

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. 30-025-55649
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)



Approval Date: 10/14/2025

Additional Operator Remarks

Location of Well

0. SHL: SWNE / 2365 FNL / 1385 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102112 / LONG: -103.385483 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2540 FSL / 1100 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101083 / LONG: -103.384562 (TVD: 12543 feet, MD: 12766 feet)

BHL: SESE / 50 FSL / 1100 FEL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.079737 / LONG: -103.384538 (TVD: 12550 feet, MD: 20528 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- 55649	Pool Code 17980	Pool Name Dogie Draw; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 703H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3255.6'
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
G	29	25-S	35-E		2365 FNL	1385 FEL	32.102112°N	103.385483°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	32	25-S	35-E		50 FSL	1100 FEL	32.079737°N	103.384538°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
G	29	25-S	35-E		2365 FNL	1385 FEL	32.102112°N	103.385483°W	LEA

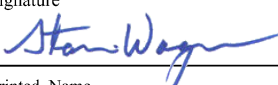
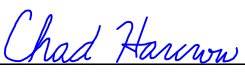
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	29	25-S	35-E		2540 FSL	1100 FEL	32.101083°N	103.384562°W	LEA

Last Take Point (LTP)

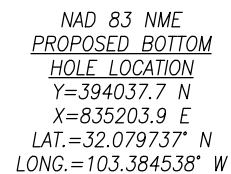
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	32	25-S	35-E		100 FSL	1100 FEL	32.079874°N	103.384538°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3255.6'
---	--	---

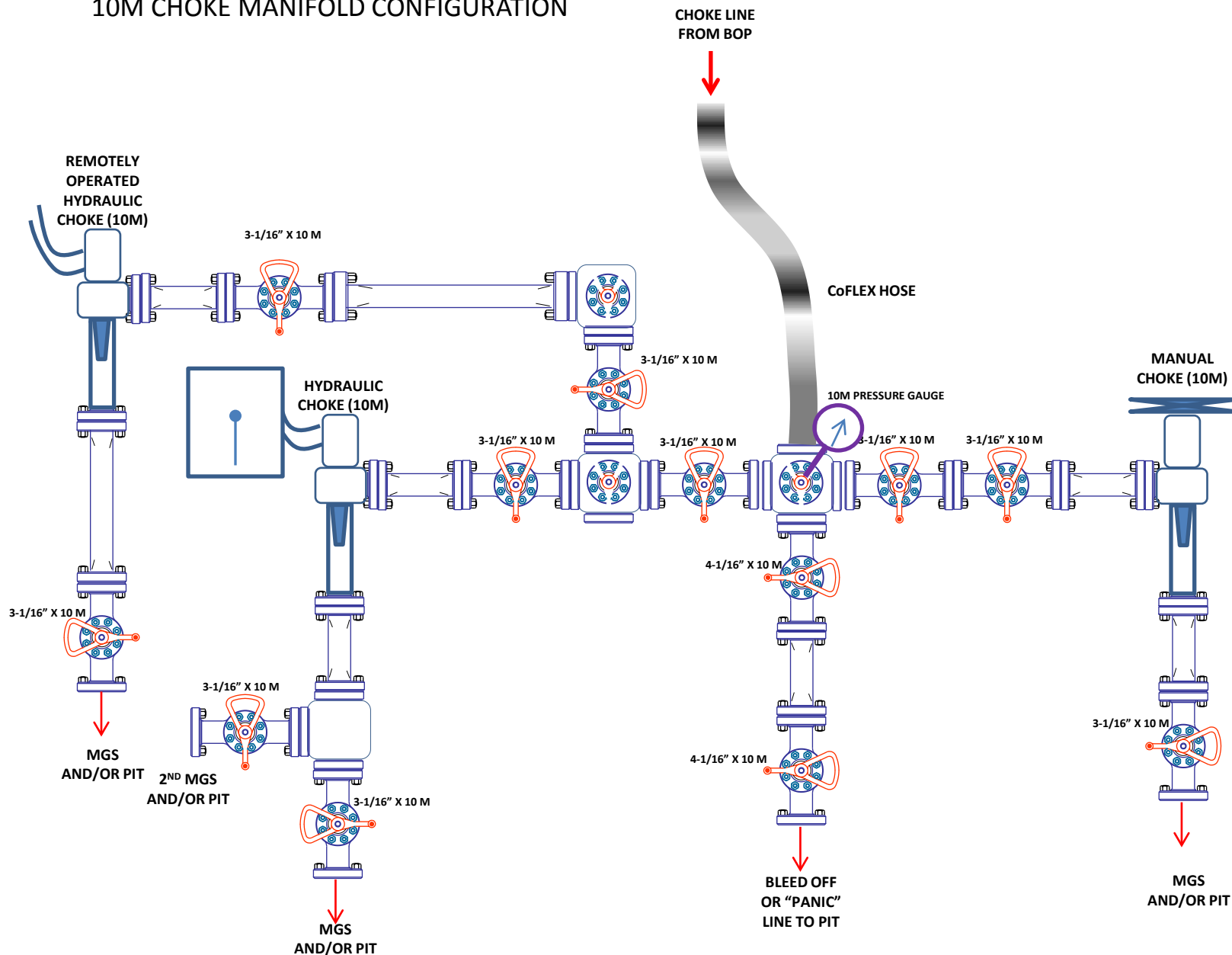
OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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  6/6/25	
Printed Name Stan Wagner	Email Address	Certificate Number 17777	Date of Survey MAY 28, 2025
		W.O.#25-511	DRAWN BY: WN PAGE 1 OF 2



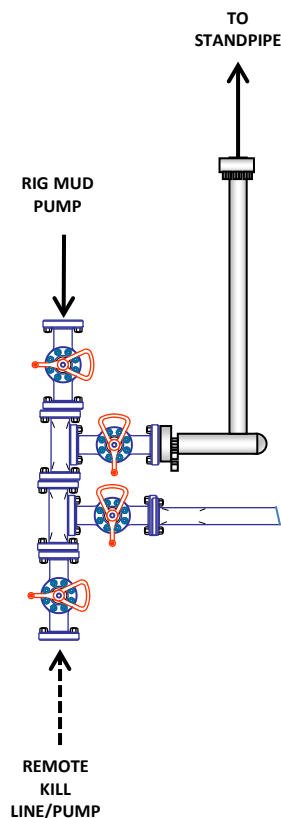
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



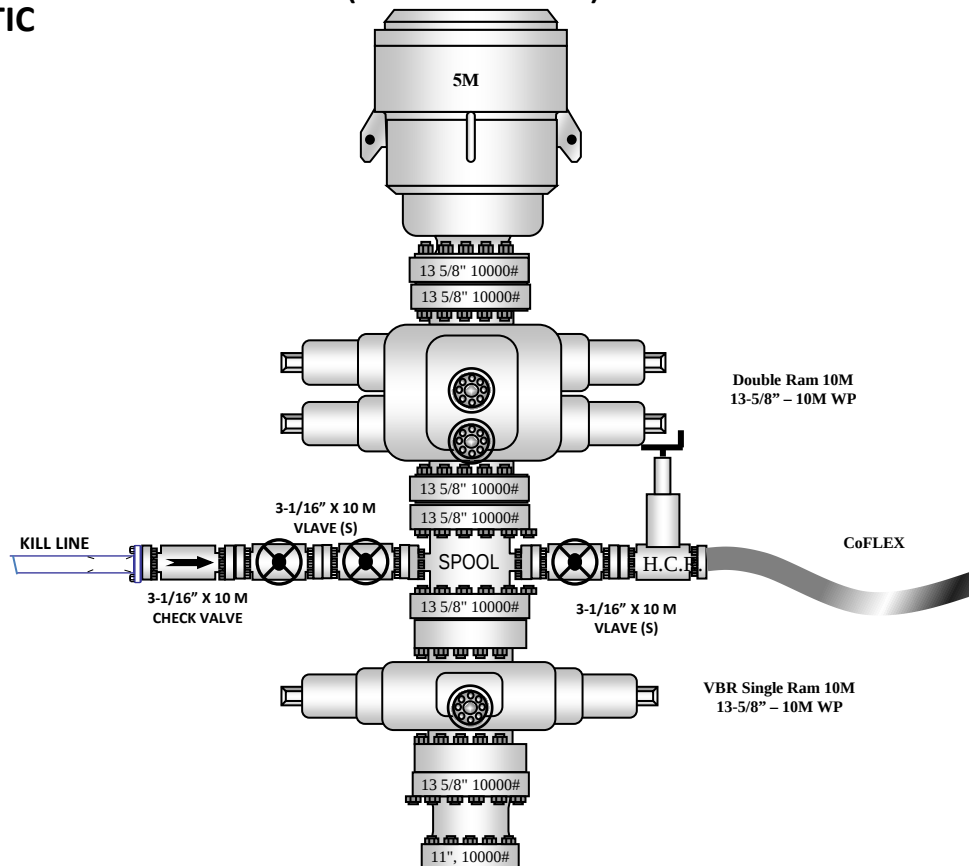
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips - Boater Federal Com 703H

1. Geologic Formations

TVD of Target:	12,550' EOL	Pilot hole depth:	N/A
MD at TD:	20,528'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	704	Water	
Top of Salt	851	Salt	
Base of Salt	5144	Salt	
Lamar	5262	Salt Water	
Bell Canyon	5276	Salt Water	
Cherry Canyon	6259	Oil/Gas	
Brushy Canyon	7940	Oil/Gas	
Bone Spring	9193	Oil/Gas	
1st Bone Spring Sand	10380	Oil/Gas	
2nd Bone Spring Sand	10909	Oil/Gas	
3rd Bone Spring Sand	11998	Oil/Gas	
Wolfcamp	12378	Oil/Gas	
Wolfcamp A	12504	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	701	10.75"	45.5	J55	BTC	6.52	8.37	22.42	24.96
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.47	1.03	2.98	3.01
8.750"	8200	11992	7.625"	29.7	P110-ICY	W513	2.85	1.56	3.00	1.80
6.75"	0	11792	5.5"	23	P110-CY	BTC	3.39	2.05	2.69	2.69
6.75"	11792	20,528	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.

ConocoPhillips - Boater Federal Com 703H

	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?	

ConocoPhillips - Boater Federal Com 703H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	191	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1178	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	554	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	11,492'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	191	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	415	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	7,940'	122%
Production	11,492'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Boater Federal Com 703H

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.

ConocoPhillips - Boater Federal Com 703H

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

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 703H**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.
- 338321 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

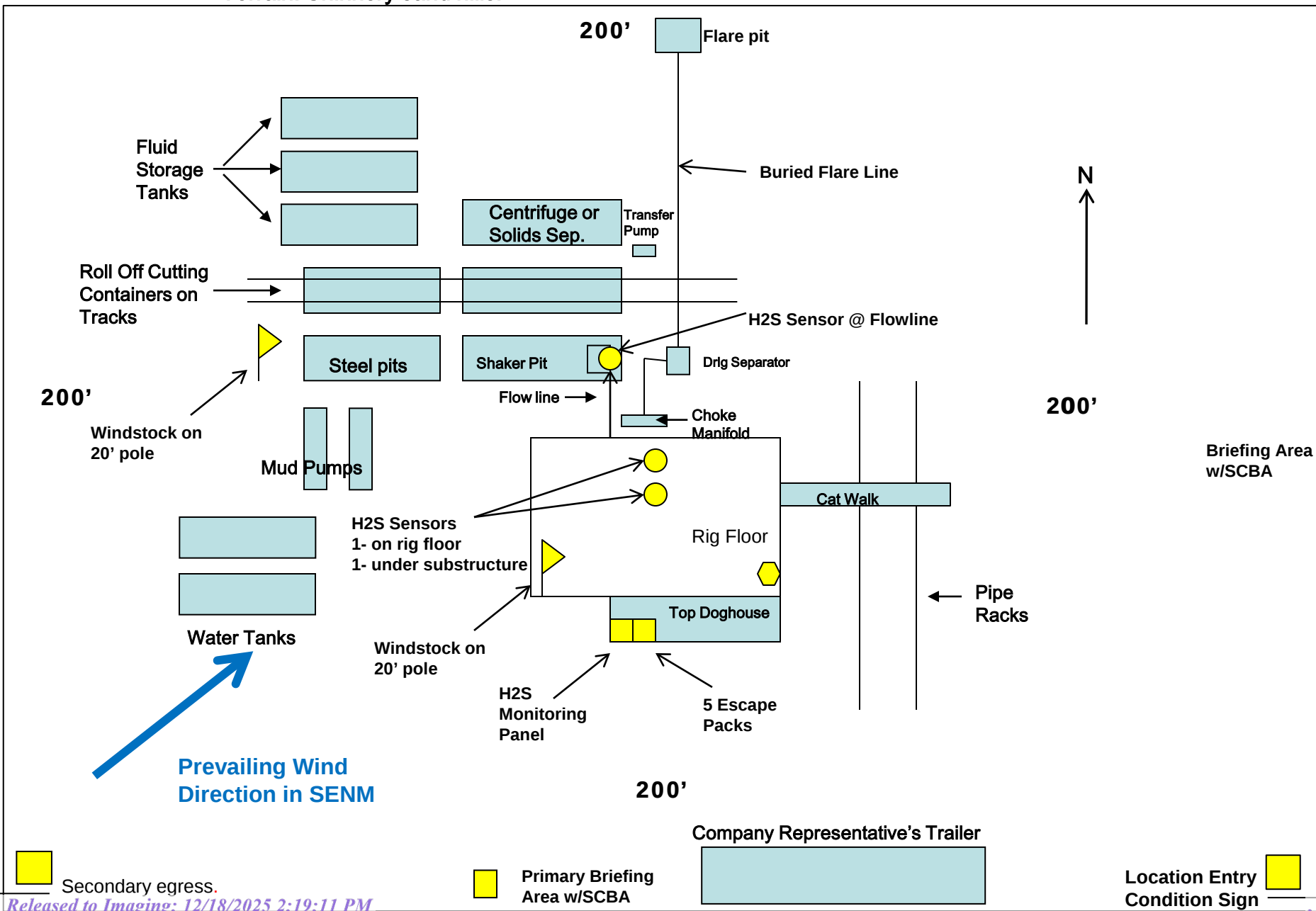
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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 703H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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	20,528.1	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

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						
AKUBRA PROJECT						
AKUBRA FED COM 601H - OWB - AWP						Out of range
AKUBRA FED COM 701H - OWB - AWP						Out of range
AKUBRA FED COM 801H - OWB - AWP						Out of range
BOATER FED COM PROJECT						
_BOATER FED COM 602H - OWB - PWP0						Out of range
_BOATER FED COM 603H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245 CC, ES	
_BOATER FED COM 603H - OWB - PWP0	20,528.1	20,359.7	671.9	514.9	4.279 SF	
_BOATER FED COM 701H - OWB - PWP0						Out of range
_BOATER FED COM 702H - OWB - PWP0						Out of range
_BOATER FED COM 802H - OWB - PWP0						Out of range
_BOATER FED COM 803H - OWB - PWP0	2,000.0	2,000.0	119.7	108.3	10.465 CC, ES	
_BOATER FED COM 803H - OWB - PWP0	2,100.0	2,096.0	121.4	109.6	10.284 SF	
_BOATER FED COM 804H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867 CC, ES	
_BOATER FED COM 804H - OWB - PWP0	2,100.0	2,096.9	91.7	79.9	7.767 SF	
_BOATER FED COM 805H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623 Normal Operations, CC	
_BOATER FED COM 805H - OWB - PWP0	2,100.0	2,099.9	30.1	18.4	2.570 Normal Operations, ES	
_BOATER FED COM 805H - OWB - PWP0	20,528.1	20,335.6	386.1	230.6	2.482 Caution - Monitor Closely, SF	
_BOATER FED COM 806H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623 Normal Operations, CC, ES, SF	
CAVE LION 5 TB FEDERAL - OWB - AWP	20,528.1	17,374.0	776.5	640.7	5.717 CC, ES, SF	
CAVE LION 5 TB FEDERAL 008H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	20,528.1	17,340.0	428.7	301.3	3.366 CC, ES, SF	
CAVE LION 5 WA FEDERAL 009H - OWB - AWP						Out of range
CAVE LION 5 WC FEDERAL 002H - OWB - AWP						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 703H - Slot BOATER FED COM 703H
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 703H	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)						
DUO SONIC 29 FEDERAL #4H - OWB - AWP	10,996.9	13,537.3	433.3	361.1	5.999 CC	
DUO SONIC 29 FEDERAL #4H - OWB - AWP	11,000.0	13,537.2	433.3	361.1	5.998 ES, SF	
GREEN BERET FED COM #501H - OWB - AWP	12,600.0	20,226.0	892.9	802.9	9.922 SF	
GREEN BERET FED COM #501H - OWB - AWP	12,622.6	20,226.0	892.6	802.6	9.923 CC, ES	
GREEN BERET FED COM #602H - OWB - AWP	12,631.1	20,271.0	137.5	53.0	1.628 Caution - Monitor Closely, CC, ES, SF	
GREEN BERET FED COM #603H - OWB - AWP					Out of range	
GREEN BERET FED COM #701H - OWB - AWP	11,026.7	18,246.3	847.3	752.8	8.967 CC, ES, SF	
GREEN BERET FED COM #702H - OWB - AWP					Out of range	
GREEN BERET FED COM #703H - OWB - AWP					Out of range	
GREEN BERET FED COM #801H - OWB - AWP	12,351.1	19,839.2	355.8	267.9	4.050 CC, ES, SF	
TELE DELUX 32 STATE 4H - OWB - AWP	15,971.4	12,602.8	440.3	357.7	5.332 CC, ES	
TELE DELUX 32 STATE 4H - OWB - AWP	20,300.0	16,899.8	731.1	562.5	4.336 SF	

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 MWD+IFR1										Offset Well Error:	0.0 usft	
Reference		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		
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.4	-60.0	60.0					
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.4	-60.0	60.0	58.0	1.99	30.132		
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.4	-60.0	60.0	56.7	3.31	18.118		
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.4	-60.0	60.0	55.8	4.20	14.301		
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.4	-60.0	60.0	55.1	4.91	12.215		
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.4	-60.0	60.0	54.5	5.53	10.844		
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.4	-60.0	60.0	53.9	6.09	9.852		
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.4	-60.0	60.0	53.4	6.60	9.089		
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.4	-60.0	60.0	52.9	7.08	8.479		
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.4	-60.0	60.0	52.5	7.52	7.975		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.4	-60.0	60.0	52.1	7.95	7.550		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.4	-60.0	60.0	51.6	8.35	7.184		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.4	-60.0	60.0	51.3	8.74	6.865		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.4	-60.0	60.0	50.9	9.11	6.584		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.4	-60.0	60.0	50.5	9.47	6.334		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.4	-60.0	60.0	50.2	9.82	6.108		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.4	-60.0	60.0	49.8	10.16	5.904		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.4	-60.0	60.0	49.5	10.49	5.718		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.4	-60.0	60.0	49.2	10.82	5.548		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.4	-60.0	60.0	48.9	11.13	5.390		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.4	-60.0	60.0	48.6	11.44	5.245 CC, ES		
2,100.0	2,100.0	2,097.9	2,097.9	5.7	5.8	-90.27	-0.3	-61.7	61.7	49.9	11.81	5.225		
2,200.0	2,200.0	2,195.6	2,195.5	5.9	6.0	-89.92	0.1	-66.7	66.8	54.6	12.16	5.492		
2,300.0	2,300.0	2,292.8	2,292.3	6.0	6.2	-89.45	0.7	-74.9	75.3	62.8	12.52	6.014		
2,400.0	2,400.0	2,389.4	2,388.2	6.2	6.5	-88.94	1.6	-86.3	87.2	74.3	12.89	6.764		
2,500.0	2,500.0	2,485.2	2,482.9	6.3	6.7	-88.46	2.7	-100.9	102.3	89.1	13.20	7.752		
2,600.0	2,600.0	2,583.5	2,579.8	6.5	6.9	-172.53	4.0	-117.3	120.8	107.1	13.64	8.852		
2,700.0	2,699.8	2,681.1	2,676.0	6.7	7.2	-172.45	5.2	-133.5	142.6	128.5	14.09	10.115		
2,800.0	2,799.5	2,777.9	2,771.4	6.9	7.5	-172.53	6.4	-149.7	167.7	153.1	14.57	11.511		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 0.0 usft	
Measured Depth (usft)	Reference Depth (usft)	Offset 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)				
2,900.0	2,898.7	2,873.7	2,865.9	7.2	7.7	-172.70	7.7	-165.6	196.2	181.1	15.08	13.015		
2,946.5	2,944.7	2,917.9	2,909.5	7.2	7.9	-172.79	8.2	-173.0	210.6	195.3	15.27	13.788		
3,000.0	2,997.5	2,968.7	2,959.6	7.3	8.0	-172.94	8.9	-181.5	227.5	212.0	15.51	14.674		
3,100.0	3,096.3	3,063.5	3,053.1	7.5	8.3	-173.16	10.1	-197.3	259.2	243.2	16.01	16.192		
3,200.0	3,195.1	3,158.4	3,146.6	7.8	8.6	-173.34	11.3	-213.1	290.9	274.4	16.54	17.588		
3,300.0	3,293.9	3,253.2	3,240.1	8.0	8.9	-173.48	12.5	-228.9	322.6	305.5	17.10	18.867		
3,400.0	3,392.7	3,348.0	3,333.6	8.3	9.3	-173.59	13.7	-244.7	354.3	336.7	17.68	20.038		
3,500.0	3,491.5	3,442.9	3,427.1	8.6	9.6	-173.69	14.9	-260.5	386.0	367.8	18.29	21.110		
3,600.0	3,590.3	3,537.7	3,520.6	8.9	9.9	-173.77	16.1	-276.4	417.7	398.8	18.89	22.109		
3,700.0	3,689.1	3,638.8	3,620.3	9.2	10.3	-173.85	17.4	-292.7	448.9	429.4	19.55	22.960		
3,800.0	3,787.9	3,742.7	3,723.1	9.5	10.6	-173.94	18.5	-307.7	478.5	458.2	20.26	23.611		
3,900.0	3,886.6	3,847.8	3,827.4	9.8	11.0	-174.03	19.6	-320.9	506.2	485.3	20.98	24.128		
4,000.0	3,985.4	3,953.9	3,932.9	10.1	11.4	-174.13	20.4	-332.4	532.3	510.6	21.70	24.527		
4,100.0	4,084.2	4,061.1	4,039.6	10.5	11.8	-174.23	21.2	-341.9	556.5	534.1	22.42	24.823		
4,126.8	4,110.7	4,090.0	4,068.4	10.6	11.9	-174.26	21.3	-344.2	562.7	540.1	22.60	24.899		
4,200.0	4,183.1	4,169.3	4,147.6	10.8	12.1	-174.36	21.8	-349.6	578.4	555.3	23.10	25.042		
4,300.0	4,282.2	4,278.8	4,256.9	11.2	12.5	-174.47	22.2	-355.3	596.9	573.1	23.78	25.095		
4,400.0	4,381.5	4,389.3	4,367.4	11.5	12.8	-174.58	22.5	-358.9	611.7	587.3	24.44	25.033		
4,500.0	4,481.0	4,500.6	4,478.7	11.9	13.1	-174.67	22.6	-360.4	622.9	597.9	25.02	24.895		
4,600.0	4,580.7	4,602.6	4,580.7	12.2	13.1	-174.75	22.6	-360.4	631.1	605.7	25.40	24.850		
4,700.0	4,680.4	4,702.4	4,680.4	12.5	13.2	-174.81	22.6	-360.4	637.5	611.8	25.77	24.741		
4,800.0	4,780.3	4,802.3	4,780.3	12.8	13.3	-174.85	22.6	-360.4	642.2	616.1	26.13	24.582		
4,900.0	4,880.3	4,902.3	4,880.3	13.1	13.3	-174.88	22.6	-360.4	645.2	618.7	26.46	24.382		
5,000.0	4,980.3	5,002.2	4,980.3	13.3	13.4	-174.89	22.6	-360.4	646.4	619.6	26.75	24.165		
5,019.7	5,000.0	5,022.0	5,000.0	13.3	13.4	-90.48	22.6	-360.4	646.4	619.7	26.78	24.139		
5,100.0	5,080.3	5,102.2	5,080.3	13.4	13.5	-90.48	22.6	-360.4	646.4	619.5	26.88	24.047		
5,200.0	5,180.3	5,202.2	5,180.3	13.4	13.5	-90.48	22.6	-360.4	646.4	619.4	27.02	23.926		
5,300.0	5,280.3	5,302.2	5,280.3	13.5	13.6	-90.48	22.6	-360.4	646.4	619.3	27.15	23.807		
5,400.0	5,380.3	5,402.2	5,380.3	13.6	13.7	-90.48	22.6	-360.4	646.4	619.1	27.29	23.688		
5,500.0	5,480.3	5,502.2	5,480.3	13.6	13.7	-90.48	22.6	-360.4	646.4	619.0	27.42	23.571		
5,600.0	5,580.3	5,602.2	5,580.3	13.7	13.8	-90.48	22.6	-360.4	646.4	618.9	27.56	23.454		
5,700.0	5,680.3	5,702.2	5,680.3	13.8	13.9	-90.48	22.6	-360.4	646.4	618.7	27.70	23.339		
5,800.0	5,780.3	5,802.2	5,780.3	13.9	13.9	-90.48	22.6	-360.4	646.4	618.6	27.83	23.224		
5,900.0	5,880.3	5,902.2	5,880.3	13.9	14.0	-90.48	22.6	-360.4	646.4	618.5	27.97	23.110		
6,000.0	5,980.3	6,002.2	5,980.3	14.0	14.1	-90.48	22.6	-360.4	646.4	618.3	28.11	22.997		
6,100.0	6,080.3	6,102.2	6,080.3	14.1	14.1	-90.48	22.6	-360.4	646.4	618.2	28.25	22.885		
6,200.0	6,180.3	6,202.2	6,180.3	14.1	14.2	-90.48	22.6	-360.4	646.4	618.0	28.38	22.774		
6,300.0	6,280.3	6,302.2	6,280.3	14.2	14.3	-90.48	22.6	-360.4	646.4	617.9	28.52	22.663		
6,400.0	6,380.3	6,402.2	6,380.3	14.3	14.4	-90.48	22.6	-360.4	646.4	617.8	28.66	22.554		
6,500.0	6,480.3	6,502.2	6,480.3	14.3	14.4	-90.48	22.6	-360.4	646.4	617.6	28.80	22.445		
6,600.0	6,580.3	6,602.2	6,580.3	14.4	14.5	-90.48	22.6	-360.4	646.4	617.5	28.94	22.338		
6,700.0	6,680.3	6,702.2	6,680.3	14.5	14.6	-90.48	22.6	-360.4	646.4	617.4	29.08	22.231		
6,800.0	6,780.3	6,802.2	6,780.3	14.6	14.6	-90.48	22.6	-360.4	646.4	617.2	29.22	22.125		
6,900.0	6,880.3	6,902.2	6,880.3	14.6	14.7	-90.48	22.6	-360.4	646.4	617.1	29.36	22.020		
7,000.0	6,980.3	7,002.2	6,980.3	14.7	14.8	-90.48	22.6	-360.4	646.4	616.9	29.50	21.915		
7,100.0	7,080.3	7,102.2	7,080.3	14.8	14.8	-90.48	22.6	-360.4	646.4	616.8	29.64	21.812		
7,200.0	7,180.3	7,202.2	7,180.3	14.8	14.9	-90.48	22.6	-360.4	646.4	616.7	29.78	21.709		
7,300.0	7,280.3	7,302.2	7,280.3	14.9	15.0	-90.48	22.6	-360.4	646.4	616.5	29.92	21.607		
7,400.0	7,380.3	7,402.2	7,380.3	15.0	15.1	-90.48	22.6	-360.4	646.4	616.4	30.06	21.506		
7,500.0	7,480.3	7,502.2	7,480.3	15.1	15.1	-90.48	22.6	-360.4	646.4	616.2	30.20	21.406		
7,600.0	7,580.3	7,602.2	7,580.3	15.1	15.2	-90.48	22.6	-360.4	646.4	616.1	30.34	21.306		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		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)				
7,700.0	7,680.3	7,702.2	7,680.3	15.2	15.3	-90.48	22.6	-360.4	646.4	615.9	30.48	21.208		
7,800.0	7,780.3	7,802.2	7,780.3	15.3	15.3	-90.48	22.6	-360.4	646.4	615.8	30.62	21.110		
7,900.0	7,880.3	7,902.2	7,880.3	15.3	15.4	-90.48	22.6	-360.4	646.4	615.7	30.76	21.012		
8,000.0	7,980.3	8,002.2	7,980.3	15.4	15.5	-90.48	22.6	-360.4	646.4	615.5	30.91	20.916		
8,100.0	8,080.3	8,102.2	8,080.3	15.5	15.6	-90.48	22.6	-360.4	646.4	615.4	31.05	20.820		
8,200.0	8,180.3	8,202.2	8,180.3	15.6	15.6	-90.48	22.6	-360.4	646.4	615.2	31.19	20.725		
8,300.0	8,280.3	8,302.2	8,280.3	15.6	15.7	-90.48	22.6	-360.4	646.4	615.1	31.33	20.631		
8,400.0	8,380.3	8,402.2	8,380.3	15.7	15.8	-90.48	22.6	-360.4	646.4	615.0	31.48	20.538		
8,500.0	8,480.3	8,502.2	8,480.3	15.8	15.8	-90.48	22.6	-360.4	646.4	614.8	31.62	20.445		
8,600.0	8,580.3	8,602.2	8,580.3	15.9	15.9	-90.48	22.6	-360.4	646.4	614.7	31.76	20.353		
8,700.0	8,680.3	8,702.2	8,680.3	15.9	16.0	-90.48	22.6	-360.4	646.4	614.5	31.90	20.262		
8,800.0	8,780.3	8,802.2	8,780.3	16.0	16.1	-90.48	22.6	-360.4	646.4	614.4	32.05	20.171		
8,900.0	8,880.3	8,902.2	8,880.3	16.1	16.1	-90.48	22.6	-360.4	646.4	614.2	32.19	20.081		
9,000.0	8,980.3	9,002.2	8,980.3	16.1	16.2	-90.48	22.6	-360.4	646.4	614.1	32.33	19.992		
9,100.0	9,080.3	9,102.2	9,080.3	16.2	16.3	-90.48	22.6	-360.4	646.4	614.0	32.48	19.904		
9,200.0	9,180.3	9,202.2	9,180.3	16.3	16.4	-90.48	22.6	-360.4	646.4	613.8	32.62	19.816		
9,300.0	9,280.3	9,302.2	9,280.3	16.4	16.4	-90.48	22.6	-360.4	646.4	613.7	32.77	19.729		
9,400.0	9,380.3	9,402.2	9,380.3	16.4	16.5	-90.48	22.6	-360.4	646.4	613.5	32.91	19.642		
9,500.0	9,480.3	9,502.2	9,480.3	16.5	16.6	-90.48	22.6	-360.4	646.4	613.4	33.05	19.556		
9,600.0	9,580.3	9,602.2	9,580.3	16.6	16.6	-90.48	22.6	-360.4	646.4	613.2	33.20	19.471		
9,700.0	9,680.3	9,702.2	9,680.3	16.7	16.7	-90.48	22.6	-360.4	646.4	613.1	33.34	19.387		
9,800.0	9,780.3	9,802.2	9,780.3	16.7	16.8	-90.48	22.6	-360.4	646.4	612.9	33.49	19.303		
9,900.0	9,880.3	9,902.2	9,880.3	16.8	16.9	-90.48	22.6	-360.4	646.4	612.8	33.63	19.220		
10,000.0	9,980.3	10,002.2	9,980.3	16.9	16.9	-90.48	22.6	-360.4	646.4	612.7	33.78	19.137		
10,100.0	10,080.3	10,102.2	10,080.3	16.9	17.0	-90.48	22.6	-360.4	646.4	612.5	33.92	19.055		
10,200.0	10,180.3	10,202.2	10,180.3	17.0	17.1	-90.48	22.6	-360.4	646.4	612.4	34.07	18.974		
10,300.0	10,280.3	10,302.2	10,280.3	17.1	17.2	-90.48	22.6	-360.4	646.4	612.2	34.22	18.893		
10,400.0	10,380.3	10,402.2	10,380.3	17.2	17.2	-90.48	22.6	-360.4	646.4	612.1	34.36	18.813		
10,500.0	10,480.3	10,502.2	10,480.3	17.2	17.3	-90.48	22.6	-360.4	646.4	611.9	34.51	18.733		
10,600.0	10,580.3	10,602.2	10,580.3	17.3	17.4	-90.48	22.6	-360.4	646.4	611.8	34.65	18.654		
10,700.0	10,680.3	10,702.2	10,680.3	17.4	17.4	-90.48	22.6	-360.4	646.4	611.6	34.80	18.576		
10,800.0	10,780.3	10,802.2	10,780.3	17.5	17.5	-90.48	22.6	-360.4	646.4	611.5	34.95	18.498		
10,900.0	10,880.3	10,902.2	10,880.3	17.5	17.6	-90.48	22.6	-360.4	646.4	611.3	35.09	18.421		
11,000.0	10,980.3	11,002.2	10,980.3	17.6	17.7	-90.48	22.6	-360.4	646.4	611.2	35.24	18.345		
11,100.0	11,080.3	11,102.2	11,080.3	17.7	17.7	-90.48	22.6	-360.4	646.4	611.0	35.38	18.269		
11,200.0	11,180.3	11,202.2	11,180.3	17.8	17.8	-90.48	22.6	-360.4	646.4	610.9	35.53	18.193		
11,300.0	11,280.3	11,302.2	11,280.3	17.8	17.9	-90.48	22.6	-360.4	646.4	610.8	35.68	18.118		
11,400.0	11,380.3	11,402.2	11,380.3	17.9	18.0	-90.48	22.6	-360.4	646.4	610.6	35.83	18.044		
11,500.0	11,480.3	11,502.2	11,480.3	18.0	18.0	-90.48	22.6	-360.4	646.4	610.5	35.97	17.970		
11,600.0	11,580.3	11,602.2	11,580.3	18.1	18.1	-90.48	22.6	-360.4	646.4	610.3	36.12	17.897		
11,700.0	11,680.3	11,702.2	11,680.3	18.1	18.2	-90.48	22.6	-360.4	646.4	610.2	36.27	17.824		
11,800.0	11,780.3	11,802.2	11,780.3	18.2	18.3	-90.48	22.6	-360.4	646.4	610.0	36.41	17.752		
11,900.0	11,880.3	11,902.2	11,880.3	18.3	18.3	-90.48	22.6	-360.4	646.4	609.9	36.56	17.680		
11,946.0	11,926.3	11,948.3	11,926.3	18.3	18.3	-90.53	22.0	-360.4	646.4	609.8	36.61	17.659		
12,000.0	11,980.3	12,001.7	11,979.4	18.4	18.3	-91.03	16.4	-360.3	646.5	609.8	36.63	17.647		
12,092.2	12,072.5	12,088.0	12,062.8	18.4	18.3	-92.94	-5.1	-360.1	647.1	610.4	36.68	17.643		
12,100.0	12,080.3	12,094.9	12,069.3	18.4	18.3	87.40	-7.5	-360.1	647.2	610.5	36.68	17.646		
12,125.0	12,105.3	12,116.8	12,089.7	18.4	18.3	86.71	-15.6	-360.1	647.6	611.0	36.67	17.662		
12,150.0	12,130.1	12,138.5	12,109.4	18.4	18.3	86.02	-24.6	-360.0	648.2	611.5	36.66	17.681		
12,175.0	12,154.9	12,159.9	12,128.5	18.4	18.2	85.34	-34.3	-359.9	648.8	612.2	36.66	17.700		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program:		0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside		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)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
12,200.0	12,179.4	12,181.0	12,146.9	18.4	18.2	84.68	-44.7	-359.8	649.5	612.9	36.66	17.720				
12,225.0	12,203.6	12,201.9	12,164.6	18.4	18.2	84.03	-55.8	-359.7	650.3	613.7	36.66	17.739				
12,250.0	12,227.4	12,222.5	12,181.6	18.4	18.2	83.40	-67.5	-359.6	651.2	614.5	36.67	17.757				
12,275.0	12,250.8	12,243.0	12,197.9	18.3	18.2	82.78	-79.8	-359.5	652.1	615.4	36.69	17.774				
12,300.0	12,273.8	12,263.2	12,213.6	18.3	18.2	82.19	-92.6	-359.3	653.0	616.3	36.71	17.788				
12,325.0	12,296.2	12,283.3	12,228.5	18.3	18.2	81.60	-106.0	-359.2	654.0	617.3	36.74	17.799				
12,350.0	12,317.9	12,303.2	12,242.8	18.3	18.2	81.04	-119.9	-359.1	655.0	618.2	36.78	17.807				
12,375.0	12,339.0	12,325.0	12,257.7	18.3	18.2	80.46	-135.8	-358.9	656.0	619.2	36.82	17.817				
12,400.0	12,359.4	12,342.6	12,269.2	18.3	18.2	79.99	-149.1	-358.8	657.1	620.2	36.89	17.811				
12,425.0	12,379.0	12,362.0	12,281.3	18.3	18.2	79.49	-164.3	-358.7	658.1	621.1	36.95	17.808				
12,450.0	12,397.7	12,381.4	12,292.8	18.3	18.2	79.02	-179.8	-358.5	659.1	622.1	37.03	17.801				
12,475.0	12,415.6	12,400.0	12,303.2	18.3	18.3	78.59	-195.3	-358.4	660.1	623.0	37.11	17.788				
12,500.0	12,432.5	12,419.7	12,313.6	18.3	18.3	78.16	-212.0	-358.2	661.1	623.9	37.19	17.775				
12,525.0	12,448.4	12,438.7	12,322.9	18.3	18.3	77.76	-228.6	-358.1	662.0	624.7	37.28	17.756				
12,550.0	12,463.3	12,457.7	12,331.6	18.3	18.3	77.39	-245.4	-357.9	662.9	625.5	37.38	17.735				
12,575.0	12,477.1	12,475.0	12,338.9	18.3	18.3	77.07	-261.2	-357.8	663.8	626.3	37.49	17.707				
12,600.0	12,489.8	12,495.3	12,346.7	18.3	18.3	76.74	-279.9	-357.6	664.6	627.0	37.58	17.684				
12,625.0	12,501.4	12,514.0	12,353.3	18.3	18.3	76.46	-297.4	-357.4	665.3	627.6	37.69	17.654				
12,650.0	12,511.8	12,532.7	12,359.1	18.4	18.4	76.21	-315.1	-357.3	666.0	628.2	37.79	17.624				
12,675.0	12,521.0	12,550.0	12,363.8	18.4	18.4	75.99	-331.8	-357.1	666.6	628.7	37.90	17.589				
12,700.0	12,528.9	12,569.8	12,368.5	18.4	18.4	75.79	-351.1	-356.9	667.1	629.1	38.00	17.558				
12,725.0	12,535.6	12,588.3	12,372.2	18.4	18.4	75.63	-369.2	-356.8	667.6	629.5	38.10	17.524				
12,750.0	12,541.1	12,606.8	12,375.2	18.5	18.4	75.49	-387.5	-356.6	668.0	629.8	38.19	17.489				
12,775.0	12,545.2	12,625.0	12,377.4	18.5	18.5	75.39	-405.5	-356.4	668.3	630.0	38.29	17.454				
12,800.0	12,548.1	12,643.8	12,379.0	18.5	18.5	75.32	-424.2	-356.2	668.5	630.1	38.37	17.420				
12,825.0	12,549.7	12,662.2	12,379.8	18.6	18.5	75.28	-442.6	-356.1	668.6	630.1	38.46	17.385				
12,842.2	12,550.0	12,675.1	12,380.0	18.6	18.5	75.27	-455.5	-356.0	668.6	630.1	38.51	17.362				
12,900.0	12,550.0	12,732.8	12,380.0	18.7	18.7	75.27	-513.2	-355.4	668.6	629.9	38.73	17.262				
13,000.0	12,550.0	12,832.8	12,380.0	18.9	18.9	75.27	-613.2	-354.5	668.7	629.5	39.20	17.058				
13,100.0	12,550.0	12,932.8	12,380.0	19.2	19.2	75.27	-713.2	-353.6	668.7	629.0	39.75	16.823				
13,200.0	12,550.0	13,032.8	12,380.0	19.6	19.5	75.27	-813.2	-352.6	668.8	628.4	40.38	16.561				
13,300.0	12,550.0	13,132.8	12,380.0	19.9	19.9	75.27	-913.2	-351.7	668.8	627.7	41.09	16.276				
13,400.0	12,550.0	13,232.8	12,380.0	20.3	20.3	75.28	-1,013.2	-350.8	668.8	627.0	41.87	15.973				
13,500.0	12,550.0	13,332.8	12,380.0	20.8	20.7	75.28	-1,113.2	-349.8	668.9	626.2	42.72	15.656				
13,600.0	12,550.0	13,432.8	12,380.0	21.3	21.2	75.28	-1,213.2	-348.9	668.9	625.3	43.64	15.328				
13,700.0	12,550.0	13,532.8	12,380.0	21.8	21.7	75.28	-1,313.2	-348.0	669.0	624.4	44.62	14.993				
13,800.0	12,550.0	13,632.8	12,380.0	22.3	22.3	75.28	-1,413.2	-347.0	669.0	623.4	45.65	14.654				
13,900.0	12,550.0	13,732.8	12,380.0	22.9	22.9	75.28	-1,513.2	-346.1	669.1	622.3	46.74	14.314				
14,000.0	12,550.0	13,832.8	12,380.0	23.5	23.5	75.28	-1,613.2	-345.2	669.1	621.2	47.88	13.975				
14,100.0	12,550.0	13,932.8	12,380.0	24.1	24.1	75.28	-1,713.2	-344.3	669.1	620.1	49.06	13.639				
14,200.0	12,550.0	14,032.8	12,380.0	24.8	24.7	75.28	-1,813.2	-343.3	669.2	618.9	50.29	13.307				
14,300.0	12,550.0	14,132.8	12,380.0	25.4	25.4	75.28	-1,913.2	-342.4	669.2	617.7	51.56	12.981				
14,400.0	12,550.0	14,232.8	12,380.0	26.1	26.1	75.29	-2,013.2	-341.5	669.3	616.4	52.86	12.661				
14,500.0	12,550.0	14,332.8	12,380.0	26.8	26.8	75.29	-2,113.2	-340.5	669.3	615.1	54.20	12.350				
14,600.0	12,550.0	14,432.8	12,380.0	27.5	27.5	75.29	-2,213.2	-339.6	669.4	613.8	55.57	12.046				
14,700.0	12,550.0	14,532.8	12,380.0	28.3	28.2	75.29	-2,313.2	-338.7	669.4	612.4	56.96	11.751				
14,800.0	12,550.0	14,632.8	12,380.0	29.0	29.0	75.29	-2,413.2	-337.7	669.4	611.0	58.39	11.465				
14,900.0	12,550.0	14,732.8	12,380.0	29.8	29.7	75.29	-2,513.1	-336.8	669.5	609.6	59.84	11.187				
15,000.0	12,550.0	14,832.8	12,380.0	30.5	30.5	75.29	-2,613.1	-335.9	669.5	608.2	61.32	10.919				
15,100.0	12,550.0	14,932.8	12,380.0	31.3	31.3	75.29	-2,713.1	-334.9	669.6	606.8	62.81	10.660				
15,200.0	12,550.0	15,032.8	12,380.0	32.1	32.1	75.29	-2,813.1	-334.0	669.6	605.3	64.33	10.409				

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		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)				
15,300.0	12,550.0	15,132.8	12,380.0	32.9	32.9	75.29	-2,913.1	-333.1	669.7	603.8	65.87	10.167		
15,400.0	12,550.0	15,232.8	12,380.0	33.7	33.7	75.29	-3,013.1	-332.2	669.7	602.3	67.42	9.933		
15,500.0	12,550.0	15,332.8	12,380.0	34.5	34.5	75.30	-3,113.1	-331.2	669.7	600.7	68.99	9.708		
15,600.0	12,550.0	15,432.8	12,380.0	35.4	35.3	75.30	-3,213.1	-330.3	669.8	599.2	70.57	9.490		
15,700.0	12,550.0	15,532.8	12,380.0	36.2	36.2	75.30	-3,313.1	-329.4	669.8	597.6	72.17	9.281		
15,800.0	12,550.0	15,632.8	12,380.0	37.0	37.0	75.30	-3,413.1	-328.4	669.9	596.1	73.79	9.078		
15,900.0	12,550.0	15,732.8	12,380.0	37.9	37.8	75.30	-3,513.1	-327.5	669.9	594.5	75.41	8.883		
16,000.0	12,550.0	15,832.8	12,380.0	38.7	38.7	75.30	-3,613.1	-326.6	669.9	592.9	77.05	8.695		
16,100.0	12,550.0	15,932.8	12,380.0	39.6	39.6	75.30	-3,713.1	-325.6	670.0	591.3	78.70	8.514		
16,200.0	12,550.0	16,032.8	12,380.0	40.4	40.4	75.30	-3,813.1	-324.7	670.0	589.7	80.35	8.338		
16,300.0	12,550.0	16,132.8	12,380.0	41.3	41.3	75.30	-3,913.1	-323.8	670.1	588.1	82.02	8.169		
16,400.0	12,550.0	16,232.8	12,380.0	42.2	42.1	75.30	-4,013.1	-322.9	670.1	586.4	83.70	8.006		
16,500.0	12,550.0	16,332.8	12,380.0	43.0	43.0	75.31	-4,113.1	-321.9	670.2	584.8	85.38	7.849		
16,600.0	12,550.0	16,432.8	12,380.0	43.9	43.9	75.31	-4,213.1	-321.0	670.2	583.1	87.08	7.697		
16,700.0	12,550.0	16,532.8	12,380.0	44.8	44.8	75.31	-4,313.1	-320.1	670.2	581.5	88.78	7.550		
16,800.0	12,550.0	16,632.8	12,380.0	45.7	45.7	75.31	-4,413.1	-319.1	670.3	579.8	90.49	7.408		
16,900.0	12,550.0	16,732.8	12,380.0	46.6	46.5	75.31	-4,513.1	-318.2	670.3	578.1	92.20	7.270		
17,000.0	12,550.0	16,832.8	12,380.0	47.4	47.4	75.31	-4,613.1	-317.3	670.4	576.4	93.92	7.138		
17,100.0	12,550.0	16,932.8	12,380.0	48.3	48.3	75.31	-4,713.1	-316.3	670.4	574.8	95.65	7.009		
17,200.0	12,550.0	17,032.8	12,380.0	49.2	49.2	75.31	-4,813.1	-315.4	670.5	573.1	97.38	6.885		
17,300.0	12,550.0	17,132.8	12,380.0	50.1	50.1	75.31	-4,913.0	-314.5	670.5	571.4	99.12	6.764		
17,400.0	12,550.0	17,232.8	12,380.0	51.0	51.0	75.31	-5,013.0	-313.5	670.5	569.7	100.86	6.648		
17,500.0	12,550.0	17,332.8	12,380.0	51.9	51.9	75.31	-5,113.0	-312.6	670.6	568.0	102.61	6.535		
17,600.0	12,550.0	17,432.8	12,380.0	52.8	52.8	75.32	-5,213.0	-311.7	670.6	566.3	104.37	6.426		
17,700.0	12,550.0	17,532.8	12,380.0	53.7	53.7	75.32	-5,313.0	-310.8	670.7	564.5	106.12	6.320		
17,800.0	12,550.0	17,632.8	12,380.0	54.7	54.6	75.32	-5,413.0	-309.8	670.7	562.8	107.88	6.217		
17,900.0	12,550.0	17,732.8	12,380.0	55.6	55.5	75.32	-5,513.0	-308.9	670.8	561.1	109.65	6.117		
18,000.0	12,550.0	17,832.8	12,380.0	56.5	56.5	75.32	-5,613.0	-308.0	670.8	559.4	111.42	6.020		
18,100.0	12,550.0	17,932.8	12,380.0	57.4	57.4	75.32	-5,713.0	-307.0	670.8	557.6	113.19	5.927		
18,200.0	12,550.0	18,032.8	12,380.0	58.3	58.3	75.32	-5,813.0	-306.1	670.9	555.9	114.97	5.835		
18,300.0	12,550.0	18,132.8	12,380.0	59.2	59.2	75.32	-5,913.0	-305.2	670.9	554.2	116.75	5.747		
18,400.0	12,550.0	18,232.8	12,380.0	60.1	60.1	75.32	-6,013.0	-304.2	671.0	552.4	118.53	5.661		
18,500.0	12,550.0	18,332.8	12,380.0	61.1	61.0	75.32	-6,113.0	-303.3	671.0	550.7	120.32	5.577		
18,600.0	12,550.0	18,432.8	12,380.0	62.0	62.0	75.33	-6,213.0	-302.4	671.0	548.9	122.10	5.496		
18,700.0	12,550.0	18,532.8	12,380.0	62.9	62.9	75.33	-6,313.0	-301.5	671.1	547.2	123.90	5.417		
18,800.0	12,550.0	18,632.8	12,380.0	63.8	63.8	75.33	-6,413.0	-300.5	671.1	545.4	125.69	5.340		
18,900.0	12,550.0	18,732.8	12,380.0	64.7	64.7	75.33	-6,513.0	-299.6	671.2	543.7	127.49	5.265		
19,000.0	12,550.0	18,832.8	12,380.0	65.7	65.7	75.33	-6,613.0	-298.7	671.2	541.9	129.28	5.192		
19,100.0	12,550.0	18,932.8	12,380.0	66.6	66.6	75.33	-6,713.0	-297.7	671.3	540.2	131.09	5.121		
19,200.0	12,550.0	19,032.8	12,380.0	67.5	67.5	75.33	-6,813.0	-296.8	671.3	538.4	132.89	5.052		
19,300.0	12,550.0	19,132.8	12,380.0	68.5	68.4	75.33	-6,913.0	-295.9	671.3	536.6	134.69	4.984		
19,400.0	12,550.0	19,232.8	12,380.0	69.4	69.4	75.33	-7,013.0	-294.9	671.4	534.9	136.50	4.919		
19,500.0	12,550.0	19,332.8	12,380.0	70.3	70.3	75.33	-7,113.0	-294.0	671.4	533.1	138.31	4.854		
19,600.0	12,550.0	19,432.8	12,380.0	71.2	71.2	75.33	-7,212.9	-293.1	671.5	531.3	140.12	4.792		
19,700.0	12,550.0	19,532.8	12,380.0	72.2	72.2	75.34	-7,312.9	-292.1	671.5	529.6	141.94	4.731		
19,800.0	12,550.0	19,632.8	12,380.0	73.1	73.1	75.34	-7,412.9	-291.2	671.6	527.8	143.75	4.672		
19,900.0	12,550.0	19,732.8	12,380.0	74.0	74.0	75.34	-7,512.9	-290.3	671.6	526.0	145.57	4.614		
20,000.0	12,550.0	19,832.8	12,380.0	75.0	75.0	75.34	-7,612.9	-289.4	671.6	524.3	147.39	4.557		
20,100.0	12,550.0	19,932.8	12,380.0	75.9	75.9	75.34	-7,712.9	-288.4	671.7	522.5	149.20	4.502		
20,200.0	12,550.0	20,032.8	12,380.0	76.9	76.8	75.34	-7,812.9	-287.5	671.7	520.7	151.03	4.448		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 603H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Offset Well Error: 0.0 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	No-Go	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Distance (usft)	Factor		
20,300.0	12,550.0	20,132.8	12,380.0	77.8	77.8	75.34	-7,912.9	-286.6	671.8	518.9	152.85	4.395		
20,400.0	12,550.0	20,232.8	12,380.0	78.7	78.7	75.34	-8,012.9	-285.6	671.8	517.1	154.67	4.343		
20,500.0	12,550.0	20,332.8	12,380.0	79.7	79.7	75.34	-8,112.9	-284.7	671.9	515.4	156.50	4.293		
20,528.1	12,550.0	20,359.7	12,380.0	79.9	79.9	75.34	-8,139.8	-284.5	671.9	514.9	157.00	4.279 SF		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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:		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	-90.39	-0.8	-119.7	119.7					
100.0	100.0	100.0	100.0	0.8	0.8	-90.39	-0.8	-119.7	119.7	117.7	1.99	60.123		
200.0	200.0	200.0	200.0	1.4	1.4	-90.39	-0.8	-119.7	119.7	116.4	3.31	36.152		
300.0	300.0	300.0	300.0	1.9	1.9	-90.39	-0.8	-119.7	119.7	115.5	4.20	28.536		
400.0	400.0	400.0	400.0	2.2	2.2	-90.39	-0.8	-119.7	119.7	114.8	4.91	24.373		
500.0	500.0	500.0	500.0	2.6	2.6	-90.39	-0.8	-119.7	119.7	114.2	5.53	21.637		
600.0	600.0	600.0	600.0	2.8	2.8	-90.39	-0.8	-119.7	119.7	113.6	6.09	19.657		
700.0	700.0	700.0	700.0	3.1	3.1	-90.39	-0.8	-119.7	119.7	113.1	6.60	18.136		
800.0	800.0	800.0	800.0	3.3	3.3	-90.39	-0.8	-119.7	119.7	112.6	7.08	16.918		
900.0	900.0	900.0	900.0	3.6	3.6	-90.39	-0.8	-119.7	119.7	112.2	7.52	15.912		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.39	-0.8	-119.7	119.7	111.8	7.95	15.064		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.39	-0.8	-119.7	119.7	111.4	8.35	14.335		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.39	-0.8	-119.7	119.7	111.0	8.74	13.699		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.39	-0.8	-119.7	119.7	110.6	9.11	13.138		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.39	-0.8	-119.7	119.7	110.2	9.47	12.638		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.39	-0.8	-119.7	119.7	109.9	9.82	12.188		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.39	-0.8	-119.7	119.7	109.6	10.16	11.781		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.39	-0.8	-119.7	119.7	109.2	10.49	11.409		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.39	-0.8	-119.7	119.7	108.9	10.82	11.069		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.39	-0.8	-119.7	119.7	108.6	11.13	10.756		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.39	-0.8	-119.7	119.7	108.3	11.44	10.465 CC, ES		
2,100.0	2,100.0	2,096.0	2,095.9	5.7	5.8	-90.35	-0.7	-121.3	121.4	109.6	11.80	10.284 SF		
2,200.0	2,200.0	2,191.7	2,191.6	5.9	6.0	-90.21	-0.5	-126.1	126.4	114.3	12.14	10.411		
2,300.0	2,300.0	2,287.0	2,286.5	6.0	6.2	-90.01	0.0	-134.1	134.7	122.3	12.46	10.810		
2,400.0	2,400.0	2,381.7	2,380.6	6.2	6.4	-89.76	0.6	-145.1	146.4	133.6	12.77	11.460		
2,500.0	2,500.0	2,475.6	2,473.4	6.3	6.6	-89.50	1.4	-159.0	161.3	148.2	13.07	12.340		
2,600.0	2,600.0	2,568.1	2,564.3	6.5	6.8	-173.66	2.3	-175.8	181.1	167.6	13.41	13.497		
2,700.0	2,699.8	2,658.4	2,652.6	6.7	7.0	-173.51	3.4	-194.9	207.3	193.6	13.75	15.083		
2,800.0	2,799.5	2,746.4	2,738.0	6.9	7.1	-173.43	4.6	-216.3	239.9	225.9	14.02	17.111		
2,900.0	2,898.7	2,839.3	2,827.8	7.2	7.2	-173.41	5.9	-240.0	277.0	262.7	14.35	19.305		
2,946.5	2,944.7	2,882.0	2,869.0	7.2	7.2	-173.42	6.6	-250.9	295.4	280.9	14.48	20.403		
3,000.0	2,997.5	2,931.0	2,916.4	7.3	7.3	-173.49	7.3	-263.5	316.9	302.3	14.62	21.670		
3,100.0	3,096.3	3,022.5	3,004.9	7.5	7.4	-173.59	8.6	-286.9	357.1	342.1	14.96	23.875		
3,200.0	3,195.1	3,114.1	3,093.4	7.8	7.6	-173.67	9.9	-310.3	397.3	382.0	15.31	25.948		
3,300.0	3,293.9	3,205.7	3,181.9	8.0	7.7	-173.74	11.2	-333.8	437.5	421.8	15.69	27.892		
3,400.0	3,392.7	3,297.2	3,270.4	8.3	7.9	-173.79	12.5	-357.2	477.7	461.7	16.08	29.712		
3,500.0	3,491.5	3,388.8	3,358.9	8.6	8.0	-173.84	13.9	-380.6	518.0	501.5	16.49	31.412		
3,600.0	3,590.3	3,480.3	3,447.4	8.9	8.2	-173.88	15.2	-404.1	558.2	541.3	16.91	33.000		
3,700.0	3,689.1	3,571.9	3,535.9	9.2	8.3	-173.92	16.5	-427.5	598.4	581.0	17.35	34.481		
3,800.0	3,787.9	3,663.4	3,624.4	9.5	8.5	-173.95	17.8	-450.9	638.6	620.8	17.81	35.862		
3,900.0	3,886.6	3,755.0	3,712.9	9.8	8.6	-173.97	19.1	-474.3	678.8	660.5	18.27	37.149		
4,000.0	3,985.4	3,846.6	3,801.4	10.1	8.8	-174.00	20.4	-497.8	719.0	700.3	18.75	38.349		
4,100.0	4,084.2	3,938.1	3,889.9	10.5	9.0	-174.02	21.8	-521.2	759.2	740.0	19.24	39.468		
4,126.8	4,110.7	3,962.6	3,913.6	10.6	9.0	-174.02	22.1	-527.5	770.0	750.7	19.36	39.781		
4,200.0	4,183.1	4,029.9	3,978.6	10.8	9.1	-174.07	23.1	-544.7	799.0	779.3	19.70	40.550		
4,300.0	4,282.2	4,122.3	4,067.9	11.2	9.3	-174.11	24.4	-568.3	837.3	817.1	20.20	41.442		
4,400.0	4,381.5	4,215.3	4,157.8	11.5	9.5	-174.14	25.7	-592.1	873.9	853.2	20.70	42.210		
4,500.0	4,481.0	4,309.0	4,248.4	11.9	9.6	-174.15	27.1	-616.1	908.9	887.7	21.20	42.867		
4,600.0	4,580.7	4,403.2	4,339.5	12.2	9.8	-174.16	28.5	-640.2	942.3	920.6	21.70	43.427		
4,700.0	4,680.4	4,498.1	4,431.1	12.5	10.0	-174.15	29.8	-664.5	974.1	951.9	22.19	43.903		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	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	-90.40	-0.6	-90.0	90.0					
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.6	-90.0	90.0	88.0	1.99	45.198		
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.6	-90.0	90.0	86.7	3.31	27.178		
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.6	-90.0	90.0	85.8	4.20	21.452		
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.6	-90.0	90.0	85.1	4.91	18.323		
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.6	-90.0	90.0	84.5	5.53	16.266		
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.6	-90.0	90.0	83.9	6.09	14.778		
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.6	-90.0	90.0	83.4	6.60	13.634		
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.6	-90.0	90.0	82.9	7.08	12.718		
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.6	-90.0	90.0	82.5	7.52	11.962		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.6	-90.0	90.0	82.1	7.95	11.324		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.6	-90.0	90.0	81.6	8.35	10.776		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.6	-90.0	90.0	81.3	8.74	10.298		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.6	-90.0	90.0	80.9	9.11	9.876		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.6	-90.0	90.0	80.5	9.47	9.500		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.6	-90.0	90.0	80.2	9.82	9.162		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.6	-90.0	90.0	79.8	10.16	8.856		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.6	-90.0	90.0	79.5	10.49	8.577		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.6	-90.0	90.0	79.2	10.82	8.321		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.6	-90.0	90.0	78.9	11.13	8.086		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.6	-90.0	90.0	78.6	11.44	7.867 CC, ES		
2,100.0	2,100.0	2,096.9	2,096.9	5.7	5.8	-90.37	-0.6	-91.6	91.7	79.9	11.81	7.767 SF		
2,200.0	2,200.0	2,193.6	2,193.5	5.9	6.0	-90.28	-0.5	-96.5	96.8	84.6	12.14	7.967		
2,300.0	2,300.0	2,289.9	2,289.4	6.0	6.2	-90.15	-0.3	-104.6	105.2	92.7	12.47	8.437		
2,400.0	2,400.0	2,385.5	2,384.3	6.2	6.4	-90.01	0.0	-115.9	116.9	104.2	12.78	9.153		
2,500.0	2,500.0	2,480.2	2,478.0	6.3	6.6	-89.85	0.3	-130.1	132.0	118.9	13.07	10.096		
2,600.0	2,600.0	2,573.8	2,569.9	6.5	6.7	-174.14	0.7	-147.2	152.0	138.6	13.35	11.382		
2,700.0	2,699.8	2,670.6	2,664.9	6.7	6.8	-174.14	1.2	-166.4	176.8	163.2	13.66	12.940		
2,800.0	2,799.5	2,766.6	2,758.9	6.9	7.0	-174.22	1.7	-185.3	205.0	191.0	14.01	14.630		
2,900.0	2,898.7	2,861.5	2,852.0	7.2	7.1	-174.35	2.1	-204.1	236.5	222.1	14.38	16.449		
2,946.5	2,944.7	2,905.2	2,894.8	7.2	7.2	-174.42	2.3	-212.7	252.3	237.8	14.51	17.390		
3,000.0	2,997.5	2,955.4	2,944.0	7.3	7.2	-174.53	2.5	-222.7	270.8	256.2	14.66	18.480		
3,100.0	3,096.3	3,049.2	3,036.0	7.5	7.4	-174.70	3.0	-241.2	305.5	290.5	15.00	20.372		
3,200.0	3,195.1	3,143.0	3,127.9	7.8	7.5	-174.83	3.4	-259.7	340.2	324.8	15.36	22.149		
3,300.0	3,293.9	3,236.8	3,219.9	8.0	7.6	-174.95	3.9	-278.3	374.8	359.1	15.74	23.816		
3,400.0	3,392.7	3,330.6	3,311.8	8.3	7.8	-175.04	4.3	-296.8	409.5	393.4	16.14	25.375		
3,500.0	3,491.5	3,424.4	3,403.7	8.6	7.9	-175.12	4.8	-315.3	444.2	427.6	16.56	26.831		
3,600.0	3,590.3	3,518.2	3,495.7	8.9	8.1	-175.18	5.2	-333.9	478.9	461.9	16.99	28.191		
3,700.0	3,689.1	3,611.9	3,587.6	9.2	8.3	-175.24	5.7	-352.4	513.6	496.1	17.43	29.458		
3,800.0	3,787.9	3,705.7	3,679.6	9.5	8.4	-175.29	6.1	-370.9	548.2	530.3	17.89	30.640		
3,900.0	3,886.6	3,799.5	3,771.5	9.8	8.6	-175.34	6.5	-389.5	582.9	564.6	18.36	31.741		
4,000.0	3,985.4	3,893.3	3,863.5	10.1	8.7	-175.38	7.0	-408.0	617.6	598.7	18.85	32.767		
4,100.0	4,084.2	3,987.1	3,955.4	10.5	8.9	-175.41	7.4	-426.5	652.3	632.9	19.34	33.724		
4,126.8	4,110.7	4,012.2	3,980.0	10.6	8.9	-175.42	7.5	-431.5	661.6	642.1	19.46	33.993		
4,200.0	4,183.1	4,081.1	4,047.5	10.8	9.0	-175.46	7.9	-445.1	686.5	666.7	19.81	34.647		
4,300.0	4,282.2	4,175.6	4,140.2	11.2	9.2	-175.50	8.3	-463.8	719.2	698.9	20.32	35.396		
4,400.0	4,381.5	4,270.7	4,233.3	11.5	9.4	-175.53	8.8	-482.6	750.2	729.4	20.82	36.027		
4,500.0	4,481.0	4,366.3	4,327.1	11.9	9.6	-175.54	9.2	-501.5	779.5	758.2	21.33	36.555		
4,600.0	4,580.7	4,462.3	4,421.2	12.2	9.7	-175.55	9.7	-520.4	807.2	785.4	21.82	36.990		
4,700.0	4,680.4	4,558.9	4,515.9	12.5	9.9	-175.54	10.1	-539.5	833.2	810.9	22.31	37.346		
4,800.0	4,780.3	4,655.9	4,611.0	12.8	10.1	-175.53	10.6	-558.7	857.6	834.8	22.79	37.637		

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		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)	Separation Factor
4,900.0	4,880.3	4,753.3	4,706.5	13.1	10.3	-175.51	11.1	-577.9	880.2	857.0		23.24	37.881
5,000.0	4,980.3	4,851.1	4,802.3	13.3	10.4	-175.47	11.5	-597.3	901.1	877.5		23.64	38.123
5,019.7	5,000.0	4,870.4	4,821.3	13.3	10.5	-91.06	11.6	-601.1	905.1	881.4		23.69	38.209
5,100.0	5,080.3	4,949.1	4,898.4	13.4	10.6	-91.02	12.0	-616.6	920.9	897.0		23.88	38.572
5,200.0	5,180.3	5,047.1	4,994.5	13.4	10.8	-90.97	12.4	-636.0	940.7	916.5		24.12	39.001
5,300.0	5,280.3	5,145.1	5,090.6	13.5	11.0	-90.92	12.9	-655.4	960.4	936.1		24.36	39.418
5,400.0	5,380.3	5,243.2	5,186.7	13.6	11.2	-90.87	13.4	-674.7	980.2	955.6		24.61	39.824
5,500.0	5,480.3	5,341.2	5,282.8	13.6	11.4	-90.83	13.8	-694.1	999.9	975.1		24.86	40.219

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 703H - Slot BOATER FED COM 703H
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 703H	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 805H - 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		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	-90.40	-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		
2,100.0	2,100.0	2,099.9	2,099.9	5.7	5.8	-93.72	-2.0	-30.0	30.1	18.4	11.72	2.570 Normal Operations, ES		
2,200.0	2,200.0	2,199.6	2,199.4	5.9	6.0	-103.34	-7.2	-30.2	31.0	19.1	11.98	2.591 Normal Operations		
2,300.0	2,300.0	2,298.8	2,298.3	6.0	6.2	-117.40	-15.8	-30.4	34.3	22.0	12.28	2.795 Normal Operations		
2,400.0	2,400.0	2,397.3	2,396.0	6.2	6.4	-132.00	-27.7	-30.8	41.6	29.0	12.64	3.291		
2,500.0	2,500.0	2,495.3	2,492.9	6.3	6.6	-143.88	-42.7	-31.2	53.4	40.4	12.95	4.122		
2,600.0	2,600.0	2,594.0	2,590.3	6.5	6.8	124.93	-58.6	-31.6	68.2	54.9	13.33	5.118		
2,700.0	2,699.8	2,692.4	2,687.4	6.7	7.0	122.49	-74.4	-32.1	85.5	71.8	13.71	6.237		
2,800.0	2,799.5	2,790.6	2,784.3	6.9	7.3	122.40	-90.1	-32.5	104.6	90.5	14.08	7.429		
2,900.0	2,898.7	2,888.3	2,880.8	7.2	7.5	123.57	-105.8	-32.9	125.6	111.2	14.47	8.681		
2,946.5	2,944.7	2,933.5	2,925.4	7.2	7.7	124.37	-113.1	-33.1	136.1	121.5	14.62	9.305		
3,000.0	2,997.5	2,985.6	2,976.8	7.3	7.8	125.46	-121.5	-33.4	148.4	133.6	14.80	10.025		
3,100.0	3,096.3	3,082.8	3,072.7	7.5	8.1	127.08	-137.1	-33.8	171.5	156.3	15.20	11.282		
3,200.0	3,195.1	3,179.9	3,168.6	7.8	8.4	128.31	-152.7	-34.2	194.7	179.1	15.62	12.465		
3,300.0	3,293.9	3,277.1	3,264.5	8.0	8.7	129.28	-168.3	-34.7	218.0	202.0	16.06	13.574		
3,400.0	3,392.7	3,374.3	3,360.5	8.3	9.1	130.07	-183.9	-35.1	241.3	224.8	16.52	14.613		
3,500.0	3,491.5	3,471.5	3,456.4	8.6	9.4	130.71	-199.5	-35.5	264.7	247.7	16.99	15.583		
3,600.0	3,590.3	3,568.7	3,552.3	8.9	9.8	131.25	-215.1	-36.0	288.1	270.6	17.47	16.489		
3,700.0	3,689.1	3,665.9	3,648.3	9.2	10.1	131.71	-230.7	-36.4	311.5	293.5	17.97	17.335		
3,800.0	3,787.9	3,763.1	3,744.2	9.5	10.5	132.11	-246.3	-36.8	334.9	316.5	18.48	18.123		
3,900.0	3,886.6	3,860.3	3,840.1	9.8	10.8	132.45	-261.9	-37.3	358.4	339.4	19.00	18.859		
4,000.0	3,985.4	3,957.5	3,936.1	10.1	11.2	132.75	-277.5	-37.7	381.8	362.3	19.54	19.545		
4,100.0	4,084.2	4,054.7	4,032.0	10.5	11.6	133.02	-293.2	-38.1	405.3	385.2	20.08	20.184		
4,126.8	4,110.7	4,080.7	4,057.7	10.6	11.7	133.08	-297.3	-38.3	411.6	391.4	20.21	20.362		
4,200.0	4,183.1	4,155.1	4,131.1	10.8	12.0	133.36	-309.0	-38.6	428.3	407.6	20.62	20.771		
4,300.0	4,282.2	4,259.3	4,234.3	11.2	12.4	133.67	-323.9	-39.0	448.9	427.7	21.20	21.171		
4,400.0	4,381.5	4,364.4	4,338.5	11.5	12.8	133.93	-337.0	-39.4	466.9	445.1	21.78	21.438		
4,500.0	4,481.0	4,470.2	4,443.7	11.9	13.1	134.13	-348.2	-39.7	482.2	459.9	22.34	21.585		
4,600.0	4,580.7	4,576.6	4,549.7	12.2	13.5	134.29	-357.6	-39.9	494.9	472.1	22.89	21.626		
4,700.0	4,680.4	4,683.5	4,656.4	12.5	13.9	134.41	-365.0	-40.1	505.0	481.5	23.41	21.572		
4,800.0	4,780.3	4,790.8	4,763.5	12.8	14.2	134.50	-370.4	-40.3	512.3	488.4	23.90	21.435		

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 703H - Slot BOATER FED COM 703H
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 703H	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 805H - 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)			
4,900.0	4,880.3	4,898.4	4,871.0	13.1	14.5	134.56	-373.8	-40.4	516.9	492.5	24.35	21.230	
5,000.0	4,980.3	5,006.1	4,978.8	13.3	14.8	134.58	-375.2	-40.4	518.8	494.1	24.71	20.995	
5,019.7	5,000.0	5,027.3	5,000.0	13.3	14.8	-141.01	-375.3	-40.4	518.8	494.1	24.73	20.976	
5,046.5	5,026.8	5,054.1	5,026.8	13.3	14.8	-141.01	-375.3	-40.4	518.8	494.1	24.76	20.953	
5,100.0	5,080.3	5,107.6	5,080.3	13.4	14.8	-141.01	-375.3	-40.4	518.8	494.0	24.82	20.906	
5,200.0	5,180.3	5,207.6	5,180.3	13.4	14.9	-141.01	-375.3	-40.4	518.8	493.9	24.95	20.799	
5,300.0	5,280.3	5,307.6	5,280.3	13.5	14.9	-141.01	-375.3	-40.4	518.8	493.8	25.07	20.692	
5,400.0	5,380.3	5,407.6	5,380.3	13.6	15.0	-141.01	-375.3	-40.4	518.8	493.6	25.20	20.587	
5,500.0	5,480.3	5,507.6	5,480.3	13.6	15.0	-141.01	-375.3	-40.4	518.8	493.5	25.33	20.482	
5,600.0	5,580.3	5,607.6	5,580.3	13.7	15.1	-141.01	-375.3	-40.4	518.8	493.4	25.46	20.378	
5,700.0	5,680.3	5,707.6	5,680.3	13.8	15.1	-141.01	-375.3	-40.4	518.8	493.2	25.59	20.274	
5,800.0	5,780.3	5,807.6	5,780.3	13.9	15.1	-141.01	-375.3	-40.4	518.8	493.1	25.72	20.172	
5,900.0	5,880.3	5,907.6	5,880.3	13.9	15.2	-141.01	-375.3	-40.4	518.8	493.0	25.85	20.070	
6,000.0	5,980.3	6,007.6	5,980.3	14.0	15.2	-141.01	-375.3	-40.4	518.8	492.9	25.98	19.968	
6,100.0	6,080.3	6,107.6	6,080.3	14.1	15.3	-141.01	-375.3	-40.4	518.8	492.7	26.11	19.868	
6,200.0	6,180.3	6,207.6	6,180.3	14.1	15.3	-141.01	-375.3	-40.4	518.8	492.6	26.25	19.768	
6,300.0	6,280.3	6,307.6	6,280.3	14.2	15.4	-141.01	-375.3	-40.4	518.8	492.5	26.38	19.670	
6,400.0	6,380.3	6,407.6	6,380.3	14.3	15.4	-141.01	-375.3	-40.4	518.8	492.3	26.51	19.571	
6,500.0	6,480.3	6,507.6	6,480.3	14.3	15.5	-141.01	-375.3	-40.4	518.8	492.2	26.64	19.474	
6,600.0	6,580.3	6,607.6	6,580.3	14.4	15.5	-141.01	-375.3	-40.4	518.8	492.1	26.78	19.377	
6,700.0	6,680.3	6,707.6	6,680.3	14.5	15.6	-141.01	-375.3	-40.4	518.8	491.9	26.91	19.281	
6,800.0	6,780.3	6,807.6	6,780.3	14.6	15.6	-141.01	-375.3	-40.4	518.8	491.8	27.04	19.186	
6,900.0	6,880.3	6,907.6	6,880.3	14.6	15.7	-141.01	-375.3	-40.4	518.8	491.7	27.18	19.092	
7,000.0	6,980.3	7,007.6	6,980.3	14.7	15.7	-141.01	-375.3	-40.4	518.8	491.5	27.31	18.998	
7,100.0	7,080.3	7,107.6	7,080.3	14.8	15.8	-141.01	-375.3	-40.4	518.8	491.4	27.44	18.905	
7,200.0	7,180.3	7,207.6	7,180.3	14.8	15.8	-141.01	-375.3	-40.4	518.8	491.3	27.58	18.812	
7,300.0	7,280.3	7,307.6	7,280.3	14.9	15.9	-141.01	-375.3	-40.4	518.8	491.1	27.71	18.721	
7,400.0	7,380.3	7,407.6	7,380.3	15.0	15.9	-141.01	-375.3	-40.4	518.8	491.0	27.85	18.630	
7,500.0	7,480.3	7,507.6	7,480.3	15.1	16.0	-141.01	-375.3	-40.4	518.8	490.8	27.99	18.540	
7,600.0	7,580.3	7,607.6	7,580.3	15.1	16.1	-141.01	-375.3	-40.4	518.8	490.7	28.12	18.450	
7,700.0	7,680.3	7,707.6	7,680.3	15.2	16.1	-141.01	-375.3	-40.4	518.8	490.6	28.26	18.361	
7,800.0	7,780.3	7,807.6	7,780.3	15.3	16.2	-141.01	-375.3	-40.4	518.8	490.4	28.39	18.273	
7,900.0	7,880.3	7,907.6	7,880.3	15.3	16.2	-141.01	-375.3	-40.4	518.8	490.3	28.53	18.186	
8,000.0	7,980.3	8,007.6	7,980.3	15.4	16.3	-141.01	-375.3	-40.4	518.8	490.2	28.67	18.099	
8,100.0	8,080.3	8,107.6	8,080.3	15.5	16.3	-141.01	-375.3	-40.4	518.8	490.0	28.80	18.013	
8,200.0	8,180.3	8,207.6	8,180.3	15.6	16.4	-141.01	-375.3	-40.4	518.8	489.9	28.94	17.927	
8,300.0	8,280.3	8,307.6	8,280.3	15.6	16.4	-141.01	-375.3	-40.4	518.8	489.8	29.08	17.842	
8,400.0	8,380.3	8,407.6	8,380.3	15.7	16.5	-141.01	-375.3	-40.4	518.8	489.6	29.22	17.758	
8,500.0	8,480.3	8,507.6	8,480.3	15.8	16.5	-141.01	-375.3	-40.4	518.8	489.5	29.36	17.674	
8,600.0	8,580.3	8,607.6	8,580.3	15.9	16.6	-141.01	-375.3	-40.4	518.8	489.3	29.49	17.592	
8,700.0	8,680.3	8,707.6	8,680.3	15.9	16.6	-141.01	-375.3	-40.4	518.8	489.2	29.63	17.509	
8,800.0	8,780.3	8,807.6	8,780.3	16.0	16.7	-141.01	-375.3	-40.4	518.8	489.1	29.77	17.428	
8,900.0	8,880.3	8,907.6	8,880.3	16.1	16.8	-141.01	-375.3	-40.4	518.8	488.9	29.91	17.347	
9,000.0	8,980.3	9,007.6	8,980.3	16.1	16.8	-141.01	-375.3	-40.4	518.8	488.8	30.05	17.266	
9,100.0	9,080.3	9,107.6	9,080.3	16.2	16.9	-141.01	-375.3	-40.4	518.8	488.6	30.19	17.186	
9,200.0	9,180.3	9,207.6	9,180.3	16.3	16.9	-141.01	-375.3	-40.4	518.8	488.5	30.33	17.107	
9,300.0	9,280.3	9,307.6	9,280.3	16.4	17.0	-141.01	-375.3	-40.4	518.8	488.4	30.47	17.029	
9,400.0	9,380.3	9,407.6	9,380.3	16.4	17.0	-141.01	-375.3	-40.4	518.8	488.2	30.61	16.951	
9,500.0	9,480.3	9,507.6	9,480.3	16.5	17.1	-141.01	-375.3	-40.4	518.8	488.1	30.75	16.873	
9,600.0	9,580.3	9,607.6	9,580.3	16.6	17.1	-141.01	-375.3	-40.4	518.8	487.9	30.89	16.797	

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 703H - Slot BOATER FED COM 703H
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 703H	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 805H - 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)			
9,700.0	9,680.3	9,707.6	9,680.3	16.7	17.2	-141.01	-375.3	-40.4	518.8	487.8	31.03	16.721	
9,800.0	9,780.3	9,807.6	9,780.3	16.7	17.3	-141.01	-375.3	-40.4	518.8	487.7	31.17	16.645	
9,900.0	9,880.3	9,907.6	9,880.3	16.8	17.3	-141.01	-375.3	-40.4	518.8	487.5	31.31	16.570	
10,000.0	9,980.3	10,007.6	9,980.3	16.9	17.4	-141.01	-375.3	-40.4	518.8	487.4	31.45	16.495	
10,100.0	10,080.3	10,107.6	10,080.3	16.9	17.4	-141.01	-375.3	-40.4	518.8	487.2	31.59	16.422	
10,200.0	10,180.3	10,207.6	10,180.3	17.0	17.5	-141.01	-375.3	-40.4	518.8	487.1	31.74	16.348	
10,300.0	10,280.3	10,307.6	10,280.3	17.1	17.6	-141.01	-375.3	-40.4	518.8	487.0	31.88	16.275	
10,400.0	10,380.3	10,407.6	10,380.3	17.2	17.6	-141.01	-375.3	-40.4	518.8	486.8	32.02	16.203	
10,500.0	10,480.3	10,507.6	10,480.3	17.2	17.7	-141.01	-375.3	-40.4	518.8	486.7	32.16	16.132	
10,600.0	10,580.3	10,607.6	10,580.3	17.3	17.7	-141.01	-375.3	-40.4	518.8	486.5	32.30	16.061	
10,700.0	10,680.3	10,707.6	10,680.3	17.4	17.8	-141.01	-375.3	-40.4	518.8	486.4	32.45	15.990	
10,800.0	10,780.3	10,807.6	10,780.3	17.5	17.8	-141.01	-375.3	-40.4	518.8	486.2	32.59	15.920	
10,900.0	10,880.3	10,907.6	10,880.3	17.5	17.9	-141.01	-375.3	-40.4	518.8	486.1	32.73	15.850	
11,000.0	10,980.3	11,007.6	10,980.3	17.6	18.0	-141.01	-375.3	-40.4	518.8	486.0	32.88	15.781	
11,100.0	11,080.3	11,107.6	11,080.3	17.7	18.0	-141.01	-375.3	-40.4	518.8	485.8	33.02	15.713	
11,200.0	11,180.3	11,207.6	11,180.3	17.8	18.1	-141.01	-375.3	-40.4	518.8	485.7	33.16	15.645	
11,300.0	11,280.3	11,307.6	11,280.3	17.8	18.1	-141.01	-375.3	-40.4	518.8	485.5	33.31	15.577	
11,400.0	11,380.3	11,407.6	11,380.3	17.9	18.2	-141.01	-375.3	-40.4	518.8	485.4	33.45	15.511	
11,500.0	11,480.3	11,507.6	11,480.3	18.0	18.3	-141.01	-375.3	-40.4	518.8	485.2	33.59	15.444	
11,600.0	11,580.3	11,607.6	11,580.3	18.1	18.3	-141.01	-375.3	-40.4	518.8	485.1	33.74	15.378	
11,700.0	11,680.3	11,707.6	11,680.3	18.1	18.4	-141.01	-375.3	-40.4	518.8	485.0	33.88	15.313	
11,800.0	11,780.3	11,807.6	11,780.3	18.2	18.4	-141.01	-375.3	-40.4	518.8	484.8	34.03	15.248	
11,900.0	11,880.3	11,907.6	11,880.3	18.3	18.5	-141.01	-375.3	-40.4	518.8	484.7	34.17	15.183	
12,000.0	11,980.3	12,007.6	11,980.3	18.4	18.6	-141.01	-375.3	-40.4	518.8	484.5	34.32	15.119	
12,092.2	12,072.5	12,099.8	12,072.5	18.4	18.6	-141.01	-375.3	-40.4	518.8	484.4	34.45	15.062	
12,100.0	12,080.3	12,107.6	12,080.3	18.4	18.6	39.55	-375.3	-40.4	518.8	484.3	34.45	15.060	
12,125.0	12,105.3	12,132.6	12,105.3	18.4	18.6	39.69	-375.3	-40.4	518.0	483.5	34.44	15.041	
12,150.0	12,130.1	12,157.5	12,130.1	18.4	18.7	40.00	-375.3	-40.4	516.1	481.7	34.42	14.996	
12,175.0	12,154.9	12,182.2	12,154.9	18.4	18.7	40.48	-375.3	-40.4	513.3	478.9	34.39	14.925	
12,200.0	12,179.4	12,206.7	12,179.4	18.4	18.7	41.14	-375.3	-40.4	509.6	475.2	34.36	14.828	
12,225.0	12,203.6	12,230.9	12,203.6	18.4	18.7	41.98	-375.3	-40.4	504.8	470.5	34.33	14.704	
12,250.0	12,227.4	12,254.7	12,227.4	18.4	18.7	43.02	-375.3	-40.4	499.2	464.9	34.30	14.555	
12,275.0	12,250.8	12,278.2	12,250.8	18.3	18.7	44.25	-375.3	-40.4	492.7	458.4	34.26	14.382	
12,300.0	12,273.8	12,299.8	12,272.5	18.3	18.7	45.64	-375.3	-40.4	485.3	451.1	34.21	14.186	
12,325.0	12,296.2	12,313.6	12,286.2	18.3	18.8	46.90	-375.5	-40.4	477.5	443.3	34.17	13.975	
12,350.0	12,317.9	12,325.0	12,297.7	18.3	18.8	48.15	-376.0	-40.4	469.4	435.2	34.14	13.748	
12,375.0	12,339.0	12,339.6	12,312.3	18.3	18.8	49.63	-376.9	-40.4	461.0	426.9	34.12	13.509	
12,400.0	12,359.4	12,350.0	12,322.6	18.3	18.8	51.01	-377.9	-40.4	452.4	418.3	34.13	13.253	
12,425.0	12,379.0	12,365.8	12,338.2	18.3	18.9	52.77	-379.8	-40.4	443.6	409.5	34.12	13.001	
12,450.0	12,397.7	12,375.0	12,347.4	18.3	18.9	54.24	-381.2	-40.4	434.7	400.6	34.17	12.725	
12,475.0	12,415.6	12,392.0	12,364.1	18.3	19.0	56.30	-384.2	-40.3	425.7	391.6	34.14	12.471	
12,500.0	12,432.5	12,405.1	12,376.9	18.3	19.0	58.21	-386.8	-40.3	416.7	382.6	34.14	12.206	
12,525.0	12,448.4	12,418.3	12,389.7	18.3	19.1	60.22	-389.9	-40.3	407.7	373.6	34.14	11.943	
12,550.0	12,463.3	12,431.5	12,402.5	18.3	19.1	62.32	-393.3	-40.2	398.8	364.7	34.12	11.687	
12,575.0	12,477.1	12,444.7	12,415.2	18.3	19.1	64.50	-397.1	-40.2	390.0	355.9	34.10	11.440	
12,600.0	12,489.8	12,458.0	12,427.8	18.3	19.2	66.74	-401.2	-40.2	381.5	347.5	34.05	11.204	
12,625.0	12,501.4	12,471.3	12,440.3	18.3	19.2	69.05	-405.7	-40.1	373.3	339.3	33.99	10.983	
12,650.0	12,511.8	12,484.6	12,452.7	18.4	19.3	71.40	-410.6	-40.1	365.6	331.7	33.91	10.780	
12,675.0	12,521.0	12,500.0	12,466.9	18.4	19.3	74.01	-416.6	-40.0	358.3	324.5	33.78	10.606	
12,700.0	12,528.9	12,511.4	12,477.3	18.4	19.4	76.16	-421.4	-40.0	351.6	317.9	33.71	10.432	
12,725.0	12,535.6	12,525.0	12,489.4	18.4	19.4	78.55	-427.4	-39.9	345.7	312.1	33.59	10.290	

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 703H - Slot BOATER FED COM 703H
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 703H	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 805H - 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)				
12,750.0	12,541.1	12,538.5	12,501.4	18.5	19.5	80.90	-433.7	-39.8	340.6	307.1	33.49	10.169		
12,775.0	12,545.2	12,552.2	12,513.3	18.5	19.5	83.21	-440.4	-39.8	336.4	303.0	33.40	10.070		
12,800.0	12,548.1	12,565.9	12,525.0	18.5	19.6	85.46	-447.5	-39.7	333.2	299.8	33.36	9.989		
12,825.0	12,549.7	12,579.7	12,536.7	18.6	19.7	87.63	-455.0	-39.6	331.2	297.8	33.37	9.923		
12,842.2	12,550.0	12,589.3	12,544.6	18.6	19.7	89.07	-460.4	-39.6	330.5	297.0	33.43	9.886		
12,853.7	12,550.0	12,595.9	12,550.0	18.6	19.7	90.00	-464.2	-39.6	330.3	296.8	33.49	9.863		
12,900.0	12,550.0	12,625.0	12,573.2	18.7	19.8	94.02	-481.8	-39.4	332.4	298.4	33.96	9.787		
13,000.0	12,550.0	12,707.1	12,632.1	18.9	20.1	103.97	-538.7	-38.8	347.9	311.6	36.26	9.593		
13,100.0	12,550.0	12,823.5	12,697.3	19.2	20.5	114.04	-634.8	-37.9	369.5	329.6	39.90	9.262		
13,200.0	12,550.0	12,977.6	12,744.5	19.6	20.8	120.50	-780.8	-36.5	384.5	341.2	43.26	8.887		
13,300.0	12,550.0	13,107.5	12,750.0	19.9	20.9	121.19	-910.4	-35.2	386.2	341.7	44.43	8.691		
13,400.0	12,550.0	13,207.5	12,750.0	20.3	20.9	121.19	-1,010.4	-34.2	386.2	340.9	45.24	8.537		
13,500.0	12,550.0	13,307.5	12,750.0	20.8	20.9	121.19	-1,110.4	-33.3	386.2	340.1	46.10	8.377		
13,600.0	12,550.0	13,407.5	12,750.0	21.3	20.9	121.19	-1,210.4	-32.3	386.2	339.1	47.01	8.214		
13,700.0	12,550.0	13,507.5	12,750.0	21.8	21.0	121.19	-1,310.4	-31.3	386.2	338.2	47.98	8.048		
13,800.0	12,550.0	13,607.5	12,750.0	22.3	21.0	121.19	-1,410.4	-30.3	386.2	337.2	49.00	7.882		
13,900.0	12,550.0	13,707.5	12,750.0	22.9	21.0	121.19	-1,510.4	-29.4	386.2	336.1	50.06	7.714		
14,000.0	12,550.0	13,807.5	12,750.0	23.5	21.1	121.19	-1,610.4	-28.4	386.2	335.0	51.16	7.548		
14,100.0	12,550.0	13,907.5	12,750.0	24.1	21.3	121.19	-1,710.4	-27.4	386.2	333.8	52.31	7.383		
14,200.0	12,550.0	14,007.5	12,750.0	24.8	21.9	121.19	-1,810.4	-26.4	386.2	332.7	53.49	7.220		
14,300.0	12,550.0	14,107.5	12,750.0	25.4	22.7	121.19	-1,910.4	-25.5	386.2	331.5	54.70	7.059		
14,400.0	12,550.0	14,207.5	12,750.0	26.1	23.4	121.19	-2,010.4	-24.5	386.2	330.2	55.95	6.901		
14,500.0	12,550.0	14,307.5	12,750.0	26.8	24.2	121.19	-2,110.4	-23.5	386.2	328.9	57.23	6.747		
14,600.0	12,550.0	14,407.5	12,750.0	27.5	25.0	121.19	-2,210.4	-22.5	386.2	327.6	58.54	6.596		
14,700.0	12,550.0	14,507.5	12,750.0	28.3	25.8	121.19	-2,310.4	-21.6	386.2	326.3	59.88	6.449		
14,800.0	12,550.0	14,607.5	12,750.0	29.0	26.6	121.19	-2,410.3	-20.6	386.2	324.9	61.24	6.306		
14,900.0	12,550.0	14,707.5	12,750.0	29.8	27.4	121.19	-2,510.3	-19.6	386.2	323.5	62.62	6.167		
15,000.0	12,550.0	14,807.5	12,750.0	30.5	28.3	121.19	-2,610.3	-18.6	386.2	322.1	64.03	6.031		
15,100.0	12,550.0	14,907.5	12,750.0	31.3	29.1	121.19	-2,710.3	-17.7	386.2	320.7	65.45	5.900		
15,200.0	12,550.0	15,007.5	12,750.0	32.1	30.0	121.19	-2,810.3	-16.7	386.2	319.3	66.90	5.772		
15,300.0	12,550.0	15,107.5	12,750.0	32.9	30.8	121.19	-2,910.3	-15.7	386.2	317.8	68.36	5.649		
15,400.0	12,550.0	15,207.5	12,750.0	33.7	31.7	121.19	-3,010.3	-14.7	386.2	316.3	69.84	5.529		
15,500.0	12,550.0	15,307.5	12,750.0	34.5	32.5	121.19	-3,110.3	-13.8	386.2	314.8	71.33	5.414		
15,600.0	12,550.0	15,407.5	12,750.0	35.4	33.4	121.19	-3,210.3	-12.8	386.2	313.3	72.84	5.301		
15,700.0	12,550.0	15,507.5	12,750.0	36.2	34.3	121.19	-3,310.3	-11.8	386.2	311.8	74.36	5.193		
15,800.0	12,550.0	15,607.5	12,750.0	37.0	35.2	121.19	-3,410.3	-10.8	386.2	310.3	75.90	5.088		
15,900.0	12,550.0	15,707.5	12,750.0	37.9	36.1	121.19	-3,510.3	-9.9	386.2	308.7	77.45	4.986		
16,000.0	12,550.0	15,807.5	12,750.0	38.7	37.0	121.19	-3,610.3	-8.9	386.2	307.1	79.01	4.888		
16,100.0	12,550.0	15,907.5	12,750.0	39.6	37.8	121.19	-3,710.3	-7.9	386.2	305.6	80.58	4.792		
16,200.0	12,550.0	16,007.5	12,750.0	40.4	38.7	121.19	-3,810.3	-6.9	386.2	304.0	82.16	4.700		
16,300.0	12,550.0	16,107.5	12,750.0	41.3	39.6	121.19	-3,910.3	-6.0	386.2	302.4	83.75	4.611		
16,400.0	12,550.0	16,207.5	12,750.0	42.2	40.6	121.19	-4,010.3	-5.0	386.2	300.8	85.35	4.525		
16,500.0	12,550.0	16,307.5	12,750.0	43.0	41.5	121.19	-4,110.3	-4.0	386.2	299.2	86.95	4.441		
16,600.0	12,550.0	16,407.5	12,750.0	43.9	42.4	121.19	-4,210.3	-3.1	386.2	297.6	88.57	4.360		
16,700.0	12,550.0	16,507.5	12,750.0	44.8	43.3	121.19	-4,310.3	-2.1	386.2	296.0	90.19	4.281		
16,800.0	12,550.0	16,607.5	12,750.0	45.7	44.2	121.19	-4,410.3	-1.1	386.2	294.3	91.82	4.205		
16,900.0	12,550.0	16,707.5	12,750.0	46.6	45.1	121.19	-4,510.2	-0.1	386.2	292.7	93.46	4.132		
17,000.0	12,550.0	16,807.5	12,750.0	47.4	46.0	121.19	-4,610.2	0.8	386.2	291.0	95.10	4.060		
17,100.0	12,550.0	16,907.5	12,750.0	48.3	46.9	121.19	-4,710.2	1.8	386.2	289.4	96.75	3.991		
17,200.0	12,550.0	17,007.5	12,750.0	49.2	47.9	121.19	-4,810.2	2.8	386.2	287.7	98.41	3.924		

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 703H - Slot BOATER FED COM 703H
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 703H	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 805H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1					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)					
17,300.0	12,550.0	17,107.5	12,750.0	50.1	48.8	121.19	-4,910.2	3.8	386.2	286.1	100.07	3.859			
17,400.0	12,550.0	17,207.5	12,750.0	51.0	49.7	121.19	-5,010.2	4.7	386.2	284.4	101.73	3.796			
17,500.0	12,550.0	17,307.5	12,750.0	51.9	50.6	121.19	-5,110.2	5.7	386.2	282.7	103.41	3.734			
17,600.0	12,550.0	17,407.5	12,750.0	52.8	51.6	121.19	-5,210.2	6.7	386.2	281.1	105.08	3.675			
17,700.0	12,550.0	17,507.5	12,750.0	53.7	52.5	121.19	-5,310.2	7.7	386.2	279.4	106.76	3.617			
17,800.0	12,550.0	17,607.5	12,750.0	54.7	53.4	121.19	-5,410.2	8.6	386.2	277.7	108.45	3.561			
17,900.0	12,550.0	17,707.5	12,750.0	55.6	54.3	121.19	-5,510.2	9.6	386.2	276.0	110.14	3.506			
18,000.0	12,550.0	17,807.5	12,750.0	56.5	55.3	121.19	-5,610.2	10.6	386.2	274.3	111.83	3.453			
18,100.0	12,550.0	17,907.5	12,750.0	57.4	56.2	121.19	-5,710.2	11.6	386.2	272.6	113.53	3.401			
18,200.0	12,550.0	18,007.5	12,750.0	58.3	57.1	121.19	-5,810.2	12.5	386.2	270.9	115.23	3.351			
18,300.0	12,550.0	18,107.5	12,750.0	59.2	58.1	121.19	-5,910.2	13.5	386.2	269.2	116.93	3.302			
18,400.0	12,550.0	18,207.5	12,750.0	60.1	59.0	121.19	-6,010.2	14.5	386.1	267.5	118.64	3.255			
18,500.0	12,550.0	18,307.5	12,750.0	61.1	60.0	121.19	-6,110.2	15.5	386.1	265.8	120.35	3.209			
18,600.0	12,550.0	18,407.5	12,750.0	62.0	60.9	121.19	-6,210.2	16.4	386.1	264.1	122.06	3.164			
18,700.0	12,550.0	18,507.5	12,750.0	62.9	61.8	121.19	-6,310.2	17.4	386.1	262.4	123.78	3.120			
18,800.0	12,550.0	18,607.5	12,750.0	63.8	62.8	121.19	-6,410.2	18.4	386.1	260.7	125.50	3.077			
18,900.0	12,550.0	18,707.5	12,750.0	64.7	63.7	121.19	-6,510.2	19.4	386.1	258.9	127.22	3.035			
19,000.0	12,550.0	18,807.5	12,750.0	65.7	64.7	121.19	-6,610.1	20.3	386.1	257.2	128.95	2.995 Normal Operations			
19,100.0	12,550.0	18,907.5	12,750.0	66.6	65.6	121.19	-6,710.1	21.3	386.1	255.5	130.67	2.955 Normal Operations			
19,200.0	12,550.0	19,007.5	12,750.0	67.5	66.5	121.19	-6,810.1	22.3	386.1	253.7	132.40	2.916 Normal Operations			
19,300.0	12,550.0	19,107.5	12,750.0	68.5	67.5	121.19	-6,910.1	23.3	386.1	252.0	134.13	2.879 Normal Operations			
19,400.0	12,550.0	19,207.5	12,750.0	69.4	68.4	121.19	-7,010.1	24.2	386.1	250.3	135.87	2.842 Normal Operations			
19,500.0	12,550.0	19,307.5	12,750.0	70.3	69.4	121.19	-7,110.1	25.2	386.1	248.5	137.60	2.806 Normal Operations			
19,600.0	12,550.0	19,407.5	12,750.0	71.2	70.3	121.19	-7,210.1	26.2	386.1	246.8	139.34	2.771 Normal Operations			
19,700.0	12,550.0	19,507.5	12,750.0	72.2	71.3	121.19	-7,310.1	27.2	386.1	245.1	141.08	2.737 Normal Operations			
19,800.0	12,550.0	19,607.5	12,750.0	73.1	72.2	121.19	-7,410.1	28.1	386.1	243.3	142.82	2.704 Normal Operations			
19,900.0	12,550.0	19,707.5	12,750.0	74.0	73.1	121.19	-7,510.1	29.1	386.1	241.6	144.57	2.671 Normal Operations			
20,000.0	12,550.0	19,807.5	12,750.0	75.0	74.1	121.19	-7,610.1	30.1	386.1	239.8	146.31	2.639 Normal Operations			
20,100.0	12,550.0	19,907.5	12,750.0	75.9	75.0	121.19	-7,710.1	31.1	386.1	238.1	148.06	2.608 Normal Operations			
20,200.0	12,550.0	20,007.5	12,750.0	76.9	76.0	121.19	-7,810.1	32.0	386.1	236.3	149.81	2.578 Normal Operations			
20,300.0	12,550.0	20,107.5	12,750.0	77.8	76.9	121.19	-7,910.1	33.0	386.1	234.6	151.56	2.548 Normal Operations			
20,400.0	12,550.0	20,207.5	12,750.0	78.7	77.9	121.19	-8,010.1	34.0	386.1	232.8	153.31	2.519 Normal Operations			
20,500.0	12,550.0	20,307.5	12,750.0	79.7	78.8	121.19	-8,110.1	34.9	386.1	231.1	155.06	2.490 Caution - Monitor Closely			
20,528.1	12,550.0	20,335.6	12,750.0	79.9	79.1	121.19	-8,138.2	35.2	386.1	230.6	155.55	2.482 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 703H - Slot BOATER FED COM 703H
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 703H	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 806H - 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	0.2	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	89.51	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	89.28	0.5	36.8	36.9	24.7	12.15	3.036		
2,300.0	2,300.0	2,295.8	2,295.3	6.0	6.2	89.02	0.8	45.3	45.5	33.0	12.48	3.646		
2,400.0	2,400.0	2,393.4	2,392.1	6.2	6.4	88.78	1.2	56.9	57.5	44.7	12.79	4.495		
2,500.0	2,500.0	2,490.3	2,487.9	6.3	6.5	88.59	1.8	71.8	72.8	59.8	13.02	5.594		
2,600.0	2,600.0	2,589.2	2,585.4	6.5	6.7	4.11	2.4	88.2	87.7	74.4	13.36	6.567		
2,700.0	2,699.8	2,688.5	2,683.4	6.7	6.8	4.20	3.0	104.7	99.2	85.5	13.70	7.240		
2,800.0	2,799.5	2,788.2	2,781.7	6.9	6.9	4.41	3.6	121.3	107.1	93.1	14.05	7.624		
2,900.0	2,898.7	2,888.1	2,880.2	7.2	7.1	4.74	4.2	137.8	111.7	97.2	14.44	7.735		
2,946.5	2,944.7	2,934.5	2,926.0	7.2	7.2	4.94	4.5	145.6	112.6	98.0	14.56	7.729		
3,000.0	2,997.5	2,988.1	2,978.7	7.3	7.2	5.18	4.8	154.4	113.2	98.5	14.72	7.690		
3,100.0	3,096.3	3,088.0	3,077.3	7.5	7.4	5.63	5.5	171.0	114.4	99.3	15.08	7.581		
3,200.0	3,195.1	3,188.0	3,175.9	7.8	7.5	6.08	6.1	187.6	115.5	100.1	15.47	7.467		
3,300.0	3,293.9	3,288.0	3,274.5	8.0	7.7	6.51	6.7	204.2	116.7	100.8	15.88	7.350		
3,400.0	3,392.7	3,388.0	3,373.1	8.3	7.8	6.93	7.3	220.8	117.9	101.6	16.30	7.231		
3,500.0	3,491.5	3,488.0	3,471.7	8.6	8.0	7.35	7.9	237.5	119.1	102.3	16.75	7.111		
3,600.0	3,590.3	3,588.0	3,570.3	8.9	8.2	7.76	8.6	254.1	120.3	103.1	17.20	6.992		
3,700.0	3,689.1	3,688.0	3,668.9	9.2	8.3	8.16	9.2	270.7	121.5	103.8	17.68	6.874		
3,800.0	3,787.9	3,788.0	3,767.5	9.5	8.5	8.55	9.8	287.3	122.7	104.6	18.16	6.757		
3,900.0	3,886.6	3,888.0	3,866.1	9.8	8.7	8.93	10.4	303.9	123.9	105.3	18.66	6.643		
4,000.0	3,985.4	3,987.9	3,964.7	10.1	8.8	9.31	11.0	320.5	125.2	106.0	19.16	6.531		
4,100.0	4,084.2	4,087.9	4,063.3	10.5	9.0	9.68	11.7	337.1	126.4	106.7	19.68	6.422		
4,126.8	4,110.7	4,114.7	4,089.7	10.6	9.0	9.78	11.8	341.5	126.7	106.9	19.80	6.398		
4,200.0	4,183.1	4,187.9	4,161.9	10.8	9.2	10.01	12.3	353.7	128.1	107.9	20.17	6.350		
4,300.0	4,282.2	4,287.9	4,260.5	11.2	9.3	10.20	12.9	370.3	131.4	110.7	20.70	6.351		
4,400.0	4,381.5	4,387.7	4,359.0	11.5	9.5	10.25	13.5	386.8	136.5	115.3	21.22	6.433		
4,500.0	4,481.0	4,487.5	4,457.3	11.9	9.7	10.18	14.1	403.4	143.3	121.5	21.74	6.590		
4,600.0	4,580.7	4,587.1	4,555.6	12.2	9.9	10.00	14.7	419.9	151.8	129.5	22.26	6.820		
4,700.0	4,680.4	4,686.6	4,653.7	12.5	10.0	9.74	15.4	436.5	162.0	139.2	22.76	7.118		
4,800.0	4,780.3	4,785.9	4,751.6	12.8	10.2	9.42	16.0	452.9	173.9	150.7	23.25	7.481		

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 703H - Slot BOATER FED COM 703H
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 703H	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 806H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR		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	
4,900.0	4,880.3	4,884.9	4,849.3	13.1	10.4	9.06	16.6	469.4	187.6	163.9	23.71	7.911		
5,000.0	4,980.3	4,983.7	4,946.7	13.3	10.6	8.68	17.2	485.8	202.9	178.8	24.12	8.414		
5,019.7	5,000.0	5,003.2	4,965.9	13.3	10.6	93.01	17.3	489.0	206.1	182.0	24.17	8.529		
5,100.0	5,080.3	5,082.4	5,043.9	13.4	10.7	92.70	17.8	502.2	219.4	195.1	24.36	9.009		
5,200.0	5,180.3	5,181.0	5,141.2	13.4	10.9	92.36	18.4	518.5	236.0	211.4	24.60	9.594		
5,300.0	5,280.3	5,279.6	5,238.4	13.5	11.1	92.06	19.0	534.9	252.6	227.7	24.84	10.168		
5,400.0	5,380.3	5,378.2	5,335.7	13.6	11.3	91.81	19.6	551.3	269.1	244.1	25.08	10.731		
5,500.0	5,480.3	5,476.8	5,432.9	13.6	11.5	91.58	20.2	567.7	285.7	260.4	25.32	11.283		
5,600.0	5,580.3	5,575.4	5,530.1	13.7	11.6	91.37	20.9	584.0	302.3	276.7	25.57	11.824		
5,700.0	5,680.3	5,674.0	5,627.4	13.8	11.8	91.19	21.5	600.4	318.9	293.1	25.81	12.355		
5,800.0	5,780.3	5,772.6	5,724.6	13.9	12.0	91.03	22.1	616.8	335.5	309.4	26.06	12.875		
5,900.0	5,880.3	5,871.2	5,821.9	13.9	12.2	90.88	22.7	633.1	352.1	325.8	26.30	13.385		
6,000.0	5,980.3	5,969.9	5,919.1	14.0	12.4	90.74	23.3	649.5	368.7	342.1	26.55	13.886		
6,100.0	6,080.3	6,068.5	6,016.3	14.1	12.6	90.62	23.9	665.9	385.3	358.5	26.80	14.376		
6,200.0	6,180.3	6,167.1	6,113.6	14.1	12.8	90.50	24.5	682.3	401.9	374.8	27.05	14.857		
6,300.0	6,280.3	6,265.7	6,210.8	14.2	12.9	90.40	25.1	698.6	418.5	391.2	27.30	15.329		
6,400.0	6,380.3	6,364.3	6,308.1	14.3	13.1	90.30	25.7	715.0	435.1	407.5	27.55	15.791		
6,500.0	6,480.3	6,462.9	6,405.3	14.3	13.3	90.21	26.3	731.4	451.7	423.9	27.80	16.244		
6,600.0	6,580.3	6,561.5	6,502.5	14.4	13.5	90.13	27.0	747.8	468.3	440.2	28.06	16.687		
6,700.0	6,680.3	6,665.0	6,604.6	14.5	13.7	90.05	27.6	764.7	484.6	456.3	28.33	17.106		
6,800.0	6,780.3	6,773.2	6,711.6	14.6	13.9	89.98	28.2	780.5	499.3	470.7	28.60	17.457		
6,900.0	6,880.3	6,881.9	6,819.5	14.6	14.1	89.92	28.7	794.5	512.1	483.2	28.87	17.741		
7,000.0	6,980.3	6,991.2	6,928.1	14.7	14.3	89.87	29.1	806.4	523.0	493.9	29.12	17.960		
7,100.0	7,080.3	7,100.9	7,037.3	14.8	14.5	89.84	29.5	816.3	532.0	502.7	29.37	18.116		
7,200.0	7,180.3	7,210.9	7,147.1	14.8	14.7	89.81	29.8	824.1	539.2	509.6	29.60	18.213		
7,300.0	7,280.3	7,321.2	7,257.2	14.9	14.8	89.79	30.0	829.9	544.3	514.5	29.83	18.251		
7,400.0	7,380.3	7,431.7	7,367.6	15.0	15.0	89.77	30.2	833.5	547.6	517.6	30.03	18.234		
7,500.0	7,480.3	7,542.2	7,478.2	15.1	15.1	89.77	30.2	835.0	549.0	518.8	30.20	18.179		
7,600.0	7,580.3	7,644.3	7,580.3	15.1	15.2	89.77	30.2	835.0	549.0	518.7	30.31	18.111		
7,700.0	7,680.3	7,744.3	7,680.3	15.2	15.2	89.77	30.2	835.0	549.0	518.6	30.44	18.035		
7,800.0	7,780.3	7,844.3	7,780.3	15.3	15.3	89.77	30.2	835.0	549.0	518.4	30.57	17.959		
7,900.0	7,880.3	7,944.3	7,880.3	15.3	15.4	89.77	30.2	835.0	549.0	518.3	30.70	17.883		
8,000.0	7,980.3	8,044.3	7,980.3	15.4	15.4	89.77	30.2	835.0	549.0	518.2	30.83	17.808		
8,100.0	8,080.3	8,144.3	8,080.3	15.5	15.5	89.77	30.2	835.0	549.0	518.0	30.96	17.734		
8,200.0	8,180.3	8,244.3	8,180.3	15.6	15.5	89.77	30.2	835.0	549.0	517.9	31.09	17.659		
8,300.0	8,280.3	8,344.3	8,280.3	15.6	15.6	89.77	30.2	835.0	549.0	517.8	31.22	17.586		
8,400.0	8,380.3	8,444.3	8,380.3	15.7	15.7	89.77	30.2	835.0	549.0	517.7	31.35	17.512		
8,500.0	8,480.3	8,544.3	8,480.3	15.8	15.7	89.77	30.2	835.0	549.0	517.5	31.48	17.440		
8,600.0	8,580.3	8,644.3	8,580.3	15.9	15.8	89.77	30.2	835.0	549.0	517.4	31.61	17.367		
8,700.0	8,680.3	8,744.3	8,680.3	15.9	15.8	89.77	30.2	835.0	549.0	517.3	31.74	17.295		
8,800.0	8,780.3	8,844.3	8,780.3	16.0	15.9	89.77	30.2	835.0	549.0	517.1	31.87	17.224		
8,900.0	8,880.3	8,944.3	8,880.3	16.1	16.0	89.77	30.2	835.0	549.0	517.0	32.01	17.153		
9,000.0	8,980.3	9,044.3	8,980.3	16.1	16.0	89.77	30.2	835.0	549.0	516.9	32.14	17.082		
9,100.0	9,080.3	9,144.3	9,080.3	16.2	16.1	89.77	30.2	835.0	549.0	516.7	32.27	17.012		
9,200.0	9,180.3	9,244.3	9,180.3	16.3	16.1	89.77	30.2	835.0	549.0	516.6	32.40	16.942		
9,300.0	9,280.3	9,344.3	9,280.3	16.4	16.2	89.77	30.2	835.0	549.0	516.5	32.54	16.873		
9,400.0	9,380.3	9,444.3	9,380.3	16.4	16.3	89.77	30.2	835.0	549.0	516.3	32.67	16.804		
9,500.0	9,480.3	9,544.3	9,480.3	16.5	16.3	89.77	30.2	835.0	549.0	516.2	32.80	16.736		
9,600.0	9,580.3	9,644.3	9,580.3	16.6	16.4	89.77	30.2	835.0	549.0	516.1	32.94	16.668		
9,700.0	9,680.3	9,744.3	9,680.3	16.7	16.5	89.77	30.2	835.0	549.0	515.9	33.07	16.600		

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 703H - Slot BOATER FED COM 703H
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 703H	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 806H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 MWD+IFR1+SAG+FDIR		Offset		Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
9,800.0	9,780.3	9,844.3	9,780.3	16.7	16.5	89.77	30.2	835.0	549.0	515.8	33.21	16.533		
9,900.0	9,880.3	9,944.3	9,880.3	16.8	16.6	89.77	30.2	835.0	549.0	515.7	33.34	16.466		
10,000.0	9,980.3	10,044.3	9,980.3	16.9	16.6	89.77	30.2	835.0	549.0	515.5	33.48	16.400		
10,100.0	10,080.3	10,144.3	10,080.3	16.9	16.7	89.77	30.2	835.0	549.0	515.4	33.61	16.334		
10,200.0	10,180.3	10,244.3	10,180.3	17.0	16.8	89.77	30.2	835.0	549.0	515.3	33.75	16.269		
10,300.0	10,280.3	10,344.3	10,280.3	17.1	16.8	89.77	30.2	835.0	549.0	515.1	33.88	16.204		
10,400.0	10,380.3	10,444.3	10,380.3	17.2	16.9	89.77	30.2	835.0	549.0	515.0	34.02	16.139		
10,500.0	10,480.3	10,544.3	10,480.3	17.2	17.0	89.77	30.2	835.0	549.0	514.9	34.15	16.075		
10,600.0	10,580.3	10,644.3	10,580.3	17.3	17.0	89.77	30.2	835.0	549.0	514.7	34.29	16.011		
10,700.0	10,680.3	10,744.3	10,680.3	17.4	17.1	89.77	30.2	835.0	549.0	514.6	34.43	15.947		
10,800.0	10,780.3	10,844.3	10,780.3	17.5	17.1	89.77	30.2	835.0	549.0	514.4	34.56	15.884		
10,900.0	10,880.3	10,944.3	10,880.3	17.5	17.2	89.77	30.2	835.0	549.0	514.3	34.70	15.822		
11,000.0	10,980.3	11,044.3	10,980.3	17.6	17.3	89.77	30.2	835.0	549.0	514.2	34.84	15.760		
11,100.0	11,080.3	11,144.3	11,080.3	17.7	17.3	89.77	30.2	835.0	549.0	514.0	34.97	15.698		
11,200.0	11,180.3	11,244.3	11,180.3	17.8	17.4	89.77	30.2	835.0	549.0	513.9	35.11	15.636		
11,300.0	11,280.3	11,344.3	11,280.3	17.8	17.5	89.77	30.2	835.0	549.0	513.8	35.25	15.575		
11,400.0	11,380.3	11,444.3	11,380.3	17.9	17.5	89.77	30.2	835.0	549.0	513.6	35.39	15.515		
11,500.0	11,480.3	11,544.3	11,480.3	18.0	17.6	89.77	30.2	835.0	549.0	513.5	35.52	15.454		
11,600.0	11,580.3	11,644.3	11,580.3	18.1	17.7	89.77	30.2	835.0	549.0	513.3	35.66	15.394		
11,700.0	11,680.3	11,744.3	11,680.3	18.1	17.7	89.77	30.2	835.0	549.0	513.2	35.80	15.335		
11,800.0	11,780.3	11,844.3	11,780.3	18.2	17.8	89.77	30.2	835.0	549.0	513.1	35.94	15.276		
11,900.0	11,880.3	11,944.3	11,880.3	18.3	17.9	89.77	30.2	835.0	549.0	512.9	36.08	15.217		
12,000.0	11,980.3	12,044.3	11,980.3	18.4	17.9	89.77	30.2	835.0	549.0	512.8	36.22	15.159		
12,092.2	12,072.5	12,136.5	12,072.5	18.4	18.0	89.77	30.2	835.0	549.0	512.7	36.34	15.107		
12,100.0	12,080.3	12,144.3	12,080.3	18.4	18.0	-89.68	30.2	835.0	549.0	512.7	36.35	15.105		
12,125.0	12,105.3	12,169.3	12,105.3	18.4	18.0	-89.79	30.2	835.0	549.0	512.6	36.36	15.099		
12,147.0	12,127.2	12,191.2	12,127.2	18.4	18.0	-90.00	30.2	835.0	549.0	512.6	36.37	15.095		
12,150.0	12,130.1	12,194.2	12,130.1	18.4	18.0	-90.04	30.2	835.0	549.0	512.6	36.37	15.094		
12,175.0	12,154.9	12,218.9	12,154.9	18.4	18.0	-90.41	30.2	835.0	549.0	512.6	36.38	15.090		
12,200.0	12,179.4	12,243.4	12,179.4	18.4	18.1	-90.91	30.2	835.0	549.1	512.7	36.39	15.087		
12,225.0	12,203.6	12,267.6	12,203.6	18.4	18.1	-91.53	30.2	835.0	549.2	512.8	36.40	15.086		
12,250.0	12,227.4	12,291.5	12,227.4	18.4	18.1	-92.24	30.2	835.0	549.5	513.1	36.41	15.090		
12,275.0	12,250.8	12,314.9	12,250.8	18.3	18.1	-93.04	30.2	835.0	549.9	513.5	36.41	15.101		
12,300.0	12,273.8	12,338.0	12,273.9	18.3	18.1	-93.91	30.2	835.0	550.6	514.1	36.41	15.122		
12,325.0	12,296.2	12,363.1	12,299.0	18.3	18.1	-94.90	29.5	835.0	551.4	515.0	36.39	15.155		
12,350.0	12,317.9	12,388.9	12,324.7	18.3	18.1	-95.89	27.3	835.0	552.5	516.2	36.36	15.195		
12,375.0	12,339.0	12,415.4	12,351.0	18.3	18.1	-96.87	23.7	835.1	553.8	517.5	36.33	15.242		
12,400.0	12,359.4	12,442.6	12,377.7	18.3	18.1	-97.85	18.5	835.1	555.2	518.9	36.31	15.292		
12,425.0	12,379.0	12,470.6	12,404.8	18.3	18.1	-98.82	11.5	835.2	556.8	520.6	36.29	15.344		
12,450.0	12,397.7	12,499.4	12,432.2	18.3	18.1	-99.79	2.7	835.3	558.6	522.3	36.28	15.396		
12,475.0	12,415.6	12,529.1	12,459.9	18.3	18.1	-100.74	-8.1	835.4	560.5	524.2	36.29	15.444		
12,500.0	12,432.5	12,559.8	12,487.7	18.3	18.0	-101.68	-21.0	835.5	562.5	526.2	36.32	15.486		
12,525.0	12,448.4	12,591.5	12,515.5	18.3	18.0	-102.61	-36.2	835.7	564.6	528.2	36.38	15.519		
12,550.0	12,463.3	12,624.2	12,543.0	18.3	18.0	-103.51	-53.8	835.8	566.8	530.3	36.47	15.539		
12,575.0	12,477.1	12,657.9	12,570.1	18.3	18.0	-104.38	-73.9	836.0	568.9	532.3	36.60	15.544		
12,600.0	12,489.8	12,692.8	12,596.6	18.3	18.0	-105.23	-96.6	836.2	571.1	534.3	36.77	15.533		
12,625.0	12,501.4	12,728.8	12,622.1	18.3	18.0	-106.03	-122.0	836.5	573.2	536.2	36.97	15.506		
12,650.0	12,511.8	12,765.8	12,646.2	18.4	18.0	-106.78	-150.1	836.8	575.3	538.1	37.20	15.464		
12,675.0	12,521.0	12,804.0	12,668.8	18.4	18.1	-107.48	-180.9	837.1	577.2	539.7	37.46	15.407		
12,700.0	12,528.9	12,843.3	12,689.3	18.4	18.1	-108.12	-214.3	837.4	578.9	541.2	37.74	15.341		
12,725.0	12,535.6	12,883.4	12,707.4	18.4	18.1	-108.67	-250.2	837.7	580.5	542.5	38.02	15.269		

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 703H - Slot BOATER FED COM 703H
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 703H	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 806H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR		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	
12,750.0	12,541.1	12,924.5	12,722.7	18.5	18.2	-109.14	-288.3	838.1	581.8	543.5	38.29	15.195		
12,775.0	12,545.2	12,966.3	12,734.9	18.5	18.2	-109.52	-328.3	838.5	582.9	544.4	38.54	15.125		
12,800.0	12,548.1	13,008.7	12,743.6	18.5	18.3	-109.80	-369.7	838.9	583.7	544.9	38.75	15.064		
12,825.0	12,549.7	13,051.5	12,748.7	18.6	18.4	-109.96	-412.2	839.3	584.2	545.3	38.91	15.015		
12,842.2	12,550.0	13,081.1	12,749.9	18.6	18.4	-110.01	-441.8	839.6	584.3	545.3	38.98	14.990		
12,900.0	12,550.0	13,141.2	12,750.0	18.7	18.6	-110.02	-501.8	840.2	584.3	545.2	39.09	14.949		
13,000.0	12,550.0	13,241.2	12,750.0	18.9	18.8	-110.02	-601.8	841.2	584.3	545.0	39.32	14.859		
13,100.0	12,550.0	13,341.2	12,750.0	19.2	19.1	-110.02	-701.8	842.2	584.3	544.7	39.64	14.742		
13,200.0	12,550.0	13,441.2	12,750.0	19.6	19.4	-110.02	-801.8	843.1	584.3	544.3	40.03	14.599		
13,300.0	12,550.0	13,541.2	12,750.0	19.9	19.8	-110.02	-901.8	844.1	584.3	543.8	40.49	14.432		
13,400.0	12,550.0	13,641.2	12,750.0	20.3	20.2	-110.01	-1,001.8	845.1	584.3	543.3	41.02	14.246		
13,500.0	12,550.0	13,741.2	12,750.0	20.8	20.6	-110.01	-1,101.8	846.1	584.3	542.7	41.62	14.041		
13,600.0	12,550.0	13,841.2	12,750.0	21.3	21.0	-110.01	-1,201.8	847.1	584.3	542.1	42.28	13.821		
13,700.0	12,550.0	13,941.2	12,750.0	21.8	21.4	-110.01	-1,301.8	848.0	584.4	541.3	43.01	13.588		
13,800.0	12,550.0	14,041.2	12,750.0	22.3	21.9	-110.01	-1,401.8	849.0	584.4	540.6	43.79	13.345		
13,900.0	12,550.0	14,141.2	12,750.0	22.9	22.4	-110.01	-1,501.8	850.0	584.4	539.7	44.63	13.095		
14,000.0	12,550.0	14,241.2	12,750.0	23.5	22.9	-110.01	-1,601.8	851.0	584.4	538.9	45.52	12.839		
14,100.0	12,550.0	14,341.2	12,750.0	24.1	23.4	-110.01	-1,701.8	852.0	584.4	537.9	46.46	12.579		
14,200.0	12,550.0	14,441.2	12,750.0	24.8	24.0	-110.01	-1,801.8	852.9	584.4	536.9	47.44	12.318		
14,300.0	12,550.0	14,541.2	12,750.0	25.4	24.5	-110.01	-1,901.8	853.9	584.4	535.9	48.47	12.057		
14,400.0	12,550.0	14,641.2	12,750.0	26.1	25.1	-110.01	-2,001.8	854.9	584.4	534.8	49.54	11.797		
14,500.0	12,550.0	14,741.2	12,750.0	26.8	25.7	-110.01	-2,101.8	855.9	584.4	533.7	50.65	11.539		
14,600.0	12,550.0	14,841.2	12,750.0	27.5	26.3	-110.01	-2,201.8	856.9	584.4	532.6	51.79	11.284		
14,700.0	12,550.0	14,941.2	12,750.0	28.3	26.9	-110.01	-2,301.8	857.8	584.4	531.4	52.96	11.034		
14,800.0	12,550.0	15,041.2	12,750.0	29.0	27.6	-110.01	-2,401.8	858.8	584.4	530.2	54.17	10.788		
14,900.0	12,550.0	15,141.2	12,750.0	29.8	28.2	-110.01	-2,501.7	859.8	584.4	529.0	55.41	10.548		
15,000.0	12,550.0	15,241.2	12,750.0	30.5	28.9	-110.01	-2,601.7	860.8	584.4	527.7	56.67	10.313		
15,100.0	12,550.0	15,341.2	12,750.0	31.3	29.5	-110.01	-2,701.7	861.8	584.4	526.5	57.96	10.083		
15,200.0	12,550.0	15,441.2	12,750.0	32.1	30.2	-110.01	-2,801.7	862.7	584.4	525.2	59.27	9.860		
15,300.0	12,550.0	15,541.2	12,750.0	32.9	30.9	-110.01	-2,901.7	863.7	584.4	523.8	60.60	9.643		
15,400.0	12,550.0	15,641.2	12,750.0	33.7	31.6	-110.01	-3,001.7	864.7	584.4	522.5	61.96	9.433		
15,500.0	12,550.0	15,741.2	12,750.0	34.5	32.3	-110.01	-3,101.7	865.7	584.4	521.1	63.33	9.228		
15,600.0	12,550.0	15,841.2	12,750.0	35.4	33.0	-110.01	-3,201.7	866.7	584.4	519.7	64.73	9.030		
15,700.0	12,550.0	15,941.2	12,750.0	36.2	33.7	-110.01	-3,301.7	867.6	584.4	518.3	66.13	8.837		
15,800.0	12,550.0	16,041.2	12,750.0	37.0	34.4	-110.01	-3,401.7	868.6	584.5	516.9	67.56	8.651		
15,900.0	12,550.0	16,141.2	12,750.0	37.9	35.2	-110.01	-3,501.7	869.6	584.5	515.5	69.00	8.471		
16,000.0	12,550.0	16,241.2	12,750.0	38.7	35.9	-110.01	-3,601.7	870.6	584.5	514.0	70.45	8.296		
16,100.0	12,550.0	16,341.2	12,750.0	39.6	36.6	-110.01	-3,701.7	871.5	584.5	512.5	71.92	8.127		
16,200.0	12,550.0	16,441.2	12,750.0	40.4	37.4	-110.01	-3,801.7	872.5	584.5	511.1	73.40	7.963		
16,300.0	12,550.0	16,541.2	12,750.0	41.3	38.1	-110.01	-3,901.7	873.5	584.5	509.6	74.89	7.805		
16,400.0	12,550.0	16,641.2	12,750.0	42.2	38.9	-110.01	-4,001.7	874.5	584.5	508.1	76.39	7.651		
16,500.0	12,550.0	16,741.2	12,750.0	43.0	39.6	-110.01	-4,101.7	875.5	584.5	506.6	77.90	7.503		
16,600.0	12,550.0	16,841.2	12,750.0	43.9	40.4	-110.01	-4,201.7	876.4	584.5	505.1	79.42	7.359		
16,700.0	12,550.0	16,941.2	12,750.0	44.8	41.2	-110.01	-4,301.7	877.4	584.5	503.5	80.95	7.220		
16,800.0	12,550.0	17,041.2	12,750.0	45.7	41.9	-110.01	-4,401.7	878.4	584.5	502.0	82.49	7.085		
16,900.0	12,550.0	17,141.2	12,750.0	46.6	42.7	-110.01	-4,501.6	879.4	584.5	500.5	84.04	6.955		
17,000.0	12,550.0	17,241.2	12,750.0	47.4	43.5	-110.01	-4,601.6	880.4	584.5	498.9	85.60	6.829		
17,100.0	12,550.0	17,341.2	12,750.0	48.3	44.2	-110.01	-4,701.6	881.3	584.5	497.4	87.16	6.706		
17,200.0	12,550.0	17,441.2	12,750.0	49.2	45.0	-110.01	-4,801.6	882.3	584.5	495.8	88.73	6.588		
17,300.0	12,550.0	17,541.2	12,750.0	50.1	45.8	-110.01	-4,901.6	883.3	584.5	494.2	90.30	6.473		

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 703H - Slot BOATER FED COM 703H
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 703H	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 806H - 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)			
17,400.0	12,550.0	17,641.2	12,750.0	51.0	46.6	-110.01	-5,001.6	884.3	584.5	492.6	91.88	6.362	
17,500.0	12,550.0	17,741.2	12,750.0	51.9	47.4	-110.01	-5,101.6	885.3	584.5	491.1	93.47	6.254	
17,600.0	12,550.0	17,841.2	12,750.0	52.8	48.2	-110.01	-5,201.6	886.2	584.5	489.5	95.07	6.149	
17,700.0	12,550.0	17,941.2	12,750.0	53.7	49.0	-110.01	-5,301.6	887.2	584.5	487.9	96.66	6.047	
17,800.0	12,550.0	18,041.2	12,750.0	54.7	49.8	-110.01	-5,401.6	888.2	584.5	486.3	98.27	5.948	
17,900.0	12,550.0	18,141.2	12,750.0	55.6	50.6	-110.01	-5,501.6	889.2	584.6	484.7	99.88	5.853	
18,000.0	12,550.0	18,241.2	12,750.0	56.5	51.4	-110.01	-5,601.6	890.2	584.6	483.1	101.49	5.760	
18,100.0	12,550.0	18,341.2	12,750.0	57.4	52.2	-110.01	-5,701.6	891.1	584.6	481.5	103.11	5.669	
18,200.0	12,550.0	18,441.2	12,750.0	58.3	53.0	-110.01	-5,801.6	892.1	584.6	479.8	104.73	5.582	
18,300.0	12,550.0	18,541.2	12,750.0	59.2	53.8	-110.01	-5,901.6	893.1	584.6	478.2	106.35	5.496	
18,400.0	12,550.0	18,641.2	12,750.0	60.1	54.6	-110.01	-6,001.6	894.1	584.6	476.6	107.98	5.414	
18,500.0	12,550.0	18,741.2	12,750.0	61.1	55.4	-110.01	-6,101.6	895.1	584.6	475.0	109.62	5.333	
18,600.0	12,550.0	18,841.2	12,750.0	62.0	56.2	-110.01	-6,201.6	896.0	584.6	473.3	111.25	5.255	
18,700.0	12,550.0	18,941.2	12,750.0	62.9	57.0	-110.01	-6,301.6	897.0	584.6	471.7	112.89	5.178	
18,800.0	12,550.0	19,041.2	12,750.0	63.8	57.8	-110.00	-6,401.6	898.0	584.6	470.1	114.53	5.104	
18,900.0	12,550.0	19,141.2	12,750.0	64.7	58.6	-110.00	-6,501.6	899.0	584.6	468.4	116.18	5.032	
19,000.0	12,550.0	19,241.2	12,750.0	65.7	59.4	-110.00	-6,601.5	899.9	584.6	466.8	117.83	4.961	
19,100.0	12,550.0	19,341.2	12,750.0	66.6	60.3	-110.00	-6,701.5	900.9	584.6	465.1	119.48	4.893	
19,200.0	12,550.0	19,441.2	12,750.0	67.5	61.1	-110.00	-6,801.5	901.9	584.6	463.5	121.13	4.826	
19,300.0	12,550.0	19,541.2	12,750.0	68.5	61.9	-110.00	-6,901.5	902.9	584.6	461.8	122.79	4.761	
19,400.0	12,550.0	19,641.2	12,750.0	69.4	62.7	-110.00	-7,001.5	903.9	584.6	460.2	124.45	4.698	
19,500.0	12,550.0	19,741.2	12,750.0	70.3	63.5	-110.00	-7,101.5	904.8	584.6	458.5	126.11	4.636	
19,600.0	12,550.0	19,841.2	12,750.0	71.2	64.4	-110.00	-7,201.5	905.8	584.6	456.9	127.78	4.575	
19,700.0	12,550.0	19,941.2	12,750.0	72.2	65.2	-110.00	-7,301.5	906.8	584.6	455.2	129.44	4.517	
19,800.0	12,550.0	20,041.2	12,750.0	73.1	66.0	-110.00	-7,401.5	907.8	584.6	453.5	131.11	4.459	
19,900.0	12,550.0	20,141.2	12,750.0	74.0	66.8	-110.00	-7,501.5	908.8	584.6	451.9	132.78	4.403	
20,000.0	12,550.0	20,241.2	12,750.0	75.0	67.7	-110.00	-7,601.5	909.7	584.6	450.2	134.45	4.348	
20,100.0	12,550.0	20,341.2	12,750.0	75.9	68.5	-110.00	-7,701.5	910.7	584.7	448.5	136.13	4.295	
20,200.0	12,550.0	20,441.2	12,750.0	76.9	69.3	-110.00	-7,801.5	911.7	584.7	446.9	137.80	4.243	
20,300.0	12,550.0	20,541.2	12,750.0	77.8	70.1	-110.00	-7,901.5	912.7	584.7	445.2	139.48	4.192	
20,400.0	12,550.0	20,641.2	12,750.0	78.7	71.0	-110.00	-8,001.5	913.7	584.7	443.5	141.16	4.142	
20,500.0	12,550.0	20,741.2	12,750.0	79.7	71.8	-110.00	-8,101.5	914.6	584.7	441.8	142.84	4.093	
20,528.1	12,550.0	20,769.3	12,750.0	79.9	72.0	-110.00	-8,129.6	914.9	584.7	441.4	143.31	4.080	

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 703H - Slot BOATER FED COM 703H
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 703H	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 - OWB - AWP											Offset Site Error:		0.0 usft	
Survey Program:		138-r.5 MWD+IFR1							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)						
20,100.0	12,550.0	17,374.0	12,401.8	75.9	53.7	-78.76	-8,285.0	1,112.8	959.7	848.3	111.32	8.621				
20,200.0	12,550.0	17,374.0	12,401.8	76.9	53.7	-78.76	-8,285.0	1,112.8	902.1	784.5	117.66	7.668				
20,300.0	12,550.0	17,374.0	12,401.8	77.8	53.7	-78.76	-8,285.0	1,112.8	852.5	728.6	123.96	6.877				
20,400.0	12,550.0	17,374.0	12,401.8	78.7	53.7	-78.76	-8,285.0	1,112.8	812.2	682.4	129.81	6.257				
20,500.0	12,550.0	17,374.0	12,401.8	79.7	53.7	-78.76	-8,285.0	1,112.8	782.7	648.0	134.69	5.811				
20,528.1	12,550.0	17,374.0	12,401.8	79.9	53.7	-78.76	-8,285.0	1,112.8	776.5	640.7	135.81	5.717 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 703H - Slot BOATER FED COM 703H
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 703H	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 015H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 168-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 0.0 usft		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)	Separation Factor		
19,800.0	12,550.0	17,340.0	12,385.3	73.1	53.3	66.09	-8,275.1	-4.6	955.4	884.9	70.46	13.559		
19,900.0	12,550.0	17,340.0	12,385.3	74.0	53.3	66.09	-8,275.1	-4.6	865.9	791.2	74.76	11.583		
20,000.0	12,550.0	17,340.0	12,385.3	75.0	53.3	66.09	-8,275.1	-4.6	779.0	699.0	80.05	9.732		
20,100.0	12,550.0	17,340.0	12,385.3	75.9	53.3	66.09	-8,275.1	-4.6	695.7	609.1	86.58	8.036		
20,200.0	12,550.0	17,340.0	12,385.3	76.9	53.3	66.09	-8,275.1	-4.6	617.3	522.7	94.55	6.528		
20,300.0	12,550.0	17,340.0	12,385.3	77.8	53.3	66.09	-8,275.1	-4.6	546.0	441.9	104.05	5.247		
20,400.0	12,550.0	17,340.0	12,385.3	78.7	53.3	66.09	-8,275.1	-4.6	484.9	370.3	114.64	4.230		
20,500.0	12,550.0	17,340.0	12,385.3	79.7	53.3	66.09	-8,275.1	-4.6	438.4	313.6	124.88	3.511		
20,528.1	12,550.0	17,340.0	12,385.3	79.9	53.3	66.09	-8,275.1	-4.6	428.7	301.3	127.34	3.366 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 703H - Slot BOATER FED COM 703H
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 703H	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) - DUO SONIC 29 FEDERAL #4H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	1149-r.5 MWD											Offset Well Error:	3.0 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	
10,100.0	10,080.3	13,544.6	10,977.1	16.9	48.5	87.80	44.6	719.1	996.1	940.9	55.14	18.063	
10,200.0	10,180.3	13,543.6	10,977.1	17.0	48.5	87.93	43.6	719.1	907.1	851.0	56.08	16.175	
10,300.0	10,280.3	13,542.7	10,977.1	17.1	48.5	88.05	42.7	719.1	820.6	763.4	57.23	14.339	
10,400.0	10,380.3	13,541.8	10,977.1	17.2	48.5	88.17	41.8	719.1	737.6	678.9	58.68	12.571	
10,500.0	10,480.3	13,541.0	10,977.1	17.2	48.5	88.28	41.0	719.2	659.3	598.8	60.49	10.899	
10,600.0	10,580.3	13,540.2	10,977.2	17.3	48.4	88.39	40.2	719.2	587.6	524.9	62.75	9.364	
10,700.0	10,680.3	13,539.4	10,977.2	17.4	48.4	88.49	39.4	719.2	525.3	459.8	65.44	8.026	
10,800.0	10,780.3	13,538.6	10,977.2	17.5	48.4	88.59	38.6	719.2	476.0	407.6	68.34	6.964	
10,900.0	10,880.3	13,537.9	10,977.2	17.5	48.4	88.69	37.9	719.2	444.0	373.2	70.87	6.265	
10,996.9	10,977.2	13,537.3	10,977.2	17.6	48.4	88.78	37.3	719.2	433.3	361.1	72.23	5.999 CC	
11,000.0	10,980.3	13,537.2	10,977.2	17.6	48.4	88.78	37.2	719.2	433.3	361.1	72.25	5.998 ES, SF	
11,100.0	11,080.3	13,536.6	10,977.2	17.7	48.4	88.87	36.6	719.2	445.4	373.4	72.02	6.184	
11,200.0	11,180.3	13,535.9	10,977.2	17.8	48.4	88.95	35.9	719.3	478.6	408.0	70.53	6.785	
11,300.0	11,280.3	13,535.3	10,977.2	17.8	48.4	89.03	35.3	719.3	528.8	460.3	68.50	7.720	
11,400.0	11,380.3	13,534.7	10,977.2	17.9	48.4	89.11	34.7	719.3	591.8	525.3	66.52	8.896	
11,500.0	11,480.3	13,534.2	10,977.2	18.0	48.4	89.19	34.2	719.3	664.0	599.1	64.86	10.237	
11,600.0	11,580.3	13,533.6	10,977.2	18.1	48.3	89.26	33.6	719.3	742.6	679.1	63.57	11.682	
11,700.0	11,680.3	13,533.1	10,977.2	18.1	48.3	89.33	33.1	719.3	825.9	763.3	62.61	13.192	
11,800.0	11,780.3	13,532.6	10,977.2	18.2	48.3	89.40	32.6	719.3	912.5	850.6	61.92	14.738	

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #501H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11812-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	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)			
12,150.0	12,130.1	20,054.8	12,558.6	18.4	60.2	89.12	-50.3	-613.9	999.5	908.9	90.59	11.033	
12,175.0	12,154.9	20,057.7	12,558.6	18.4	60.2	90.34	-53.2	-613.7	988.9	898.5	90.40	10.939	
12,200.0	12,179.4	20,061.9	12,558.4	18.4	60.2	91.40	-57.3	-613.4	978.8	888.6	90.23	10.849	
12,225.0	12,203.6	20,067.4	12,558.2	18.4	60.3	92.30	-62.8	-613.0	969.3	879.2	90.07	10.761	
12,250.0	12,227.4	20,074.1	12,558.0	18.4	60.3	93.04	-69.5	-612.6	960.4	870.4	89.94	10.678	
12,275.0	12,250.8	20,082.0	12,557.7	18.3	60.4	93.63	-77.4	-612.1	952.0	862.2	89.82	10.599	
12,300.0	12,273.8	20,091.1	12,557.3	18.3	60.4	94.08	-86.4	-611.5	944.2	854.5	89.73	10.523	
12,325.0	12,296.2	20,101.3	12,556.9	18.3	60.5	94.39	-96.6	-610.8	937.0	847.3	89.66	10.451	
12,350.0	12,317.9	20,112.7	12,556.5	18.3	60.6	94.57	-107.9	-610.1	930.4	840.8	89.61	10.383	
12,375.0	12,339.0	20,125.1	12,555.9	18.3	60.7	94.64	-120.3	-609.3	924.4	834.8	89.59	10.318	
12,400.0	12,359.4	20,139.1	12,555.3	18.3	60.8	94.56	-134.3	-608.4	918.9	829.3	89.59	10.256	
12,425.0	12,379.0	20,156.9	12,554.5	18.3	60.9	94.26	-152.1	-607.2	913.9	824.3	89.64	10.196	
12,450.0	12,397.7	20,174.6	12,553.7	18.3	61.1	93.94	-169.7	-606.0	909.4	819.7	89.70	10.139	
12,475.0	12,415.6	20,191.2	12,552.9	18.3	61.2	93.64	-186.2	-604.8	905.4	815.6	89.77	10.085	
12,500.0	12,432.5	20,208.8	12,552.1	18.3	61.3	93.29	-203.8	-603.6	901.7	811.9	89.87	10.034	
12,525.0	12,448.4	20,226.0	12,551.3	18.3	61.4	92.94	-220.9	-602.4	898.5	808.5	89.98	9.986	
12,550.0	12,463.3	20,226.0	12,551.3	18.3	61.4	93.26	-220.9	-602.4	895.9	805.9	90.00	9.954	
12,575.0	12,477.1	20,226.0	12,551.3	18.3	61.4	93.48	-220.9	-602.4	894.0	804.0	90.01	9.932	
12,600.0	12,489.8	20,226.0	12,551.3	18.3	61.4	93.62	-220.9	-602.4	892.9	802.9	89.99	9.922 SF	
12,622.6	12,500.3	20,226.0	12,551.3	18.3	61.4	93.65	-220.9	-602.4	892.6	802.6	89.95	9.923 CC, ES	
12,625.0	12,501.4	20,226.0	12,551.3	18.3	61.4	93.65	-220.9	-602.4	892.6	802.6	89.94	9.924	
12,650.0	12,511.8	20,226.0	12,551.3	18.4	61.4	93.60	-220.9	-602.4	893.1	803.2	89.85	9.939	
12,675.0	12,521.0	20,226.0	12,551.3	18.4	61.4	93.45	-220.9	-602.4	894.3	804.6	89.73	9.967	
12,700.0	12,528.9	20,226.0	12,551.3	18.4	61.4	93.21	-220.9	-602.4	896.3	806.8	89.55	10.009	
12,725.0	12,535.6	20,226.0	12,551.3	18.4	61.4	92.87	-220.9	-602.4	899.1	809.8	89.33	10.065	
12,750.0	12,541.1	20,226.0	12,551.3	18.5	61.4	92.44	-220.9	-602.4	902.6	813.6	89.06	10.135	
12,775.0	12,545.2	20,226.0	12,551.3	18.5	61.4	91.92	-220.9	-602.4	906.9	818.2	88.75	10.219	
12,800.0	12,548.1	20,226.0	12,551.3	18.5	61.4	91.31	-220.9	-602.4	911.9	823.5	88.38	10.318	
12,825.0	12,549.7	20,226.0	12,551.3	18.6	61.4	90.62	-220.9	-602.4	917.5	829.6	87.97	10.430	
12,842.2	12,550.0	20,226.0	12,551.3	18.6	61.4	90.09	-220.9	-602.4	921.8	834.2	87.66	10.516	
12,900.0	12,550.0	20,226.0	12,551.3	18.7	61.4	90.09	-220.9	-602.4	938.3	851.9	86.48	10.851	
13,000.0	12,550.0	20,226.0	12,551.3	18.9	61.4	90.09	-220.9	-602.4	974.4	890.4	84.04	11.595	

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 703H - Slot BOATER FED COM 703H
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 703H	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 #602H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 99-Standard Keeper 104, 1235-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 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)			
11,600.0	11,580.3	20,034.9	12,560.3	18.1	63.0	96.36	15.0	402.8	987.0	885.3	101.78	9.698	
11,700.0	11,680.3	20,032.8	12,560.3	18.1	63.0	95.34	17.1	402.7	887.8	786.3	101.53	8.745	
11,800.0	11,780.3	20,030.7	12,560.4	18.2	62.9	94.31	19.2	402.6	788.8	687.6	101.18	7.796	
11,900.0	11,880.3	20,028.6	12,560.4	18.3	62.9	93.29	21.3	402.4	690.1	589.4	100.68	6.854	
12,000.0	11,980.3	20,026.5	12,560.5	18.4	62.9	92.27	23.4	402.3	591.7	491.8	99.96	5.920	
12,092.2	12,072.5	20,024.6	12,560.5	18.4	62.9	91.33	25.3	402.2	501.6	402.7	98.98	5.068	
12,100.0	12,080.3	20,024.5	12,560.5	18.4	62.9	-92.05	25.4	402.2	494.1	395.2	98.88	4.997	
12,125.0	12,105.3	20,025.1	12,560.5	18.4	62.9	-103.59	24.8	402.2	469.8	371.3	98.53	4.769	
12,150.0	12,130.1	20,026.9	12,560.5	18.4	62.9	-112.99	23.0	402.3	445.8	347.6	98.14	4.542	
12,175.0	12,154.9	20,030.1	12,560.4	18.4	62.9	-120.23	19.8	402.5	421.9	324.2	97.71	4.318	
12,200.0	12,179.4	20,034.5	12,560.3	18.4	63.0	-125.65	15.4	402.8	398.4	301.2	97.23	4.098	
12,225.0	12,203.6	20,040.2	12,560.2	18.4	63.0	-129.62	9.7	403.2	375.3	278.6	96.68	3.882	
12,250.0	12,227.4	20,047.3	12,560.0	18.4	63.1	-132.42	2.6	403.6	352.7	256.6	96.08	3.671	
12,275.0	12,250.8	20,056.0	12,559.8	18.3	63.1	-134.26	-6.0	404.2	330.7	235.3	95.40	3.466	
12,300.0	12,273.8	20,065.9	12,559.6	18.3	63.2	-135.38	-16.0	404.8	309.4	214.7	94.65	3.269	
12,325.0	12,296.2	20,077.1	12,559.4	18.3	63.3	-135.91	-27.1	405.4	288.8	195.0	93.80	3.079	
12,350.0	12,317.9	20,089.5	12,559.1	18.3	63.3	-135.91	-39.5	406.1	269.1	176.2	92.85	2.898 Normal Operations	
12,375.0	12,339.0	20,103.0	12,558.7	18.3	63.4	-135.46	-53.0	406.8	250.3	158.5	91.80	2.727 Normal Operations	
12,400.0	12,359.4	20,117.7	12,558.3	18.3	63.5	-134.57	-67.6	407.5	232.6	142.0	90.66	2.566 Normal Operations	
12,425.0	12,379.0	20,133.4	12,557.9	18.3	63.6	-133.26	-83.3	408.2	216.1	126.6	89.44	2.416 Caution - Monitor Closely	
12,450.0	12,397.7	20,149.7	12,557.4	18.3	63.8	-131.65	-99.6	408.9	200.7	112.6	88.15	2.277 Caution - Monitor Closely	
12,475.0	12,415.6	20,166.6	12,556.9	18.3	63.9	-129.68	-116.5	409.6	186.8	100.0	86.84	2.151 Caution - Monitor Closely	
12,500.0	12,432.5	20,184.4	12,556.3	18.3	64.0	-127.31	-134.3	410.4	174.4	88.8	85.62	2.037 Caution - Monitor Closely	
12,525.0	12,448.4	20,203.0	12,555.7	18.3	64.1	-124.56	-152.8	411.3	163.6	79.0	84.61	1.934 Caution - Monitor Closely	
12,550.0	12,463.3	20,222.5	12,555.0	18.3	64.3	-121.43	-172.2	412.3	154.5	70.5	83.95	1.840 Caution - Monitor Closely	
12,575.0	12,477.1	20,242.7	12,554.2	18.3	64.4	-117.99	-192.5	413.3	147.0	63.2	83.77	1.755 Caution - Monitor Closely	
12,600.0	12,489.8	20,263.8	12,553.4	18.3	64.5	-114.31	-213.4	414.4	141.2	57.0	84.16	1.678 Caution - Monitor Closely	
12,625.0	12,501.4	20,271.0	12,553.1	18.3	64.6	-113.24	-220.7	414.8	137.7	53.1	84.54	1.628 Caution - Monitor Closely	
12,631.1	12,504.0	20,271.0	12,553.1	18.4	64.6	-113.26	-220.7	414.8	137.5	53.0	84.49	1.628 Caution - Monitor Closely, CC, ES, SF	
12,650.0	12,511.8	20,271.0	12,553.1	18.4	64.6	-113.10	-220.7	414.8	139.0	55.0	83.95	1.655 Caution - Monitor Closely	
12,675.0	12,521.0	20,271.0	12,553.1	18.4	64.6	-112.39	-220.7	414.8	145.1	62.7	82.37	1.762 Caution - Monitor Closely	
12,700.0	12,528.9	20,271.0	12,553.1	18.4	64.6	-111.11	-220.7	414.8	155.5	75.6	79.98	1.945 Caution - Monitor Closely	
12,725.0	12,535.6	20,271.0	12,553.1	18.4	64.6	-109.22	-220.7	414.8	169.4	92.3	77.16	2.196 Caution - Monitor Closely	
12,750.0	12,541.1	20,271.0	12,553.1	18.5	64.6	-106.70	-220.7	414.8	186.0	111.7	74.21	2.506 Normal Operations	
12,775.0	12,545.2	20,271.0	12,553.1	18.5	64.6	-103.50	-220.7	414.8	204.5	133.2	71.30	2.868 Normal Operations	
12,800.0	12,548.1	20,271.0	12,553.1	18.5	64.6	-99.60	-220.7	414.8	224.4	155.9	68.52	3.275	
12,825.0	12,549.7	20,271.0	12,553.1	18.6	64.6	-94.99	-220.7	414.8	245.4	179.5	65.90	3.724	
12,842.2	12,550.0	20,271.0	12,553.1	18.6	64.6	-91.43	-220.7	414.8	260.3	196.1	64.19	4.055	
12,900.0	12,550.0	20,271.0	12,553.1	18.7	64.6	-91.43	-220.7	414.8	312.1	252.6	59.51	5.244	
13,000.0	12,550.0	20,271.0	12,553.1	18.9	64.6	-91.43	-220.7	414.8	405.5	351.1	54.42	7.452	
13,100.0	12,550.0	20,271.0	12,553.1	19.2	64.6	-91.43	-220.7	414.8	501.5	450.1	51.43	9.751	
13,200.0	12,550.0	20,271.0	12,553.1	19.6	64.6	-91.43	-220.7	414.8	598.8	549.3	49.54	12.088	
13,300.0	12,550.0	20,271.0	12,553.1	19.9	64.6	-91.43	-220.7	414.8	696.9	648.6	48.26	14.441	
13,400.0	12,550.0	20,271.0	12,553.1	20.3	64.6	-91.43	-220.7	414.8	795.4	748.1	47.36	16.797	
13,500.0	12,550.0	20,271.0	12,553.1	20.8	64.6	-91.43	-220.7	414.8	894.3	847.6	46.69	19.154	
13,600.0	12,550.0	20,271.0	12,553.1	21.3	64.6	-91.43	-220.7	414.8	993.4	947.2	46.19	21.507	

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #701H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	100-Standard Keeper 104, 10401-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
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)		
10,500.0	10,480.3	18,257.0	11,007.0	17.2	65.1	-88.95	43.5	-561.2	997.7	904.3	93.45	10.677	
10,600.0	10,580.3	18,257.0	11,007.0	17.3	65.1	-88.95	43.5	-561.2	948.7	855.0	93.72	10.123	
10,700.0	10,680.3	18,246.4	11,007.0	17.4	65.1	-88.23	54.2	-560.9	908.1	814.2	93.86	9.675	
10,800.0	10,780.3	18,246.3	11,007.0	17.5	65.1	-88.23	54.2	-560.9	877.1	783.0	94.10	9.321	
10,900.0	10,880.3	18,246.3	11,007.0	17.5	65.1	-88.23	54.2	-560.9	856.7	762.4	94.30	9.085	
11,000.0	10,980.3	18,246.3	11,007.0	17.6	65.1	-88.23	54.2	-560.9	847.7	753.2	94.45	8.975	
11,026.7	11,007.0	18,246.3	11,007.0	17.6	65.1	-88.23	54.2	-560.9	847.3	752.8	94.48	8.967 CC, ES, SF	
11,100.0	11,080.3	18,246.3	11,007.0	17.7	65.1	-88.23	54.2	-560.9	850.4	755.9	94.55	8.994	
11,200.0	11,180.3	18,246.3	11,007.0	17.8	65.1	-88.23	54.2	-560.9	864.8	770.2	94.61	9.141	
11,300.0	11,280.3	18,246.3	11,007.0	17.8	65.1	-88.23	54.2	-560.9	890.3	795.6	94.63	9.407	
11,400.0	11,380.3	18,246.3	11,007.0	17.9	65.1	-88.23	54.2	-560.9	925.9	831.2	94.64	9.783	
11,500.0	11,480.3	18,246.3	11,007.0	18.0	65.1	-88.23	54.2	-560.9	970.5	875.9	94.65	10.254	

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #801H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11783-r.5 MWD+IFR1+MS												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)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
11,500.0	11,480.3	19,866.8	12,309.3	18.0	60.1	-107.18	-81.4	-67.8	908.0	810.6	97.40	9.322	
11,600.0	11,580.3	19,852.1	12,311.0	18.1	60.0	-104.98	-66.8	-68.3	817.6	720.5	97.07	8.423	
11,700.0	11,680.3	19,838.7	12,312.4	18.1	59.9	-102.93	-53.4	-68.8	729.5	632.9	96.59	7.552	
11,800.0	11,780.3	19,826.4	12,313.7	18.2	59.8	-101.02	-41.2	-69.3	644.7	548.8	95.90	6.722	
11,900.0	11,880.3	19,815.0	12,314.8	18.3	59.7	-99.25	-29.9	-69.8	564.6	469.7	94.90	5.950	
12,000.0	11,980.3	19,804.5	12,315.8	18.4	59.7	-97.60	-19.5	-70.3	491.7	398.3	93.45	5.262	
12,092.2	12,072.5	19,795.6	12,316.7	18.4	59.6	-96.18	-10.6	-70.7	434.0	342.3	91.65	4.735	
12,100.0	12,080.3	19,794.9	12,316.7	18.4	59.6	85.11	-9.9	-70.7	429.6	338.1	91.48	4.696	
12,125.0	12,105.3	19,793.7	12,316.8	18.4	59.6	87.19	-8.7	-70.8	416.3	325.4	90.92	4.579	
12,150.0	12,130.1	19,793.8	12,316.8	18.4	59.6	88.86	-8.8	-70.8	404.1	313.7	90.36	4.472	
12,175.0	12,154.9	19,795.2	12,316.7	18.4	59.6	90.11	-10.3	-70.7	393.0	303.2	89.81	4.376	
12,200.0	12,179.4	19,798.0	12,316.4	18.4	59.6	90.95	-13.0	-70.6	383.2	293.9	89.29	4.291	
12,225.0	12,203.6	19,801.9	12,316.1	18.4	59.6	91.39	-16.9	-70.4	374.8	286.0	88.82	4.220	
12,250.0	12,227.4	19,807.1	12,315.6	18.4	59.7	91.44	-22.0	-70.2	367.9	279.5	88.42	4.161	
12,275.0	12,250.8	19,813.4	12,315.0	18.3	59.7	91.12	-28.3	-69.9	362.6	274.5	88.11	4.115	
12,300.0	12,273.8	19,820.8	12,314.3	18.3	59.8	90.45	-35.7	-69.6	358.8	270.9	87.91	4.082	
12,325.0	12,296.2	19,829.3	12,313.4	18.3	59.9	89.45	-44.1	-69.2	356.5	268.7	87.82	4.060	
12,350.0	12,317.9	19,838.8	12,312.4	18.3	59.9	88.13	-53.6	-68.8	355.8	267.9	87.85	4.050	
12,351.1	12,318.9	19,839.2	12,312.4	18.3	59.9	88.07	-54.0	-68.8	355.8	267.9	87.85	4.050 CC, ES, SF	
12,375.0	12,339.0	19,849.3	12,311.3	18.3	60.0	86.54	-64.0	-68.4	356.4	268.5	87.99	4.051	
12,400.0	12,359.4	19,860.7	12,310.0	18.3	60.1	84.70	-75.3	-68.0	358.4	270.2	88.24	4.062	
12,425.0	12,379.0	19,873.0	12,308.6	18.3	60.2	82.65	-87.5	-67.5	361.6	273.0	88.58	4.082	
12,450.0	12,397.7	19,886.2	12,307.1	18.3	60.3	80.42	-100.7	-67.1	365.8	276.8	89.00	4.110	
12,475.0	12,415.6	19,900.3	12,305.4	18.3	60.4	78.05	-114.7	-66.7	370.8	281.4	89.46	4.145	
12,500.0	12,432.5	19,915.2	12,303.5	18.3	60.5	75.60	-129.4	-66.2	376.6	286.7	89.97	4.187	
12,525.0	12,448.4	19,930.9	12,301.5	18.3	60.6	73.11	-145.0	-65.8	383.0	292.5	90.49	4.233	
12,550.0	12,463.3	19,948.0	12,299.3	18.3	60.7	70.56	-161.9	-65.4	389.8	298.8	91.03	4.282	
12,575.0	12,477.1	19,966.1	12,296.8	18.3	60.9	68.03	-179.9	-65.0	396.8	305.3	91.57	4.334	
12,600.0	12,489.8	19,985.7	12,294.2	18.3	61.0	65.54	-199.3	-64.5	403.9	311.8	92.11	4.385	
12,625.0	12,501.4	20,006.1	12,291.5	18.3	61.2	63.18	-219.5	-64.1	410.9	318.3	92.64	4.435	
12,650.0	12,511.8	20,007.0	12,291.4	18.4	61.2	62.31	-220.4	-64.0	418.2	325.4	92.74	4.509	
12,675.0	12,521.0	20,007.0	12,291.4	18.4	61.2	61.41	-220.4	-64.0	426.2	333.6	92.58	4.603	
12,700.0	12,528.9	20,007.0	12,291.4	18.4	61.2	60.43	-220.4	-64.0	434.9	342.7	92.20	4.717	
12,725.0	12,535.6	20,007.0	12,291.4	18.4	61.2	59.38	-220.4	-64.0	444.3	352.7	91.60	4.851	
12,750.0	12,541.1	20,007.0	12,291.4	18.5	61.2	58.26	-220.4	-64.0	454.3	363.5	90.79	5.004	
12,775.0	12,545.2	20,007.0	12,291.4	18.5	61.2	57.09	-220.4	-64.0	464.8	375.0	89.79	5.177	
12,800.0	12,548.1	20,007.0	12,291.4	18.5	61.2	55.87	-220.4	-64.0	475.8	387.1	88.62	5.368	
12,825.0	12,549.7	20,007.0	12,291.4	18.6	61.2	54.62	-220.4	-64.0	487.1	399.8	87.30	5.579	
12,842.2	12,550.0	20,007.0	12,291.4	18.6	61.2	53.73	-220.4	-64.0	495.1	408.8	86.32	5.736	
12,900.0	12,550.0	20,007.0	12,291.4	18.7	61.2	53.73	-220.4	-64.0	524.7	441.9	82.79	6.338	
13,000.0	12,550.0	20,007.0	12,291.4	18.9	61.2	53.73	-220.4	-64.0	586.0	509.4	76.61	7.649	
13,100.0	12,550.0	20,007.0	12,291.4	19.2	61.2	53.73	-220.4	-64.0	656.9	585.9	70.96	9.257	
13,200.0	12,550.0	20,007.0	12,291.4	19.6	61.2	53.73	-220.4	-64.0	734.5	668.4	66.11	11.110	
13,300.0	12,550.0	20,007.0	12,291.4	19.9	61.2	53.73	-220.4	-64.0	817.0	755.0	62.08	13.162	
13,400.0	12,550.0	20,007.0	12,291.4	20.3	61.2	53.73	-220.4	-64.0	903.1	844.4	58.76	15.370	
13,500.0	12,550.0	20,007.0	12,291.4	20.8	61.2	53.73	-220.4	-64.0	991.8	935.8	56.04	17.700	

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 703H - Slot BOATER FED COM 703H
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 703H	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) - TELE DELUX 32 STATE 4H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-MWD - OWSG R1												Offset Well Error:	3.0 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	
14,800.0	12,550.0	12,116.0	12,126.0	29.0	42.3	-45.63	-3,191.6	750.8	994.8	930.1	64.73	15.368	
14,900.0	12,550.0	12,153.0	12,157.4	29.8	42.5	-47.58	-3,210.9	747.2	916.5	851.1	65.46	14.002	
15,000.0	12,550.0	12,170.7	12,172.0	30.5	42.5	-48.55	-3,220.7	745.7	841.2	775.0	66.26	12.697	
15,100.0	12,550.0	12,195.8	12,192.4	31.3	42.6	-49.98	-3,235.4	743.7	769.9	702.6	67.29	11.442	
15,200.0	12,550.0	12,225.5	12,215.6	32.1	42.7	-51.72	-3,253.7	741.7	703.2	634.6	68.57	10.256	
15,300.0	12,550.0	12,260.7	12,242.1	32.9	42.8	-53.85	-3,276.8	739.6	641.9	571.8	70.12	9.155	
15,400.0	12,550.0	12,298.9	12,269.2	33.7	43.0	-56.17	-3,303.6	737.4	587.1	515.2	71.94	8.162	
15,500.0	12,550.0	12,343.0	12,297.8	34.5	43.1	-58.79	-3,337.1	735.0	540.0	466.0	73.94	7.302	
15,600.0	12,550.0	12,386.5	12,322.5	35.4	43.3	-61.18	-3,372.8	732.5	501.4	425.4	76.07	6.592	
15,700.0	12,550.0	12,438.0	12,346.9	36.2	43.5	-63.69	-3,418.1	730.4	472.5	394.4	78.11	6.049	
15,800.0	12,550.0	12,495.0	12,369.0	37.0	43.7	-66.18	-3,470.5	730.0	453.1	373.1	79.98	5.665	
15,900.0	12,550.0	12,558.3	12,387.8	37.9	43.9	-68.46	-3,530.9	731.5	442.5	360.9	81.58	5.424	
15,971.4	12,550.0	12,602.8	12,397.0	38.5	44.1	-69.67	-3,574.4	733.9	440.3	357.7	82.57	5.332 CC, ES	
16,000.0	12,550.0	12,620.4	12,399.7	38.7	44.1	-70.05	-3,591.7	735.4	440.6	357.7	82.92	5.314	
16,100.0	12,550.0	12,694.4	12,404.8	39.6	44.4	-70.96	-3,665.1	742.5	446.5	362.4	84.04	5.312	
16,200.0	12,550.0	12,779.0	12,403.5	40.4	44.7	-71.16	-3,749.1	752.3	456.9	371.8	85.15	5.366	
16,300.0	12,550.0	12,880.9	12,398.7	41.3	45.2	-71.04	-3,850.2	764.1	468.5	382.1	86.43	5.421	
16,400.0	12,550.0	12,999.9	12,397.6	42.2	45.9	-71.34	-3,968.6	776.1	477.4	389.4	87.93	5.429	
16,500.0	12,550.0	13,108.4	12,398.9	43.0	46.5	-71.78	-4,076.8	784.8	483.7	394.3	89.40	5.410	
16,600.0	12,550.0	13,215.1	12,400.9	43.9	47.2	-72.20	-4,183.3	791.4	488.1	397.2	90.92	5.368	
16,700.0	12,550.0	13,318.7	12,402.1	44.8	47.9	-72.49	-4,286.7	796.8	491.7	399.3	92.47	5.318	
16,800.0	12,550.0	13,416.5	12,405.4	45.7	48.7	-73.00	-4,384.3	802.0	494.9	400.9	94.05	5.262	
16,900.0	12,550.0	13,506.6	12,408.0	46.6	49.4	-73.46	-4,474.1	807.9	499.5	403.8	95.63	5.223	
17,000.0	12,550.0	13,603.6	12,408.7	47.4	50.2	-73.75	-4,570.9	815.4	505.7	408.5	97.27	5.199	
17,100.0	12,550.0	13,704.6	12,409.3	48.3	51.1	-74.01	-4,671.6	822.9	511.8	412.8	99.00	5.170	
17,200.0	12,550.0	13,804.7	12,410.5	49.2	52.0	-74.35	-4,771.4	830.4	517.7	417.0	100.76	5.138	
17,300.0	12,550.0	13,903.8	12,412.3	50.1	52.9	-74.73	-4,870.2	838.1	523.7	421.2	102.57	5.106	
17,400.0	12,550.0	14,004.9	12,414.2	51.0	54.0	-75.12	-4,971.0	845.8	529.7	425.3	104.43	5.073	
17,500.0	12,550.0	14,105.7	12,415.8	51.9	55.0	-75.46	-5,071.5	853.2	535.5	429.2	106.32	5.037	
17,600.0	12,550.0	14,200.9	12,416.8	52.8	56.0	-75.73	-5,166.4	860.4	541.6	433.4	108.18	5.007	
17,700.0	12,550.0	14,292.1	12,418.0	53.7	57.0	-76.04	-5,257.3	868.5	548.9	438.9	110.01	4.990	
17,800.0	12,550.0	14,384.5	12,418.2	54.7	58.0	-76.27	-5,349.2	877.8	557.7	445.8	111.87	4.985	
17,900.0	12,550.0	14,481.2	12,416.4	55.6	59.1	-76.31	-5,445.3	888.0	567.4	453.6	113.81	4.986	
18,000.0	12,550.0	14,577.8	12,414.7	56.5	60.3	-76.37	-5,541.3	898.6	577.6	461.8	115.78	4.989	
18,100.0	12,550.0	14,685.2	12,415.1	57.4	61.6	-76.67	-5,648.0	910.5	587.4	469.4	118.00	4.978	
18,200.0	12,550.0	14,785.4	12,417.7	58.3	62.8	-77.13	-5,747.6	921.5	596.6	476.4	120.13	4.966	
18,300.0	12,550.0	14,896.8	12,420.1	59.2	64.2	-77.56	-5,858.5	932.2	604.5	482.0	122.47	4.936	
18,400.0	12,550.0	14,999.7	12,422.1	60.1	65.5	-77.89	-5,961.0	940.6	611.1	486.4	124.67	4.902	
18,500.0	12,550.0	15,097.1	12,423.3	61.1	66.8	-78.14	-6,058.1	948.6	617.9	491.1	126.80	4.873	
18,600.0	12,550.0	15,198.4	12,423.2	62.0	68.1	-78.27	-6,159.0	956.8	624.9	495.9	129.00	4.844	
18,700.0	12,550.0	15,306.5	12,423.4	62.9	69.5	-78.41	-6,266.9	964.6	631.0	499.7	131.32	4.805	
18,800.0	12,550.0	15,406.5	12,423.9	63.8	70.8	-78.55	-6,366.7	970.9	636.2	502.6	133.54	4.764	
18,900.0	12,550.0	15,502.7	12,424.7	64.7	72.1	-78.72	-6,462.6	977.6	641.9	506.1	135.72	4.729	
19,000.0	12,550.0	15,599.3	12,425.2	65.7	73.4	-78.87	-6,559.0	984.8	648.1	510.1	137.92	4.699	
19,100.0	12,550.0	15,697.6	12,425.1	66.6	74.8	-78.98	-6,656.9	992.3	654.7	514.5	140.16	4.671	
19,200.0	12,550.0	15,802.4	12,425.2	67.5	76.2	-79.10	-6,761.4	1,000.2	661.1	518.5	142.52	4.638	
19,300.0	12,550.0	15,899.7	12,426.2	68.5	77.6	-79.29	-6,858.5	1,007.3	667.1	522.3	144.79	4.607	
19,400.0	12,550.0	16,005.5	12,429.0	69.4	79.1	-79.63	-6,963.9	1,015.2	673.0	525.8	147.23	4.571	
19,500.0	12,550.0	16,105.5	12,432.2	70.3	80.5	-79.99	-7,063.7	1,022.3	678.4	528.9	149.59	4.535	
19,600.0	12,550.0	16,196.0	12,433.7	71.2	81.8	-80.19	-7,153.9	1,028.6	684.1	532.4	151.78	4.508	
19,700.0	12,550.0	16,291.0	12,433.3	72.2	83.2	-80.25	-7,248.6	1,036.0	691.0	536.9	154.03	4.486	

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 703H - Slot BOATER FED COM 703H
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 703H	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) - TELE DELUX 32 STATE 4H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program:	100-MWD - OWSG R1												Offset Well Error:	3.0 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		
19,800.0	12,550.0	16,389.5	12,432.2	73.1	84.6	-80.26	-7,346.8	1,044.4	698.6	542.2	156.36	4.468		
19,900.0	12,550.0	16,486.4	12,431.9	74.0	86.0	-80.35	-7,443.3	1,053.1	706.5	547.8	158.68	4.452		
20,000.0	12,550.0	16,594.1	12,432.1	75.0	87.6	-80.47	-7,550.6	1,062.3	714.0	552.7	161.23	4.428		
20,100.0	12,550.0	16,703.4	12,434.0	75.9	89.2	-80.72	-7,659.5	1,070.7	720.4	556.5	163.82	4.397		
20,200.0	12,550.0	16,806.5	12,438.3	76.9	90.8	-81.13	-7,762.3	1,077.6	725.3	559.0	166.33	4.361		
20,300.0	12,550.0	16,899.8	12,438.6	77.8	92.1	-81.22	-7,855.4	1,084.0	731.1	562.5	168.63	4.336 SF		
20,400.0	12,550.0	16,940.0	12,438.4	78.7	92.7	-81.23	-7,895.5	1,086.9	739.6	570.1	169.47	4.364		
20,500.0	12,550.0	16,940.0	12,438.4	79.7	92.7	-81.23	-7,895.5	1,086.9	760.2	592.8	167.36	4.542		
20,528.1	12,550.0	16,940.0	12,438.4	79.9	92.7	-81.23	-7,895.5	1,086.9	768.2	601.8	166.38	4.617		

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

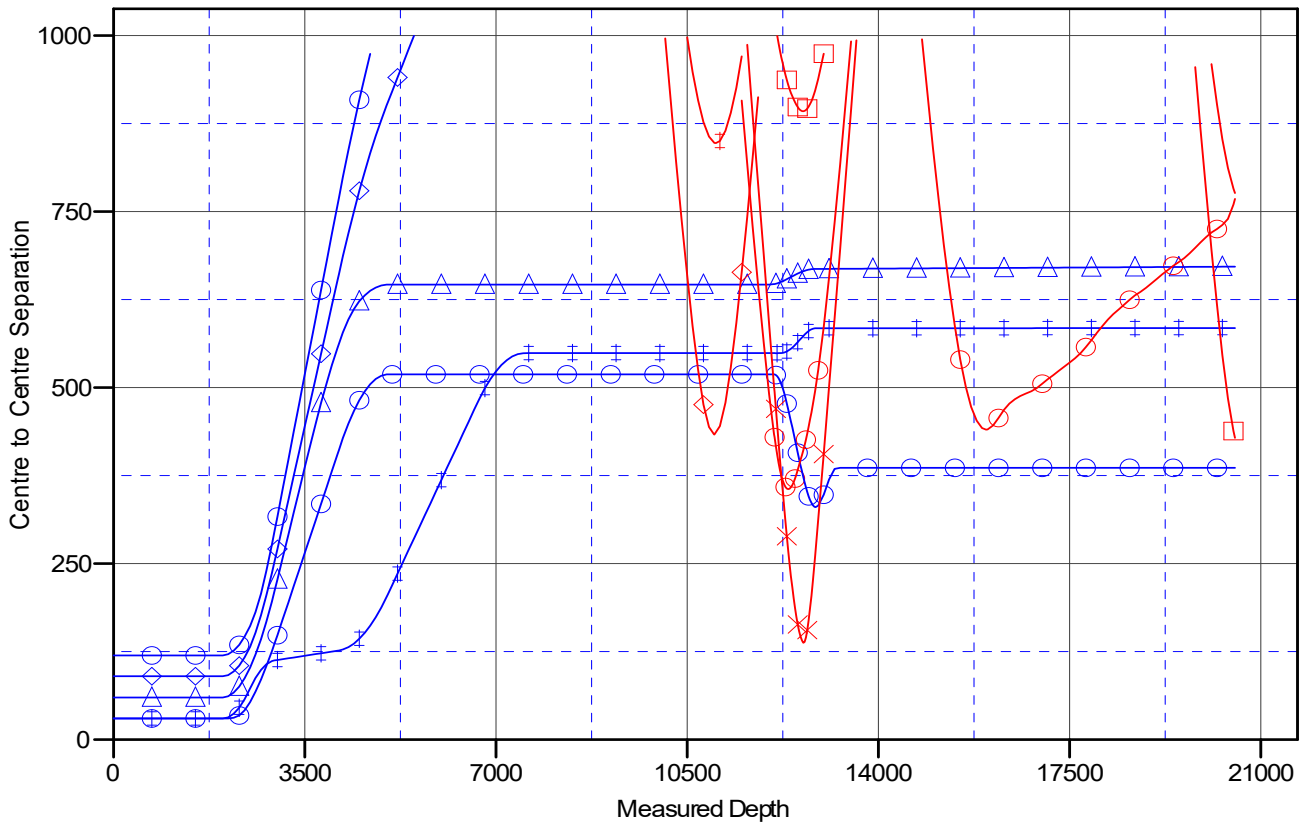
ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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 703H - 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

- _BOATER FED COM 603H, OWB, PWP0 V0
- _BOATER FED COM 803H, OWB, PWP0 V0
- _BOATER FED COM 804H, OWB, PWP0 V0
- _BOATER FED COM 805H, OWB, PWP0 V0
- _BOATER FED COM 806H, OWB, PWP0 V0
- CAVE LION 5 TB FEDERAL, OWB, AWP V0
- CAVE LION 5 TB FEDERAL 05H, OWB, AWP V0
- DUO SONIC 26 FEDERAL #4H, OWB, AWP V0
- GREEN BERET FED COM #703H, OWB, AWP V0
- GREEN BERET FED COM #803H, OWB, AWP V0
- GREEN BERET FED COM #803H, OWB, AWP V0
- TELE DELUX 32 STATE 4H, OWB, AWP V0

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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

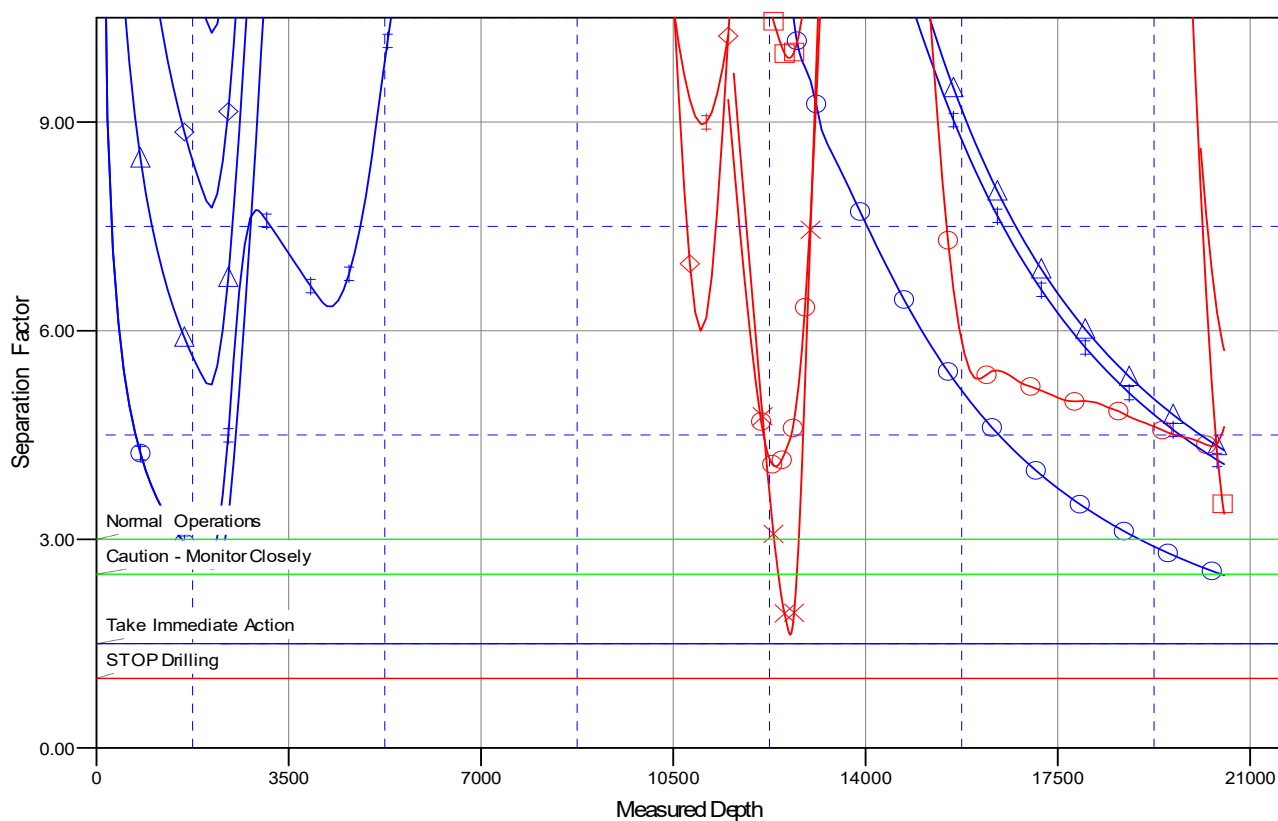
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 703H - 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



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

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 703H - Slot BOATER FED COM 703H

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 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	4/24/2025	6.04	59.61	47,140.13701748

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	177.43

Plan Survey Tool Program	Date	4/24/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,528.1 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1	rev.5

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,946.5	8.93	84.41	2,944.7	3.4	34.6	2.00	2.00	0.00	84.41	
4,126.8	8.93	84.41	4,110.7	21.2	216.9	0.00	0.00	0.00	0.00	
5,019.7	0.00	0.01	5,000.0	28.0	286.0	1.00	-1.00	0.00	180.00	
12,092.2	0.00	0.01	12,072.5	28.0	286.0	0.00	0.00	0.00	0.01	
12,842.2	90.00	179.44	12,550.0	-449.4	290.7	12.00	12.00	23.92	179.44	
20,528.1	90.00	179.44	12,550.0	-8,135.0	365.5	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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	2.00	84.41	2,600.0	0.2	1.7	-0.1	2.00	2.00	0.00	
2,700.0	4.00	84.41	2,699.8	0.7	6.9	-0.4	2.00	2.00	0.00	
2,800.0	6.00	84.41	2,799.5	1.5	15.6	-0.8	2.00	2.00	0.00	
2,900.0	8.00	84.41	2,898.7	2.7	27.7	-1.5	2.00	2.00	0.00	
2,946.5	8.93	84.41	2,944.7	3.4	34.6	-1.8	2.00	2.00	0.00	
3,000.0	8.93	84.41	2,997.5	4.2	42.8	-2.3	0.00	0.00	0.00	
3,100.0	8.93	84.41	3,096.3	5.7	58.3	-3.1	0.00	0.00	0.00	
3,200.0	8.93	84.41	3,195.1	7.2	73.7	-3.9	0.00	0.00	0.00	
3,300.0	8.93	84.41	3,293.9	8.7	89.2	-4.7	0.00	0.00	0.00	
3,400.0	8.93	84.41	3,392.7	10.2	104.6	-5.5	0.00	0.00	0.00	
3,500.0	8.93	84.41	3,491.5	11.8	120.1	-6.4	0.00	0.00	0.00	
3,600.0	8.93	84.41	3,590.3	13.3	135.5	-7.2	0.00	0.00	0.00	
3,700.0	8.93	84.41	3,689.1	14.8	151.0	-8.0	0.00	0.00	0.00	
3,800.0	8.93	84.41	3,787.9	16.3	166.4	-8.8	0.00	0.00	0.00	
3,900.0	8.93	84.41	3,886.6	17.8	181.9	-9.6	0.00	0.00	0.00	
4,000.0	8.93	84.41	3,985.4	19.3	197.3	-10.4	0.00	0.00	0.00	
4,100.0	8.93	84.41	4,084.2	20.8	212.8	-11.3	0.00	0.00	0.00	
4,126.8	8.93	84.41	4,110.7	21.2	216.9	-11.5	0.00	0.00	0.00	
4,200.0	8.20	84.41	4,183.1	22.3	227.7	-12.1	1.00	-1.00	0.00	
4,300.0	7.20	84.41	4,282.2	23.6	241.1	-12.8	1.00	-1.00	0.00	
4,400.0	6.20	84.41	4,381.5	24.7	252.7	-13.4	1.00	-1.00	0.00	
4,500.0	5.20	84.41	4,481.0	25.7	262.6	-13.9	1.00	-1.00	0.00	
4,600.0	4.20	84.41	4,580.7	26.5	270.7	-14.3	1.00	-1.00	0.00	
4,700.0	3.20	84.41	4,680.4	27.1	277.1	-14.7	1.00	-1.00	0.00	
4,800.0	2.20	84.41	4,780.3	27.6	281.8	-14.9	1.00	-1.00	0.00	
4,900.0	1.20	84.41	4,880.3	27.9	284.8	-15.1	1.00	-1.00	0.00	
5,000.0	0.20	84.41	4,980.3	28.0	286.0	-15.1	1.00	-1.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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)	
5,019.7	0.00	0.01	5,000.0	28.0	286.0	-15.1	1.00	-1.00	0.00	
5,100.0	0.00	0.00	5,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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	10,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,080.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,180.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,280.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,380.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,480.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,580.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,680.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,780.3	28.0	286.0	-15.1	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,880.3	28.0	286.0	-15.1	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,980.3	28.0	286.0	-15.1	0.00	0.00	0.00	
12,092.2	0.00	0.01	12,072.5	28.0	286.0	-15.1	0.00	0.00	0.00	
12,100.0	0.93	179.44	12,080.3	27.9	286.0	-15.1	12.00	12.00	0.00	
12,200.0	12.93	179.44	12,179.4	15.9	286.1	-3.0	12.00	12.00	0.00	
12,300.0	24.93	179.44	12,273.8	-16.5	286.4	29.3	12.00	12.00	0.00	
12,400.0	36.93	179.44	12,359.4	-67.8	286.9	80.6	12.00	12.00	0.00	
12,500.0	48.93	179.44	12,432.5	-135.8	287.6	148.6	12.00	12.00	0.00	
12,600.0	60.93	179.44	12,489.8	-217.5	288.4	230.2	12.00	12.00	0.00	
12,700.0	72.93	179.44	12,528.9	-309.3	289.3	322.0	12.00	12.00	0.00	
12,800.0	84.93	179.44	12,548.1	-407.3	290.2	419.9	12.00	12.00	0.00	
12,842.2	90.00	179.44	12,550.0	-449.4	290.7	462.0	12.00	12.00	0.00	
12,900.0	90.00	179.44	12,550.0	-507.2	291.2	519.8	0.00	0.00	0.00	
13,000.0	90.00	179.44	12,550.0	-607.2	292.2	619.7	0.00	0.00	0.00	
13,100.0	90.00	179.44	12,550.0	-707.2	293.2	719.7	0.00	0.00	0.00	
13,200.0	90.00	179.44	12,550.0	-807.2	294.1	819.6	0.00	0.00	0.00	
13,300.0	90.00	179.44	12,550.0	-907.2	295.1	919.5	0.00	0.00	0.00	
13,400.0	90.00	179.44	12,550.0	-1,007.2	296.1	1,019.5	0.00	0.00	0.00	
13,500.0	90.00	179.44	12,550.0	-1,107.2	297.1	1,119.4	0.00	0.00	0.00	
13,600.0	90.00	179.44	12,550.0	-1,207.2	298.0	1,219.3	0.00	0.00	0.00	
13,700.0	90.00	179.44	12,550.0	-1,307.2	299.0	1,319.3	0.00	0.00	0.00	
13,800.0	90.00	179.44	12,550.0	-1,407.2	300.0	1,419.2	0.00	0.00	0.00	
13,900.0	90.00	179.44	12,550.0	-1,507.2	301.0	1,519.2	0.00	0.00	0.00	
14,000.0	90.00	179.44	12,550.0	-1,607.2	301.9	1,619.1	0.00	0.00	0.00	
14,100.0	90.00	179.44	12,550.0	-1,707.2	302.9	1,719.0	0.00	0.00	0.00	
14,200.0	90.00	179.44	12,550.0	-1,807.2	303.9	1,819.0	0.00	0.00	0.00	
14,300.0	90.00	179.44	12,550.0	-1,907.2	304.9	1,918.9	0.00	0.00	0.00	
14,400.0	90.00	179.44	12,550.0	-2,007.1	305.8	2,018.9	0.00	0.00	0.00	
14,500.0	90.00	179.44	12,550.0	-2,107.1	306.8	2,118.8	0.00	0.00	0.00	
14,600.0	90.00	179.44	12,550.0	-2,207.1	307.8	2,218.7	0.00	0.00	0.00	
14,700.0	90.00	179.44	12,550.0	-2,307.1	308.8	2,318.7	0.00	0.00	0.00	
14,800.0	90.00	179.44	12,550.0	-2,407.1	309.7	2,418.6	0.00	0.00	0.00	
14,900.0	90.00	179.44	12,550.0	-2,507.1	310.7	2,518.5	0.00	0.00	0.00	
15,000.0	90.00	179.44	12,550.0	-2,607.1	311.7	2,618.5	0.00	0.00	0.00	
15,100.0	90.00	179.44	12,550.0	-2,707.1	312.6	2,718.4	0.00	0.00	0.00	
15,200.0	90.00	179.44	12,550.0	-2,807.1	313.6	2,818.4	0.00	0.00	0.00	
15,300.0	90.00	179.44	12,550.0	-2,907.1	314.6	2,918.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,400.0	90.00	179.44	12,550.0	-3,007.1	315.6	3,018.2	0.00	0.00	0.00	
15,500.0	90.00	179.44	12,550.0	-3,107.1	316.5	3,118.2	0.00	0.00	0.00	
15,600.0	90.00	179.44	12,550.0	-3,207.1	317.5	3,218.1	0.00	0.00	0.00	
15,700.0	90.00	179.44	12,550.0	-3,307.1	318.5	3,318.0	0.00	0.00	0.00	
15,800.0	90.00	179.44	12,550.0	-3,407.1	319.5	3,418.0	0.00	0.00	0.00	
15,900.0	90.00	179.44	12,550.0	-3,507.1	320.4	3,517.9	0.00	0.00	0.00	
16,000.0	90.00	179.44	12,550.0	-3,607.1	321.4	3,617.9	0.00	0.00	0.00	
16,100.0	90.00	179.44	12,550.0	-3,707.1	322.4	3,717.8	0.00	0.00	0.00	
16,200.0	90.00	179.44	12,550.0	-3,807.1	323.4	3,817.7	0.00	0.00	0.00	
16,300.0	90.00	179.44	12,550.0	-3,907.1	324.3	3,917.7	0.00	0.00	0.00	
16,400.0	90.00	179.44	12,550.0	-4,007.1	325.3	4,017.6	0.00	0.00	0.00	
16,500.0	90.00	179.44	12,550.0	-4,107.0	326.3	4,117.6	0.00	0.00	0.00	
16,600.0	90.00	179.44	12,550.0	-4,207.0	327.3	4,217.5	0.00	0.00	0.00	
16,700.0	90.00	179.44	12,550.0	-4,307.0	328.2	4,317.4	0.00	0.00	0.00	
16,800.0	90.00	179.44	12,550.0	-4,407.0	329.2	4,417.4	0.00	0.00	0.00	
16,900.0	90.00	179.44	12,550.0	-4,507.0	330.2	4,517.3	0.00	0.00	0.00	
17,000.0	90.00	179.44	12,550.0	-4,607.0	331.2	4,617.2	0.00	0.00	0.00	
17,100.0	90.00	179.44	12,550.0	-4,707.0	332.1	4,717.2	0.00	0.00	0.00	
17,200.0	90.00	179.44	12,550.0	-4,807.0	333.1	4,817.1	0.00	0.00	0.00	
17,300.0	90.00	179.44	12,550.0	-4,907.0	334.1	4,917.1	0.00	0.00	0.00	
17,400.0	90.00	179.44	12,550.0	-5,007.0	335.1	5,017.0	0.00	0.00	0.00	
17,500.0	90.00	179.44	12,550.0	-5,107.0	336.0	5,116.9	0.00	0.00	0.00	
17,600.0	90.00	179.44	12,550.0	-5,207.0	337.0	5,216.9	0.00	0.00	0.00	
17,700.0	90.00	179.44	12,550.0	-5,307.0	338.0	5,316.8	0.00	0.00	0.00	
17,800.0	90.00	179.44	12,550.0	-5,407.0	339.0	5,416.8	0.00	0.00	0.00	
17,900.0	90.00	179.44	12,550.0	-5,507.0	339.9	5,516.7	0.00	0.00	0.00	
18,000.0	90.00	179.44	12,550.0	-5,607.0	340.9	5,616.6	0.00	0.00	0.00	
18,100.0	90.00	179.44	12,550.0	-5,707.0	341.9	5,716.6	0.00	0.00	0.00	
18,200.0	90.00	179.44	12,550.0	-5,807.0	342.9	5,816.5	0.00	0.00	0.00	
18,300.0	90.00	179.44	12,550.0	-5,907.0	343.8	5,916.4	0.00	0.00	0.00	
18,400.0	90.00	179.44	12,550.0	-6,007.0	344.8	6,016.4	0.00	0.00	0.00	
18,500.0	90.00	179.44	12,550.0	-6,107.0	345.8	6,116.3	0.00	0.00	0.00	
18,600.0	90.00	179.44	12,550.0	-6,206.9	346.7	6,216.3	0.00	0.00	0.00	
18,700.0	90.00	179.44	12,550.0	-6,306.9	347.7	6,316.2	0.00	0.00	0.00	
18,800.0	90.00	179.44	12,550.0	-6,406.9	348.7	6,416.1	0.00	0.00	0.00	
18,900.0	90.00	179.44	12,550.0	-6,506.9	349.7	6,516.1	0.00	0.00	0.00	
19,000.0	90.00	179.44	12,550.0	-6,606.9	350.6	6,616.0	0.00	0.00	0.00	
19,100.0	90.00	179.44	12,550.0	-6,706.9	351.6	6,715.9	0.00	0.00	0.00	
19,200.0	90.00	179.44	12,550.0	-6,806.9	352.6	6,815.9	0.00	0.00	0.00	
19,300.0	90.00	179.44	12,550.0	-6,906.9	353.6	6,915.8	0.00	0.00	0.00	
19,400.0	90.00	179.44	12,550.0	-7,006.9	354.5	7,015.8	0.00	0.00	0.00	
19,500.0	90.00	179.44	12,550.0	-7,106.9	355.5	7,115.7	0.00	0.00	0.00	
19,600.0	90.00	179.44	12,550.0	-7,206.9	356.5	7,215.6	0.00	0.00	0.00	
19,700.0	90.00	179.44	12,550.0	-7,306.9	357.5	7,315.6	0.00	0.00	0.00	
19,800.0	90.00	179.44	12,550.0	-7,406.9	358.4	7,415.5	0.00	0.00	0.00	
19,900.0	90.00	179.44	12,550.0	-7,506.9	359.4	7,515.5	0.00	0.00	0.00	
20,000.0	90.00	179.44	12,550.0	-7,606.9	360.4	7,615.4	0.00	0.00	0.00	
20,100.0	90.00	179.44	12,550.0	-7,706.9	361.4	7,715.3	0.00	0.00	0.00	
20,200.0	90.00	179.44	12,550.0	-7,806.9	362.3	7,815.3	0.00	0.00	0.00	
20,300.0	90.00	179.44	12,550.0	-7,906.9	363.3	7,915.2	0.00	0.00	0.00	
20,400.0	90.00	179.44	12,550.0	-8,006.9	364.3	8,015.1	0.00	0.00	0.00	
20,500.0	90.00	179.44	12,550.0	-8,106.9	365.3	8,115.1	0.00	0.00	0.00	
20,528.1	90.00	179.44	12,550.0	-8,135.0	365.5	8,143.2	0.00	0.00	0.00	

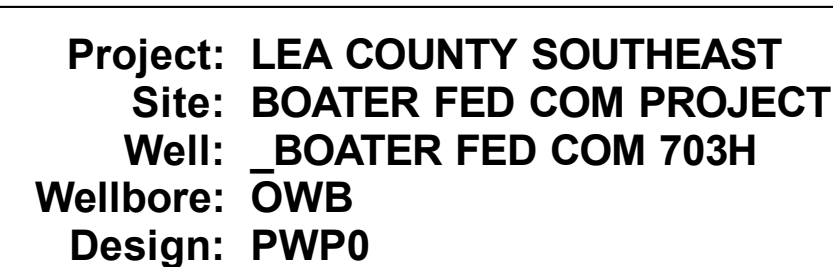
ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 703H - Slot BOATER FED COM 703H
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 703H	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)

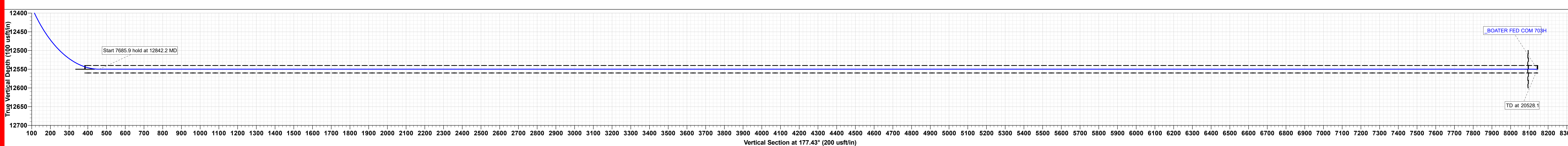
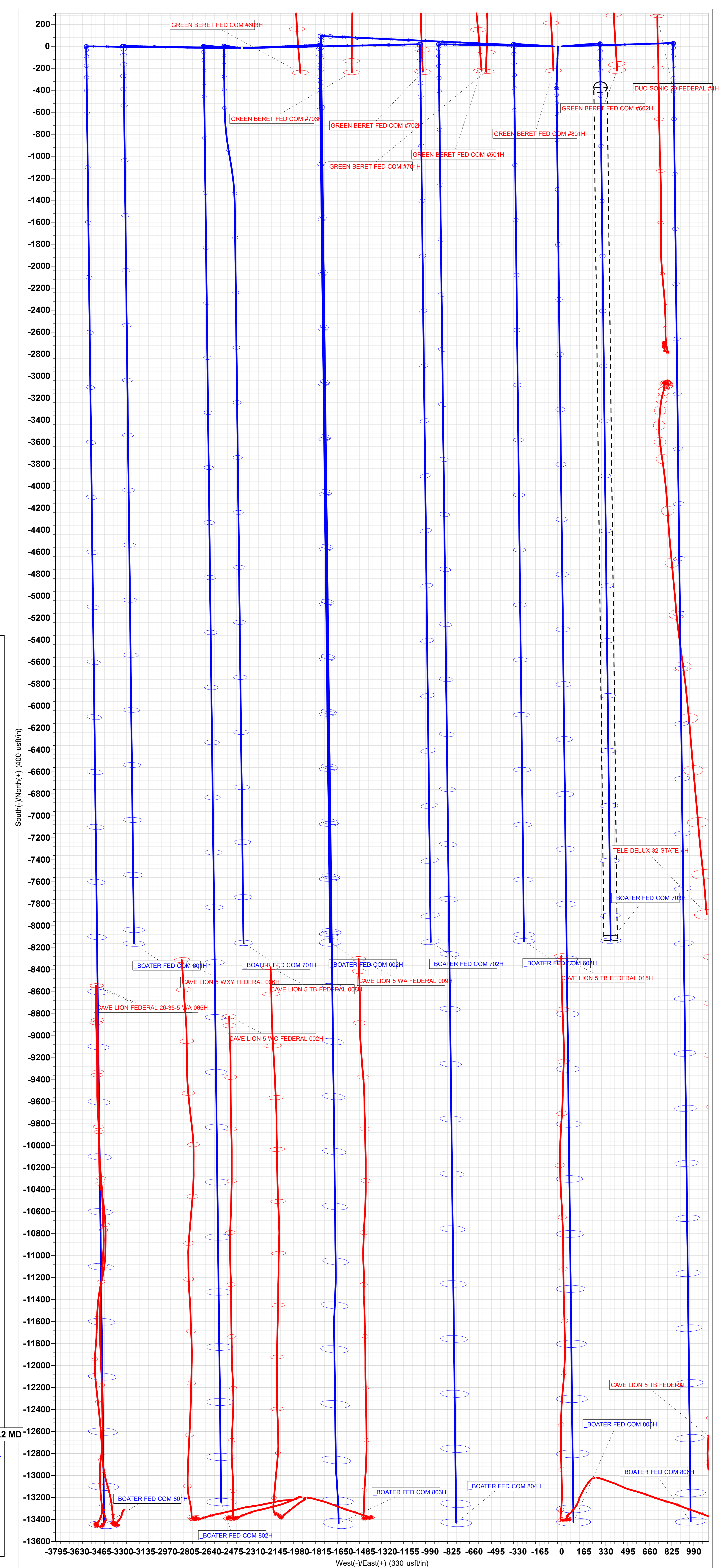
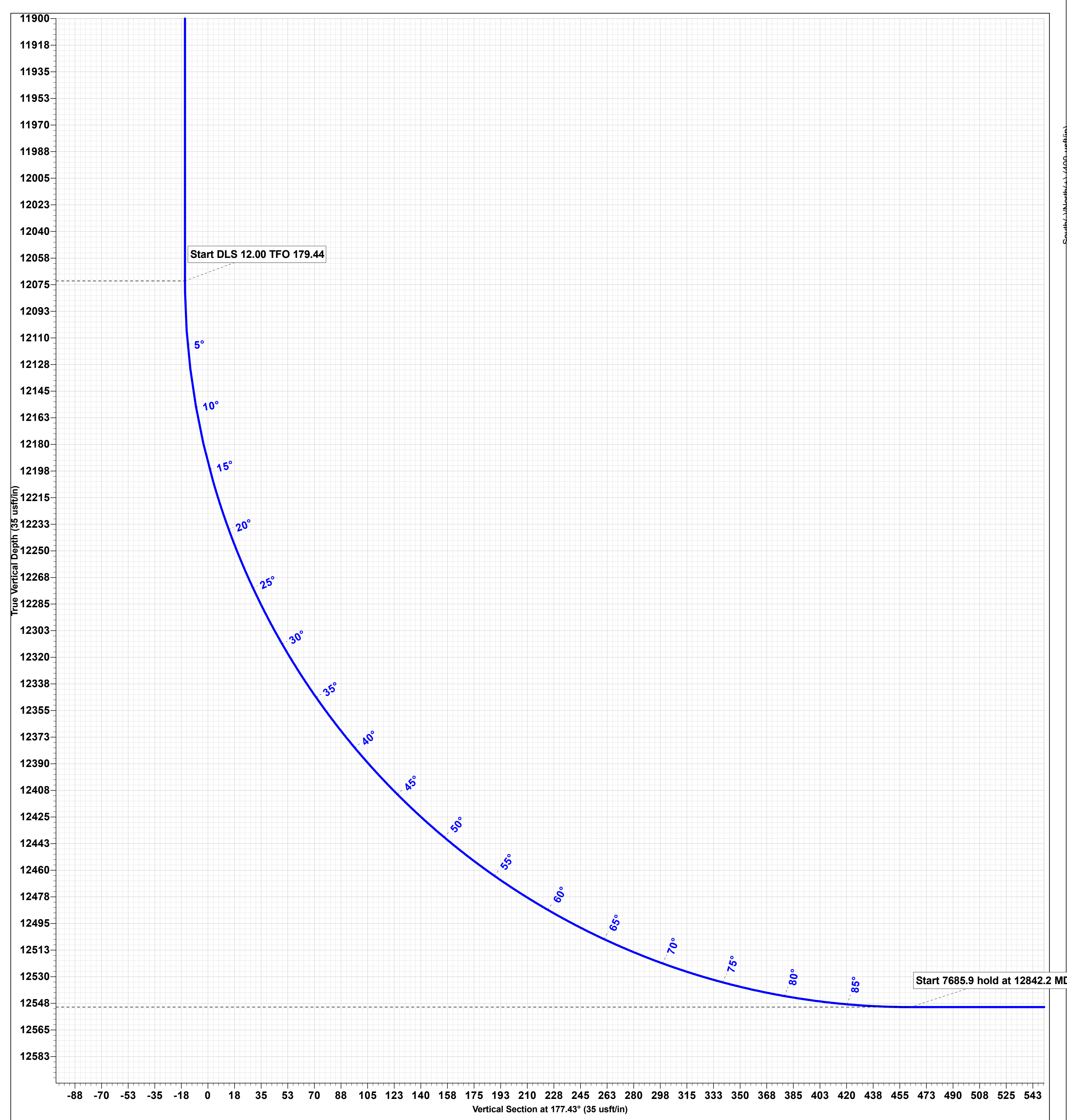
Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_BOATER FED CO - plan hits target center - Rectangle (sides W100.0 H7,763.0 D20.0)	0.00	359.44	12,550.0	-8,135.0	365.5	393,982.83	794,016.99	32° 4' 46.626 N	103° 23' 2.663 W
LTP_BOATER FED COM - plan hits target center - Circle (radius 50.0)	90.00	179.44	12,550.0	-8,085.0	365.0	394,032.83	794,016.50	32° 4' 47.121 N	103° 23' 2.664 W
FTP_BOATER FED COI - plan misses target center by 6.2usft at 12766.0usft MD (12543.9 TVD, -373.6 N, 289.9 E) - Circle (radius 50.0)	0.00	0.01	12,550.0	-372.4	289.6	401,745.47	793,941.03	32° 6' 3.446 N	103° 23' 2.752 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
20,528.2	12,550.0	5-1/2" Production Casing		5-1/2	6



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0
2946.5	8.93	84.41	2944.7	3.4	34.6	2.00	84.41	-1.8
4126.8	8.93	84.41	4110.7	21.2	216.9	1.00	0.00	-11.5
5019.7	0.00	0.00	5000.0	28.0	286.0	1.00	180.00	-15.1
12092.2	0.00	0.00	12072.5	28.0	286.0	0.00	0.00	-15.1
12842.2	90.00	179.44	12550.0	-449.4	290.7	12.00	179.44	462.0
20528.1	90.00	179.44	20528.0	-8135.0	365.5	0.00	0.00	8143.2



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

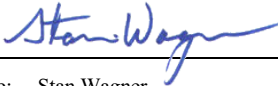
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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

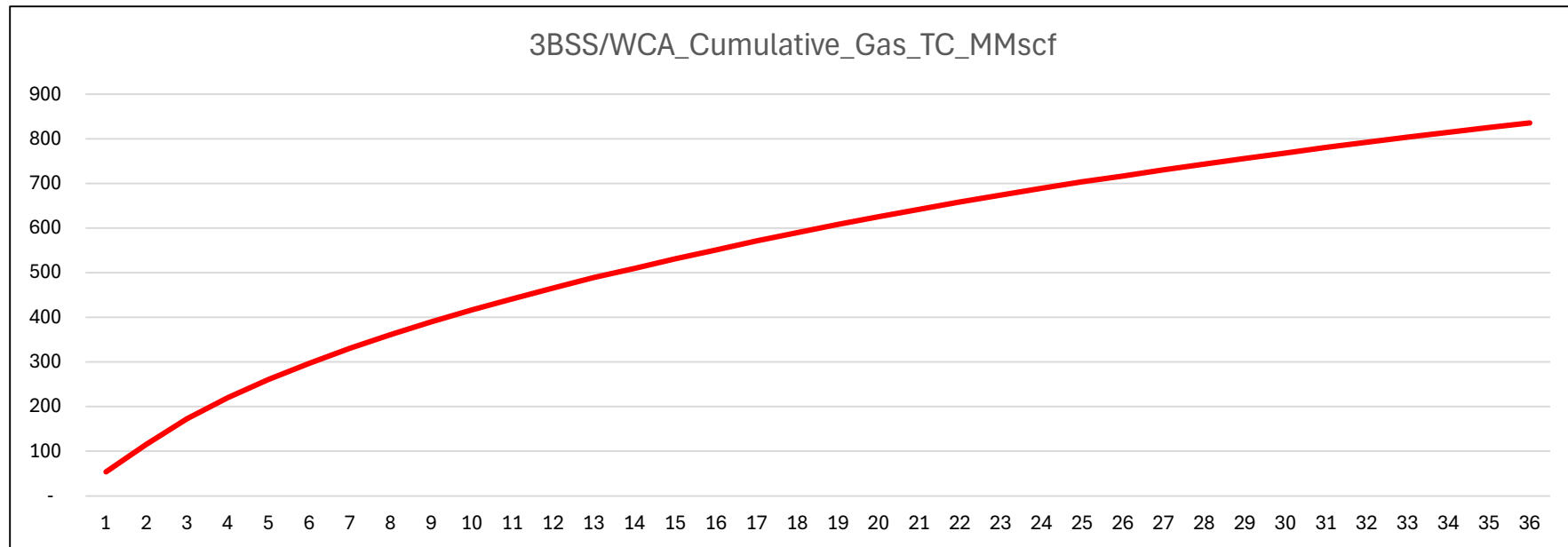
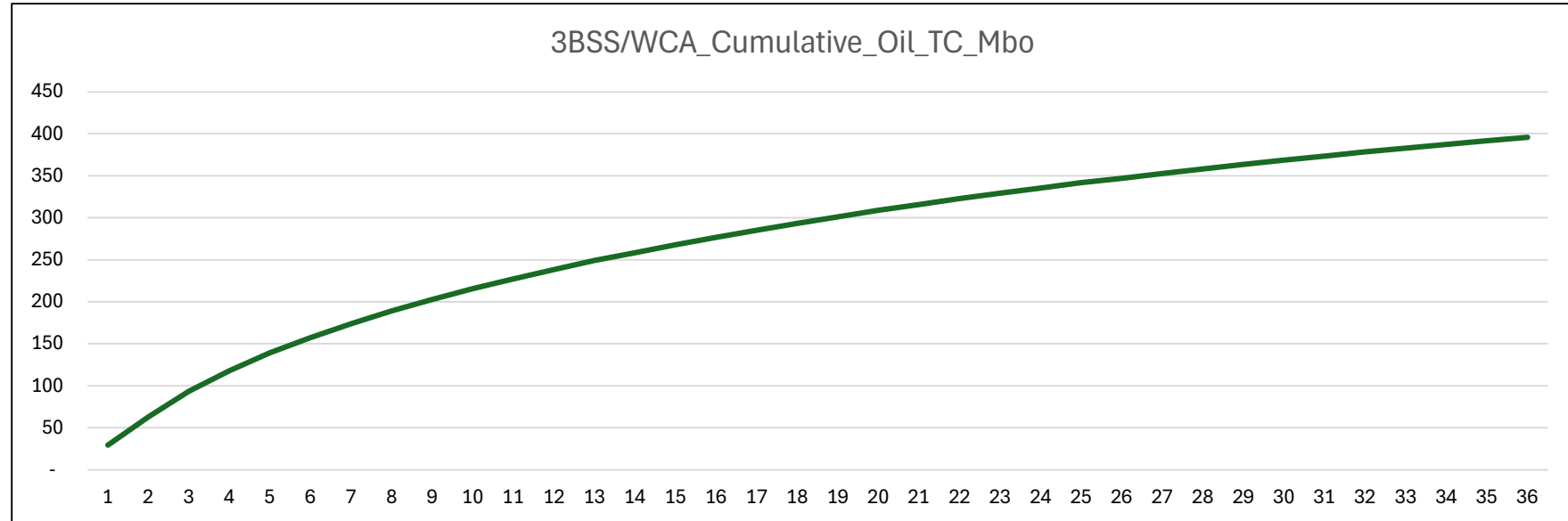
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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



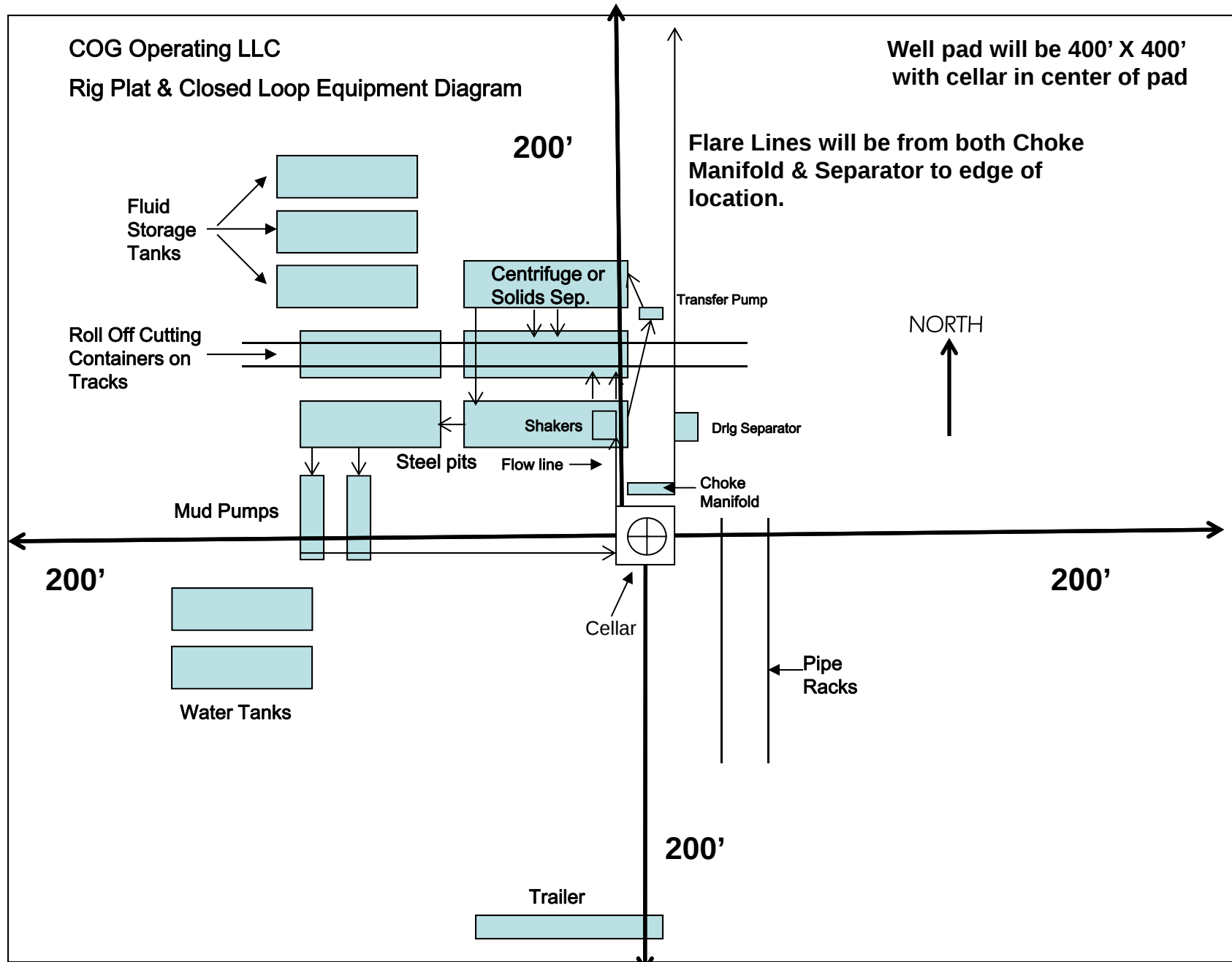


Exhibit 1

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 703H
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 519710

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519710
	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

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

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

CONDITIONS

Action 519710

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 519710
	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