.6	6,296.1	10.9	11.0	-90.46	21.8	-272.0	152.0	130.0	22.03	6.901	
6,400.0	6,396.1	6,412.6	6,396.1	11.0	11.1	-90.46	21.8	-272.0	152.0	129.8	22.21	6.843	
6,500.0	6,496.1	6,512.6	6,496.1	11.1	11.2	-90.46	21.8	-272.0	152.0	129.6	22.40	6.787	
6,600.0	6,596.1	6,612.6	6,596.1	11.2	11.3	-90.46	21.8	-272.0	152.0	129.4	22.58	6.731	
6,700.0	6,696.1	6,712.6	6,696.1	11.3	11.4	-90.46	21.8	-272.0	152.0	129.2	22.77	6.677	
6,800.0	6,796.1	6,812.6	6,796.1	11.4	11.5	-90.46	21.8	-272.0	152.0	129.1	22.95	6.623	
6,900.0	6,896.1	6,912.6	6,896.1	11.4	11.6	-90.46	21.8	-272.0	152.0	128.9	23.13	6.571	
7,000.0	6,996.1	7,012.6	6,996.1	11.5	11.6	-90.46	21.8	-272.0	152.0	128.7	23.32	6.519	
7,100.0	7,096.1	7,112.6	7,096.1	11.6	11.7	-90.46	21.8	-272.0	152.0	128.5	23.50	6.468	
7,200.0	7,196.1	7,212.6	7,196.1	11.7	11.8	-90.46	21.8	-272.0	152.0	128.3	23.68	6.419	
7,300.0	7,296.1	7,312.6	7,296.1	11.8	11.9	-90.46	21.8	-272.0	152.0	128.1	23.86	6.370	
7,400.0	7,396.1	7,412.6	7,396.1	11.9	12.0	-90.46	21.8	-272.0	152.0	128.0	24.05	6.321	
7,500.0	7,496.1	7,512.6	7,496.1	12.0	12.1	-90.46	21.8	-272.0	152.0	127.8	24.23	6.274	
7,600.0	7,596.1	7,612.6	7,596.1	12.1	12.2	-90.46	21.8	-272.0	152.0	127.6	24.41	6.227	
7,700.0	7,696.1	7,712.6	7,696.1	12.2	12.3	-90.46	21.8	-272.0	152.0	127.4	24.59	6.182	
7,800.0	7,796.1	7,812.6	7,796.1	12.3	12.4	-90.46	21.8	-272.0	152.0	127.2	24.77	6.137	
7,900.0	7,896.1	7,912.6	7,896.1	12.4	12.5	-90.46	21.8	-272.0	152.0	127.1	24.95	6.092	
8,000.0	7,996.1	8,012.6	7,996.1	12.5	12.6	-90.46	21.8	-272.0	152.0	126.9	25.13	6.049	
8,100.0	8,096.1	8,112.6	8,096.1	12.6	12.6	-90.46	21.8	-272.0	152.0	126.7	25.31	6.006	
8,200.0	8,196.1	8,212.6	8,196.1	12.7	12.7	-90.46	21.8	-272.0	152.0	126.5	25.49	5.963	
8,300.0	8,296.1	8,312.6	8,296.1	12.7	12.8	-90.46	21.8	-272.0	152.0	126.3	25.67	5.922	
8,400.0	8,396.1	8,412.6	8,396.1	12.8	12.9	-90.46	21.8	-272.0	152.0	126.2	25.85	5.881	
8,500.0	8,496.1	8,512.6	8,496.1	12.9	13.0	-90.46	21.8	-272.0	152.0	126.0	26.03	5.840	
8,600.0	8,596.1	8,612.6	8,596.1	13.0	13.1	-90.46	21.8	-272.0	152.0	125.8	26.21	5.800	
8,700.0	8,696.1	8,712.6	8,696.1	13.1	13.2	-90.46	21.8	-272.0	152.0	125.6	26.38	5.761	
8,800.0	8,796.1	8,812.6	8,796.1	13.2	13.3	-90.46	21.8	-272.0	152.0	125.4	26.56	5.722	
8,900.0	8,896.1	8,912.6	8,896.1	13.3	13.4	-90.46	21.8	-272.0	152.0	125.3	26.74	5.684	
9,000.0	8,996.1	9,012.6	8,996.1	13.4	13.4	-90.46	21.8	-272.0	152.0	125.1	26.92	5.647	
9,100.0	9,096.1	9,112.6	9,096.1	13.5	13.5	-90.46	21.8	-272.0	152.0	124.9	27.10	5.610	
9,200.0	9,196.1	9,212.6	9,196.1	13.6	13.6	-90.46	21.8	-272.0	152.0	124.7	27.27	5.573	
9,300.0	9,296.1	9,312.6	9,296.1	13.7	13.7	-90.46	21.8	-272.0	152.0	124.6	27.45	5.537	
9,400.0	9,396.1	9,412.6	9,396.1	13.8	13.8	-90.46	21.8	-272.0	152.0	124.4	27.63	5.502	
9,500.0	9,496.1	9,512.6	9,496.1	13.8	13.9	-90.46	21.8	-272.0	152.0	124.2	27.80	5.467	
9,600.0	9,596.1	9,612.6	9,596.1	13.9	14.0	-90.46	21.8	-272.0	152.0	124.0	27.98	5.432	
9,700.0	9,696.1	9,712.6	9,696.1	14.0	14.1	-90.46	21.8	-272.0	152.0	123.8	28.16	5.398	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,796.1	9,812.6	9,796.1	14.1	14.2	-90.46	21.8	-272.0	152.0	123.7	28.33	5.365	
9,900.0	9,896.1	9,912.6	9,896.1	14.2	14.2	-90.46	21.8	-272.0	152.0	123.5	28.51	5.332	
10,000.0	9,996.1	10,012.6	9,996.1	14.3	14.3	-90.46	21.8	-272.0	152.0	123.3	28.68	5.299	
10,100.0	10,096.1	10,112.6	10,096.1	14.4	14.4	-90.46	21.8	-272.0	152.0	123.1	28.86	5.267	
10,200.0	10,196.1	10,212.6	10,196.1	14.5	14.5	-90.46	21.8	-272.0	152.0	123.0	29.04	5.235	
10,300.0	10,296.1	10,312.6	10,296.1	14.6	14.6	-90.46	21.8	-272.0	152.0	122.8	29.21	5.204	
10,400.0	10,396.1	10,412.6	10,396.1	14.7	14.7	-90.46	21.8	-272.0	152.0	122.6	29.39	5.173	
10,500.0	10,496.1	10,512.6	10,496.1	14.7	14.8	-90.46	21.8	-272.0	152.0	122.4	29.56	5.142	
10,600.0	10,596.1	10,612.6	10,596.1	14.8	14.9	-90.46	21.8	-272.0	152.0	122.3	29.74	5.112	
10,700.0	10,696.1	10,712.6	10,696.1	14.9	14.9	-90.46	21.8	-272.0	152.0	122.1	29.91	5.082	
10,800.0	10,796.1	10,812.6	10,796.1	15.0	15.0	-90.46	21.8	-272.0	152.0	121.9	30.09	5.052	
10,900.0	10,896.1	10,912.6	10,896.1	15.1	15.1	-90.46	21.8	-272.0	152.0	121.7	30.26	5.023	
11,000.0	10,996.1	11,012.6	10,996.1	15.2	15.2	-90.46	21.8	-272.0	152.0	121.6	30.43	4.995	
11,100.0	11,096.1	11,112.6	11,096.1	15.3	15.3	-90.46	21.8	-272.0	152.0	121.4	30.61	4.966	
11,200.0	11,196.1	11,212.6	11,196.1	15.4	15.4	-90.46	21.8	-272.0	152.0	121.2	30.78	4.938	
11,300.0	11,296.1	11,312.6	11,296.1	15.5	15.5	-90.46	21.8	-272.0	152.0	121.0	30.96	4.910	
11,400.0	11,396.1	11,412.6	11,396.1	15.5	15.6	-90.46	21.8	-272.0	152.0	120.9	31.13	4.883	
11,500.0	11,496.1	11,512.6	11,496.1	15.6	15.6	-90.46	21.8	-272.0	152.0	120.7	31.30	4.856	
11,600.0	11,596.1	11,612.6	11,596.1	15.7	15.7	-90.46	21.8	-272.0	152.0	120.5	31.48	4.829	
11,700.0	11,696.1	11,712.6	11,696.1	15.8	15.8	-90.46	21.8	-272.0	152.0	120.4	31.65	4.803	
11,800.0	11,796.1	11,812.6	11,796.1	15.9	15.9	-90.46	21.8	-272.0	152.0	120.2	31.82	4.777	
11,900.0	11,896.1	11,912.6	11,896.1	16.0	16.0	-90.46	21.8	-272.0	152.0	120.0	31.99	4.751	
12,000.0	11,996.1	12,012.6	11,996.1	16.1	16.1	-90.46	21.8	-272.0	152.0	119.8	32.17	4.725	
12,076.4	12,072.5	12,089.0	12,072.5	16.1	16.1	-90.46	21.8	-272.0	152.0	119.7	32.29	4.708	
12,077.5	12,073.6	12,090.0	12,073.6	16.1	16.1	90.10	21.8	-272.0	152.0	119.7	32.29	4.708	
12,100.0	12,096.1	12,112.6	12,096.1	16.1	16.2	90.32	21.8	-272.0	152.0	119.7	32.31	4.704	
12,125.0	12,121.0	12,137.5	12,121.0	16.1	16.2	91.03	21.8	-272.0	152.0	119.7	32.33	4.703	
12,150.0	12,145.8	12,162.3	12,145.8	16.1	16.2	92.21	21.8	-272.0	152.1	119.8	32.34	4.704	
12,175.0	12,170.4	12,186.9	12,170.4	16.1	16.2	93.84	21.8	-272.0	152.4	120.0	32.35	4.709	
12,200.0	12,194.7	12,211.2	12,194.7	16.1	16.3	95.88	21.8	-272.0	152.9	120.5	32.36	4.723	
12,225.0	12,218.7	12,235.2	12,218.7	16.1	16.3	98.27	21.8	-272.0	153.8	121.4	32.37	4.750	
12,250.0	12,242.3	12,258.8	12,242.3	16.1	16.3	100.96	21.8	-272.0	155.2	122.8	32.38	4.794	
12,275.0	12,265.4	12,281.9	12,265.4	16.0	16.3	103.86	21.8	-272.0	157.4	125.0	32.39	4.861	
12,300.0	12,288.0	12,306.4	12,289.9	16.0	16.3	107.07	21.5	-272.0	160.5	128.1	32.38	4.955	
12,325.0	12,310.0	12,332.1	12,315.6	16.0	16.3	110.29	19.8	-272.0	164.1	131.7	32.39	5.066	
12,350.0	12,331.4	12,358.6	12,341.9	16.0	16.3	113.39	16.7	-271.9	168.3	135.9	32.44	5.188	
12,375.0	12,352.0	12,385.8	12,368.6	16.0	16.3	116.35	12.0	-271.9	173.0	140.4	32.56	5.312	
12,400.0	12,371.9	12,413.7	12,395.9	16.0	16.3	119.16	5.6	-271.8	178.1	145.3	32.78	5.431	
12,425.0	12,390.9	12,442.5	12,423.4	16.0	16.2	121.82	-2.7	-271.8	183.5	150.4	33.13	5.539	
12,450.0	12,409.1	12,472.2	12,451.3	16.0	16.2	124.32	-13.0	-271.7	189.2	155.5	33.61	5.628	
12,475.0	12,426.4	12,502.9	12,479.3	16.0	16.2	126.66	-25.3	-271.5	195.0	160.8	34.25	5.694	
12,500.0	12,442.7	12,534.5	12,507.3	16.0	16.2	128.85	-39.9	-271.4	200.9	165.9	35.04	5.735	
12,525.0	12,458.0	12,567.1	12,535.2	16.1	16.2	130.87	-57.0	-271.2	206.9	170.9	35.99	5.749	
12,550.0	12,472.2	12,600.9	12,562.7	16.1	16.2	132.74	-76.5	-271.0	212.8	175.7	37.07	5.739	
12,575.0	12,485.3	12,635.7	12,589.5	16.1	16.2	134.45	-98.6	-270.8	218.5	180.2	38.28	5.708	
12,600.0	12,497.3	12,671.6	12,615.5	16.1	16.2	136.00	-123.5	-270.6	224.0	184.4	39.57	5.660	
12,625.0	12,508.1	12,708.7	12,640.2	16.1	16.2	137.40	-151.1	-270.3	229.1	188.2	40.92	5.600	
12,650.0	12,517.7	12,746.8	12,663.3	16.1	16.2	138.64	-181.4	-270.0	233.9	191.6	42.28	5.532	
12,675.0	12,526.2	12,786.0	12,684.5	16.1	16.2	139.73	-214.4	-269.6	238.2	194.6	43.62	5.462	
12,700.0	12,533.3	12,826.2	12,703.3	16.1	16.3	140.65	-249.8	-269.3	242.0	197.1	44.89	5.392	
12,725.0	12,539.2	12,867.2	12,719.4	16.1	16.3	141.41	-287.6	-268.9	245.2	199.2	46.04	5.326	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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: Reference		0-r.5 MWD+IFR1+SAG+FDIR					Rule Assigned:			Offset Well Error: 0.0 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
12,750.0	12,543.9	12,909.0	12,732.4	16.2	16.3	142.00	-327.2	-268.5	247.8	200.7	47.04	5.267		
12,775.0	12,547.2	12,951.3	12,741.9	16.2	16.4	142.43	-368.5	-268.1	249.6	201.8	47.85	5.217		
12,800.0	12,549.2	12,994.1	12,747.9	16.2	16.4	142.69	-410.8	-267.7	250.8	202.3	48.43	5.178		
12,826.4	12,550.0	13,039.5	12,750.0	16.2	16.4	142.78	-456.2	-267.2	251.2	202.4	48.78	5.149		
12,855.8	12,550.0	13,068.7	12,750.0	16.2	16.5	142.78	-485.3	-267.0	251.2	202.3	48.81	5.146		
12,900.0	12,550.0	13,112.9	12,750.0	16.3	16.6	142.78	-529.6	-266.5	251.1	202.3	48.85	5.141		
12,916.4	12,550.0	13,129.3	12,750.0	16.3	16.6	142.78	-545.9	-266.4	251.1	202.3	48.87	5.139		
12,920.2	12,550.0	13,133.0	12,750.0	16.3	16.6	142.78	-549.7	-266.3	251.1	202.3	48.88	5.139		
13,000.0	12,550.0	13,212.9	12,750.0	16.5	16.8	142.58	-629.5	-265.5	251.9	203.0	48.91	5.150		
13,100.0	12,550.0	13,312.8	12,750.0	16.8	17.0	141.79	-729.4	-264.5	254.7	205.9	48.78	5.222		
13,200.0	12,550.0	13,412.4	12,750.0	17.1	17.3	140.47	-829.1	-263.5	259.8	211.4	48.48	5.359		
13,288.4	12,550.0	13,500.2	12,750.0	17.4	17.6	138.90	-916.9	-262.7	266.4	218.3	48.10	5.538		
13,300.0	12,550.0	13,511.7	12,750.0	17.5	17.6	138.66	-928.4	-262.5	267.4	219.3	48.04	5.566		
13,400.0	12,550.0	13,610.9	12,750.0	17.8	18.0	136.65	-1,027.5	-261.6	276.1	228.5	47.61	5.800		
13,438.4	12,550.0	13,649.0	12,750.0	18.0	18.1	135.91	-1,065.6	-261.2	279.6	232.1	47.47	5.890		
13,500.0	12,550.0	13,710.1	12,750.0	18.2	18.4	134.79	-1,126.8	-260.6	284.7	237.4	47.30	6.019		
13,600.0	12,550.0	13,809.7	12,750.0	18.7	18.8	133.45	-1,226.4	-259.6	291.3	244.0	47.27	6.161		
13,700.0	12,550.0	13,909.6	12,750.0	19.2	19.3	132.65	-1,326.2	-258.6	295.3	247.8	47.48	6.220		
13,800.0	12,550.0	14,009.5	12,750.0	19.7	19.8	132.35	-1,426.2	-257.6	296.9	249.0	47.90	6.198		
13,810.4	12,550.0	14,020.0	12,750.0	19.7	19.8	132.35	-1,436.6	-257.5	296.9	248.9	47.95	6.191		
13,900.0	12,550.0	14,109.5	12,750.0	20.2	20.3	132.35	-1,526.2	-256.6	296.9	248.4	48.43	6.130		
14,000.0	12,550.0	14,209.5	12,750.0	20.7	20.8	132.35	-1,626.2	-255.6	296.9	247.9	49.00	6.059		
14,100.0	12,550.0	14,309.5	12,750.0	21.3	21.4	132.36	-1,726.2	-254.6	296.8	247.2	49.60	5.985		
14,200.0	12,550.0	14,409.5	12,750.0	21.9	21.9	132.36	-1,826.1	-253.6	296.8	246.6	50.23	5.910		
14,300.0	12,550.0	14,509.5	12,750.0	22.5	22.5	132.36	-1,926.1	-252.6	296.8	245.9	50.89	5.833		
14,400.0	12,550.0	14,609.5	12,750.0	23.1	23.1	132.36	-2,026.1	-251.6	296.8	245.2	51.58	5.754		
14,500.0	12,550.0	14,709.5	12,750.0	23.7	23.8	132.37	-2,126.1	-250.6	296.8	244.5	52.30	5.675		
14,600.0	12,550.0	14,809.5	12,750.0	24.3	24.4	132.37	-2,226.1	-249.6	296.8	243.7	53.05	5.595		
14,700.0	12,550.0	14,909.5	12,750.0	25.0	25.0	132.37	-2,326.1	-248.6	296.8	242.9	53.82	5.514		
14,800.0	12,550.0	15,009.5	12,750.0	25.7	25.7	132.37	-2,426.1	-247.6	296.7	242.1	54.62	5.433		
14,900.0	12,550.0	15,109.5	12,750.0	26.3	26.4	132.38	-2,526.1	-246.7	296.7	241.3	55.44	5.353		
15,000.0	12,550.0	15,209.5	12,750.0	27.0	27.1	132.38	-2,626.1	-245.7	296.7	240.4	56.28	5.272		
15,100.0	12,550.0	15,309.5	12,750.0	27.7	27.8	132.38	-2,726.1	-244.7	296.7	239.6	57.15	5.192		
15,200.0	12,550.0	15,409.5	12,750.0	28.4	28.5	132.38	-2,826.1	-243.7	296.7	238.7	58.03	5.113		
15,300.0	12,550.0	15,509.5	12,750.0	29.1	29.2	132.38	-2,926.1	-242.7	296.7	237.7	58.94	5.034		
15,400.0	12,550.0	15,609.5	12,750.0	29.9	29.9	132.39	-3,026.1	-241.7	296.7	236.8	59.86	4.956		
15,500.0	12,550.0	15,709.5	12,750.0	30.6	30.6	132.39	-3,126.1	-240.7	296.7	235.9	60.80	4.879		
15,600.0	12,550.0	15,809.5	12,750.0	31.3	31.4	132.39	-3,226.1	-239.7	296.6	234.9	61.76	4.803		
15,700.0	12,550.0	15,909.5	12,750.0	32.1	32.1	132.39	-3,326.1	-238.7	296.6	233.9	62.74	4.728		
15,800.0	12,550.0	16,009.5	12,750.0	32.8	32.8	132.40	-3,426.1	-237.7	296.6	232.9	63.73	4.654		
15,900.0	12,550.0	16,109.5	12,750.0	33.6	33.6	132.40	-3,526.1	-236.7	296.6	231.9	64.73	4.582		
16,000.0	12,550.0	16,209.5	12,750.0	34.3	34.3	132.40	-3,626.1	-235.7	296.6	230.8	65.75	4.511		
16,100.0	12,550.0	16,309.5	12,750.0	35.1	35.1	132.40	-3,726.1	-234.7	296.6	229.8	66.78	4.441		
16,200.0	12,550.0	16,409.5	12,750.0	35.9	35.9	132.40	-3,826.0	-233.7	296.6	228.7	67.83	4.372		
16,300.0	12,550.0	16,509.5	12,750.0	36.6	36.6	132.41	-3,926.0	-232.7	296.5	227.7	68.89	4.305		
16,400.0	12,550.0	16,609.5	12,750.0	37.4	37.4	132.41	-4,026.0	-231.7	296.5	226.6	69.96	4.239		
16,500.0	12,550.0	16,709.5	12,750.0	38.2	38.2	132.41	-4,126.0	-230.7	296.5	225.5	71.04	4.174		
16,600.0	12,550.0	16,809.5	12,750.0	39.0	39.0	132.41	-4,226.0	-229.7	296.5	224.4	72.13	4.111		
16,700.0	12,550.0	16,909.5	12,750.0	39.7	39.8	132.42	-4,326.0	-228.7	296.5	223.3	73.23	4.049		
16,800.0	12,550.0	17,009.5	12,750.0	40.5	40.5	132.42	-4,426.0	-227.7	296.5	222.1	74.34	3.988		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
16,900.0	12,550.0	17,109.5	12,750.0	41.3	41.3	132.42	-4,526.0	-226.8	296.5	221.0	75.46	3.929	
17,000.0	12,550.0	17,209.5	12,750.0	42.1	42.1	132.42	-4,626.0	-225.8	296.4	219.9	76.59	3.871	
17,100.0	12,550.0	17,309.5	12,750.0	42.9	42.9	132.43	-4,726.0	-224.8	296.4	218.7	77.73	3.814	
17,200.0	12,550.0	17,409.5	12,750.0	43.7	43.7	132.43	-4,826.0	-223.8	296.4	217.5	78.87	3.758	
17,300.0	12,550.0	17,509.5	12,750.0	44.5	44.5	132.43	-4,926.0	-222.8	296.4	216.4	80.03	3.704	
17,400.0	12,550.0	17,609.5	12,750.0	45.3	45.3	132.43	-5,026.0	-221.8	296.4	215.2	81.19	3.651	
17,500.0	12,550.0	17,709.5	12,750.0	46.1	46.1	132.43	-5,126.0	-220.8	296.4	214.0	82.35	3.599	
17,600.0	12,550.0	17,809.5	12,750.0	46.9	46.9	132.44	-5,226.0	-219.8	296.4	212.8	83.53	3.548	
17,700.0	12,550.0	17,909.5	12,750.0	47.7	47.7	132.44	-5,326.0	-218.8	296.4	211.6	84.71	3.498	
17,800.0	12,550.0	18,009.5	12,750.0	48.5	48.5	132.44	-5,426.0	-217.8	296.3	210.4	85.90	3.450	
17,900.0	12,550.0	18,109.5	12,750.0	49.4	49.4	132.44	-5,526.0	-216.8	296.3	209.2	87.09	3.402	
18,000.0	12,550.0	18,209.5	12,750.0	50.2	50.2	132.45	-5,626.0	-215.8	296.3	208.0	88.29	3.356	
18,100.0	12,550.0	18,309.5	12,750.0	51.0	51.0	132.45	-5,726.0	-214.8	296.3	206.8	89.49	3.311	
18,200.0	12,550.0	18,409.5	12,750.0	51.8	51.8	132.45	-5,825.9	-213.8	296.3	205.6	90.70	3.266	
18,300.0	12,550.0	18,509.5	12,750.0	52.6	52.6	132.45	-5,925.9	-212.8	296.3	204.4	91.92	3.223	
18,400.0	12,550.0	18,609.5	12,750.0	53.4	53.4	132.46	-6,025.9	-211.8	296.3	203.1	93.14	3.181	
18,500.0	12,550.0	18,709.5	12,750.0	54.3	54.3	132.46	-6,125.9	-210.8	296.2	201.9	94.36	3.139	
18,600.0	12,550.0	18,809.5	12,750.0	55.1	55.1	132.46	-6,225.9	-209.8	296.2	200.6	95.59	3.099	
18,700.0	12,550.0	18,909.5	12,750.0	55.9	55.9	132.46	-6,325.9	-208.8	296.2	199.4	96.82	3.059	
18,800.0	12,550.0	19,009.5	12,750.0	56.7	56.7	132.46	-6,425.9	-207.9	296.2	198.1	98.06	3.021	
18,900.0	12,550.0	19,109.5	12,750.0	57.5	57.5	132.47	-6,525.9	-206.9	296.2	196.9	99.30	2.983 Normal Operations	
19,000.0	12,550.0	19,209.5	12,750.0	58.4	58.4	132.47	-6,625.9	-205.9	296.2	195.6	100.55	2.946 Normal Operations	
19,100.0	12,550.0	19,309.5	12,750.0	59.2	59.2	132.47	-6,725.9	-204.9	296.2	194.4	101.80	2.909 Normal Operations	
19,200.0	12,550.0	19,409.5	12,750.0	60.0	60.0	132.47	-6,825.9	-203.9	296.1	193.1	103.05	2.874 Normal Operations	
19,300.0	12,550.0	19,509.5	12,750.0	60.8	60.9	132.48	-6,925.9	-202.9	296.1	191.8	104.30	2.839 Normal Operations	
19,400.0	12,550.0	19,609.5	12,750.0	61.7	61.7	132.48	-7,025.9	-201.9	296.1	190.6	105.56	2.805 Normal Operations	
19,500.0	12,550.0	19,709.5	12,750.0	62.5	62.5	132.48	-7,125.9	-200.9	296.1	189.3	106.82	2.772 Normal Operations	
19,600.0	12,550.0	19,809.5	12,750.0	63.3	63.3	132.48	-7,225.9	-199.9	296.1	188.0	108.09	2.739 Normal Operations	
19,700.0	12,550.0	19,909.5	12,750.0	64.2	64.2	132.48	-7,325.9	-198.9	296.1	186.7	109.36	2.707 Normal Operations	
19,800.0	12,550.0	20,009.5	12,750.0	65.0	65.0	132.49	-7,425.9	-197.9	296.1	185.4	110.63	2.676 Normal Operations	
19,900.0	12,550.0	20,109.5	12,750.0	65.8	65.8	132.49	-7,525.9	-196.9	296.1	184.1	111.90	2.646 Normal Operations	
20,000.0	12,550.0	20,209.5	12,750.0	66.7	66.7	132.49	-7,625.9	-195.9	296.0	182.9	113.18	2.616 Normal Operations	
20,100.0	12,550.0	20,309.5	12,750.0	67.5	67.5	132.49	-7,725.9	-194.9	296.0	181.6	114.46	2.586 Normal Operations	
20,200.0	12,550.0	20,409.5	12,750.0	68.3	68.3	132.50	-7,825.8	-193.9	296.0	180.3	115.74	2.558 Normal Operations	
20,300.0	12,550.0	20,509.5	12,750.0	69.2	69.2	132.50	-7,925.8	-192.9	296.0	179.0	117.02	2.529 Normal Operations	
20,400.0	12,550.0	20,609.5	12,750.0	70.0	70.0	132.50	-8,025.8	-191.9	296.0	177.7	118.31	2.502 Normal Operations	
20,500.0	12,550.0	20,709.5	12,750.0	70.8	70.8	132.50	-8,125.8	-190.9	296.0	176.4	119.60	2.475 Caution - Monitor Closely	
20,516.6	12,550.0	20,726.1	12,750.0	71.0	71.0	132.50	-8,142.4	-190.8	296.0	176.2	119.81	2.470 Caution - Monitor Closely, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
7,700.0	7,696.1	8,132.6	7,944.3	12.2	17.8	85.49	97.3	821.7	976.7	946.3	30.45	32.071		
7,800.0	7,796.1	8,228.4	8,036.9	12.3	18.0	85.28	98.7	797.2	951.3	920.5	30.77	30.920		
7,900.0	7,896.1	8,311.7	8,117.6	12.4	18.2	85.10	99.9	776.6	926.7	895.7	31.05	29.850		
8,000.0	7,996.1	8,400.0	8,203.4	12.5	18.4	84.91	101.0	755.9	903.5	872.2	31.34	28.830		
8,100.0	8,096.1	8,480.2	8,281.6	12.6	18.5	84.74	102.0	738.4	881.8	850.1	31.60	27.901		
8,200.0	8,196.1	8,565.2	8,364.9	12.7	18.7	84.57	103.0	720.9	861.4	829.6	31.87	27.027		
8,300.0	8,296.1	8,650.8	8,448.9	12.7	18.9	84.40	103.9	704.6	842.6	810.4	32.14	26.216		
8,400.0	8,396.1	8,736.9	8,533.6	12.8	19.1	84.23	104.8	689.5	825.2	792.8	32.40	25.469		
8,500.0	8,496.1	8,823.4	8,619.0	12.9	19.2	84.08	105.5	675.6	809.2	776.6	32.65	24.783		
8,600.0	8,596.1	8,910.3	8,705.0	13.0	19.4	83.93	106.3	662.9	794.8	761.9	32.90	24.157		
8,700.0	8,696.1	9,000.0	8,793.9	13.1	19.6	83.79	106.9	651.2	781.8	748.7	33.15	23.584		
8,800.0	8,796.1	9,085.2	8,878.5	13.2	19.7	83.67	107.5	641.3	770.4	737.0	33.38	23.081		
8,900.0	8,896.1	9,173.1	8,966.0	13.3	19.9	83.56	108.0	632.5	760.5	726.8	33.61	22.628		
9,000.0	8,996.1	9,261.3	9,053.8	13.4	20.0	83.46	108.4	624.9	752.0	718.2	33.83	22.231		
9,100.0	9,096.1	9,349.7	9,142.0	13.5	20.2	83.38	108.7	618.7	745.1	711.1	34.04	21.888		
9,200.0	9,196.1	9,438.2	9,230.4	13.6	20.3	83.32	109.0	613.9	739.7	705.5	34.25	21.598		
9,300.0	9,296.1	9,526.9	9,319.0	13.7	20.4	83.27	109.2	610.4	735.8	701.4	34.44	21.363		
9,400.0	9,396.1	9,615.6	9,407.7	13.8	20.5	83.24	109.3	608.3	733.5	698.9	34.62	21.184		
9,500.0	9,496.1	9,707.9	9,500.0	13.8	20.6	83.23	109.4	607.5	732.7	697.9	34.78	21.068		
9,534.7	9,530.8	9,738.7	9,530.8	13.9	20.6	83.23	109.4	607.5	732.7	697.8	34.81	21.048		
9,600.0	9,596.1	9,804.0	9,596.1	13.9	20.7	83.23	109.4	607.5	732.7	697.8	34.89	21.002		
9,700.0	9,696.1	9,904.0	9,696.1	14.0	20.7	83.23	109.4	607.5	732.7	697.7	35.01	20.928		
9,800.0	9,796.1	10,004.0	9,796.1	14.1	20.8	83.23	109.4	607.5	732.7	697.5	35.13	20.855		
9,900.0	9,896.1	10,104.0	9,896.1	14.2	20.8	83.23	109.4	607.5	732.7	697.4	35.25	20.782		
10,000.0	9,996.1	10,204.0	9,996.1	14.3	20.8	83.23	109.4	607.5	732.7	697.3	35.38	20.709		
10,100.0	10,096.1	10,304.0	10,096.1	14.4	20.9	83.23	109.4	607.5	732.7	697.2	35.50	20.637		
10,200.0	10,196.1	10,404.0	10,196.1	14.5	20.9	83.23	109.4	607.5	732.7	697.0	35.63	20.565		
10,300.0	10,296.1	10,504.0	10,296.1	14.6	21.0	83.23	109.4	607.5	732.7	696.9	35.75	20.494		
10,400.0	10,396.1	10,604.0	10,396.1	14.7	21.0	83.23	109.4	607.5	732.7	696.8	35.88	20.422		
10,500.0	10,496.1	10,704.0	10,496.1	14.7	21.1	83.23	109.4	607.5	732.7	696.7	36.00	20.352		
10,600.0	10,596.1	10,804.0	10,596.1	14.8	21.1	83.23	109.4	607.5	732.7	696.5	36.13	20.281		
10,700.0	10,696.1	10,904.0	10,696.1	14.9	21.2	83.23	109.4	607.5	732.7	696.4	36.25	20.211		
10,800.0	10,796.1	11,004.0	10,796.1	15.0	21.2	83.23	109.4	607.5	732.7	696.3	36.38	20.141		
10,900.0	10,896.1	11,104.0	10,896.1	15.1	21.3	83.23	109.4	607.5	732.7	696.2	36.50	20.071		
11,000.0	10,996.1	11,204.0	10,996.1	15.2	21.3	83.23	109.4	607.5	732.7	696.0	36.63	20.002		
11,100.0	11,096.1	11,304.0	11,096.1	15.3	21.4	83.23	109.4	607.5	732.7	695.9	36.76	19.933		
11,200.0	11,196.1	11,404.0	11,196.1	15.4	21.4	83.23	109.4	607.5	732.7	695.8	36.88	19.864		
11,300.0	11,296.1	11,504.0	11,296.1	15.5	21.5	83.23	109.4	607.5	732.7	695.6	37.01	19.796		
11,400.0	11,396.1	11,604.0	11,396.1	15.5	21.5	83.23	109.4	607.5	732.7	695.5	37.14	19.728		
11,500.0	11,496.1	11,704.0	11,496.1	15.6	21.6	83.23	109.4	607.5	732.7	695.4	37.27	19.660		
11,600.0	11,596.1	11,804.0	11,596.1	15.7	21.6	83.23	109.4	607.5	732.7	695.3	37.39	19.593		
11,700.0	11,696.1	11,904.0	11,696.1	15.8	21.7	83.23	109.4	607.5	732.7	695.1	37.52	19.526		
11,800.0	11,796.1	12,004.0	11,796.1	15.9	21.7	83.23	109.4	607.5	732.7	695.0	37.65	19.459		
11,900.0	11,896.1	12,104.0	11,896.1	16.0	21.8	83.23	109.4	607.5	732.7	694.9	37.78	19.393		
12,000.0	11,996.1	12,204.0	11,996.1	16.1	21.8	83.23	109.4	607.5	732.7	694.7	37.91	19.327		
12,076.4	12,072.5	12,280.4	12,072.5	16.1	21.8	83.23	109.4	607.5	732.7	694.7	38.00	19.281		
12,100.0	12,096.1	12,304.0	12,096.1	16.1	21.9	-96.25	109.4	607.5	732.7	694.7	38.01	19.276		
12,125.0	12,121.0	12,328.9	12,121.0	16.1	21.9	-96.37	109.4	607.5	732.9	694.9	38.02	19.280		
12,150.0	12,145.8	12,353.7	12,145.8	16.1	21.9	-96.57	109.4	607.5	733.3	695.3	38.02	19.289		
12,175.0	12,170.4	12,378.3	12,170.4	16.1	21.9	-96.85	109.4	607.5	733.8	695.8	38.01	19.304		
12,200.0	12,194.7	12,402.6	12,194.7	16.1	21.9	-97.20	109.4	607.5	734.5	696.5	38.01	19.325		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
12,225.0	12,218.7	12,426.6	12,218.7	16.1	21.9	-97.61	109.4	607.5	735.5	697.5	38.00	19.355		
12,250.0	12,242.3	12,450.2	12,242.3	16.1	21.9	-98.07	109.4	607.5	736.7	698.7	37.99	19.392		
12,275.0	12,265.4	12,473.3	12,265.4	16.0	21.9	-98.57	109.4	607.5	738.2	700.2	37.97	19.439		
12,300.0	12,288.0	12,501.8	12,293.8	16.0	21.9	-99.26	108.9	607.6	739.9	702.0	37.95	19.497		
12,325.0	12,310.0	12,533.7	12,325.6	16.0	21.9	-100.03	106.4	607.6	741.8	703.8	37.93	19.558		
12,350.0	12,331.4	12,566.7	12,358.4	16.0	21.9	-100.79	101.6	607.6	743.7	705.8	37.91	19.616		
12,375.0	12,352.0	12,601.1	12,391.9	16.0	21.9	-101.53	94.2	607.7	745.6	707.7	37.91	19.669		
12,400.0	12,371.9	12,636.7	12,426.0	16.0	21.9	-102.25	84.0	607.8	747.6	709.6	37.92	19.712		
12,425.0	12,390.9	12,673.6	12,460.4	16.0	21.9	-102.94	70.8	607.9	749.5	711.5	37.96	19.743		
12,450.0	12,409.1	12,711.8	12,495.0	16.0	21.9	-103.60	54.4	608.1	751.3	713.3	38.02	19.759		
12,475.0	12,426.4	12,751.4	12,529.2	16.0	21.9	-104.21	34.5	608.3	753.1	715.0	38.12	19.757		
12,500.0	12,442.7	12,792.2	12,562.6	16.0	21.9	-104.77	11.1	608.5	754.7	716.4	38.24	19.735		
12,525.0	12,458.0	12,834.3	12,594.8	16.1	21.9	-105.27	-15.9	608.8	756.1	717.7	38.39	19.693		
12,550.0	12,472.2	12,877.4	12,625.3	16.1	21.9	-105.69	-46.4	609.1	757.3	718.7	38.58	19.632		
12,575.0	12,485.3	12,921.4	12,653.4	16.1	21.9	-106.03	-80.2	609.4	758.3	719.5	38.78	19.553		
12,600.0	12,497.3	12,966.2	12,678.7	16.1	22.0	-106.27	-117.1	609.8	759.0	720.0	39.00	19.460		
12,625.0	12,508.1	13,011.4	12,700.6	16.1	22.0	-106.42	-156.7	610.2	759.4	720.2	39.23	19.358		
12,650.0	12,517.7	13,056.9	12,718.8	16.1	22.1	-106.45	-198.3	610.6	759.5	720.1	39.45	19.251		
12,675.0	12,526.2	13,102.3	12,732.9	16.1	22.2	-106.38	-241.5	611.0	759.3	719.7	39.66	19.144		
12,700.0	12,533.3	13,147.4	12,742.8	16.1	22.3	-106.21	-285.5	611.5	758.8	719.0	39.85	19.041		
12,725.0	12,539.2	13,192.0	12,748.4	16.1	22.4	-105.94	-329.7	611.9	758.1	718.1	40.01	18.945		
12,750.0	12,543.9	13,233.5	12,750.0	16.2	22.5	-105.61	-371.1	612.3	757.0	716.9	40.13	18.863		
12,775.0	12,547.2	13,258.2	12,750.0	16.2	22.5	-105.47	-395.9	612.6	756.1	716.0	40.16	18.828		
12,800.0	12,549.2	13,283.2	12,750.0	16.2	22.6	-105.38	-420.8	612.8	755.6	715.4	40.21	18.792		
12,826.1	12,550.0	13,309.2	12,750.0	16.2	22.7	-105.35	-446.9	613.1	755.4	715.1	40.29	18.750		
12,826.4	12,550.0	13,309.5	12,750.0	16.2	22.7	-105.35	-447.2	613.1	755.4	715.1	40.29	18.749		
12,900.0	12,550.0	13,383.1	12,750.0	16.3	22.9	-105.35	-520.8	613.8	755.4	714.8	40.58	18.618		
12,916.4	12,550.0	13,399.5	12,750.0	16.3	22.9	-105.35	-537.2	614.0	755.4	714.8	40.64	18.588		
13,000.0	12,550.0	13,483.1	12,750.0	16.5	23.2	-105.38	-620.8	614.8	754.3	713.2	41.04	18.380		
13,100.0	12,550.0	13,583.0	12,750.0	16.8	23.5	-105.50	-720.7	615.8	749.8	708.2	41.59	18.026		
13,200.0	12,550.0	13,682.7	12,750.0	17.1	23.9	-105.71	-820.3	616.8	742.0	699.7	42.23	17.570		
13,288.4	12,550.0	13,770.5	12,750.0	17.4	24.2	-105.98	-908.1	617.7	732.3	689.4	42.84	17.092		
13,300.0	12,550.0	13,782.0	12,750.0	17.5	24.2	-106.01	-919.6	617.8	730.8	687.9	42.92	17.026		
13,400.0	12,550.0	13,881.2	12,750.0	17.8	24.6	-106.29	-1,018.8	618.8	718.4	674.7	43.67	16.450		
13,438.4	12,550.0	13,919.2	12,750.0	18.0	24.8	-106.41	-1,056.9	619.2	713.6	669.7	43.97	16.231		
13,500.0	12,550.0	13,980.4	12,750.0	18.2	25.0	-106.53	-1,118.0	619.8	706.6	662.1	44.46	15.893		
13,600.0	12,550.0	14,080.0	12,750.0	18.7	25.4	-106.69	-1,217.6	620.8	697.9	652.6	45.31	15.404		
13,700.0	12,550.0	14,179.8	12,750.0	19.2	25.8	-106.80	-1,317.4	621.7	692.6	646.4	46.18	14.997		
13,800.0	12,550.0	14,279.8	12,750.0	19.7	26.3	-106.83	-1,417.4	622.7	690.6	643.5	47.08	14.669		
13,809.9	12,550.0	14,289.7	12,750.0	19.7	26.3	-106.84	-1,427.3	622.8	690.6	643.4	47.16	14.642 CC		
13,810.4	12,550.0	14,290.2	12,750.0	19.7	26.3	-106.84	-1,427.8	622.8	690.6	643.4	47.17	14.640		
13,900.0	12,550.0	14,379.8	12,750.0	20.2	26.7	-106.83	-1,517.4	623.7	690.6	642.6	47.98	14.393		
14,000.0	12,550.0	14,479.8	12,750.0	20.7	27.2	-106.83	-1,617.4	624.7	690.6	641.7	48.92	14.116		
14,100.0	12,550.0	14,579.8	12,750.0	21.3	27.7	-106.83	-1,717.4	625.7	690.6	640.7	49.90	13.839		
14,200.0	12,550.0	14,679.8	12,750.0	21.9	28.2	-106.83	-1,817.4	626.7	690.6	639.7	50.92	13.564		
14,300.0	12,550.0	14,779.8	12,750.0	22.5	28.7	-106.83	-1,917.4	627.7	690.6	638.7	51.96	13.291		
14,400.0	12,550.0	14,879.8	12,750.0	23.1	29.3	-106.83	-2,017.4	628.7	690.7	637.6	53.04	13.021		
14,500.0	12,550.0	14,979.8	12,750.0	23.7	29.8	-106.83	-2,117.4	629.7	690.7	636.5	54.15	12.756		
14,600.0	12,550.0	15,079.8	12,750.0	24.3	30.4	-106.83	-2,217.4	630.7	690.7	635.4	55.28	12.495		
14,700.0	12,550.0	15,179.8	12,750.0	25.0	30.9	-106.83	-2,317.4	631.7	690.7	634.3	56.44	12.239		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,800.0	12,550.0	15,279.8	12,750.0	25.7	31.5	-106.83	-2,417.4	632.7	690.7	633.1	57.62	11.988		
14,900.0	12,550.0	15,379.8	12,750.0	26.3	32.1	-106.83	-2,517.4	633.7	690.7	631.9	58.82	11.743		
15,000.0	12,550.0	15,479.8	12,750.0	27.0	32.7	-106.83	-2,617.3	634.7	690.8	630.7	60.05	11.504		
15,100.0	12,550.0	15,579.8	12,750.0	27.7	33.3	-106.83	-2,717.3	635.7	690.8	629.5	61.29	11.271		
15,200.0	12,550.0	15,679.8	12,750.0	28.4	33.9	-106.83	-2,817.3	636.7	690.8	628.2	62.55	11.043		
15,300.0	12,550.0	15,779.8	12,750.0	29.1	34.6	-106.83	-2,917.3	637.7	690.8	627.0	63.83	10.822		
15,400.0	12,550.0	15,879.8	12,750.0	29.9	35.2	-106.83	-3,017.3	638.7	690.8	625.7	65.13	10.607		
15,500.0	12,550.0	15,979.8	12,750.0	30.6	35.9	-106.83	-3,117.3	639.7	690.9	624.4	66.44	10.398		
15,600.0	12,550.0	16,079.8	12,750.0	31.3	36.5	-106.83	-3,217.3	640.6	690.9	623.1	67.77	10.194		
15,700.0	12,550.0	16,179.8	12,750.0	32.1	37.2	-106.83	-3,317.3	641.6	690.9	621.8	69.11	9.997		
15,800.0	12,550.0	16,279.8	12,750.0	32.8	37.9	-106.83	-3,417.3	642.6	690.9	620.4	70.46	9.805		
15,900.0	12,550.0	16,379.8	12,750.0	33.6	38.5	-106.83	-3,517.3	643.6	690.9	619.1	71.83	9.619		
16,000.0	12,550.0	16,479.8	12,750.0	34.3	39.2	-106.82	-3,617.3	644.6	690.9	617.7	73.20	9.439		
16,100.0	12,550.0	16,579.8	12,750.0	35.1	39.9	-106.82	-3,717.3	645.6	691.0	616.4	74.59	9.263		
16,200.0	12,550.0	16,679.8	12,750.0	35.9	40.6	-106.82	-3,817.3	646.6	691.0	615.0	75.99	9.093		
16,300.0	12,550.0	16,779.8	12,750.0	36.6	41.3	-106.82	-3,917.3	647.6	691.0	613.6	77.40	8.928		
16,400.0	12,550.0	16,879.8	12,750.0	37.4	42.0	-106.82	-4,017.3	648.6	691.0	612.2	78.81	8.768		
16,500.0	12,550.0	16,979.8	12,750.0	38.2	42.7	-106.82	-4,117.3	649.6	691.0	610.8	80.24	8.612		
16,600.0	12,550.0	17,079.8	12,750.0	39.0	43.4	-106.82	-4,217.3	650.6	691.0	609.4	81.67	8.461		
16,700.0	12,550.0	17,179.8	12,750.0	39.7	44.2	-106.82	-4,317.3	651.6	691.1	607.9	83.11	8.315		
16,800.0	12,550.0	17,279.8	12,750.0	40.5	44.9	-106.82	-4,417.3	652.6	691.1	606.5	84.56	8.173		
16,900.0	12,550.0	17,379.8	12,750.0	41.3	45.6	-106.82	-4,517.3	653.6	691.1	605.1	86.01	8.035		
17,000.0	12,550.0	17,479.8	12,750.0	42.1	46.4	-106.82	-4,617.2	654.6	691.1	603.6	87.48	7.901		
17,100.0	12,550.0	17,579.8	12,750.0	42.9	47.1	-106.82	-4,717.2	655.6	691.1	602.2	88.94	7.770		
17,200.0	12,550.0	17,679.8	12,750.0	43.7	47.9	-106.82	-4,817.2	656.6	691.1	600.7	90.42	7.644		
17,300.0	12,550.0	17,779.8	12,750.0	44.5	48.6	-106.82	-4,917.2	657.6	691.2	599.3	91.90	7.521		
17,400.0	12,550.0	17,879.8	12,750.0	45.3	49.3	-106.82	-5,017.2	658.6	691.2	597.8	93.38	7.401		
17,500.0	12,550.0	17,979.8	12,750.0	46.1	50.1	-106.82	-5,117.2	659.5	691.2	596.3	94.87	7.285		
17,600.0	12,550.0	18,079.8	12,750.0	46.9	50.9	-106.82	-5,217.2	660.5	691.2	594.8	96.37	7.173		
17,700.0	12,550.0	18,179.8	12,750.0	47.7	51.6	-106.82	-5,317.2	661.5	691.2	593.4	97.87	7.063		
17,800.0	12,550.0	18,279.8	12,750.0	48.5	52.4	-106.82	-5,417.2	662.5	691.2	591.9	99.37	6.956		
17,900.0	12,550.0	18,379.8	12,750.0	49.4	53.2	-106.82	-5,517.2	663.5	691.3	590.4	100.88	6.852		
18,000.0	12,550.0	18,479.8	12,750.0	50.2	53.9	-106.82	-5,617.2	664.5	691.3	588.9	102.40	6.751		
18,100.0	12,550.0	18,579.8	12,750.0	51.0	54.7	-106.81	-5,717.2	665.5	691.3	587.4	103.91	6.653		
18,200.0	12,550.0	18,679.8	12,750.0	51.8	55.5	-106.81	-5,817.2	666.5	691.3	585.9	105.43	6.557		
18,300.0	12,550.0	18,779.8	12,750.0	52.6	56.2	-106.81	-5,917.2	667.5	691.3	584.4	106.96	6.464		
18,400.0	12,550.0	18,879.8	12,750.0	53.4	57.0	-106.81	-6,017.2	668.5	691.4	582.9	108.49	6.373		
18,500.0	12,550.0	18,979.8	12,750.0	54.3	57.8	-106.81	-6,117.2	669.5	691.4	581.3	110.02	6.284		
18,600.0	12,550.0	19,079.8	12,750.0	55.1	58.6	-106.81	-6,217.2	670.5	691.4	579.8	111.55	6.198		
18,700.0	12,550.0	19,179.8	12,750.0	55.9	59.4	-106.81	-6,317.2	671.5	691.4	578.3	113.09	6.114		
18,800.0	12,550.0	19,279.8	12,750.0	56.7	60.2	-106.81	-6,417.2	672.5	691.4	576.8	114.63	6.032		
18,900.0	12,550.0	19,379.8	12,750.0	57.5	61.0	-106.81	-6,517.2	673.5	691.4	575.3	116.17	5.952		
19,000.0	12,550.0	19,479.8	12,750.0	58.4	61.7	-106.81	-6,617.2	674.5	691.5	573.7	117.72	5.874		
19,100.0	12,550.0	19,579.8	12,750.0	59.2	62.5	-106.81	-6,717.1	675.5	691.5	572.2	119.27	5.798		
19,200.0	12,550.0	19,679.8	12,750.0	60.0	63.3	-106.81	-6,817.1	676.5	691.5	570.7	120.82	5.723		
19,300.0	12,550.0	19,779.8	12,750.0	60.8	64.1	-106.81	-6,917.1	677.5	691.5	569.1	122.37	5.651		
19,400.0	12,550.0	19,879.8	12,750.0	61.7	64.9	-106.81	-7,017.1	678.4	691.5	567.6	123.93	5.580		
19,500.0	12,550.0	19,979.8	12,750.0	62.5	65.7	-106.81	-7,117.1	679.4	691.5	566.1	125.48	5.511		
19,600.0	12,550.0	20,079.8	12,750.0	63.3	66.5	-106.81	-7,217.1	680.4	691.6	564.5	127.04	5.443		
19,700.0	12,550.0	20,179.8	12,750.0	64.2	67.3	-106.81	-7,317.1	681.4	691.6	563.0	128.61	5.377		
19,800.0	12,550.0	20,279.8	12,750.0	65.0	68.1	-106.81	-7,417.1	682.4	691.6	561.4	130.17	5.313		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis		Rule Assigned:										
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
19,900.0	12,550.0	20,379.8	12,750.0	65.8	68.9	-106.81	-7,517.1	683.4	691.6	559.9	131.74	5.250		
20,000.0	12,550.0	20,479.8	12,750.0	66.7	69.7	-106.81	-7,617.1	684.4	691.6	558.3	133.30	5.188		
20,100.0	12,550.0	20,579.8	12,750.0	67.5	70.5	-106.81	-7,717.1	685.4	691.6	556.8	134.87	5.128		
20,200.0	12,550.0	20,679.8	12,750.0	68.3	71.4	-106.80	-7,817.1	686.4	691.7	555.2	136.44	5.069		
20,300.0	12,550.0	20,779.8	12,750.0	69.2	72.2	-106.80	-7,917.1	687.4	691.7	553.7	138.02	5.012		
20,400.0	12,550.0	20,879.8	12,750.0	70.0	73.0	-106.80	-8,017.1	688.4	691.7	552.1	139.59	4.955		
20,500.0	12,550.0	20,979.8	12,750.0	70.8	73.8	-106.80	-8,117.1	689.4	691.7	550.5	141.17	4.900		
20,516.6	12,550.0	20,996.4	12,750.0	71.0	73.9	-106.80	-8,133.6	689.6	691.7	550.3	141.43	4.891 ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 TB FEDERAL 008H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 183-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
19,800.0	12,550.0	17,261.0	12,480.3	65.0	68.6	-70.87	-8,361.8	230.6	963.9	913.9	49.95	19.298		
19,900.0	12,550.0	17,261.0	12,480.3	65.8	68.6	-70.87	-8,361.8	230.6	866.6	814.9	51.70	16.762		
20,000.0	12,550.0	17,261.0	12,480.3	66.7	68.6	-70.87	-8,361.8	230.6	770.1	716.1	54.04	14.251		
20,100.0	12,550.0	17,261.0	12,480.3	67.5	68.6	-70.87	-8,361.8	230.6	674.6	617.3	57.24	11.785		
20,200.0	12,550.0	17,261.0	12,480.3	68.3	68.6	-70.87	-8,361.8	230.6	580.5	518.7	61.77	9.398		
20,300.0	12,550.0	17,261.0	12,480.3	69.2	68.6	-70.87	-8,361.8	230.6	488.9	420.5	68.38	7.149		
20,400.0	12,550.0	17,261.0	12,480.3	70.0	68.6	-70.87	-8,361.8	230.6	401.2	322.9	78.30	5.124		
20,500.0	12,550.0	17,261.0	12,480.3	70.8	68.6	-70.87	-8,361.8	230.6	320.8	227.6	93.23	3.441		
20,516.6	12,550.0	17,261.0	12,480.3	71.0	68.6	-70.87	-8,361.8	230.6	308.6	212.3	96.29	3.205 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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
Reference	Vertical	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,200.0	12,550.0	17,619.0	12,619.5	68.3	52.4	-94.61	-8,285.1	891.3	984.6	875.9	108.63	9.064		
20,300.0	12,550.0	17,619.0	12,619.5	69.2	52.4	-94.61	-8,285.1	891.3	941.0	827.5	113.43	8.295		
20,400.0	12,550.0	17,619.0	12,619.5	70.0	52.4	-94.61	-8,285.1	891.3	906.3	788.6	117.75	7.697		
20,500.0	12,550.0	17,619.0	12,619.5	70.8	52.4	-94.61	-8,285.1	891.3	881.7	760.5	121.24	7.272		
20,516.6	12,550.0	17,619.0	12,619.5	71.0	52.4	-94.61	-8,285.1	891.3	878.7	757.0	121.72	7.219 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 WC FEDERAL 002H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	183-r.5 MWD+IFR1											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside							
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	No-Go	Separation	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Distance	Factor	
									(usft)	(usft)	(usft)		
20,400.0	12,550.0	17,593.0	13,144.4	70.0	50.3	169.19	-8,809.1	-79.6	990.7	920.5	70.19	14.113	
20,500.0	12,550.0	17,593.0	13,144.4	70.8	50.3	169.19	-8,809.1	-79.6	913.5	839.8	73.69	12.396	
20,516.6	12,550.0	17,593.0	13,144.4	71.0	50.3	169.19	-8,809.1	-79.6	901.2	826.9	74.32	12.126 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 WXY FEDERAL 006H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 90-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
19,800.0	12,550.0	17,503.0	12,499.7	65.0	58.0	83.83	-8,295.4	-436.1	985.3	912.6	72.75	13.543		
19,900.0	12,550.0	17,503.0	12,499.7	65.8	58.0	83.83	-8,295.4	-436.1	898.6	821.3	77.28	11.628		
20,000.0	12,550.0	17,503.0	12,499.7	66.7	58.0	83.83	-8,295.4	-436.1	814.9	732.1	82.72	9.850		
20,100.0	12,550.0	17,503.0	12,499.7	67.5	58.0	83.83	-8,295.4	-436.1	735.2	646.0	89.26	8.237		
20,200.0	12,550.0	17,503.0	12,499.7	68.3	58.0	83.83	-8,295.4	-436.1	661.1	564.2	96.97	6.818		
20,300.0	12,550.0	17,503.0	12,499.7	69.2	58.0	83.83	-8,295.4	-436.1	594.7	488.9	105.77	5.623		
20,400.0	12,550.0	17,503.0	12,499.7	70.0	58.0	83.83	-8,295.4	-436.1	538.7	423.6	115.11	4.680		
20,500.0	12,550.0	17,503.0	12,499.7	70.8	58.0	83.83	-8,295.4	-436.1	496.8	373.0	123.74	4.014		
20,516.6	12,550.0	17,503.0	12,499.7	71.0	58.0	83.83	-8,295.4	-436.1	491.4	366.4	124.97	3.932 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,500.0	11,496.1	19,668.4	12,294.5	15.6	59.3	86.21	59.7	434.5	972.7	879.1	93.62	10.390	
11,600.0	11,596.1	19,669.1	12,294.5	15.7	59.3	86.28	59.0	434.5	892.5	799.4	93.05	9.592	
11,700.0	11,696.1	19,669.8	12,294.5	15.8	59.3	86.35	58.4	434.5	816.6	724.3	92.30	8.848	
11,800.0	11,796.1	19,670.4	12,294.5	15.9	59.3	86.42	57.7	434.6	746.4	655.1	91.34	8.172	
11,900.0	11,896.1	19,671.0	12,294.5	16.0	59.3	86.49	57.1	434.6	683.7	593.6	90.16	7.583	
12,000.0	11,996.1	19,671.7	12,294.5	16.1	59.3	86.55	56.4	434.6	630.7	541.9	88.84	7.100	
12,076.4	12,072.5	19,672.1	12,294.5	16.1	59.3	86.60	56.0	434.7	598.4	510.5	87.82	6.813	
12,100.0	12,096.1	19,672.9	12,294.5	16.1	59.3	-93.83	55.3	434.7	590.0	502.5	87.53	6.741	
12,125.0	12,121.0	19,674.8	12,294.6	16.1	59.4	-94.62	53.3	434.8	582.2	495.0	87.25	6.673	
12,150.0	12,145.8	19,678.0	12,294.6	16.1	59.4	-95.13	50.1	435.0	575.5	488.5	87.01	6.614	
12,175.0	12,170.4	19,682.4	12,294.6	16.1	59.4	-95.38	45.7	435.3	569.8	483.0	86.82	6.564	
12,200.0	12,194.7	19,688.0	12,294.6	16.1	59.5	-95.38	40.2	435.6	565.3	478.6	86.67	6.522	
12,225.0	12,218.7	19,694.7	12,294.7	16.1	59.5	-95.12	33.4	436.0	561.9	475.3	86.58	6.490	
12,250.0	12,242.3	19,702.6	12,294.7	16.1	59.6	-94.63	25.5	436.5	559.6	473.1	86.55	6.466	
12,275.0	12,265.4	19,711.7	12,294.7	16.0	59.6	-93.92	16.5	437.0	558.4	471.8	86.57	6.450	
12,291.7	12,280.6	19,718.3	12,294.7	16.0	59.7	-93.33	9.9	437.4	558.2	471.6	86.62	6.444 CC, ES	
12,300.0	12,288.0	19,721.8	12,294.7	16.0	59.7	-93.01	6.4	437.6	558.2	471.6	86.66	6.442	
12,325.0	12,310.0	19,732.9	12,294.8	16.0	59.8	-91.90	-4.7	438.3	559.0	472.3	86.79	6.441 SF	
12,350.0	12,331.4	19,745.1	12,294.8	16.0	59.9	-90.63	-16.9	439.1	560.7	473.8	86.97	6.447	
12,375.0	12,352.0	19,758.4	12,294.8	16.0	60.0	-89.20	-30.1	440.0	563.3	476.1	87.20	6.459	
12,400.0	12,371.9	19,772.7	12,294.8	16.0	60.1	-87.66	-44.4	440.9	566.5	479.0	87.47	6.476	
12,425.0	12,390.9	19,788.0	12,294.8	16.0	60.2	-86.01	-59.7	442.0	570.3	482.6	87.77	6.498	
12,450.0	12,409.1	19,804.2	12,294.8	16.0	60.3	-84.30	-75.8	443.1	574.7	486.6	88.10	6.523	
12,475.0	12,426.4	19,821.3	12,294.8	16.0	60.5	-82.55	-92.9	444.4	579.5	491.0	88.45	6.551	
12,500.0	12,442.7	19,839.5	12,294.9	16.0	60.6	-80.78	-111.0	445.7	584.6	495.7	88.81	6.582	
12,525.0	12,458.0	19,859.6	12,295.0	16.1	60.7	-78.97	-131.0	447.2	589.8	500.6	89.20	6.612	
12,550.0	12,472.2	19,880.5	12,295.1	16.1	60.9	-77.22	-151.9	448.8	595.1	505.6	89.59	6.643	
12,575.0	12,485.3	19,902.1	12,295.4	16.1	61.1	-75.57	-173.4	450.5	600.4	510.5	89.97	6.674	
12,600.0	12,497.3	19,924.1	12,295.6	16.1	61.2	-74.02	-195.4	452.1	605.6	515.3	90.35	6.703	
12,625.0	12,508.1	19,946.7	12,295.9	16.1	61.4	-72.60	-217.9	453.8	610.6	519.9	90.72	6.731	
12,650.0	12,517.7	19,953.0	12,296.0	16.1	61.5	-71.81	-224.2	454.3	615.6	524.7	90.86	6.775	
12,675.0	12,526.2	19,953.0	12,296.0	16.1	61.5	-71.17	-224.2	454.3	621.1	530.3	90.81	6.839	
12,700.0	12,533.3	19,953.0	12,296.0	16.1	61.5	-70.46	-224.2	454.3	627.2	536.5	90.65	6.919	
12,725.0	12,539.2	19,953.0	12,296.0	16.1	61.5	-69.69	-224.2	454.3	633.7	543.4	90.37	7.013	
12,750.0	12,543.9	19,953.0	12,296.0	16.2	61.5	-68.87	-224.2	454.3	640.8	550.8	89.97	7.122	
12,775.0	12,547.2	19,953.0	12,296.0	16.2	61.5	-67.99	-224.2	454.3	648.2	558.8	89.47	7.246	
12,800.0	12,549.2	19,953.0	12,296.0	16.2	61.5	-67.07	-224.2	454.3	656.1	567.3	88.85	7.385	
12,826.4	12,550.0	19,953.0	12,296.0	16.2	61.5	-66.05	-224.2	454.3	664.9	576.8	88.09	7.547	
12,900.0	12,550.0	19,953.0	12,296.0	16.3	61.5	-66.05	-224.2	454.3	693.2	607.6	85.58	8.100	
12,916.4	12,550.0	19,953.0	12,296.0	16.3	61.5	-66.05	-224.2	454.3	700.4	615.4	84.97	8.243	
13,000.0	12,550.0	19,953.0	12,296.0	16.5	61.5	-66.43	-224.2	454.3	740.8	659.1	81.65	9.073	
13,100.0	12,550.0	19,953.0	12,296.0	16.8	61.5	-66.94	-224.2	454.3	795.6	718.2	77.47	10.270	
13,200.0	12,550.0	19,953.0	12,296.0	17.1	61.5	-67.53	-224.2	454.3	856.2	782.9	73.31	11.679	
13,288.4	12,550.0	19,953.0	12,296.0	17.4	61.5	-68.10	-224.2	454.3	913.6	843.8	69.80	13.089	
13,300.0	12,550.0	19,953.0	12,296.0	17.5	61.5	-68.10	-224.2	454.3	921.4	852.0	69.35	13.285	
13,400.0	12,550.0	19,953.0	12,296.0	17.8	61.5	-68.10	-224.2	454.3	991.5	925.7	65.74	15.082	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
12,300.0	12,288.0	19,973.4	12,557.0	16.0	60.3	-95.30	-55.5	839.5	996.4	908.0	88.37	11.275	
12,325.0	12,310.0	19,984.0	12,556.7	16.0	60.3	-95.49	-66.1	839.3	990.3	901.9	88.33	11.211	
12,350.0	12,331.4	19,995.9	12,556.4	16.0	60.4	-95.57	-77.9	839.1	984.7	896.4	88.32	11.150	
12,375.0	12,352.0	20,009.0	12,556.1	16.0	60.5	-95.53	-91.0	838.8	979.7	891.4	88.32	11.092	
12,400.0	12,371.9	20,023.2	12,555.8	16.0	60.6	-95.39	-105.3	838.5	975.3	886.9	88.36	11.038	
12,425.0	12,390.9	20,035.0	12,555.6	16.0	60.7	-95.33	-117.0	838.3	971.3	883.0	88.38	10.990	
12,450.0	12,409.1	20,035.0	12,555.6	16.0	60.7	-95.72	-117.0	838.3	968.1	879.8	88.30	10.964	
12,475.0	12,426.4	20,054.6	12,555.5	16.0	60.8	-95.23	-136.7	838.1	965.2	876.8	88.43	10.915	
12,500.0	12,442.7	20,064.5	12,555.7	16.0	60.9	-95.12	-146.5	838.1	963.0	874.5	88.46	10.886	
12,525.0	12,458.0	20,078.0	12,556.1	16.1	61.0	-94.85	-160.0	838.2	961.4	872.8	88.54	10.858	
12,550.0	12,472.2	20,093.2	12,556.6	16.1	61.1	-94.51	-175.2	838.4	960.2	871.6	88.65	10.831	
12,575.0	12,485.3	20,114.9	12,557.4	16.1	61.3	-93.98	-196.9	838.8	959.3	870.5	88.85	10.798	
12,600.0	12,497.3	20,137.2	12,558.2	16.1	61.5	-93.46	-219.2	839.1	958.7	869.6	89.05	10.765 SF	
12,620.0	12,506.0	20,139.0	12,558.3	16.1	61.5	-93.44	-221.0	839.1	958.4	869.4	89.02	10.766 CC, ES	
12,625.0	12,508.1	20,139.0	12,558.3	16.1	61.5	-93.44	-221.0	839.1	958.5	869.5	89.01	10.768	
12,650.0	12,517.7	20,139.0	12,558.3	16.1	61.5	-93.38	-221.0	839.1	959.0	870.1	88.91	10.786	
12,675.0	12,526.2	20,139.0	12,558.3	16.1	61.5	-93.23	-221.0	839.1	960.2	871.4	88.77	10.817	
12,700.0	12,533.3	20,139.0	12,558.3	16.1	61.5	-92.99	-221.0	839.1	962.2	873.6	88.59	10.861	
12,725.0	12,539.2	20,139.0	12,558.3	16.1	61.5	-92.67	-221.0	839.1	964.8	876.5	88.37	10.918	
12,750.0	12,543.9	20,139.0	12,558.3	16.2	61.5	-92.26	-221.0	839.1	968.2	880.1	88.11	10.989	
12,775.0	12,547.2	20,139.0	12,558.3	16.2	61.5	-91.77	-221.0	839.1	972.3	884.5	87.80	11.074	
12,800.0	12,549.2	20,139.0	12,558.3	16.2	61.5	-91.19	-221.0	839.1	977.0	889.5	87.45	11.172	
12,826.4	12,550.0	20,139.0	12,558.3	16.2	61.5	-90.50	-221.0	839.1	982.7	895.6	87.03	11.291	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11959-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,600.0	11,596.1	20,048.7	12,543.8	15.7	59.6	101.19	-2.5	9.1	956.8	857.6	99.22	9.643	
11,700.0	11,696.1	20,046.1	12,543.9	15.8	59.6	100.08	0.1	9.1	857.8	758.5	99.30	8.638	
11,800.0	11,796.1	20,043.5	12,543.9	15.9	59.5	98.93	2.7	9.0	759.2	659.8	99.37	7.640	
11,900.0	11,896.1	20,040.7	12,544.0	16.0	59.5	97.75	5.4	9.0	660.9	561.5	99.39	6.649	
12,000.0	11,996.1	20,036.0	12,544.2	16.1	59.5	95.68	10.2	9.0	563.2	463.9	99.32	5.670	
12,076.4	12,072.5	20,035.8	12,544.2	16.1	59.5	95.59	10.4	9.0	489.1	389.9	99.24	4.929	
12,100.0	12,096.1	20,035.7	12,544.2	16.1	59.5	-93.99	10.5	9.0	466.4	367.2	99.18	4.703	
12,125.0	12,121.0	20,036.8	12,544.1	16.1	59.5	-103.36	9.3	9.0	442.5	343.4	99.12	4.464	
12,150.0	12,145.8	20,039.1	12,544.1	16.1	59.5	-111.11	7.1	9.0	418.7	319.7	99.05	4.228	
12,175.0	12,170.4	20,042.7	12,544.0	16.1	59.5	-117.19	3.5	9.0	395.3	296.3	98.96	3.995	
12,200.0	12,194.7	20,047.5	12,543.8	16.1	59.6	-121.83	-1.4	9.1	372.2	273.4	98.86	3.766	
12,225.0	12,218.7	20,053.6	12,543.7	16.1	59.6	-125.27	-7.4	9.2	349.7	250.9	98.73	3.542	
12,250.0	12,242.3	20,061.0	12,543.4	16.1	59.7	-127.75	-14.8	9.3	327.7	229.1	98.57	3.324	
12,275.0	12,265.4	20,069.5	12,543.2	16.0	59.7	-129.41	-23.3	9.4	306.3	208.0	98.37	3.114	
12,300.0	12,288.0	20,079.3	12,543.0	16.0	59.8	-130.40	-33.1	9.5	285.8	187.6	98.12	2.912 Normal Operations	
12,325.0	12,310.0	20,090.3	12,542.7	16.0	59.9	-130.80	-44.1	9.7	266.1	168.3	97.82	2.720 Normal Operations	
12,350.0	12,331.4	20,102.4	12,542.4	16.0	60.0	-130.67	-56.2	9.8	247.4	150.0	97.43	2.539 Normal Operations	
12,375.0	12,352.0	20,115.7	12,542.1	16.0	60.1	-130.05	-69.5	10.0	229.8	132.9	96.97	2.370 Caution - Monitor Closely	
12,400.0	12,371.9	20,130.1	12,541.8	16.0	60.2	-128.97	-83.9	10.2	213.5	117.1	96.41	2.214 Caution - Monitor Closely	
12,425.0	12,390.9	20,146.1	12,541.5	16.0	60.3	-127.33	-99.9	10.5	198.5	102.7	95.76	2.073 Caution - Monitor Closely	
12,450.0	12,409.1	20,163.0	12,541.1	16.0	60.4	-125.26	-116.8	10.8	184.9	89.8	95.01	1.946 Caution - Monitor Closely	
12,475.0	12,426.4	20,180.9	12,540.7	16.0	60.6	-122.78	-134.7	11.0	172.7	78.6	94.16	1.835 Caution - Monitor Closely	
12,500.0	12,442.7	20,199.6	12,540.2	16.0	60.7	-119.90	-153.4	11.3	162.2	69.0	93.26	1.740 Caution - Monitor Closely	
12,525.0	12,458.0	20,219.1	12,539.7	16.1	60.8	-116.68	-172.9	11.6	153.3	61.0	92.33	1.661 Caution - Monitor Closely	
12,550.0	12,472.2	20,239.3	12,539.2	16.1	61.0	-113.16	-193.0	11.9	146.1	54.7	91.45	1.598 Caution - Monitor Closely	
12,575.0	12,485.3	20,260.2	12,538.6	16.1	61.2	-109.41	-213.9	12.3	140.5	49.8	90.69	1.549 Caution - Monitor Closely	
12,600.0	12,497.3	20,274.0	12,538.3	16.1	61.3	-107.05	-227.7	12.5	136.5	46.7	89.77	1.521 Caution - Monitor Closely, ES, SF	
12,611.2	12,502.3	20,274.0	12,538.3	16.1	61.3	-107.11	-227.7	12.5	136.0	47.2	88.83	1.531 Caution - Monitor Closely, CC	
12,625.0	12,508.1	20,274.0	12,538.3	16.1	61.3	-107.02	-227.7	12.5	136.8	49.6	87.23	1.568 Caution - Monitor Closely	
12,650.0	12,517.7	20,274.0	12,538.3	16.1	61.3	-106.41	-227.7	12.5	141.9	58.6	83.26	1.704 Caution - Monitor Closely	
12,675.0	12,526.2	20,274.0	12,538.3	16.1	61.3	-105.23	-227.7	12.5	151.4	72.9	78.51	1.928 Caution - Monitor Closely	
12,700.0	12,533.3	20,274.0	12,538.3	16.1	61.3	-103.44	-227.7	12.5	164.4	90.8	73.63	2.233 Caution - Monitor Closely	
12,725.0	12,539.2	20,274.0	12,538.3	16.1	61.3	-101.04	-227.7	12.5	180.2	111.1	69.08	2.609 Normal Operations	
12,750.0	12,543.9	20,274.0	12,538.3	16.2	61.3	-98.01	-227.7	12.5	198.1	133.1	65.03	3.046	
12,775.0	12,547.2	20,274.0	12,538.3	16.2	61.3	-94.33	-227.7	12.5	217.5	156.0	61.52	3.536	
12,800.0	12,549.2	20,274.0	12,538.3	16.2	61.3	-90.03	-227.7	12.5	238.0	179.5	58.48	4.070	
12,826.4	12,550.0	20,274.0	12,538.3	16.2	61.3	-84.86	-227.7	12.5	260.5	204.8	55.72	4.675	
12,900.0	12,550.0	20,274.0	12,538.3	16.3	61.3	-84.86	-227.7	12.5	326.3	276.1	50.15	6.506	
12,916.4	12,550.0	20,274.0	12,538.3	16.3	61.3	-84.86	-227.7	12.5	341.4	292.1	49.25	6.932	
13,000.0	12,550.0	20,274.0	12,538.3	16.5	61.3	-85.24	-227.7	12.5	419.5	373.7	45.76	9.167	
13,100.0	12,550.0	20,274.0	12,538.3	16.8	61.3	-85.71	-227.7	12.5	514.3	471.1	43.12	11.926	
13,200.0	12,550.0	20,274.0	12,538.3	17.1	61.3	-86.17	-227.7	12.5	609.8	568.4	41.44	14.717	
13,288.4	12,550.0	20,274.0	12,538.3	17.4	61.3	-86.55	-227.7	12.5	694.6	654.2	40.43	17.182	
13,300.0	12,550.0	20,274.0	12,538.3	17.5	61.3	-86.55	-227.7	12.5	705.8	665.5	40.32	17.505	
13,400.0	12,550.0	20,274.0	12,538.3	17.8	61.3	-86.55	-227.7	12.5	802.4	762.8	39.62	20.251	
13,438.4	12,550.0	20,274.0	12,538.3	18.0	61.3	-86.55	-227.7	12.5	839.7	800.3	39.44	21.292	
13,500.0	12,550.0	20,274.0	12,538.3	18.2	61.3	-86.19	-227.7	12.5	899.9	860.7	39.22	22.946	
13,600.0	12,550.0	20,274.0	12,538.3	18.7	61.3	-85.33	-227.7	12.5	998.4	959.4	39.01	25.592	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 #705H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12078-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,900.0	11,896.1	19,929.5	12,588.0	16.0	58.2	-99.13	-88.5	-813.7	986.1	894.6	91.57	10.769	
12,000.0	11,996.1	19,929.0	12,588.0	16.1	58.2	-99.09	-88.0	-813.8	918.7	828.2	90.50	10.152	
12,076.4	12,072.5	19,928.7	12,588.0	16.1	58.2	-99.06	-87.6	-813.8	871.5	781.9	89.54	9.733	
12,100.0	12,096.1	19,929.2	12,588.0	16.1	58.2	83.48	-88.2	-813.8	857.6	768.4	89.23	9.612	
12,125.0	12,121.0	19,931.4	12,588.0	16.1	58.2	85.38	-90.3	-813.4	843.4	754.5	88.90	9.487	
12,150.0	12,145.8	19,935.2	12,588.0	16.1	58.3	87.07	-94.0	-812.8	829.5	740.9	88.57	9.365	
12,175.0	12,170.4	19,940.6	12,588.0	16.1	58.3	88.55	-99.4	-812.0	816.1	727.8	88.25	9.247	
12,200.0	12,194.7	19,947.6	12,588.0	16.1	58.4	89.80	-106.3	-810.9	803.1	715.2	87.95	9.132	
12,225.0	12,218.7	19,954.4	12,588.0	16.1	58.4	90.98	-113.0	-809.8	790.7	703.1	87.65	9.021	
12,250.0	12,242.3	19,963.3	12,587.9	16.1	58.5	91.92	-121.8	-808.4	778.9	691.5	87.37	8.915	
12,275.0	12,265.4	19,973.5	12,587.9	16.0	58.5	92.67	-131.8	-806.7	767.6	680.4	87.11	8.812	
12,300.0	12,288.0	19,984.9	12,587.9	16.0	58.6	93.25	-143.1	-804.8	756.8	670.0	86.86	8.713	
12,325.0	12,310.0	19,997.6	12,587.8	16.0	58.7	93.67	-155.6	-802.8	746.7	660.0	86.64	8.618	
12,350.0	12,331.4	20,011.4	12,587.7	16.0	58.8	93.95	-169.3	-800.5	737.1	650.6	86.44	8.526	
12,375.0	12,352.0	20,025.4	12,587.6	16.0	58.9	94.16	-183.1	-798.2	728.0	641.7	86.28	8.438	
12,400.0	12,371.9	20,040.3	12,587.5	16.0	59.0	94.27	-197.7	-795.7	719.5	633.4	86.15	8.353	
12,425.0	12,390.9	20,056.2	12,587.4	16.0	59.1	94.28	-213.4	-793.1	711.6	625.6	86.04	8.270	
12,450.0	12,409.1	20,073.0	12,587.3	16.0	59.3	94.20	-230.0	-790.3	704.2	618.2	85.97	8.191	
12,475.0	12,426.4	20,073.0	12,587.3	16.0	59.3	95.03	-230.0	-790.3	697.5	611.4	86.06	8.105	
12,500.0	12,442.7	20,073.0	12,587.3	16.0	59.3	95.74	-230.0	-790.3	691.7	605.6	86.14	8.030	
12,525.0	12,458.0	20,073.0	12,587.3	16.1	59.3	96.32	-230.0	-790.3	686.9	600.7	86.22	7.967	
12,550.0	12,472.2	20,073.0	12,587.3	16.1	59.3	96.77	-230.0	-790.3	683.2	596.9	86.29	7.917	
12,575.0	12,485.3	20,073.0	12,587.3	16.1	59.3	97.09	-230.0	-790.3	680.5	594.1	86.32	7.883	
12,600.0	12,497.3	20,073.0	12,587.3	16.1	59.3	97.29	-230.0	-790.3	678.8	592.5	86.32	7.864	
12,625.0	12,508.1	20,073.0	12,587.3	16.1	59.3	97.35	-230.0	-790.3	678.3	592.0	86.27	7.862 CC, ES, SF	
12,626.1	12,508.6	20,073.0	12,587.3	16.1	59.3	97.35	-230.0	-790.3	678.3	592.0	86.27	7.863	
12,650.0	12,517.7	20,073.0	12,587.3	16.1	59.3	97.29	-230.0	-790.3	678.8	592.7	86.16	7.878	
12,675.0	12,526.2	20,073.0	12,587.3	16.1	59.3	97.09	-230.0	-790.3	680.5	594.5	85.99	7.913	
12,700.0	12,533.3	20,073.0	12,587.3	16.1	59.3	96.77	-230.0	-790.3	683.2	597.4	85.75	7.967	
12,725.0	12,539.2	20,073.0	12,587.3	16.1	59.3	96.32	-230.0	-790.3	686.9	601.5	85.43	8.041	
12,750.0	12,543.9	20,073.0	12,587.3	16.2	59.3	95.74	-230.0	-790.3	691.7	606.7	85.04	8.134	
12,775.0	12,547.2	20,073.0	12,587.3	16.2	59.3	95.03	-230.0	-790.3	697.5	612.9	84.57	8.247	
12,800.0	12,549.2	20,073.0	12,587.3	16.2	59.3	94.19	-230.0	-790.3	704.2	620.1	84.04	8.379	
12,826.4	12,550.0	20,073.0	12,587.3	16.2	59.3	93.18	-230.0	-790.3	712.3	628.9	83.41	8.539	
12,900.0	12,550.0	20,073.0	12,587.3	16.3	59.3	93.18	-230.0	-790.3	739.4	658.1	81.34	9.091	
12,916.4	12,550.0	20,073.0	12,587.3	16.3	59.3	93.18	-230.0	-790.3	746.3	665.5	80.83	9.234	
13,000.0	12,550.0	20,073.0	12,587.3	16.5	59.3	93.23	-230.0	-790.3	787.0	708.9	78.08	10.079	
13,100.0	12,550.0	20,073.0	12,587.3	16.8	59.3	93.32	-230.0	-790.3	846.4	771.7	74.72	11.327	
13,200.0	12,550.0	20,073.0	12,587.3	17.1	59.3	93.43	-230.0	-790.3	915.4	843.9	71.57	12.791	
13,288.4	12,550.0	20,073.0	12,587.3	17.4	59.3	93.56	-230.0	-790.3	982.8	913.7	69.07	14.228	
13,300.0	12,550.0	20,073.0	12,587.3	17.5	59.3	93.56	-230.0	-790.3	991.9	923.2	68.77	14.425	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 #802H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12188-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,800.0	11,796.1	20,275.6	12,731.3	15.9	59.5	-96.26	-11.2	-431.9	986.5	887.7	98.77	9.987	
11,900.0	11,896.1	20,272.7	12,731.4	16.0	59.5	-95.74	-8.4	-432.0	892.2	793.6	98.64	9.045	
12,000.0	11,996.1	20,269.9	12,731.5	16.1	59.5	-95.23	-5.6	-432.1	799.4	701.0	98.40	8.123	
12,076.4	12,072.5	20,267.9	12,731.5	16.1	59.5	-94.86	-3.5	-432.1	729.7	631.6	98.12	7.437	
12,100.0	12,096.1	20,267.9	12,731.5	16.1	59.5	91.56	-3.5	-432.1	708.4	610.4	98.02	7.228	
12,125.0	12,121.0	20,269.2	12,731.5	16.1	59.5	97.26	-4.9	-432.1	686.1	588.2	97.90	7.008	
12,150.0	12,145.8	20,272.0	12,731.4	16.1	59.5	102.33	-7.6	-432.0	664.0	566.2	97.78	6.791	
12,175.0	12,170.4	20,276.0	12,731.3	16.1	59.5	106.75	-11.7	-431.9	642.3	544.6	97.66	6.577	
12,200.0	12,194.7	20,281.5	12,731.2	16.1	59.6	110.53	-17.1	-431.7	621.0	523.4	97.53	6.367	
12,225.0	12,218.7	20,288.2	12,731.0	16.1	59.6	113.72	-23.8	-431.5	600.1	502.7	97.39	6.162	
12,250.0	12,242.3	20,296.1	12,730.8	16.1	59.7	116.37	-31.8	-431.2	579.8	482.6	97.25	5.963	
12,275.0	12,265.4	20,305.3	12,730.5	16.0	59.8	118.54	-40.9	-431.0	560.2	463.1	97.09	5.770	
12,300.0	12,288.0	20,315.7	12,730.2	16.0	59.8	120.29	-51.3	-430.7	541.2	444.2	96.92	5.584	
12,325.0	12,310.0	20,327.8	12,729.8	16.0	59.9	121.59	-63.4	-430.3	522.9	426.1	96.74	5.405	
12,350.0	12,331.4	20,341.2	12,729.3	16.0	60.0	122.56	-76.8	-430.0	505.4	408.8	96.56	5.234	
12,375.0	12,352.0	20,355.6	12,728.7	16.0	60.1	123.24	-91.2	-429.6	488.7	392.4	96.36	5.072	
12,400.0	12,371.9	20,371.0	12,728.0	16.0	60.3	123.68	-106.6	-429.2	472.9	376.8	96.14	4.919	
12,425.0	12,390.9	20,387.4	12,727.2	16.0	60.4	123.90	-122.9	-428.9	458.0	362.1	95.92	4.775	
12,450.0	12,409.1	20,404.7	12,726.3	16.0	60.5	123.92	-140.2	-428.5	444.0	348.4	95.69	4.640	
12,475.0	12,426.4	20,422.6	12,725.3	16.0	60.6	123.79	-158.1	-428.1	431.0	335.6	95.45	4.516	
12,500.0	12,442.7	20,440.8	12,724.2	16.0	60.8	123.56	-176.3	-427.7	419.0	323.8	95.21	4.400	
12,525.0	12,458.0	20,459.7	12,723.1	16.1	60.9	123.22	-195.1	-427.3	407.9	312.9	94.97	4.295	
12,550.0	12,472.2	20,479.4	12,721.9	16.1	61.1	122.76	-214.7	-426.9	397.9	303.1	94.75	4.199	
12,575.0	12,485.3	20,493.0	12,721.1	16.1	61.2	122.71	-228.3	-426.6	388.9	294.4	94.47	4.116	
12,600.0	12,497.3	20,493.0	12,721.1	16.1	61.2	123.46	-228.3	-426.6	381.7	287.8	93.91	4.065	
12,625.0	12,508.1	20,493.0	12,721.1	16.1	61.2	123.96	-228.3	-426.6	376.8	283.7	93.10	4.047 SF	
12,650.0	12,517.7	20,493.0	12,721.1	16.1	61.2	124.21	-228.3	-426.6	374.2	282.2	92.02	4.067 ES	
12,664.2	12,522.7	20,493.0	12,721.1	16.1	61.2	124.25	-228.3	-426.6	373.9	282.6	91.29	4.095 CC	
12,675.0	12,526.2	20,493.0	12,721.1	16.1	61.2	124.23	-228.3	-426.6	374.1	283.4	90.68	4.125	
12,700.0	12,533.3	20,493.0	12,721.1	16.1	61.2	124.01	-228.3	-426.6	376.3	287.2	89.08	4.224	
12,725.0	12,539.2	20,493.0	12,721.1	16.1	61.2	123.54	-228.3	-426.6	380.9	293.6	87.27	4.364	
12,750.0	12,543.9	20,493.0	12,721.1	16.2	61.2	122.83	-228.3	-426.6	387.7	302.4	85.30	4.545	
12,775.0	12,547.2	20,493.0	12,721.1	16.2	61.2	121.85	-228.3	-426.6	396.7	313.5	83.22	4.767	
12,800.0	12,549.2	20,493.0	12,721.1	16.2	61.2	120.61	-228.3	-426.6	407.6	326.5	81.10	5.026	
12,826.4	12,550.0	20,493.0	12,721.1	16.2	61.2	118.98	-228.3	-426.6	421.0	342.2	78.87	5.339	
12,900.0	12,550.0	20,493.0	12,721.1	16.3	61.2	118.98	-228.3	-426.6	465.2	392.4	72.86	6.385	
12,916.4	12,550.0	20,493.0	12,721.1	16.3	61.2	118.98	-228.3	-426.6	476.1	404.5	71.59	6.650	
13,000.0	12,550.0	20,493.0	12,721.1	16.5	61.2	119.84	-228.3	-426.6	536.4	470.6	65.77	8.156	
13,100.0	12,550.0	20,493.0	12,721.1	16.8	61.2	121.24	-228.3	-426.6	617.3	556.9	60.36	10.227	
13,200.0	12,550.0	20,493.0	12,721.1	17.1	61.2	123.16	-228.3	-426.6	704.5	648.1	56.44	12.482	
13,288.4	12,550.0	20,493.0	12,721.1	17.4	61.2	125.38	-228.3	-426.6	785.2	731.2	53.94	14.557	
13,300.0	12,550.0	20,493.0	12,721.1	17.5	61.2	125.38	-228.3	-426.6	795.9	742.3	53.66	14.832	
13,400.0	12,550.0	20,493.0	12,721.1	17.8	61.2	125.38	-228.3	-426.6	889.6	837.9	51.61	17.235	
13,438.4	12,550.0	20,493.0	12,721.1	18.0	61.2	125.38	-228.3	-426.6	925.9	874.9	50.96	18.170	
13,500.0	12,550.0	20,493.0	12,721.1	18.2	61.2	123.31	-228.3	-426.6	984.3	934.3	50.00	19.685	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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

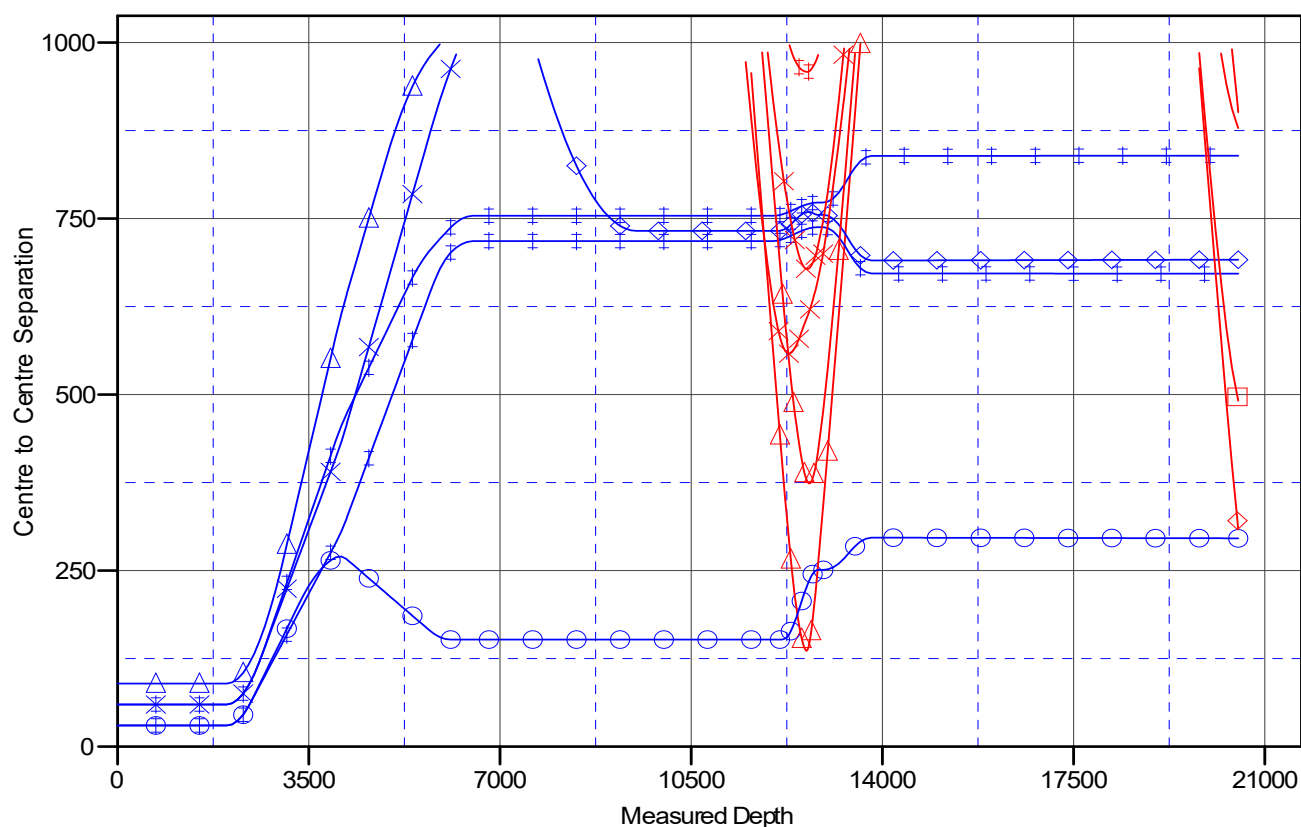
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 701H - Slot BOATER FED COM

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

GREEN BERET FED COM #701H, OWB, AWP V0	_BOATER FED COM 802H, OWB, PWP0 V0	CAVE LION 5 WXY FEDERAL 006H, OWB, AWP V0
_BOATER FED COM 801H, OWB, PWP0 V0	_BOATER FED COM 803H, OWB, PWP0 V0	GREEN BERET FED COM #802H, OWB, AWP V0
_BOATER FED COM 802H, OWB, PWP0 V0	CAVE LION 5 TB FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #701H, OWB, AWP V0
_BOATER FED COM 702H, OWB, PWP0 V0	CAVE LION 5 WA FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #701H, OWB, AWP V0
_BOATER FED COM 801H, OWB, PWP0 V0	CAVE LION 5 WC FEDERAL 002H, OWB, AWP V0	GREEN BERET FED COM #802H, OWB, AWP V0

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

ConocoPhillips

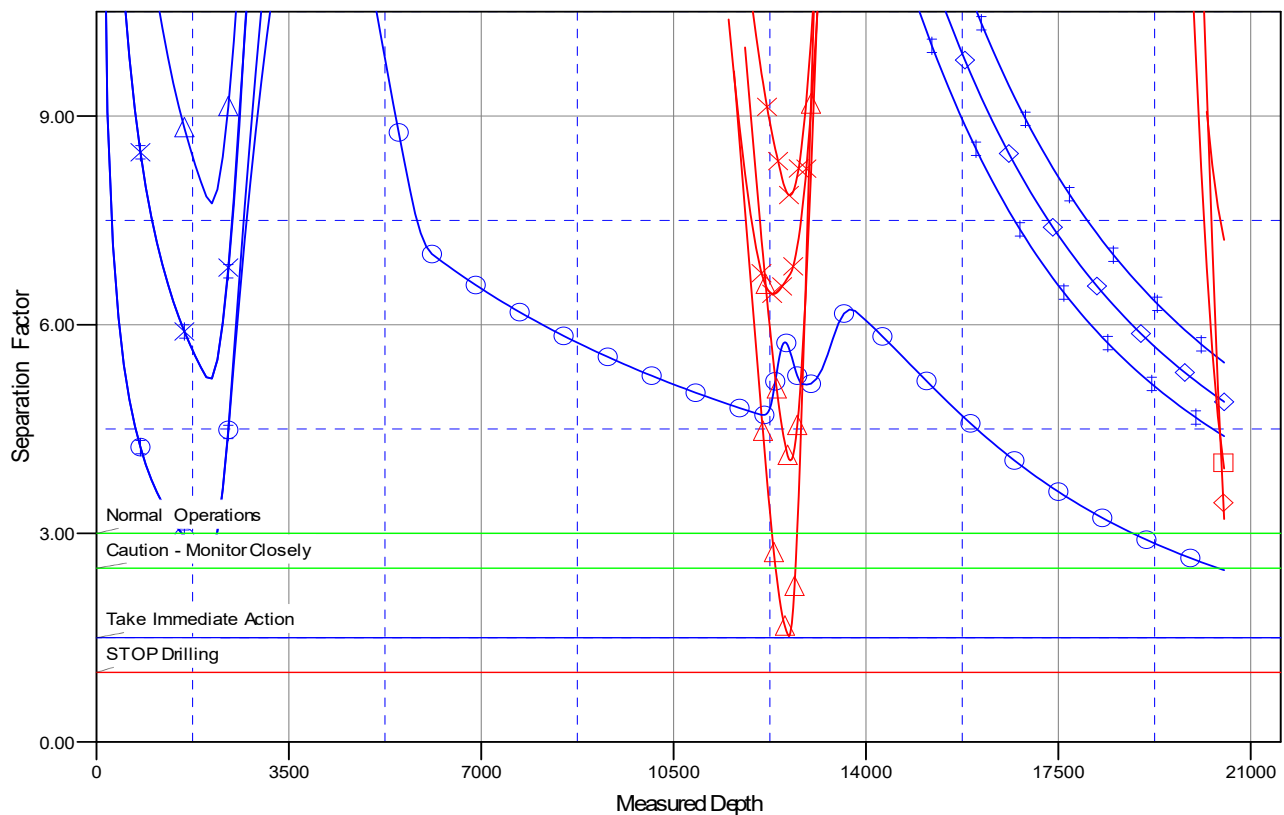
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 701H - Slot BOATER FED COM 701H
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 701H	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 701H - Slot BOATER FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

GREEN BERET FED COM #701H, OWB, AWP V0	_BOATER FED COM 802H, OWB, PWP0 V0	CAVE LION 5 WXY FEDERAL 008H, OWB, AWP V0
_BOATER FED COM 601H, OWB, PWP0 V0	_BOATER FED COM 803H, OWB, PWP0 V0	GREEN BERET FED COM #802H, OWB, AWP V0
_BOATER FED COM 602H, OWB, PWP0 V0	CAVE LION 5 TB FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #705H, OWB, AWP V0
_BOATER FED COM 702H, OWB, PWP0 V0	CAVE LION 5 WA FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #705H, OWB, AWP V0
_BOATER FED COM 801H, OWB, PWP0 V0	CAVE LION 5 WC FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #802H, OWB, AWP V0

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

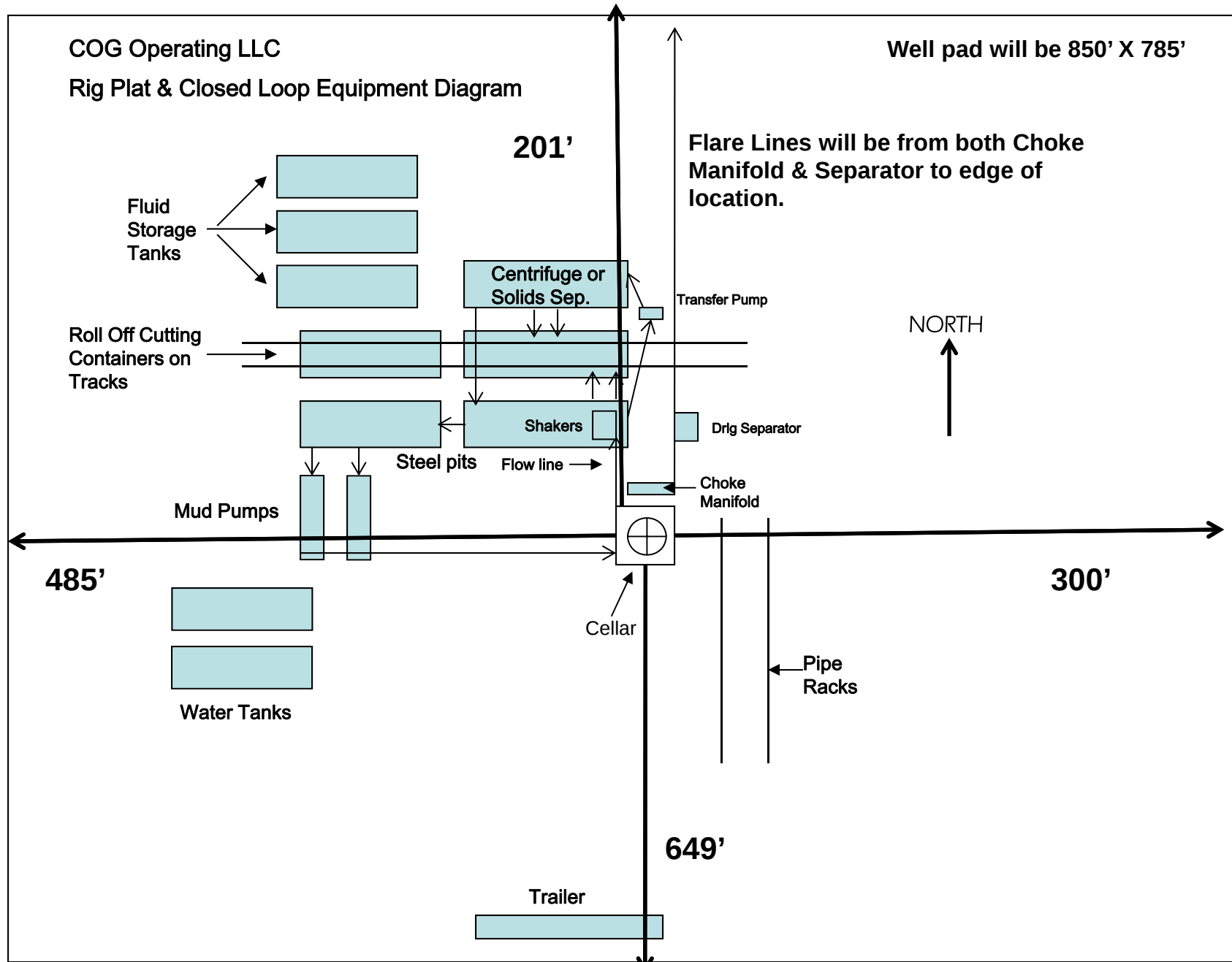


Exhibit 1

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

Submit Electronically
Via E-permitting

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

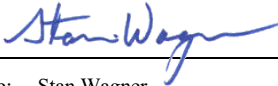
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 
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

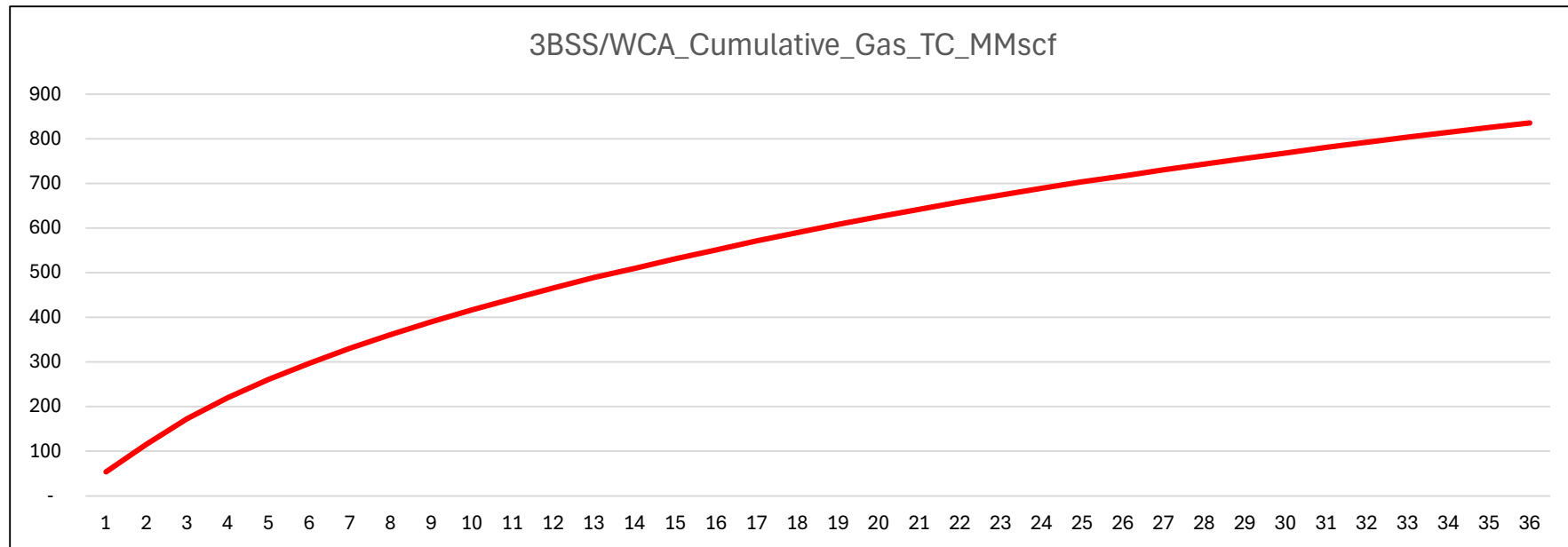
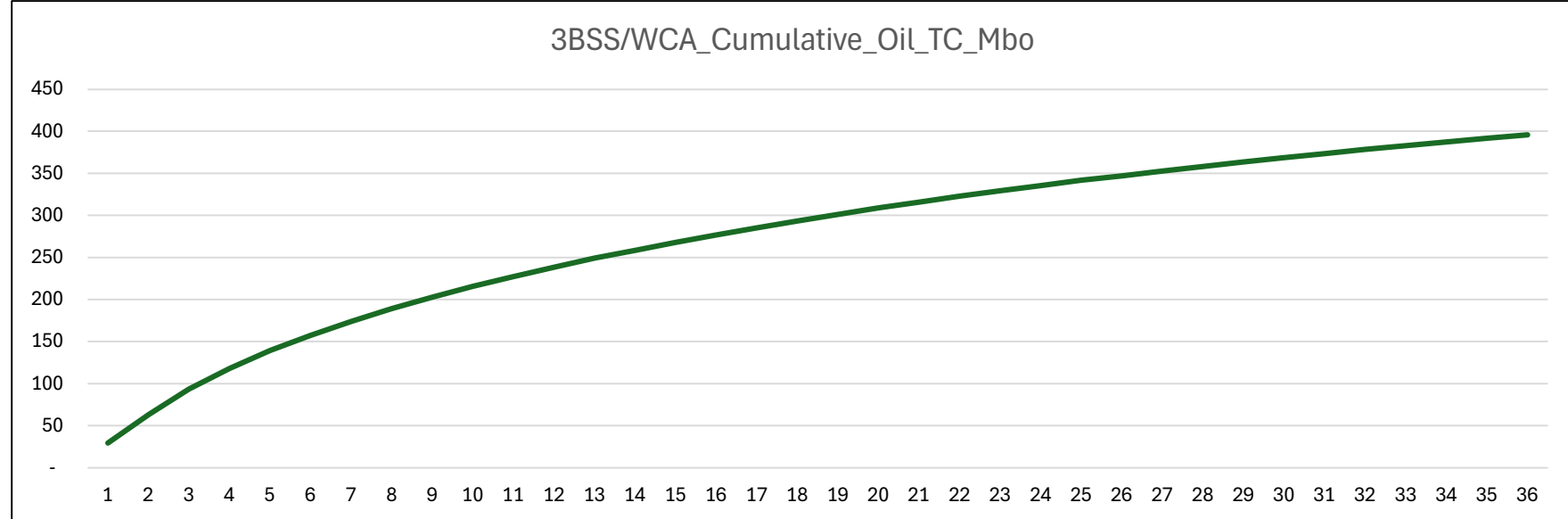
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize 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 701H
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	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☒ Contingency Cement Squeeze	☒ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☒ Offline Cementing	☒ 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

Action 519704

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519704
	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.
-------------------------------------	--

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 519704

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519704
	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