

Form 3160-3
(October 2024)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-025-56043
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)		
Name (Printed/Typed)		Date
Title		Office

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SWNE / 2365 FNL / 1475 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102113 / LONG: -103.385774 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2540 FSL / 2311 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.10109 / LONG: -103.388472 (TVD: 12743 feet, MD: 13023 feet)

PPP: NWNE / 1 FNL / 2311 FEL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094108 / LONG: -103.388464 (TVD: 12750 feet, MD: 15663 feet)

BHL: SWSE / 50 FSL / 2311 FEL / TWSP: 26S / RANGE: 35E / SECTION: 5 / LAT: 32.065219 / LONG: -103.388429 (TVD: 12750 feet, MD: 26072 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: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Initial Submittal</td> </tr> <tr> <td><input type="checkbox"/> Amended Report</td> </tr> <tr> <td><input type="checkbox"/> As Drilled</td> </tr> </table>	<input checked="" type="checkbox"/> Initial Submittal	<input type="checkbox"/> Amended Report	<input type="checkbox"/> As Drilled
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WELL LOCATION INFORMATION

API Number 30-025- 56043	Pool Code 98117	Pool Name WC-025 G-09 S263504N; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 804H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3260.5'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> Tribal <input type="checkbox"/> 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	1475 FEL	32.102113°N	103.385774°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	5	26-S	35-E		50 FSL	2311 FEL	32.065219°N	103.388429°W	LEA

Dedicated Acres 640	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	1475 FEL	32.102113°N	103.385774°W	LEA

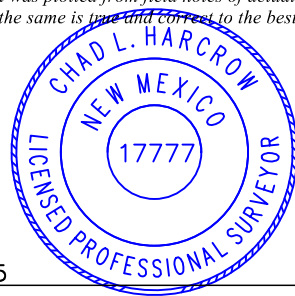
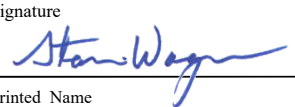
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
J	29	25-S	35-E		2540 FSL	2311 FEL	32.101090°N	103.388472°W	LEA

Last Take Point (LTP)

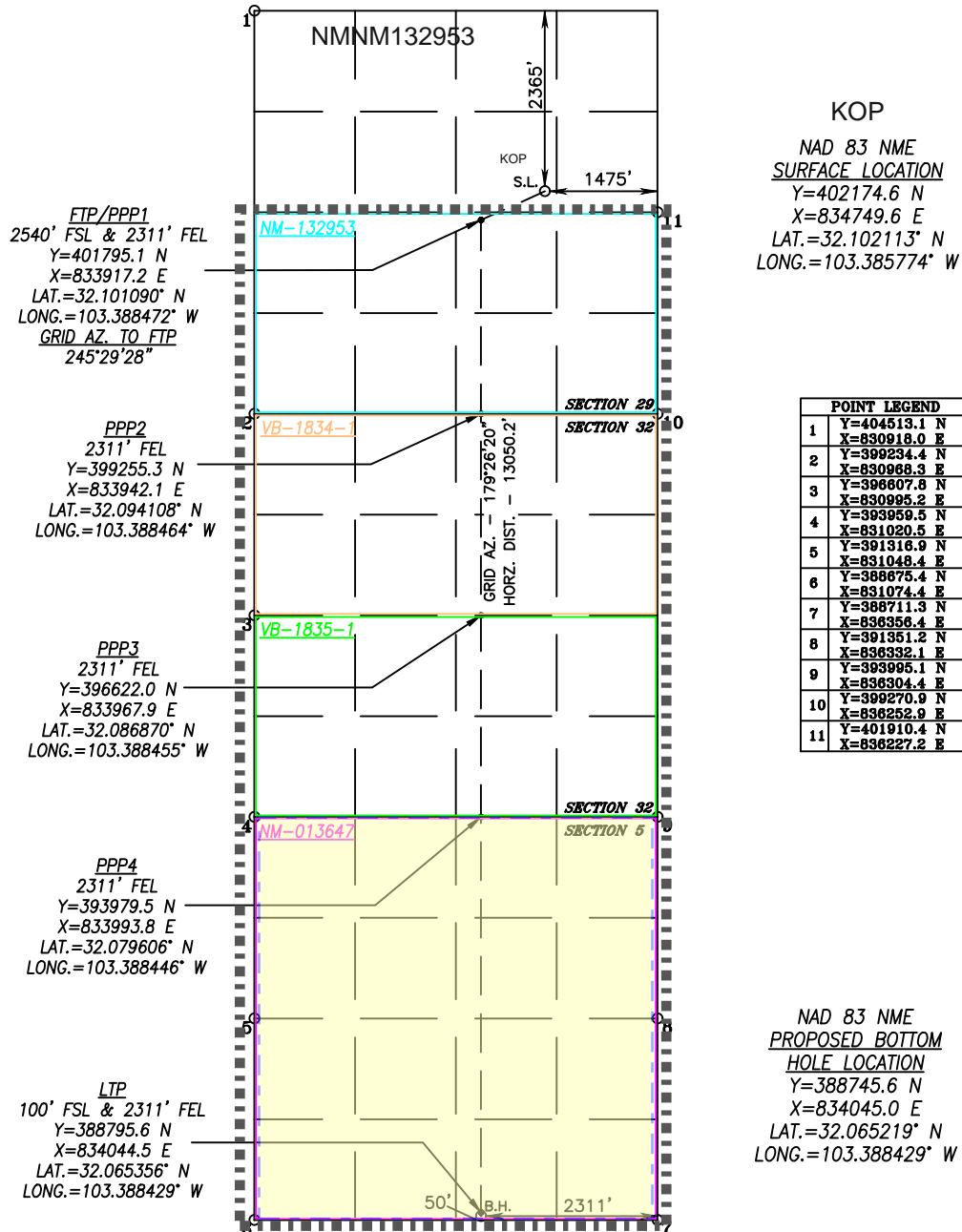
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	5	26-S	35-E		100 FSL	2311 FEL	32.065356°N	103.388429°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3260.5'
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<p>OPERATOR CERTIFICATIONS</p> <p><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></p> <p><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></p>	<p>SURVEYOR CERTIFICATIONS</p> <p><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></p> <div style="text-align: right;">  </div> <p style="text-align: right;"><i>Chad Harcrow</i> 6/6/25</p>
Signature  Date 7/7/25	Signature and Seal of Professional Surveyor
Printed Name Stan Wagner Email Address	Certificate Number 17777
	Date of Survey MAY 28, 2025
	W.O.#25-508 DRAWN BY: WN PAGE 1 OF 2

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

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



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Dedicated Acres 960	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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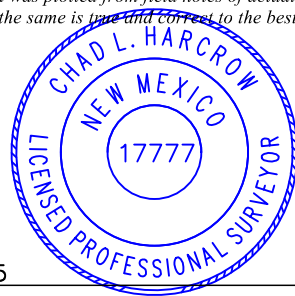
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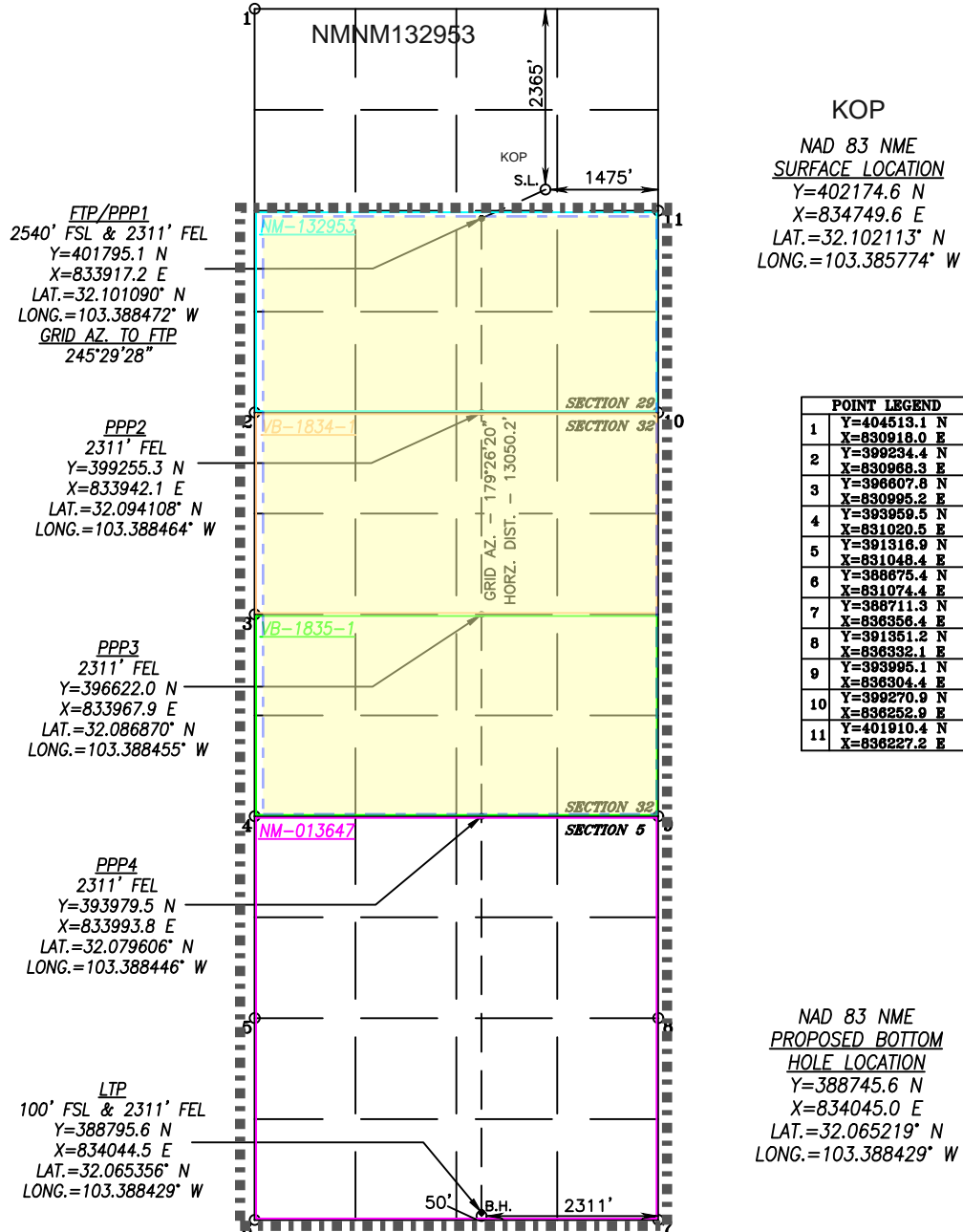
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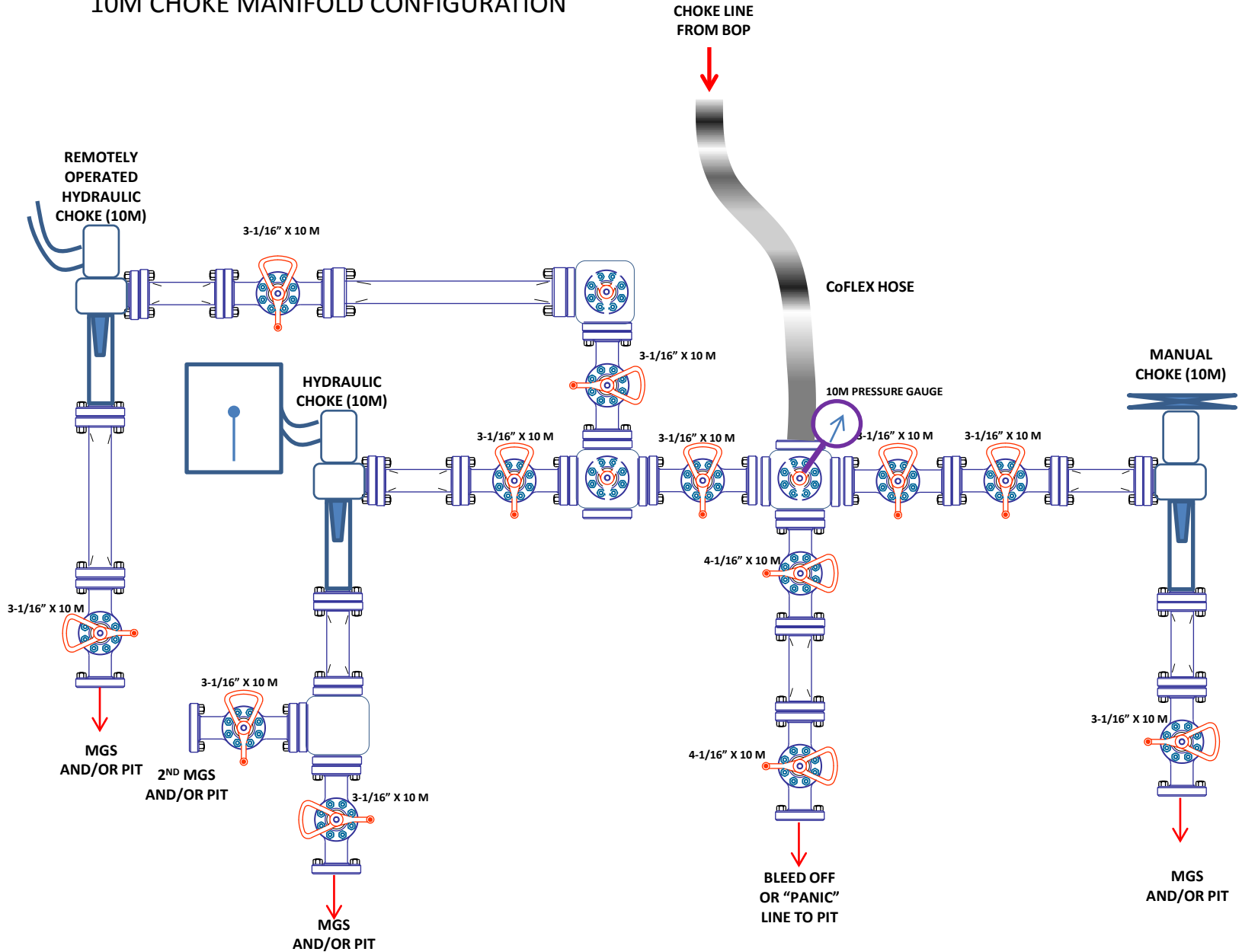
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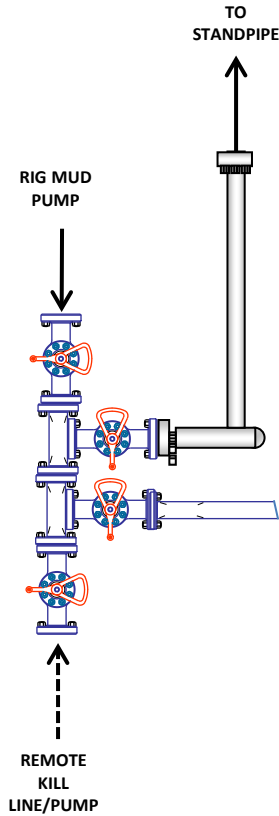
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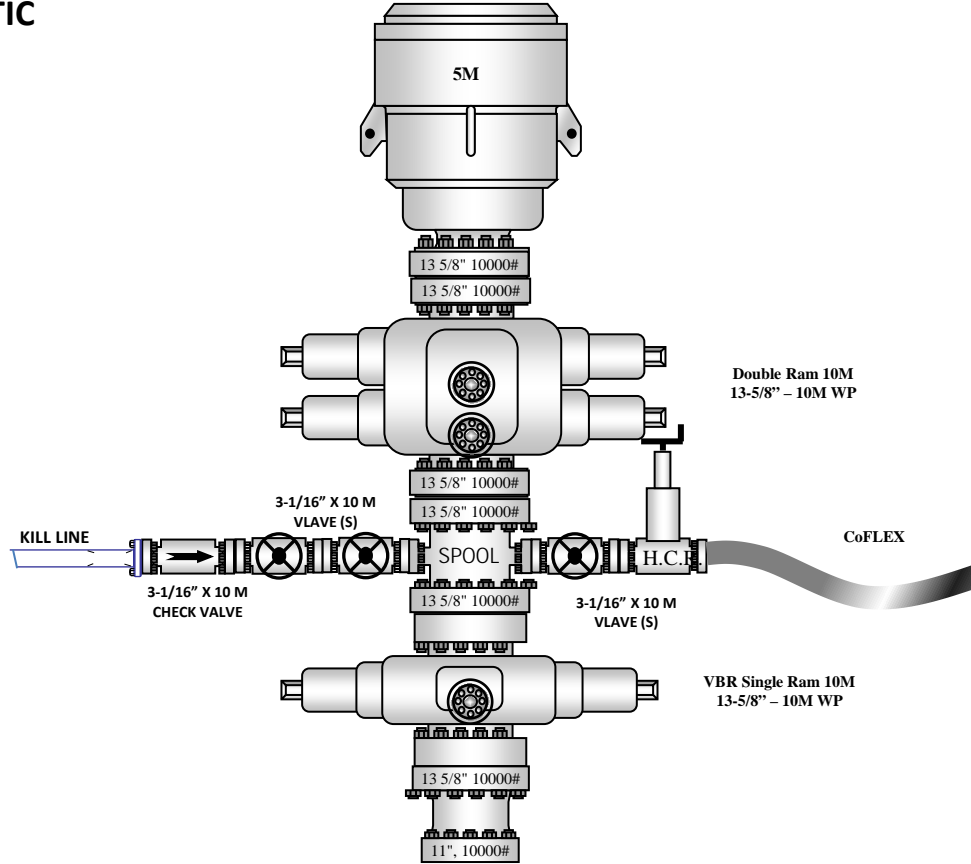
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



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1. Geologic Formations

TVD of Target:	12,750' EOL	Pilot hole depth:	N/A
MD at TD:	26,073'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	728	Water	
Top of Salt	875	Salt	
Base of Salt	5168	Salt	
Lamar	5286	Salt Water	
Bell Canyon	5299	Salt Water	
Cherry Canyon	6283	Oil/Gas	
Brushy Canyon	7964	Oil/Gas	
Bone Spring	9218	Oil/Gas	
1st Bone Spring Sand	10403	Oil/Gas	
2nd Bone Spring Sand	10933	Oil/Gas	
3rd Bone Spring Sand	12022	Oil/Gas	
Wolfcamp	12402	Oil/Gas	
Wolfcamp A	12529	Oil/Gas	
Wolfcamp B	12779	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	725	10.75"	45.5	J55	BTC	6.30	8.09	21.67	24.13
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.44	1.02	2.98	3.01
8.750"	8200	12250	7.625"	29.7	P110-ICY	W513	2.80	1.54	2.94	1.76
6.75"	0	12050	5.5"	23	P110-CY	BTC	3.33	2.01	2.63	2.63
6.75"	12050	26,073	5.5"	23	P110-CY	W441	3.23	2.01	2.49	2.26
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

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	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Capitan Reef	
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?	
SOPA	
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?	
R-111-P	
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?	
High Cave/Karst	
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?	
Critical Cave/Karst	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1193	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	556	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	666	12.7	1.68	9.09	72	Lead: Class C
	1340	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	11,750'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	441	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	666	12.7	1.68	9.09	72	Lead: Class C
	1340	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	7,964'	121%
Production	11,750'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

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

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

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

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

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

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5. Mud Program

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

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

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

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
N	Density
N	CBL
Y	Mud log
N	PEX

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8620 psi at 12750' 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	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

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

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

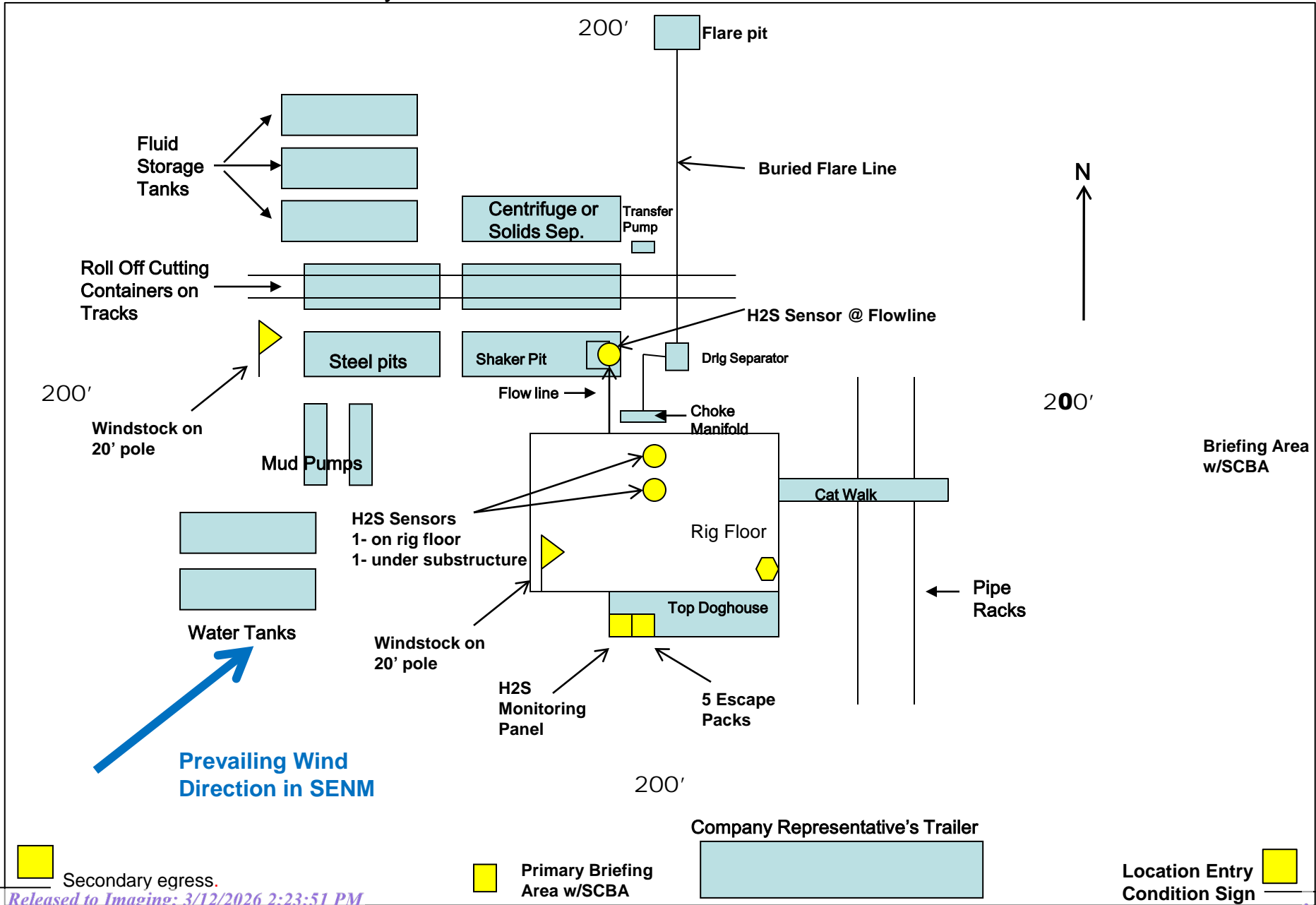
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

COG 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 804H - Slot BOATER FED COM 804H

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 804H - Slot BOATER FED COM 804H
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 804H	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	47,140.20639482

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	183.00

Plan Survey Tool Program	Date	4/24/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	26,072.7	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,570.0	11.40	271.37	2,566.3	1.4	-56.5	2.00	2.00	0.00	271.37	
5,937.7	11.40	271.37	5,867.5	17.3	-722.0	0.00	0.00	0.00	0.00	
7,077.7	0.00	0.00	7,000.0	20.0	-835.0	1.00	-1.00	0.00	180.00	
12,350.2	0.00	0.00	12,272.5	20.0	-835.0	0.00	0.00	0.00	0.00	
13,100.2	90.00	179.44	12,750.0	-457.4	-830.3	12.00	12.00	23.93	179.44	
26,072.7	90.00	179.44	12,750.0	-13,429.3	-703.3	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	North Reference:	Grid
Well:	_BOATER FED COM 804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	2.00	271.37	2,100.0	0.0	-1.7	0.0	2.00	2.00	0.00	
2,200.0	4.00	271.37	2,199.8	0.2	-7.0	0.2	2.00	2.00	0.00	
2,300.0	6.00	271.37	2,299.5	0.4	-15.7	0.4	2.00	2.00	0.00	
2,400.0	8.00	271.37	2,398.7	0.7	-27.9	0.8	2.00	2.00	0.00	
2,500.0	10.00	271.37	2,497.5	1.0	-43.5	1.2	2.00	2.00	0.00	
2,570.0	11.40	271.37	2,566.3	1.4	-56.5	1.6	2.00	2.00	0.00	
2,600.0	11.40	271.37	2,595.7	1.5	-62.4	1.8	0.00	0.00	0.00	
2,700.0	11.40	271.37	2,693.7	2.0	-82.2	2.3	0.00	0.00	0.00	
2,800.0	11.40	271.37	2,791.7	2.4	-102.0	2.9	0.00	0.00	0.00	
2,900.0	11.40	271.37	2,889.7	2.9	-121.7	3.5	0.00	0.00	0.00	
3,000.0	11.40	271.37	2,987.8	3.4	-141.5	4.0	0.00	0.00	0.00	
3,100.0	11.40	271.37	3,085.8	3.9	-161.2	4.6	0.00	0.00	0.00	
3,200.0	11.40	271.37	3,183.8	4.3	-181.0	5.1	0.00	0.00	0.00	
3,300.0	11.40	271.37	3,281.8	4.8	-200.8	5.7	0.00	0.00	0.00	
3,400.0	11.40	271.37	3,379.9	5.3	-220.5	6.3	0.00	0.00	0.00	
3,500.0	11.40	271.37	3,477.9	5.8	-240.3	6.8	0.00	0.00	0.00	
3,600.0	11.40	271.37	3,575.9	6.2	-260.0	7.4	0.00	0.00	0.00	
3,700.0	11.40	271.37	3,674.0	6.7	-279.8	7.9	0.00	0.00	0.00	
3,800.0	11.40	271.37	3,772.0	7.2	-299.6	8.5	0.00	0.00	0.00	
3,900.0	11.40	271.37	3,870.0	7.6	-319.3	9.1	0.00	0.00	0.00	
4,000.0	11.40	271.37	3,968.0	8.1	-339.1	9.6	0.00	0.00	0.00	
4,100.0	11.40	271.37	4,066.1	8.6	-358.8	10.2	0.00	0.00	0.00	
4,200.0	11.40	271.37	4,164.1	9.1	-378.6	10.7	0.00	0.00	0.00	
4,300.0	11.40	271.37	4,262.1	9.5	-398.4	11.3	0.00	0.00	0.00	
4,400.0	11.40	271.37	4,360.1	10.0	-418.1	11.9	0.00	0.00	0.00	
4,500.0	11.40	271.37	4,458.2	10.5	-437.9	12.4	0.00	0.00	0.00	
4,600.0	11.40	271.37	4,556.2	11.0	-457.7	13.0	0.00	0.00	0.00	
4,700.0	11.40	271.37	4,654.2	11.4	-477.4	13.5	0.00	0.00	0.00	
4,800.0	11.40	271.37	4,752.2	11.9	-497.2	14.1	0.00	0.00	0.00	
4,900.0	11.40	271.37	4,850.3	12.4	-516.9	14.7	0.00	0.00	0.00	
5,000.0	11.40	271.37	4,948.3	12.9	-536.7	15.2	0.00	0.00	0.00	
5,100.0	11.40	271.37	5,046.3	13.3	-556.5	15.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well_BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	11.40	271.37	5,144.4	13.8	-576.2	16.4	0.00	0.00	0.00	
5,300.0	11.40	271.37	5,242.4	14.3	-596.0	16.9	0.00	0.00	0.00	
5,400.0	11.40	271.37	5,340.4	14.7	-615.7	17.5	0.00	0.00	0.00	
5,500.0	11.40	271.37	5,438.4	15.2	-635.5	18.0	0.00	0.00	0.00	
5,600.0	11.40	271.37	5,536.5	15.7	-655.3	18.6	0.00	0.00	0.00	
5,700.0	11.40	271.37	5,634.5	16.2	-675.0	19.2	0.00	0.00	0.00	
5,800.0	11.40	271.37	5,732.5	16.6	-694.8	19.7	0.00	0.00	0.00	
5,900.0	11.40	271.37	5,830.5	17.1	-714.5	20.3	0.00	0.00	0.00	
5,937.7	11.40	271.37	5,867.5	17.3	-722.0	20.5	0.00	0.00	0.00	
6,000.0	10.78	271.37	5,928.6	17.6	-734.0	20.8	1.00	-1.00	0.00	
6,100.0	9.78	271.37	6,027.0	18.0	-751.8	21.3	1.00	-1.00	0.00	
6,200.0	8.78	271.37	6,125.7	18.4	-767.9	21.8	1.00	-1.00	0.00	
6,300.0	7.78	271.37	6,224.7	18.7	-782.3	22.2	1.00	-1.00	0.00	
6,400.0	6.78	271.37	6,323.9	19.0	-795.0	22.6	1.00	-1.00	0.00	
6,500.0	5.78	271.37	6,423.3	19.3	-805.9	22.9	1.00	-1.00	0.00	
6,600.0	4.78	271.37	6,522.8	19.5	-815.1	23.1	1.00	-1.00	0.00	
6,700.0	3.78	271.37	6,622.6	19.7	-822.6	23.3	1.00	-1.00	0.00	
6,800.0	2.78	271.37	6,722.4	19.8	-828.3	23.5	1.00	-1.00	0.00	
6,900.0	1.78	271.37	6,822.3	19.9	-832.2	23.6	1.00	-1.00	0.00	
7,000.0	0.78	271.37	6,922.3	20.0	-834.5	23.7	1.00	-1.00	0.00	
7,077.7	0.00	0.00	7,000.0	20.0	-835.0	23.7	1.00	-1.00	0.00	
7,100.0	0.00	0.00	7,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,322.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,422.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,522.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,622.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,722.3	20.0	-835.0	23.7	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,822.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,922.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,322.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,422.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,522.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,622.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,722.3	20.0	-835.0	23.7	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,822.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,922.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,322.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,422.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,522.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,622.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,722.3	20.0	-835.0	23.7	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,822.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,922.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Well:	_BOATER FED COM 804H	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	10,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,322.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,422.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,522.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,622.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,722.3	20.0	-835.0	23.7	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,822.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,922.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,322.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,422.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,522.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,622.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,722.3	20.0	-835.0	23.7	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,822.3	20.0	-835.0	23.7	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,922.3	20.0	-835.0	23.7	0.00	0.00	0.00	
12,100.0	0.00	0.00	12,022.3	20.0	-835.0	23.7	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,122.3	20.0	-835.0	23.7	0.00	0.00	0.00	
12,300.0	0.00	0.00	12,222.3	20.0	-835.0	23.7	0.00	0.00	0.00	
12,350.2	0.00	0.00	12,272.5	20.0	-835.0	23.7	0.00	0.00	0.00	
12,400.0	5.98	179.44	12,322.2	17.4	-835.0	26.3	12.00	12.00	0.00	
12,500.0	17.98	179.44	12,419.8	-3.3	-834.8	47.0	12.00	12.00	0.00	
12,600.0	29.98	179.44	12,511.1	-43.9	-834.4	87.4	12.00	12.00	0.00	
12,700.0	41.98	179.44	12,591.8	-102.5	-833.8	146.0	12.00	12.00	0.00	
12,800.0	53.98	179.44	12,658.7	-176.6	-833.1	220.0	12.00	12.00	0.00	
12,900.0	65.98	179.44	12,708.6	-263.1	-832.2	306.2	12.00	12.00	0.00	
13,000.0	77.98	179.44	12,739.5	-358.0	-831.3	401.0	12.00	12.00	0.00	
13,100.0	89.98	179.44	12,750.0	-457.2	-830.3	500.0	12.00	12.00	0.00	
13,100.2	90.00	179.44	12,750.0	-457.4	-830.3	500.2	12.00	12.00	0.00	
13,200.0	90.00	179.44	12,750.0	-557.2	-829.3	599.8	0.00	0.00	0.00	
13,300.0	90.00	179.44	12,750.0	-657.2	-828.4	699.6	0.00	0.00	0.00	
13,400.0	90.00	179.44	12,750.0	-757.2	-827.4	799.5	0.00	0.00	0.00	
13,500.0	90.00	179.44	12,750.0	-857.2	-826.4	899.3	0.00	0.00	0.00	
13,600.0	90.00	179.44	12,750.0	-957.2	-825.4	999.1	0.00	0.00	0.00	
13,700.0	90.00	179.44	12,750.0	-1,057.2	-824.4	1,098.9	0.00	0.00	0.00	
13,800.0	90.00	179.44	12,750.0	-1,157.2	-823.5	1,198.7	0.00	0.00	0.00	
13,900.0	90.00	179.44	12,750.0	-1,257.2	-822.5	1,298.5	0.00	0.00	0.00	
14,000.0	90.00	179.44	12,750.0	-1,357.2	-821.5	1,398.3	0.00	0.00	0.00	
14,100.0	90.00	179.44	12,750.0	-1,457.2	-820.5	1,498.1	0.00	0.00	0.00	
14,200.0	90.00	179.44	12,750.0	-1,557.2	-819.6	1,597.9	0.00	0.00	0.00	
14,300.0	90.00	179.44	12,750.0	-1,657.2	-818.6	1,697.7	0.00	0.00	0.00	
14,400.0	90.00	179.44	12,750.0	-1,757.2	-817.6	1,797.5	0.00	0.00	0.00	
14,500.0	90.00	179.44	12,750.0	-1,857.2	-816.6	1,897.3	0.00	0.00	0.00	
14,600.0	90.00	179.44	12,750.0	-1,957.2	-815.6	1,997.1	0.00	0.00	0.00	
14,700.0	90.00	179.44	12,750.0	-2,057.2	-814.7	2,096.9	0.00	0.00	0.00	
14,800.0	90.00	179.44	12,750.0	-2,157.2	-813.7	2,196.8	0.00	0.00	0.00	
14,900.0	90.00	179.44	12,750.0	-2,257.1	-812.7	2,296.6	0.00	0.00	0.00	
15,000.0	90.00	179.44	12,750.0	-2,357.1	-811.7	2,396.4	0.00	0.00	0.00	
15,100.0	90.00	179.44	12,750.0	-2,457.1	-810.7	2,496.2	0.00	0.00	0.00	
15,200.0	90.00	179.44	12,750.0	-2,557.1	-809.8	2,596.0	0.00	0.00	0.00	
15,300.0	90.00	179.44	12,750.0	-2,657.1	-808.8	2,695.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	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	12,750.0	-2,757.1	-807.8	2,795.6	0.00	0.00	0.00	
15,500.0	90.00	179.44	12,750.0	-2,857.1	-806.8	2,895.4	0.00	0.00	0.00	
15,600.0	90.00	179.44	12,750.0	-2,957.1	-805.8	2,995.2	0.00	0.00	0.00	
15,700.0	90.00	179.44	12,750.0	-3,057.1	-804.9	3,095.0	0.00	0.00	0.00	
15,800.0	90.00	179.44	12,750.0	-3,157.1	-803.9	3,194.8	0.00	0.00	0.00	
15,900.0	90.00	179.44	12,750.0	-3,257.1	-802.9	3,294.6	0.00	0.00	0.00	
16,000.0	90.00	179.44	12,750.0	-3,357.1	-801.9	3,394.4	0.00	0.00	0.00	
16,100.0	90.00	179.44	12,750.0	-3,457.1	-800.9	3,494.2	0.00	0.00	0.00	
16,200.0	90.00	179.44	12,750.0	-3,557.1	-800.0	3,594.1	0.00	0.00	0.00	
16,300.0	90.00	179.44	12,750.0	-3,657.1	-799.0	3,693.9	0.00	0.00	0.00	
16,400.0	90.00	179.44	12,750.0	-3,757.1	-798.0	3,793.7	0.00	0.00	0.00	
16,500.0	90.00	179.44	12,750.0	-3,857.1	-797.0	3,893.5	0.00	0.00	0.00	
16,600.0	90.00	179.44	12,750.0	-3,957.1	-796.0	3,993.3	0.00	0.00	0.00	
16,700.0	90.00	179.44	12,750.0	-4,057.1	-795.1	4,093.1	0.00	0.00	0.00	
16,800.0	90.00	179.44	12,750.0	-4,157.1	-794.1	4,192.9	0.00	0.00	0.00	
16,900.0	90.00	179.44	12,750.0	-4,257.1	-793.1	4,292.7	0.00	0.00	0.00	
17,000.0	90.00	179.44	12,750.0	-4,357.0	-792.1	4,392.5	0.00	0.00	0.00	
17,100.0	90.00	179.44	12,750.0	-4,457.0	-791.1	4,492.3	0.00	0.00	0.00	
17,200.0	90.00	179.44	12,750.0	-4,557.0	-790.2	4,592.1	0.00	0.00	0.00	
17,300.0	90.00	179.44	12,750.0	-4,657.0	-789.2	4,691.9	0.00	0.00	0.00	
17,400.0	90.00	179.44	12,750.0	-4,757.0	-788.2	4,791.7	0.00	0.00	0.00	
17,500.0	90.00	179.44	12,750.0	-4,857.0	-787.2	4,891.5	0.00	0.00	0.00	
17,600.0	90.00	179.44	12,750.0	-4,957.0	-786.2	4,991.4	0.00	0.00	0.00	
17,700.0	90.00	179.44	12,750.0	-5,057.0	-785.3	5,091.2	0.00	0.00	0.00	
17,800.0	90.00	179.44	12,750.0	-5,157.0	-784.3	5,191.0	0.00	0.00	0.00	
17,900.0	90.00	179.44	12,750.0	-5,257.0	-783.3	5,290.8	0.00	0.00	0.00	
18,000.0	90.00	179.44	12,750.0	-5,357.0	-782.3	5,390.6	0.00	0.00	0.00	
18,100.0	90.00	179.44	12,750.0	-5,457.0	-781.4	5,490.4	0.00	0.00	0.00	
18,200.0	90.00	179.44	12,750.0	-5,557.0	-780.4	5,590.2	0.00	0.00	0.00	
18,300.0	90.00	179.44	12,750.0	-5,657.0	-779.4	5,690.0	0.00	0.00	0.00	
18,400.0	90.00	179.44	12,750.0	-5,757.0	-778.4	5,789.8	0.00	0.00	0.00	
18,500.0	90.00	179.44	12,750.0	-5,857.0	-777.4	5,889.6	0.00	0.00	0.00	
18,600.0	90.00	179.44	12,750.0	-5,957.0	-776.5	5,989.4	0.00	0.00	0.00	
18,700.0	90.00	179.44	12,750.0	-6,057.0	-775.5	6,089.2	0.00	0.00	0.00	
18,800.0	90.00	179.44	12,750.0	-6,157.0	-774.5	6,189.0	0.00	0.00	0.00	
18,900.0	90.00	179.44	12,750.0	-6,257.0	-773.5	6,288.8	0.00	0.00	0.00	
19,000.0	90.00	179.44	12,750.0	-6,357.0	-772.5	6,388.7	0.00	0.00	0.00	
19,100.0	90.00	179.44	12,750.0	-6,456.9	-771.6	6,488.5	0.00	0.00	0.00	
19,200.0	90.00	179.44	12,750.0	-6,556.9	-770.6	6,588.3	0.00	0.00	0.00	
19,300.0	90.00	179.44	12,750.0	-6,656.9	-769.6	6,688.1	0.00	0.00	0.00	
19,400.0	90.00	179.44	12,750.0	-6,756.9	-768.6	6,787.9	0.00	0.00	0.00	
19,500.0	90.00	179.44	12,750.0	-6,856.9	-767.6	6,887.7	0.00	0.00	0.00	
19,600.0	90.00	179.44	12,750.0	-6,956.9	-766.7	6,987.5	0.00	0.00	0.00	
19,700.0	90.00	179.44	12,750.0	-7,056.9	-765.7	7,087.3	0.00	0.00	0.00	
19,800.0	90.00	179.44	12,750.0	-7,156.9	-764.7	7,187.1	0.00	0.00	0.00	
19,900.0	90.00	179.44	12,750.0	-7,256.9	-763.7	7,286.9	0.00	0.00	0.00	
20,000.0	90.00	179.44	12,750.0	-7,356.9	-762.7	7,386.7	0.00	0.00	0.00	
20,100.0	90.00	179.44	12,750.0	-7,456.9	-761.8	7,486.5	0.00	0.00	0.00	
20,200.0	90.00	179.44	12,750.0	-7,556.9	-760.8	7,586.3	0.00	0.00	0.00	
20,300.0	90.00	179.44	12,750.0	-7,656.9	-759.8	7,686.1	0.00	0.00	0.00	
20,400.0	90.00	179.44	12,750.0	-7,756.9	-758.8	7,786.0	0.00	0.00	0.00	
20,500.0	90.00	179.44	12,750.0	-7,856.9	-757.8	7,885.8	0.00	0.00	0.00	
20,600.0	90.00	179.44	12,750.0	-7,956.9	-756.9	7,985.6	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,700.0	90.00	179.44	12,750.0	-8,056.9	-755.9	8,085.4	0.00	0.00	0.00	
20,800.0	90.00	179.44	12,750.0	-8,156.9	-754.9	8,185.2	0.00	0.00	0.00	
20,900.0	90.00	179.44	12,750.0	-8,256.9	-753.9	8,285.0	0.00	0.00	0.00	
21,000.0	90.00	179.44	12,750.0	-8,356.9	-752.9	8,384.8	0.00	0.00	0.00	
21,100.0	90.00	179.44	12,750.0	-8,456.9	-752.0	8,484.6	0.00	0.00	0.00	
21,200.0	90.00	179.44	12,750.0	-8,556.8	-751.0	8,584.4	0.00	0.00	0.00	
21,300.0	90.00	179.44	12,750.0	-8,656.8	-750.0	8,684.2	0.00	0.00	0.00	
21,400.0	90.00	179.44	12,750.0	-8,756.8	-749.0	8,784.0	0.00	0.00	0.00	
21,500.0	90.00	179.44	12,750.0	-8,856.8	-748.1	8,883.8	0.00	0.00	0.00	
21,600.0	90.00	179.44	12,750.0	-8,956.8	-747.1	8,983.6	0.00	0.00	0.00	
21,700.0	90.00	179.44	12,750.0	-9,056.8	-746.1	9,083.4	0.00	0.00	0.00	
21,800.0	90.00	179.44	12,750.0	-9,156.8	-745.1	9,183.3	0.00	0.00	0.00	
21,900.0	90.00	179.44	12,750.0	-9,256.8	-744.1	9,283.1	0.00	0.00	0.00	
22,000.0	90.00	179.44	12,750.0	-9,356.8	-743.2	9,382.9	0.00	0.00	0.00	
22,100.0	90.00	179.44	12,750.0	-9,456.8	-742.2	9,482.7	0.00	0.00	0.00	
22,200.0	90.00	179.44	12,750.0	-9,556.8	-741.2	9,582.5	0.00	0.00	0.00	
22,300.0	90.00	179.44	12,750.0	-9,656.8	-740.2	9,682.3	0.00	0.00	0.00	
22,400.0	90.00	179.44	12,750.0	-9,756.8	-739.2	9,782.1	0.00	0.00	0.00	
22,500.0	90.00	179.44	12,750.0	-9,856.8	-738.3	9,881.9	0.00	0.00	0.00	
22,600.0	90.00	179.44	12,750.0	-9,956.8	-737.3	9,981.7	0.00	0.00	0.00	
22,700.0	90.00	179.44	12,750.0	-10,056.8	-736.3	10,081.5	0.00	0.00	0.00	
22,800.0	90.00	179.44	12,750.0	-10,156.8	-735.3	10,181.3	0.00	0.00	0.00	
22,900.0	90.00	179.44	12,750.0	-10,256.8	-734.3	10,281.1	0.00	0.00	0.00	
23,000.0	90.00	179.44	12,750.0	-10,356.8	-733.4	10,380.9	0.00	0.00	0.00	
23,100.0	90.00	179.44	12,750.0	-10,456.8	-732.4	10,480.7	0.00	0.00	0.00	
23,200.0	90.00	179.44	12,750.0	-10,556.7	-731.4	10,580.6	0.00	0.00	0.00	
23,300.0	90.00	179.44	12,750.0	-10,656.7	-730.4	10,680.4	0.00	0.00	0.00	
23,400.0	90.00	179.44	12,750.0	-10,756.7	-729.4	10,780.2	0.00	0.00	0.00	
23,500.0	90.00	179.44	12,750.0	-10,856.7	-728.5	10,880.0	0.00	0.00	0.00	
23,600.0	90.00	179.44	12,750.0	-10,956.7	-727.5	10,979.8	0.00	0.00	0.00	
23,700.0	90.00	179.44	12,750.0	-11,056.7	-726.5	11,079.6	0.00	0.00	0.00	
23,800.0	90.00	179.44	12,750.0	-11,156.7	-725.5	11,179.4	0.00	0.00	0.00	
23,900.0	90.00	179.44	12,750.0	-11,256.7	-724.5	11,279.2	0.00	0.00	0.00	
24,000.0	90.00	179.44	12,750.0	-11,356.7	-723.6	11,379.0	0.00	0.00	0.00	
24,100.0	90.00	179.44	12,750.0	-11,456.7	-722.6	11,478.8	0.00	0.00	0.00	
24,200.0	90.00	179.44	12,750.0	-11,556.7	-721.6	11,578.6	0.00	0.00	0.00	
24,300.0	90.00	179.44	12,750.0	-11,656.7	-720.6	11,678.4	0.00	0.00	0.00	
24,400.0	90.00	179.44	12,750.0	-11,756.7	-719.6	11,778.2	0.00	0.00	0.00	
24,500.0	90.00	179.44	12,750.0	-11,856.7	-718.7	11,878.0	0.00	0.00	0.00	
24,600.0	90.00	179.44	12,750.0	-11,956.7	-717.7	11,977.9	0.00	0.00	0.00	
24,700.0	90.00	179.44	12,750.0	-12,056.7	-716.7	12,077.7	0.00	0.00	0.00	
24,800.0	90.00	179.44	12,750.0	-12,156.7	-715.7	12,177.5	0.00	0.00	0.00	
24,900.0	90.00	179.44	12,750.0	-12,256.7	-714.7	12,277.3	0.00	0.00	0.00	
25,000.0	90.00	179.44	12,750.0	-12,356.7	-713.8	12,377.1	0.00	0.00	0.00	
25,100.0	90.00	179.44	12,750.0	-12,456.7	-712.8	12,476.9	0.00	0.00	0.00	
25,200.0	90.00	179.44	12,750.0	-12,556.7	-711.8	12,576.7	0.00	0.00	0.00	
25,300.0	90.00	179.44	12,750.0	-12,656.6	-710.8	12,676.5	0.00	0.00	0.00	
25,400.0	90.00	179.44	12,750.0	-12,756.6	-709.9	12,776.3	0.00	0.00	0.00	
25,500.0	90.00	179.44	12,750.0	-12,856.6	-708.9	12,876.1	0.00	0.00	0.00	
25,600.0	90.00	179.44	12,750.0	-12,956.6	-707.9	12,975.9	0.00	0.00	0.00	
25,700.0	90.00	179.44	12,750.0	-13,056.6	-706.9	13,075.7	0.00	0.00	0.00	
25,800.0	90.00	179.44	12,750.0	-13,156.6	-705.9	13,175.5	0.00	0.00	0.00	
25,900.0	90.00	179.44	12,750.0	-13,256.6	-705.0	13,275.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	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)	
26,000.0	90.00	179.44	12,750.0	-13,356.6	-704.0	13,375.2	0.00	0.00	0.00	
26,072.7	90.00	179.44	12,750.0	-13,429.3	-703.3	13,447.7	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP_BOATER FED COI - hit/miss target - Shape	0.00	0.00	12,750.0	-380.8	-830.4	401,736.44	792,731.06	32° 6' 3.462 N	103° 23' 16.818 W	
- plan misses target center by 6.2usft at 13023.8usft MD (12743.9 TVD, -381.4 N, -831.1 E)										
- Circle (radius 50.0)										
LTP_BOATER FED COM - hit/miss target - Shape	90.00	179.44	12,750.0	-13,379.3	-703.7	388,737.90	792,857.71	32° 3' 54.827 N	103° 23' 16.670 W	
- plan misses target center by 22.7usft at 26000.0usft MD (12750.0 TVD, -13356.6 N, -704.0 E)										
- Circle (radius 50.0)										
PBHL_BOATER FED C - hit/miss target - Shape	0.00	359.44	12,750.0	-13,429.3	-703.3	388,687.90	792,858.20	32° 3' 54.332 N	103° 23' 16.669 W	
- plan hits target center										
- Rectangle (sides W100.0 H13,049.0 D20.0)										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
26,072.7	12,750.0	5-1/2" Production Casing	5-1/2	6		

DELAWARE BASIN EAST

**LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 804H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	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	26,072.7	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
AKUBRA PROJECT						
AKUBRA FED COM 701H - OWB - AWP						Out of range
BOATER FED COM PROJECT						
_BOATER FED COM 601H - OWB - PWP0						Out of range
_BOATER FED COM 602H - OWB - PWP0	12,027.4	11,989.0	893.3	851.7	21.458	CC
_BOATER FED COM 602H - OWB - PWP0	20,800.0	20,378.9	967.5	823.7	6.726	ES, SF
_BOATER FED COM 603H - OWB - PWP0	2,478.0	2,483.0	29.8	16.3	2.212	Caution - Monitor Closely, CC, ES
_BOATER FED COM 603H - OWB - PWP0	2,500.0	2,505.0	29.9	16.3	2.206	Caution - Monitor Closely, SF
_BOATER FED COM 701H - OWB - PWP0						Out of range
_BOATER FED COM 702H - OWB - PWP0	12,184.3	12,235.5	139.3	101.2	3.654	CC
_BOATER FED COM 702H - OWB - PWP0	12,200.0	12,251.1	139.3	101.2	3.653	ES
_BOATER FED COM 702H - OWB - PWP0	20,800.0	20,638.5	244.2	131.7	2.171	Caution - Monitor Closely, SF
_BOATER FED COM 703H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867	CC, ES
_BOATER FED COM 703H - OWB - PWP0	2,100.0	2,100.0	91.7	79.9	7.764	SF
_BOATER FED COM 801H - OWB - PWP0						Out of range
_BOATER FED COM 802H - OWB - PWP0						Out of range
_BOATER FED COM 803H - OWB - PWP0	2,575.6	2,569.7	29.1	15.5	2.137	Caution - Monitor Closely, CC, ES
_BOATER FED COM 803H - OWB - PWP0	2,600.0	2,593.9	29.2	15.5	2.136	Caution - Monitor Closely, SF
_BOATER FED COM 805H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245	CC, ES
_BOATER FED COM 805H - OWB - PWP0	26,072.7	25,619.0	880.0	636.8	3.618	SF
_BOATER FED COM 806H - OWB - PWP0	2,000.0	2,000.0	120.0	108.6	10.490	CC, ES
_BOATER FED COM 806H - OWB - PWP0	2,100.0	2,095.9	123.4	111.5	10.391	SF
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 008H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	25,309.0	12,952.2	853.2	705.4	5.772	CC
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	25,400.0	12,870.5	853.7	705.0	5.741	ES
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	25,500.0	12,783.5	855.4	705.8	5.718	SF
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	22,751.4	15,802.1	652.5	519.4	4.905	CC
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	25,400.0	13,165.5	668.2	511.2	4.255	ES
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	25,500.0	13,083.0	671.6	513.4	4.245	SF
CAVE LION 5 WC FEDERAL 002H - OWB - AWP						Out of range
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP						Out of range
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP						Out of range

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 804H - Slot BOATER FED COM 804H
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 804H	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						
CAVE LION 5 FEDERAL (5H, 1H)						
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F						Out of range
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5						Out of range
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5						Out of range
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
DUO SONIC 29 FEDERAL #4H - OWB - AWP						
GREEN BERET FED COM #501H - OWB - AWP	12,642.1	20,051.2	311.0	223.2	3.541	CC, ES
GREEN BERET FED COM #501H - OWB - AWP	12,650.0	20,055.6	311.0	223.2	3.541	SF
GREEN BERET FED COM #602H - OWB - AWP						Out of range
GREEN BERET FED COM #603H - OWB - AWP						Out of range
GREEN BERET FED COM #701H - OWB - AWP	11,084.7	18,293.8	362.8	268.0	3.827	CC, ES, SF
GREEN BERET FED COM #702H - OWB - AWP	12,875.0	20,435.0	129.6	44.5	1.522	Caution - Monitor Closely, ES, SF
GREEN BERET FED COM #702H - OWB - AWP	12,883.7	20,435.0	129.3	44.5	1.525	Caution - Monitor Closely, CC
GREEN BERET FED COM #703H - OWB - AWP	12,640.0	19,956.7	652.5	564.6	7.420	CC, ES
GREEN BERET FED COM #703H - OWB - AWP	12,850.0	20,136.9	667.0	576.9	7.405	SF
GREEN BERET FED COM #704H - OWB - AWP						Out of range
GREEN BERET FED COM #705H - OWB - AWP						Out of range
GREEN BERET FED COM #801H - OWB - AWP	12,396.7	19,727.1	851.9	765.4	9.849	CC, ES
GREEN BERET FED COM #801H - OWB - AWP	12,400.0	19,727.2	851.9	765.4	9.848	SF
GREEN BERET FED COM #802H - OWB - AWP						Out of range
TELE DELUX 32 STATE 4H - OWB - AWP						Out of range

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Reference		Offset		Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	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)				+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,100.0	6,027.0	6,135.8	6,096.8	12.8	20.0	-1.71	12.9	-1,742.5	993.1	959.5	33.65	29.515			
6,200.0	6,125.7	6,219.1	6,179.9	13.0	20.3	-1.71	13.2	-1,737.2	970.8	936.7	34.13	28.446			
6,300.0	6,224.7	6,300.0	6,260.8	13.2	20.6	-1.72	13.4	-1,733.3	951.6	917.1	34.57	27.525			
6,400.0	6,323.9	6,387.9	6,348.6	13.4	20.8	-1.73	13.5	-1,730.3	935.6	900.6	35.01	26.723			
6,500.0	6,423.3	6,473.2	6,433.9	13.5	21.1	-1.74	13.6	-1,728.6	922.8	887.4	35.39	26.077			
6,600.0	6,522.8	6,562.2	6,522.8	13.7	21.2	-1.75	13.6	-1,728.3	913.2	877.5	35.64	25.625			
6,700.0	6,622.6	6,661.9	6,622.6	13.9	21.2	-1.76	13.6	-1,728.3	905.7	869.9	35.80	25.296			
6,800.0	6,722.4	6,761.7	6,722.4	14.0	21.3	-1.77	13.6	-1,728.3	900.0	864.0	35.98	25.017			
6,900.0	6,822.3	6,861.6	6,822.3	14.2	21.3	-1.77	13.6	-1,728.3	896.0	859.9	36.14	24.792			
7,000.0	6,922.3	6,961.6	6,922.3	14.3	21.3	-1.78	13.6	-1,728.3	893.8	857.5	36.30	24.624			
7,077.7	7,000.0	7,039.3	7,000.0	14.4	21.4	-90.41	13.6	-1,728.3	893.3	856.9	36.39	24.550			
7,100.0	7,022.3	7,061.6	7,022.3	14.4	21.4	-90.41	13.6	-1,728.3	893.3	856.9	36.40	24.540			
7,200.0	7,122.3	7,161.6	7,122.3	14.5	21.4	-90.41	13.6	-1,728.3	893.3	856.8	36.50	24.472			
7,300.0	7,222.3	7,261.6	7,222.3	14.5	21.5	-90.41	13.6	-1,728.3	893.3	856.7	36.60	24.406			
7,400.0	7,322.3	7,361.6	7,322.3	14.6	21.5	-90.41	13.6	-1,728.3	893.3	856.6	36.70	24.341			
7,500.0	7,422.3	7,461.6	7,422.3	14.7	21.6	-90.41	13.6	-1,728.3	893.3	856.5	36.80	24.276			
7,600.0	7,522.3	7,561.6	7,522.3	14.7	21.6	-90.41	13.6	-1,728.3	893.3	856.4	36.90	24.211			
7,700.0	7,622.3	7,661.6	7,622.3	14.8	21.6	-90.41	13.6	-1,728.3	893.3	856.3	37.00	24.146			
7,800.0	7,722.3	7,761.6	7,722.3	14.8	21.7	-90.41	13.6	-1,728.3	893.3	856.2	37.10	24.081			
7,900.0	7,822.3	7,861.6	7,822.3	14.9	21.7	-90.41	13.6	-1,728.3	893.3	856.1	37.20	24.016			

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,000.0	7,922.3	7,961.6	7,922.3	15.0	21.8	-90.41	13.6	-1,728.3	893.3	856.0	37.30	23.951			
8,100.0	8,022.3	8,061.6	8,022.3	15.0	21.8	-90.41	13.6	-1,728.3	893.3	855.9	37.40	23.886			
8,200.0	8,122.3	8,161.6	8,122.3	15.1	21.9	-90.41	13.6	-1,728.3	893.3	855.8	37.50	23.822			
8,300.0	8,222.3	8,261.6	8,222.3	15.1	21.9	-90.41	13.6	-1,728.3	893.3	855.7	37.60	23.757			
8,400.0	8,322.3	8,361.6	8,322.3	15.2	22.0	-90.41	13.6	-1,728.3	893.3	855.6	37.70	23.693			
8,500.0	8,422.3	8,461.6	8,422.3	15.3	22.0	-90.41	13.6	-1,728.3	893.3	855.5	37.81	23.628			
8,600.0	8,522.3	8,561.6	8,522.3	15.3	22.1	-90.41	13.6	-1,728.3	893.3	855.4	37.91	23.564			
8,700.0	8,622.3	8,661.6	8,622.3	15.4	22.1	-90.41	13.6	-1,728.3	893.3	855.3	38.01	23.500			
8,800.0	8,722.3	8,761.6	8,722.3	15.5	22.1	-90.41	13.6	-1,728.3	893.3	855.2	38.12	23.436			
8,900.0	8,822.3	8,861.6	8,822.3	15.5	22.2	-90.41	13.6	-1,728.3	893.3	855.1	38.22	23.372			
9,000.0	8,922.3	8,961.6	8,922.3	15.6	22.2	-90.41	13.6	-1,728.3	893.3	855.0	38.33	23.308			
9,100.0	9,022.3	9,061.6	9,022.3	15.7	22.3	-90.41	13.6	-1,728.3	893.3	854.9	38.43	23.244			
9,200.0	9,122.3	9,161.6	9,122.3	15.7	22.3	-90.41	13.6	-1,728.3	893.3	854.8	38.54	23.180			
9,300.0	9,222.3	9,261.6	9,222.3	15.8	22.4	-90.41	13.6	-1,728.3	893.3	854.6	38.64	23.117			
9,400.0	9,322.3	9,361.6	9,322.3	15.9	22.4	-90.41	13.6	-1,728.3	893.3	854.5	38.75	23.053			
9,500.0	9,422.3	9,461.6	9,422.3	15.9	22.5	-90.41	13.6	-1,728.3	893.3	854.4	38.86	22.990			
9,600.0	9,522.3	9,561.6	9,522.3	16.0	22.5	-90.41	13.6	-1,728.3	893.3	854.3	38.96	22.927			
9,700.0	9,622.3	9,661.6	9,622.3	16.0	22.6	-90.41	13.6	-1,728.3	893.3	854.2	39.07	22.864			
9,800.0	9,722.3	9,761.6	9,722.3	16.1	22.6	-90.41	13.6	-1,728.3	893.3	854.1	39.18	22.801			
9,900.0	9,822.3	9,861.6	9,822.3	16.2	22.7	-90.41	13.6	-1,728.3	893.3	854.0	39.29	22.738			
10,000.0	9,922.3	9,961.6	9,922.3	16.2	22.7	-90.41	13.6	-1,728.3	893.3	853.9	39.40	22.675			
10,100.0	10,022.3	10,061.6	10,022.3	16.3	22.8	-90.41	13.6	-1,728.3	893.3	853.8	39.50	22.613			
10,200.0	10,122.3	10,161.6	10,122.3	16.4	22.8	-90.41	13.6	-1,728.3	893.3	853.7	39.61	22.550			
10,300.0	10,222.3	10,261.6	10,222.3	16.4	22.9	-90.41	13.6	-1,728.3	893.3	853.6	39.72	22.488			
10,400.0	10,322.3	10,361.6	10,322.3	16.5	22.9	-90.41	13.6	-1,728.3	893.3	853.5	39.83	22.426			
10,500.0	10,422.3	10,461.6	10,422.3	16.6	23.0	-90.41	13.6	-1,728.3	893.3	853.3	39.94	22.364			
10,600.0	10,522.3	10,561.6	10,522.3	16.6	23.0	-90.41	13.6	-1,728.3	893.3	853.2	40.05	22.302			
10,700.0	10,622.3	10,661.6	10,622.3	16.7	23.1	-90.41	13.6	-1,728.3	893.3	853.1	40.17	22.241			
10,800.0	10,722.3	10,761.6	10,722.3	16.8	23.1	-90.41	13.6	-1,728.3	893.3	853.0	40.28	22.179			
10,900.0	10,822.3	10,861.6	10,822.3	16.8	23.2	-90.41	13.6	-1,728.3	893.3	852.9	40.39	22.118			
11,000.0	10,922.3	10,961.6	10,922.3	16.9	23.2	-90.41	13.6	-1,728.3	893.3	852.8	40.50	22.056			
11,100.0	11,022.3	11,061.6	11,022.3	17.0	23.3	-90.41	13.6	-1,728.3	893.3	852.7	40.61	21.995			
11,200.0	11,122.3	11,161.6	11,122.3	17.0	23.3	-90.41	13.6	-1,728.3	893.3	852.6	40.73	21.935			
11,300.0	11,222.3	11,261.6	11,222.3	17.1	23.4	-90.41	13.6	-1,728.3	893.3	852.5	40.84	21.874			
11,400.0	11,322.3	11,361.6	11,322.3	17.2	23.4	-90.41	13.6	-1,728.3	893.3	852.3	40.95	21.813			
11,500.0	11,422.3	11,461.6	11,422.3	17.2	23.5	-90.41	13.6	-1,728.3	893.3	852.2	41.07	21.753			
11,600.0	11,522.3	11,561.6	11,522.3	17.3	23.5	-90.41	13.6	-1,728.3	893.3	852.1	41.18	21.693			
11,700.0	11,622.3	11,661.6	11,622.3	17.4	23.6	-90.41	13.6	-1,728.3	893.3	852.0	41.29	21.633			
11,800.0	11,722.3	11,761.6	11,722.3	17.5	23.6	-90.41	13.6	-1,728.3	893.3	851.9	41.41	21.573			
11,900.0	11,822.3	11,861.6	11,822.3	17.5	23.7	-90.41	13.6	-1,728.3	893.3	851.8	41.52	21.513			
12,000.0	11,922.3	11,961.7	11,922.4	17.6	23.7	-90.43	13.2	-1,728.3	893.3	851.7	41.62	21.465			
12,027.4	11,949.7	11,989.0	11,949.7	17.6	23.7	-90.56	11.3	-1,728.2	893.3	851.7	41.63	21.458 CC			
12,100.0	12,022.3	12,059.7	12,019.2	17.7	23.7	-91.34	-0.8	-1,728.1	893.4	851.7	41.65	21.450			
12,200.0	12,122.3	12,148.7	12,103.0	17.7	23.7	-93.24	-30.5	-1,727.8	894.5	852.8	41.62	21.489			
12,300.0	12,222.3	12,225.0	12,169.4	17.8	23.6	-95.62	-67.9	-1,727.5	898.4	856.8	41.54	21.627			
12,350.2	12,272.5	12,257.7	12,195.9	17.8	23.6	-96.84	-87.1	-1,727.3	902.0	860.5	41.48	21.745			
12,375.0	12,297.3	12,275.0	12,209.3	17.8	23.6	82.79	-98.0	-1,727.2	904.2	862.7	41.44	21.818			
12,400.0	12,322.2	12,288.6	12,219.6	17.8	23.6	82.00	-106.8	-1,727.1	906.6	865.1	41.41	21.890			
12,425.0	12,347.0	12,303.9	12,230.8	17.8	23.6	81.14	-117.2	-1,727.0	909.1	867.7	41.39	21.965			
12,450.0	12,371.6	12,319.0	12,241.7	17.8	23.6	80.29	-127.8	-1,726.9	911.8	870.4	41.37	22.039			
12,475.0	12,395.9	12,334.1	12,252.1	17.8	23.6	79.46	-138.6	-1,726.8	914.6	873.2	41.37	22.111			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,500.0	12,419.8	12,350.0	12,262.8	17.8	23.7	78.60	-150.5	-1,726.7	917.5	876.1	41.36	22.183			
12,525.0	12,443.4	12,363.9	12,271.7	17.8	23.7	77.82	-161.1	-1,726.6	920.5	879.1	41.38	22.246			
12,550.0	12,466.5	12,375.0	12,278.7	17.8	23.7	77.13	-169.7	-1,726.5	923.5	882.1	41.42	22.295			
12,575.0	12,489.1	12,393.4	12,289.7	17.7	23.7	76.25	-184.5	-1,726.3	926.5	885.1	41.43	22.364			
12,600.0	12,511.1	12,408.1	12,298.1	17.7	23.7	75.50	-196.5	-1,726.2	929.5	888.1	41.47	22.415			
12,625.0	12,532.4	12,425.0	12,307.3	17.7	23.7	74.71	-210.7	-1,726.1	932.6	891.1	41.50	22.471			
12,650.0	12,553.0	12,437.2	12,313.6	17.7	23.7	74.07	-221.1	-1,726.0	935.5	894.0	41.58	22.502			
12,675.0	12,572.8	12,450.0	12,320.0	17.7	23.7	73.44	-232.2	-1,725.9	938.5	896.8	41.65	22.531			
12,700.0	12,591.8	12,466.0	12,327.6	17.7	23.7	72.76	-246.4	-1,725.7	941.3	899.6	41.72	22.565			
12,725.0	12,610.0	12,480.4	12,333.9	17.7	23.7	72.15	-259.3	-1,725.6	944.1	902.3	41.80	22.589			
12,750.0	12,627.2	12,494.8	12,339.9	17.7	23.7	71.57	-272.3	-1,725.5	946.8	904.9	41.88	22.606			
12,775.0	12,643.4	12,509.1	12,345.4	17.7	23.7	71.03	-285.5	-1,725.4	949.3	907.3	41.97	22.618			
12,800.0	12,658.7	12,525.0	12,351.1	17.7	23.7	70.50	-300.4	-1,725.2	951.7	909.7	42.05	22.631			
12,825.0	12,672.8	12,537.6	12,355.3	17.7	23.8	70.06	-312.2	-1,725.1	954.0	911.8	42.16	22.627			
12,850.0	12,685.9	12,550.0	12,359.1	17.8	23.8	69.65	-324.1	-1,725.0	956.1	913.9	42.27	22.618			
12,875.0	12,697.8	12,566.0	12,363.5	17.8	23.8	69.23	-339.4	-1,724.8	958.1	915.7	42.36	22.617			
12,900.0	12,708.6	12,575.0	12,365.7	17.8	23.8	68.93	-348.2	-1,724.8	959.9	917.4	42.49	22.589			
12,925.0	12,718.2	12,594.3	12,370.0	17.8	23.8	68.56	-366.9	-1,724.6	961.5	918.9	42.56	22.590			
12,950.0	12,726.5	12,608.4	12,372.7	17.9	23.8	68.28	-380.8	-1,724.4	962.9	920.2	42.66	22.572			
12,975.0	12,733.6	12,625.0	12,375.3	17.9	23.8	68.03	-397.2	-1,724.3	964.1	921.3	42.74	22.557			
13,000.0	12,739.5	12,636.6	12,376.8	17.9	23.9	67.86	-408.8	-1,724.2	965.1	922.2	42.84	22.526			
13,025.0	12,744.1	12,650.0	12,378.1	18.0	23.9	67.71	-422.0	-1,724.0	965.8	922.9	42.93	22.497			
13,050.0	12,747.3	12,664.8	12,379.2	18.0	23.9	67.60	-436.8	-1,723.9	966.4	923.4	43.01	22.469			
13,075.0	12,749.3	12,678.9	12,379.8	18.1	23.9	67.53	-450.9	-1,723.8	966.8	923.7	43.09	22.437			
13,100.0	12,750.0	12,693.9	12,380.0	18.1	23.9	67.50	-465.9	-1,723.6	966.9	923.8	43.15	22.406			
13,100.2	12,750.0	12,694.1	12,380.0	18.1	23.9	67.50	-466.1	-1,723.6	966.9	923.8	43.16	22.405			
13,200.0	12,750.0	12,793.9	12,380.0	18.4	24.1	67.50	-565.9	-1,722.6	966.9	923.6	43.34	22.311			
13,300.0	12,750.0	12,893.9	12,380.0	18.7	24.3	67.50	-665.9	-1,721.7	966.9	923.3	43.59	22.183			
13,400.0	12,750.0	12,993.9	12,380.0	19.0	24.6	67.50	-765.9	-1,720.7	966.9	923.0	43.91	22.023			
13,500.0	12,750.0	13,093.9	12,380.0	19.3	24.9	67.50	-865.9	-1,719.7	966.9	922.6	44.29	21.831			
13,600.0	12,750.0	13,193.9	12,380.0	19.7	25.2	67.50	-965.9	-1,718.7	966.9	922.2	44.74	21.613			
13,700.0	12,750.0	13,293.9	12,380.0	20.0	25.5	67.50	-1,065.9	-1,717.8	967.0	921.7	45.25	21.368			
13,800.0	12,750.0	13,393.9	12,380.0	20.5	25.9	67.50	-1,165.9	-1,716.8	967.0	921.1	45.82	21.102			
13,900.0	12,750.0	13,493.9	12,380.0	20.9	26.3	67.50	-1,265.9	-1,715.8	967.0	920.5	46.45	20.816			
14,000.0	12,750.0	13,593.9	12,380.0	21.4	26.8	67.50	-1,365.9	-1,714.9	967.0	919.8	47.14	20.513			
14,100.0	12,750.0	13,693.9	12,380.0	21.8	27.2	67.50	-1,465.9	-1,713.9	967.0	919.1	47.88	20.196			
14,200.0	12,750.0	13,793.9	12,380.0	22.3	27.7	67.50	-1,565.9	-1,712.9	967.0	918.3	48.67	19.868			
14,300.0	12,750.0	13,893.9	12,380.0	22.9	28.3	67.50	-1,665.9	-1,711.9	967.0	917.5	49.51	19.532			
14,400.0	12,750.0	13,993.9	12,380.0	23.4	28.8	67.50	-1,765.9	-1,711.0	967.0	916.6	50.39	19.189			
14,500.0	12,750.0	14,093.9	12,380.0	23.9	29.4	67.50	-1,865.9	-1,710.0	967.0	915.7	51.32	18.842			
14,600.0	12,750.0	14,193.9	12,380.0	24.5	30.0	67.50	-1,965.9	-1,709.0	967.0	914.7	52.29	18.493			
14,700.0	12,750.0	14,293.9	12,380.0	25.1	30.6	67.50	-2,065.8	-1,708.0	967.0	913.7	53.30	18.143			
14,800.0	12,750.0	14,393.9	12,380.0	25.7	31.2	67.50	-2,165.8	-1,707.1	967.0	912.7	54.35	17.794			
14,900.0	12,750.0	14,493.9	12,380.0	26.3	31.8	67.50	-2,265.8	-1,706.1	967.0	911.6	55.43	17.447			
15,000.0	12,750.0	14,593.9	12,380.0	27.0	32.5	67.50	-2,365.8	-1,705.1	967.0	910.5	56.54	17.104			
15,100.0	12,750.0	14,693.9	12,380.0	27.6	33.2	67.50	-2,465.8	-1,704.2	967.0	909.4	57.68	16.765			
15,200.0	12,750.0	14,793.9	12,380.0	28.2	33.8	67.50	-2,565.8	-1,703.2	967.0	908.2	58.86	16.431			
15,300.0	12,750.0	14,893.9	12,380.0	28.9	34.5	67.51	-2,665.8	-1,702.2	967.1	907.0	60.06	16.103			
15,400.0	12,750.0	14,993.9	12,380.0	29.6	35.3	67.51	-2,765.8	-1,701.2	967.1	905.8	61.28	15.781			
15,500.0	12,750.0	15,093.9	12,380.0	30.3	36.0	67.51	-2,865.8	-1,700.3	967.1	904.5	62.53	15.465			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
15,600.0	12,750.0	15,193.9	12,380.0	31.0	36.7	67.51	-2,965.8	-1,699.3	967.1	903.3	63.80	15.157			
15,700.0	12,750.0	15,293.9	12,380.0	31.6	37.5	67.51	-3,065.8	-1,698.3	967.1	902.0	65.10	14.856			
15,800.0	12,750.0	15,393.9	12,380.0	32.4	38.2	67.51	-3,165.8	-1,697.3	967.1	900.7	66.41	14.562			
15,900.0	12,750.0	15,493.9	12,380.0	33.1	39.0	67.51	-3,265.8	-1,696.4	967.1	899.3	67.74	14.276			
16,000.0	12,750.0	15,593.9	12,380.0	33.8	39.8	67.51	-3,365.8	-1,695.4	967.1	898.0	69.10	13.997			
16,100.0	12,750.0	15,693.9	12,380.0	34.5	40.5	67.51	-3,465.8	-1,694.4	967.1	896.6	70.46	13.725			
16,200.0	12,750.0	15,793.9	12,380.0	35.2	41.3	67.51	-3,565.8	-1,693.5	967.1	895.3	71.85	13.461			
16,300.0	12,750.0	15,893.9	12,380.0	36.0	42.1	67.51	-3,665.8	-1,692.5	967.1	893.9	73.24	13.204			
16,400.0	12,750.0	15,993.9	12,380.0	36.7	42.9	67.51	-3,765.8	-1,691.5	967.1	892.5	74.66	12.954			
16,500.0	12,750.0	16,093.9	12,380.0	37.5	43.7	67.51	-3,865.8	-1,690.5	967.1	891.0	76.08	12.712			
16,600.0	12,750.0	16,193.9	12,380.0	38.2	44.5	67.51	-3,965.8	-1,689.6	967.1	889.6	77.52	12.476			
16,700.0	12,750.0	16,293.9	12,380.0	39.0	45.4	67.51	-4,065.8	-1,688.6	967.1	888.2	78.97	12.247			
16,800.0	12,750.0	16,393.9	12,380.0	39.7	46.2	67.51	-4,165.7	-1,687.6	967.2	886.7	80.43	12.024			
16,900.0	12,750.0	16,493.9	12,380.0	40.5	47.0	67.51	-4,265.7	-1,686.7	967.2	885.3	81.91	11.808			
17,000.0	12,750.0	16,593.9	12,380.0	41.3	47.9	67.51	-4,365.7	-1,685.7	967.2	883.8	83.39	11.598			
17,100.0	12,750.0	16,693.9	12,380.0	42.0	48.7	67.51	-4,465.7	-1,684.7	967.2	882.3	84.88	11.395			
17,200.0	12,750.0	16,793.9	12,380.0	42.8	49.6	67.51	-4,565.7	-1,683.7	967.2	880.8	86.38	11.197			
17,300.0	12,750.0	16,893.9	12,380.0	43.6	50.4	67.51	-4,665.7	-1,682.8	967.2	879.3	87.89	11.005			
17,400.0	12,750.0	16,993.9	12,380.0	44.4	51.3	67.51	-4,765.7	-1,681.8	967.2	877.8	89.41	10.818			
17,500.0	12,750.0	17,093.9	12,380.0	45.2	52.1	67.51	-4,865.7	-1,680.8	967.2	876.3	90.93	10.637			
17,600.0	12,750.0	17,193.9	12,380.0	45.9	53.0	67.51	-4,965.7	-1,679.8	967.2	874.7	92.46	10.460			
17,700.0	12,750.0	17,293.9	12,380.0	46.7	53.8	67.51	-5,065.7	-1,678.9	967.2	873.2	94.00	10.289			
17,800.0	12,750.0	17,393.9	12,380.0	47.5	54.7	67.51	-5,165.7	-1,677.9	967.2	871.7	95.55	10.123			
17,900.0	12,750.0	17,493.9	12,380.0	48.3	55.6	67.51	-5,265.7	-1,676.9	967.2	870.1	97.10	9.961			
18,000.0	12,750.0	17,593.9	12,380.0	49.1	56.5	67.51	-5,365.7	-1,676.0	967.2	868.6	98.66	9.804			
18,100.0	12,750.0	17,693.9	12,380.0	49.9	57.3	67.51	-5,465.7	-1,675.0	967.2	867.0	100.22	9.651			
18,200.0	12,750.0	17,793.9	12,380.0	50.7	58.2	67.51	-5,565.7	-1,674.0	967.2	865.4	101.79	9.502			
18,300.0	12,750.0	17,893.9	12,380.0	51.5	59.1	67.51	-5,665.7	-1,673.0	967.2	863.9	103.37	9.357			
18,400.0	12,750.0	17,993.9	12,380.0	52.3	60.0	67.51	-5,765.7	-1,672.1	967.3	862.3	104.95	9.217			
18,500.0	12,750.0	18,093.9	12,380.0	53.1	60.9	67.51	-5,865.7	-1,671.1	967.3	860.7	106.53	9.080			
18,600.0	12,750.0	18,193.9	12,380.0	53.9	61.8	67.51	-5,965.7	-1,670.1	967.3	859.1	108.12	8.946			
18,700.0	12,750.0	18,293.9	12,380.0	54.7	62.6	67.51	-6,065.7	-1,669.1	967.3	857.6	109.71	8.816			
18,800.0	12,750.0	18,393.9	12,380.0	55.5	63.5	67.51	-6,165.7	-1,668.2	967.3	856.0	111.31	8.690			
18,900.0	12,750.0	18,493.9	12,380.0	56.3	64.4	67.51	-6,265.6	-1,667.2	967.3	854.4	112.91	8.567			
19,000.0	12,750.0	18,593.9	12,380.0	57.2	65.3	67.51	-6,365.6	-1,666.2	967.3	852.8	114.52	8.447			
19,100.0	12,750.0	18,693.9	12,380.0	58.0	66.2	67.51	-6,465.6	-1,665.3	967.3	851.2	116.13	8.330			
19,200.0	12,750.0	18,793.9	12,380.0	58.8	67.1	67.51	-6,565.6	-1,664.3	967.3	849.6	117.74	8.216			
19,300.0	12,750.0	18,893.9	12,380.0	59.6	68.0	67.51	-6,665.6	-1,663.3	967.3	848.0	119.36	8.104			
19,400.0	12,750.0	18,993.9	12,380.0	60.4	68.9	67.51	-6,765.6	-1,662.3	967.3	846.3	120.97	7.996			
19,500.0	12,750.0	19,093.9	12,380.0	61.2	69.9	67.51	-6,865.6	-1,661.4	967.3	844.7	122.60	7.890			
19,600.0	12,750.0	19,193.9	12,380.0	62.1	70.8	67.51	-6,965.6	-1,660.4	967.3	843.1	124.22	7.787			
19,700.0	12,750.0	19,293.9	12,380.0	62.9	71.7	67.51	-7,065.6	-1,659.4	967.3	841.5	125.85	7.686			
19,800.0	12,750.0	19,393.9	12,380.0	63.7	72.6	67.51	-7,165.6	-1,658.4	967.3	839.9	127.48	7.588			
19,900.0	12,750.0	19,493.9	12,380.0	64.5	73.5	67.51	-7,265.6	-1,657.5	967.3	838.2	129.11	7.492			
20,000.0	12,750.0	19,593.9	12,380.0	65.4	74.4	67.51	-7,365.6	-1,656.5	967.4	836.6	130.75	7.398			
20,100.0	12,750.0	19,693.9	12,380.0	66.2	75.3	67.51	-7,465.6	-1,655.5	967.4	835.0	132.39	7.307			
20,200.0	12,750.0	19,793.9	12,380.0	67.0	76.2	67.51	-7,565.6	-1,654.6	967.4	833.3	134.03	7.218			
20,300.0	12,750.0	19,893.9	12,380.0	67.8	77.2	67.51	-7,665.6	-1,653.6	967.4	831.7	135.67	7.130			
20,400.0	12,750.0	19,993.9	12,380.0	68.7	78.1	67.51	-7,765.6	-1,652.6	967.4	830.1	137.32	7.045			
20,500.0	12,750.0	20,093.9	12,380.0	69.5	79.0	67.51	-7,865.6	-1,651.6	967.4	828.4	138.97	6.961			
20,600.0	12,750.0	20,193.9	12,380.0	70.3	79.9	67.51	-7,965.6	-1,650.7	967.4	826.8	140.62	6.880			

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,700.0	12,750.0	20,293.9	12,380.0	71.1	80.8	67.51	-8,065.6	-1,649.7	967.4	825.1	142.27	6.800	
20,704.9	12,750.0	20,298.9	12,380.0	71.2	80.9	67.51	-8,070.5	-1,649.6	967.4	825.1	142.35	6.796	
20,800.0	12,750.0	20,378.9	12,380.0	72.0	81.6	67.51	-8,150.5	-1,648.9	967.5	823.7	143.84	6.726 ES, SF	
20,900.0	12,750.0	20,378.9	12,380.0	72.8	81.6	67.51	-8,150.5	-1,648.9	974.2	829.9	144.30	6.752	
21,000.0	12,750.0	20,378.9	12,380.0	73.6	81.6	67.51	-8,150.5	-1,648.9	991.0	847.5	143.55	6.904	

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 804H - Slot BOATER FED COM 804H
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 804H	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
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		
2,100.0	2,100.0	2,101.1	2,101.0	5.8	5.8	178.05	0.3	28.2	30.0	18.1	11.89	2.522	Normal Operations		
2,200.0	2,199.8	2,202.1	2,201.9	6.0	6.0	177.51	0.8	22.9	29.9	17.6	12.31	2.433	Caution - Monitor Closely		
2,300.0	2,299.5	2,303.2	2,302.6	6.2	6.3	176.61	1.4	14.0	29.9	17.2	12.74	2.347	Caution - Monitor Closely		
2,400.0	2,398.7	2,404.2	2,402.9	6.4	6.5	175.35	2.4	1.6	29.8	16.7	13.17	2.266	Caution - Monitor Closely		
2,478.0	2,475.8	2,483.0	2,480.7	6.6	6.7	174.11	3.3	-10.5	29.8	16.3	13.46	2.212	Caution - Monitor Closely, CC, ES		
2,500.0	2,497.5	2,505.0	2,502.4	6.6	6.7	173.75	3.6	-14.2	29.9	16.3	13.54	2.206	Caution - Monitor Closely, SF		
2,570.0	2,566.3	2,575.0	2,571.4	6.7	6.9	172.89	4.5	-25.8	31.3	17.5	13.80	2.265	Caution - Monitor Closely		
2,600.0	2,595.7	2,605.0	2,601.0	6.7	7.0	172.63	4.9	-30.8	32.2	18.3	13.89	2.319	Caution - Monitor Closely		
2,700.0	2,693.7	2,704.9	2,699.5	6.9	7.3	171.87	6.1	-47.5	35.4	21.1	14.28	2.481	Caution - Monitor Closely		
2,800.0	2,791.7	2,804.9	2,798.0	7.0	7.5	171.24	7.4	-64.2	38.6	23.9	14.69	2.630	Normal Operations		
2,900.0	2,889.7	2,904.8	2,896.6	7.1	7.8	170.70	8.7	-80.8	41.9	26.7	15.12	2.767	Normal Operations		
3,000.0	2,987.8	3,004.7	2,995.1	7.3	8.1	170.24	10.0	-97.5	45.1	29.5	15.57	2.894	Normal Operations		
3,100.0	3,085.8	3,104.7	3,093.7	7.4	8.4	169.85	11.2	-114.2	48.3	32.3	16.04	3.011			
3,200.0	3,183.8	3,204.6	3,192.2	7.6	8.8	169.50	12.5	-130.8	51.5	35.0	16.52	3.118			
3,300.0	3,281.8	3,304.6	3,290.7	7.7	9.1	169.19	13.8	-147.5	54.7	37.7	17.02	3.217			
3,400.0	3,379.9	3,404.5	3,389.3	7.9	9.5	168.92	15.1	-164.2	58.0	40.4	17.53	3.307			
3,500.0	3,477.9	3,504.5	3,487.8	8.1	9.8	168.67	16.4	-180.8	61.2	43.2	18.05	3.391			
3,600.0	3,575.9	3,603.9	3,585.9	8.2	10.1	168.49	17.6	-197.2	64.6	46.1	18.54	3.484			
3,700.0	3,674.0	3,702.7	3,683.5	8.4	10.5	168.63	18.7	-212.1	69.4	50.3	19.09	3.637			
3,800.0	3,772.0	3,801.3	3,781.2	8.6	10.9	169.07	19.8	-225.3	75.9	56.3	19.64	3.865			
3,900.0	3,870.0	3,900.0	3,879.3	8.7	11.2	169.71	20.6	-236.8	84.1	63.9	20.19	4.164			
4,000.0	3,968.0	3,997.6	3,976.4	8.9	11.5	170.46	21.4	-246.5	93.9	73.2	20.73	4.530			
4,100.0	4,066.1	4,095.3	4,073.7	9.1	11.9	171.26	22.0	-254.6	105.4	84.2	21.25	4.960			
4,200.0	4,164.1	4,192.6	4,170.8	9.3	12.2	172.05	22.5	-261.0	118.6	96.8	21.76	5.450			
4,300.0	4,262.1	4,289.3	4,267.4	9.4	12.5	172.82	22.8	-265.7	133.4	111.2	22.24	5.999			
4,400.0	4,360.1	4,385.6	4,363.7	9.6	12.8	173.53	23.1	-268.8	149.9	127.3	22.70	6.607			
4,500.0	4,458.2	4,481.3	4,459.3	9.8	13.0	174.19	23.2	-270.3	168.1	145.0	23.09	7.280			
4,600.0	4,556.2	4,578.2	4,556.2	10.0	13.1	174.78	23.2	-270.4	187.6	164.3	23.35	8.036			
4,700.0	4,654.2	4,676.2	4,654.2	10.2	13.2	175.28	23.2	-270.4	207.3	183.8	23.59	8.791			
4,800.0	4,752.2	4,774.2	4,752.2	10.3	13.2	175.69	23.2	-270.4	227.0	203.2	23.83	9.530			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
4,900.0	4,850.3	4,872.2	4,850.3	10.5	13.3	176.03	23.2	-270.4	246.8	222.7	24.06	10.254			
5,000.0	4,948.3	4,970.3	4,948.3	10.7	13.4	176.33	23.2	-270.4	266.5	242.2	24.30	10.965			
5,100.0	5,046.3	5,068.3	5,046.3	10.9	13.4	176.58	23.2	-270.4	286.2	261.7	24.55	11.661			
5,200.0	5,144.4	5,166.3	5,144.4	11.1	13.5	176.80	23.2	-270.4	306.0	281.2	24.79	12.343			
5,300.0	5,242.4	5,264.3	5,242.4	11.3	13.6	177.00	23.2	-270.4	325.7	300.7	25.03	13.011			
5,400.0	5,340.4	5,362.4	5,340.4	11.5	13.6	177.17	23.2	-270.4	345.4	320.2	25.28	13.666			
5,500.0	5,438.4	5,460.4	5,438.4	11.7	13.7	177.32	23.2	-270.4	365.2	339.7	25.52	14.308			
5,600.0	5,536.5	5,558.4	5,536.5	11.9	13.8	177.46	23.2	-270.4	384.9	359.2	25.77	14.937			
5,700.0	5,634.5	5,656.5	5,634.5	12.1	13.8	177.58	23.2	-270.4	404.7	378.7	26.02	15.553			
5,800.0	5,732.5	5,754.5	5,732.5	12.3	13.9	177.70	23.2	-270.4	424.4	398.2	26.27	16.156			
5,900.0	5,830.5	5,852.5	5,830.5	12.4	14.0	177.80	23.2	-270.4	444.2	417.7	26.52	16.747			
5,937.7	5,867.5	5,889.4	5,867.5	12.5	14.0	177.83	23.2	-270.4	451.6	425.0	26.60	16.975			
6,000.0	5,928.6	5,950.6	5,928.6	12.6	14.0	177.90	23.2	-270.4	463.6	436.8	26.75	17.333			
6,100.0	6,027.0	6,049.0	6,027.0	12.8	14.1	177.98	23.2	-270.4	481.4	454.4	27.00	17.832			
6,200.0	6,125.7	6,147.7	6,125.7	13.0	14.2	178.05	23.2	-270.4	497.5	470.3	27.25	18.260			
6,300.0	6,224.7	6,246.6	6,224.7	13.2	14.2	178.11	23.2	-270.4	511.9	484.4	27.49	18.619			
6,400.0	6,323.9	6,345.8	6,323.9	13.4	14.3	178.16	23.2	-270.4	524.6	496.8	27.74	18.911			
6,500.0	6,423.3	6,445.2	6,423.3	13.5	14.4	178.20	23.2	-270.4	535.5	507.5	27.98	19.139			
6,600.0	6,522.8	6,544.8	6,522.8	13.7	14.5	178.23	23.2	-270.4	544.7	516.5	28.22	19.304			
6,700.0	6,622.6	6,644.5	6,622.6	13.9	14.5	178.26	23.2	-270.4	552.2	523.7	28.45	19.409			
6,800.0	6,722.4	6,744.4	6,722.4	14.0	14.6	178.28	23.2	-270.4	557.9	529.2	28.67	19.455			
6,900.0	6,822.3	6,844.3	6,822.3	14.2	14.7	178.29	23.2	-270.4	561.8	533.0	28.89	19.446			
7,000.0	6,922.3	6,944.3	6,922.3	14.3	14.7	178.30	23.2	-270.4	564.1	535.0	29.10	19.385			
7,077.7	7,000.0	7,022.0	7,000.0	14.4	14.8	89.67	23.2	-270.4	564.6	535.4	29.21	19.326			
7,100.0	7,022.3	7,044.3	7,022.3	14.4	14.8	89.67	23.2	-270.4	564.6	535.4	29.23	19.313			
7,200.0	7,122.3	7,144.3	7,122.3	14.5	14.9	89.67	23.2	-270.4	564.6	535.2	29.37	19.223			
7,300.0	7,222.3	7,244.3	7,222.3	14.5	14.9	89.67	23.2	-270.4	564.6	535.1	29.50	19.139			
7,400.0	7,322.3	7,344.3	7,322.3	14.6	15.0	89.67	23.2	-270.4	564.6	535.0	29.63	19.054			
7,500.0	7,422.3	7,444.3	7,422.3	14.7	15.1	89.67	23.2	-270.4	564.6	534.8	29.76	18.970			
7,600.0	7,522.3	7,544.3	7,522.3	14.7	15.2	89.67	23.2	-270.4	564.6	534.7	29.89	18.887			
7,700.0	7,622.3	7,644.3	7,622.3	14.8	15.2	89.67	23.2	-270.4	564.6	534.6	30.03	18.804			
7,800.0	7,722.3	7,744.3	7,722.3	14.8	15.3	89.67	23.2	-270.4	564.6	534.4	30.16	18.722			
7,900.0	7,822.3	7,844.3	7,822.3	14.9	15.4	89.67	23.2	-270.4	564.6	534.3	30.29	18.640			
8,000.0	7,922.3	7,944.3	7,922.3	15.0	15.4	89.67	23.2	-270.4	564.6	534.2	30.42	18.559			
8,100.0	8,022.3	8,044.3	8,022.3	15.0	15.5	89.67	23.2	-270.4	564.6	534.0	30.55	18.479			
8,200.0	8,122.3	8,144.3	8,122.3	15.1	15.6	89.67	23.2	-270.4	564.6	533.9	30.69	18.398			
8,300.0	8,222.3	8,244.3	8,222.3	15.1	15.7	89.67	23.2	-270.4	564.6	533.8	30.82	18.319			
8,400.0	8,322.3	8,344.3	8,322.3	15.2	15.7	89.67	23.2	-270.4	564.6	533.6	30.95	18.240			
8,500.0	8,422.3	8,444.3	8,422.3	15.3	15.8	89.67	23.2	-270.4	564.6	533.5	31.09	18.161			
8,600.0	8,522.3	8,544.3	8,522.3	15.3	15.9	89.67	23.2	-270.4	564.6	533.4	31.22	18.083			
8,700.0	8,622.3	8,644.3	8,622.3	15.4	15.9	89.67	23.2	-270.4	564.6	533.2	31.36	18.006			
8,800.0	8,722.3	8,744.3	8,722.3	15.5	16.0	89.67	23.2	-270.4	564.6	533.1	31.49	17.929			
8,900.0	8,822.3	8,844.3	8,822.3	15.5	16.1	89.67	23.2	-270.4	564.6	533.0	31.63	17.853			
9,000.0	8,922.3	8,944.3	8,922.3	15.6	16.2	89.67	23.2	-270.4	564.6	532.8	31.76	17.777			
9,100.0	9,022.3	9,044.3	9,022.3	15.7	16.2	89.67	23.2	-270.4	564.6	532.7	31.90	17.701			
9,200.0	9,122.3	9,144.3	9,122.3	15.7	16.3	89.67	23.2	-270.4	564.6	532.6	32.03	17.626			
9,300.0	9,222.3	9,244.3	9,222.3	15.8	16.4	89.67	23.2	-270.4	564.6	532.4	32.17	17.552			
9,400.0	9,322.3	9,344.3	9,322.3	15.9	16.5	89.67	23.2	-270.4	564.6	532.3	32.30	17.478			
9,500.0	9,422.3	9,444.3	9,422.3	15.9	16.5	89.67	23.2	-270.4	564.6	532.2	32.44	17.405			
9,600.0	9,522.3	9,544.3	9,522.3	16.0	16.6	89.67	23.2	-270.4	564.6	532.0	32.58	17.332			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
9,700.0	9,622.3	9,644.3	9,622.3	16.0	16.7	89.67	23.2	-270.4	564.6	531.9	32.71	17.259			
9,800.0	9,722.3	9,744.3	9,722.3	16.1	16.7	89.67	23.2	-270.4	564.6	531.8	32.85	17.188			
9,900.0	9,822.3	9,844.3	9,822.3	16.2	16.8	89.67	23.2	-270.4	564.6	531.6	32.99	17.116			
10,000.0	9,922.3	9,944.3	9,922.3	16.2	16.9	89.67	23.2	-270.4	564.6	531.5	33.12	17.045			
10,100.0	10,022.3	10,044.3	10,022.3	16.3	17.0	89.67	23.2	-270.4	564.6	531.3	33.26	16.975			
10,200.0	10,122.3	10,144.3	10,122.3	16.4	17.0	89.67	23.2	-270.4	564.6	531.2	33.40	16.905			
10,300.0	10,222.3	10,244.3	10,222.3	16.4	17.1	89.67	23.2	-270.4	564.6	531.1	33.54	16.835			
10,400.0	10,322.3	10,344.3	10,322.3	16.5	17.2	89.67	23.2	-270.4	564.6	530.9	33.68	16.766			
10,500.0	10,422.3	10,444.3	10,422.3	16.6	17.3	89.67	23.2	-270.4	564.6	530.8	33.81	16.697			
10,600.0	10,522.3	10,544.3	10,522.3	16.6	17.3	89.67	23.2	-270.4	564.6	530.6	33.95	16.629			
10,700.0	10,622.3	10,644.3	10,622.3	16.7	17.4	89.67	23.2	-270.4	564.6	530.5	34.09	16.561			
10,800.0	10,722.3	10,744.3	10,722.3	16.8	17.5	89.67	23.2	-270.4	564.6	530.4	34.23	16.494			
10,900.0	10,822.3	10,844.3	10,822.3	16.8	17.6	89.67	23.2	-270.4	564.6	530.2	34.37	16.427			
11,000.0	10,922.3	10,944.3	10,922.3	16.9	17.6	89.67	23.2	-270.4	564.6	530.1	34.51	16.361			
11,100.0	11,022.3	11,044.3	11,022.3	17.0	17.7	89.67	23.2	-270.4	564.6	530.0	34.65	16.295			
11,200.0	11,122.3	11,144.3	11,122.3	17.0	17.8	89.67	23.2	-270.4	564.6	529.8	34.79	16.230			
11,300.0	11,222.3	11,244.3	11,222.3	17.1	17.9	89.67	23.2	-270.4	564.6	529.7	34.93	16.165			
11,400.0	11,322.3	11,344.3	11,322.3	17.2	17.9	89.67	23.2	-270.4	564.6	529.5	35.07	16.100			
11,500.0	11,422.3	11,444.3	11,422.3	17.2	18.0	89.67	23.2	-270.4	564.6	529.4	35.21	16.036			
11,600.0	11,522.3	11,544.3	11,522.3	17.3	18.1	89.67	23.2	-270.4	564.6	529.3	35.35	15.972			
11,700.0	11,622.3	11,644.3	11,622.3	17.4	18.1	89.67	23.2	-270.4	564.6	529.1	35.49	15.909			
11,800.0	11,722.3	11,744.3	11,722.3	17.5	18.2	89.67	23.2	-270.4	564.6	529.0	35.63	15.846			
11,900.0	11,822.3	11,844.3	11,822.3	17.5	18.3	89.67	23.2	-270.4	564.6	528.8	35.77	15.784			
11,909.3	11,831.6	11,853.5	11,831.6	17.5	18.3	89.67	23.2	-270.4	564.6	528.8	35.78	15.778			
12,000.0	11,922.3	11,944.2	11,922.2	17.6	18.3	89.72	22.8	-270.4	564.6	528.7	35.89	15.731			
12,100.0	12,022.3	12,041.4	12,018.2	17.7	18.3	91.12	9.0	-270.3	564.8	528.9	35.94	15.718			
12,200.0	12,122.3	12,129.7	12,101.5	17.7	18.3	94.07	-20.2	-270.0	566.8	530.8	35.98	15.753			
12,300.0	12,222.3	12,205.3	12,167.4	17.8	18.2	97.76	-57.0	-269.7	573.2	537.1	36.11	15.871			
12,350.2	12,272.5	12,238.3	12,194.2	17.8	18.2	99.66	-76.2	-269.5	579.0	542.7	36.26	15.965			
12,375.0	12,297.3	12,253.7	12,206.2	17.8	18.2	-78.46	-85.8	-269.4	582.5	546.1	36.36	16.018			
12,400.0	12,322.2	12,269.0	12,217.9	17.8	18.2	-77.13	-95.8	-269.3	586.2	549.8	36.47	16.073			
12,425.0	12,347.0	12,284.3	12,229.2	17.8	18.2	-75.82	-106.1	-269.2	590.2	553.6	36.61	16.123			
12,450.0	12,371.6	12,300.0	12,240.5	17.8	18.2	-74.51	-117.0	-269.1	594.4	557.7	36.76	16.171			
12,475.0	12,395.9	12,314.5	12,250.6	17.8	18.2	-73.27	-127.4	-269.0	598.7	561.8	36.94	16.207			
12,500.0	12,419.8	12,329.4	12,260.6	17.8	18.2	-72.04	-138.5	-268.9	603.2	566.0	37.14	16.240			
12,525.0	12,443.4	12,344.3	12,270.3	17.8	18.2	-70.84	-149.7	-268.8	607.7	570.3	37.36	16.265			
12,550.0	12,466.5	12,359.0	12,279.5	17.8	18.2	-69.68	-161.3	-268.7	612.2	574.6	37.60	16.285			
12,575.0	12,489.1	12,375.0	12,289.1	17.7	18.2	-68.51	-174.0	-268.6	616.8	579.0	37.82	16.307			
12,600.0	12,511.1	12,388.4	12,296.8	17.7	18.2	-67.48	-185.0	-268.5	621.3	583.2	38.11	16.304			
12,625.0	12,532.4	12,400.0	12,303.2	17.7	18.3	-66.55	-194.6	-268.4	625.8	587.4	38.43	16.285			
12,650.0	12,553.0	12,417.4	12,312.4	17.7	18.3	-65.46	-209.4	-268.2	630.2	591.6	38.66	16.302			
12,675.0	12,572.8	12,431.9	12,319.7	17.7	18.3	-64.52	-222.0	-268.1	634.6	595.6	38.95	16.293			
12,700.0	12,591.8	12,450.0	12,328.2	17.7	18.3	-63.52	-238.0	-268.0	638.8	599.6	39.17	16.306			
12,725.0	12,610.0	12,460.7	12,332.9	17.7	18.3	-62.79	-247.5	-267.9	642.8	603.3	39.52	16.265			
12,750.0	12,627.2	12,475.0	12,338.9	17.7	18.3	-62.01	-260.5	-267.8	646.7	606.9	39.80	16.246			
12,775.0	12,643.4	12,489.3	12,344.5	17.7	18.3	-61.28	-273.7	-267.6	650.3	610.3	40.08	16.225			
12,800.0	12,658.7	12,500.0	12,348.4	17.7	18.3	-60.68	-283.6	-267.6	653.8	613.4	40.40	16.183			
12,825.0	12,672.8	12,517.8	12,354.5	17.7	18.3	-59.98	-300.4	-267.4	657.1	616.5	40.61	16.179			
12,850.0	12,685.9	12,532.0	12,358.9	17.8	18.4	-59.41	-313.9	-267.3	660.1	619.2	40.86	16.154			
12,875.0	12,697.8	12,550.0	12,363.8	17.8	18.4	-58.84	-331.2	-267.1	662.9	621.8	41.05	16.147			
12,900.0	12,708.6	12,560.3	12,366.4	17.8	18.4	-58.44	-341.2	-267.0	665.3	624.0	41.31	16.104			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
12,925.0	12,718.2	12,575.0	12,369.6	17.8	18.4	-58.04	-355.5	-266.9	667.6	626.1	41.51	16.082			
12,950.0	12,726.5	12,588.6	12,372.3	17.9	18.4	-57.69	-368.8	-266.8	669.5	627.8	41.70	16.055			
12,975.0	12,733.6	12,600.0	12,374.2	17.9	18.4	-57.42	-380.1	-266.7	671.2	629.3	41.88	16.024			
13,000.0	12,739.5	12,616.8	12,376.5	17.9	18.5	-57.16	-396.7	-266.5	672.5	630.5	42.01	16.010			
13,025.0	12,744.1	12,630.9	12,378.0	18.0	18.5	-56.98	-410.8	-266.4	673.6	631.4	42.13	15.989			
13,050.0	12,747.3	12,650.0	12,379.3	18.0	18.5	-56.83	-429.8	-266.2	674.3	632.1	42.20	15.979			
13,075.0	12,749.3	12,659.1	12,379.7	18.1	18.5	-56.77	-438.9	-266.1	674.7	632.4	42.30	15.951			
13,100.0	12,750.0	12,674.5	12,380.0	18.1	18.5	-56.75	-454.2	-266.0	674.8	632.5	42.35	15.936			
13,100.2	12,750.0	12,674.5	12,380.0	18.1	18.5	-56.75	-454.2	-266.0	674.8	632.5	42.35	15.936			
13,142.1	12,750.0	12,714.3	12,380.0	18.2	18.6	-56.75	-494.1	-265.6	674.8	632.4	42.39	15.919			
13,200.0	12,750.0	12,772.2	12,380.0	18.4	18.7	-56.75	-552.0	-265.1	674.8	632.3	42.45	15.896			
13,300.0	12,750.0	12,872.2	12,380.0	18.7	19.0	-56.75	-652.0	-264.1	674.8	632.1	42.61	15.835			
13,400.0	12,750.0	12,972.2	12,380.0	19.0	19.3	-56.74	-752.0	-263.2	674.7	631.9	42.84	15.751			
13,500.0	12,750.0	13,072.2	12,380.0	19.3	19.6	-56.74	-852.0	-262.3	674.7	631.5	43.13	15.644			
13,600.0	12,750.0	13,172.2	12,380.0	19.7	20.0	-56.74	-952.0	-261.3	674.6	631.2	43.48	15.517			
13,700.0	12,750.0	13,272.2	12,380.0	20.0	20.5	-56.74	-1,052.0	-260.4	674.6	630.7	43.89	15.371			
13,800.0	12,750.0	13,372.2	12,380.0	20.5	20.9	-56.74	-1,152.0	-259.5	674.5	630.2	44.36	15.207			
13,900.0	12,750.0	13,472.2	12,380.0	20.9	21.4	-56.73	-1,251.9	-258.5	674.5	629.6	44.89	15.027			
14,000.0	12,750.0	13,572.2	12,380.0	21.4	21.9	-56.73	-1,351.9	-257.6	674.5	629.0	45.47	14.834			
14,100.0	12,750.0	13,672.2	12,380.0	21.8	22.5	-56.73	-1,451.9	-256.7	674.4	628.3	46.10	14.629			
14,200.0	12,750.0	13,772.2	12,380.0	22.3	23.1	-56.73	-1,551.9	-255.8	674.4	627.6	46.79	14.413			
14,300.0	12,750.0	13,872.2	12,380.0	22.9	23.7	-56.72	-1,651.9	-254.8	674.3	626.8	47.52	14.190			
14,400.0	12,750.0	13,972.2	12,380.0	23.4	24.3	-56.72	-1,751.9	-253.9	674.3	626.0	48.30	13.959			
14,500.0	12,750.0	14,072.2	12,380.0	23.9	25.0	-56.72	-1,851.9	-253.0	674.3	625.1	49.13	13.724			
14,600.0	12,750.0	14,172.2	12,380.0	24.5	25.7	-56.72	-1,951.9	-252.0	674.2	624.2	50.00	13.486			
14,700.0	12,750.0	14,272.2	12,380.0	25.1	26.4	-56.71	-2,051.9	-251.1	674.2	623.3	50.90	13.245			
14,800.0	12,750.0	14,372.2	12,380.0	25.7	27.1	-56.71	-2,151.9	-250.2	674.1	622.3	51.85	13.003			
14,900.0	12,750.0	14,472.2	12,380.0	26.3	27.8	-56.71	-2,251.9	-249.2	674.1	621.3	52.83	12.761			
15,000.0	12,750.0	14,572.2	12,380.0	27.0	28.5	-56.71	-2,351.9	-248.3	674.1	620.2	53.84	12.520			
15,100.0	12,750.0	14,672.2	12,380.0	27.6	29.3	-56.71	-2,451.9	-247.4	674.0	619.1	54.88	12.281			
15,200.0	12,750.0	14,772.2	12,380.0	28.2	30.0	-56.70	-2,551.9	-246.4	674.0	618.0	55.96	12.044			
15,300.0	12,750.0	14,872.2	12,380.0	28.9	30.8	-56.70	-2,651.9	-245.5	673.9	616.9	57.06	11.811			
15,400.0	12,750.0	14,972.2	12,380.0	29.6	31.6	-56.70	-2,751.9	-244.6	673.9	615.7	58.19	11.581			
15,500.0	12,750.0	15,072.2	12,380.0	30.3	32.4	-56.70	-2,851.9	-243.7	673.9	614.5	59.34	11.355			
15,600.0	12,750.0	15,172.2	12,380.0	31.0	33.2	-56.69	-2,951.9	-242.7	673.8	613.3	60.52	11.133			
15,700.0	12,750.0	15,272.2	12,380.0	31.6	34.0	-56.69	-3,051.9	-241.8	673.8	612.0	61.72	10.916			
15,800.0	12,750.0	15,372.2	12,380.0	32.4	34.8	-56.69	-3,151.9	-240.9	673.7	610.8	62.94	10.704			
15,900.0	12,750.0	15,472.2	12,380.0	33.1	35.7	-56.69	-3,251.9	-239.9	673.7	609.5	64.18	10.496			
16,000.0	12,750.0	15,572.2	12,380.0	33.8	36.5	-56.69	-3,351.9	-239.0	673.6	608.2	65.44	10.294			
16,100.0	12,750.0	15,672.2	12,380.0	34.5	37.3	-56.68	-3,451.9	-238.1	673.6	606.9	66.72	10.096			
16,200.0	12,750.0	15,772.2	12,380.0	35.2	38.2	-56.68	-3,551.9	-237.1	673.6	605.6	68.01	9.903			
16,300.0	12,750.0	15,872.2	12,380.0	36.0	39.0	-56.68	-3,651.8	-236.2	673.5	604.2	69.32	9.716			
16,400.0	12,750.0	15,972.2	12,380.0	36.7	39.9	-56.68	-3,751.8	-235.3	673.5	602.8	70.65	9.533			
16,500.0	12,750.0	16,072.2	12,380.0	37.5	40.8	-56.67	-3,851.8	-234.3	673.4	601.5	71.98	9.355			
16,600.0	12,750.0	16,172.2	12,380.0	38.2	41.6	-56.67	-3,951.8	-233.4	673.4	600.1	73.33	9.183			
16,700.0	12,750.0	16,272.2	12,380.0	39.0	42.5	-56.67	-4,051.8	-232.5	673.4	598.7	74.70	9.014			
16,800.0	12,750.0	16,372.2	12,380.0	39.7	43.4	-56.67	-4,151.8	-231.6	673.3	597.2	76.07	8.851			
16,900.0	12,750.0	16,472.2	12,380.0	40.5	44.2	-56.66	-4,251.8	-230.6	673.3	595.8	77.46	8.692			
17,000.0	12,750.0	16,572.2	12,380.0	41.3	45.1	-56.66	-4,351.8	-229.7	673.2	594.4	78.86	8.538			
17,100.0	12,750.0	16,672.2	12,380.0	42.0	46.0	-56.66	-4,451.8	-228.8	673.2	592.9	80.26	8.387			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
17,200.0	12,750.0	16,772.2	12,380.0	42.8	46.9	-56.66	-4,551.8	-227.8	673.2	591.5	81.68	8.242			
17,300.0	12,750.0	16,872.2	12,380.0	43.6	47.8	-56.66	-4,651.8	-226.9	673.1	590.0	83.10	8.100			
17,400.0	12,750.0	16,972.2	12,380.0	44.4	48.7	-56.65	-4,751.8	-226.0	673.1	588.5	84.54	7.962			
17,500.0	12,750.0	17,072.2	12,380.0	45.2	49.6	-56.65	-4,851.8	-225.0	673.0	587.1	85.98	7.828			
17,600.0	12,750.0	17,172.2	12,380.0	45.9	50.5	-56.65	-4,951.8	-224.1	673.0	585.6	87.43	7.698			
17,700.0	12,750.0	17,272.2	12,380.0	46.7	51.4	-56.65	-5,051.8	-223.2	673.0	584.1	88.88	7.571			
17,800.0	12,750.0	17,372.2	12,380.0	47.5	52.3	-56.64	-5,151.8	-222.3	672.9	582.6	90.35	7.448			
17,900.0	12,750.0	17,472.2	12,380.0	48.3	53.2	-56.64	-5,251.8	-221.3	672.9	581.1	91.82	7.328			
18,000.0	12,750.0	17,572.2	12,380.0	49.1	54.1	-56.64	-5,351.8	-220.4	672.8	579.5	93.29	7.212			
18,100.0	12,750.0	17,672.2	12,380.0	49.9	55.0	-56.64	-5,451.8	-219.5	672.8	578.0	94.78	7.099			
18,200.0	12,750.0	17,772.2	12,380.0	50.7	55.9	-56.63	-5,551.8	-218.5	672.7	576.5	96.26	6.989			
18,300.0	12,750.0	17,872.2	12,380.0	51.5	56.8	-56.63	-5,651.8	-217.6	672.7	574.9	97.76	6.881			
18,400.0	12,750.0	17,972.2	12,380.0	52.3	57.7	-56.63	-5,751.8	-216.7	672.7	573.4	99.26	6.777			
18,500.0	12,750.0	18,072.2	12,380.0	53.1	58.6	-56.63	-5,851.8	-215.7	672.6	571.9	100.76	6.675			
18,600.0	12,750.0	18,172.2	12,380.0	53.9	59.6	-56.63	-5,951.7	-214.8	672.6	570.3	102.27	6.577			
18,700.0	12,750.0	18,272.2	12,380.0	54.7	60.5	-56.62	-6,051.7	-213.9	672.5	568.8	103.78	6.480			
18,800.0	12,750.0	18,372.2	12,380.0	55.5	61.4	-56.62	-6,151.7	-212.9	672.5	567.2	105.30	6.387			
18,900.0	12,750.0	18,472.2	12,380.0	56.3	62.3	-56.62	-6,251.7	-212.0	672.5	565.6	106.82	6.295			
19,000.0	12,750.0	18,572.2	12,380.0	57.2	63.3	-56.62	-6,351.7	-211.1	672.4	564.1	108.34	6.206			
19,100.0	12,750.0	18,672.2	12,380.0	58.0	64.2	-56.61	-6,451.7	-210.2	672.4	562.5	109.87	6.120			
19,200.0	12,750.0	18,772.2	12,380.0	58.8	65.1	-56.61	-6,551.7	-209.2	672.3	560.9	111.41	6.035			
19,300.0	12,750.0	18,872.2	12,380.0	59.6	66.0	-56.61	-6,651.7	-208.3	672.3	559.4	112.94	5.953			
19,400.0	12,750.0	18,972.2	12,380.0	60.4	67.0	-56.61	-6,751.7	-207.4	672.3	557.8	114.48	5.872			
19,500.0	12,750.0	19,072.2	12,380.0	61.2	67.9	-56.61	-6,851.7	-206.4	672.2	556.2	116.03	5.794			
19,600.0	12,750.0	19,172.2	12,380.0	62.1	68.8	-56.60	-6,951.7	-205.5	672.2	554.6	117.57	5.717			
19,700.0	12,750.0	19,272.2	12,380.0	62.9	69.7	-56.60	-7,051.7	-204.6	672.1	553.0	119.12	5.642			
19,800.0	12,750.0	19,372.2	12,380.0	63.7	70.7	-56.60	-7,151.7	-203.6	672.1	551.4	120.67	5.570			
19,900.0	12,750.0	19,472.2	12,380.0	64.5	71.6	-56.60	-7,251.7	-202.7	672.0	549.8	122.23	5.498			
20,000.0	12,750.0	19,572.2	12,380.0	65.4	72.5	-56.59	-7,351.7	-201.8	672.0	548.2	123.78	5.429			
20,100.0	12,750.0	19,672.2	12,380.0	66.2	73.5	-56.59	-7,451.7	-200.9	672.0	546.6	125.34	5.361			
20,200.0	12,750.0	19,772.2	12,380.0	67.0	74.4	-56.59	-7,551.7	-199.9	671.9	545.0	126.90	5.295			
20,300.0	12,750.0	19,872.2	12,380.0	67.8	75.3	-56.59	-7,651.7	-199.0	671.9	543.4	128.47	5.230			
20,400.0	12,750.0	19,972.2	12,380.0	68.7	76.3	-56.58	-7,751.7	-198.1	671.8	541.8	130.04	5.167			
20,500.0	12,750.0	20,072.2	12,380.0	69.5	77.2	-56.58	-7,851.7	-197.1	671.8	540.2	131.60	5.105			
20,600.0	12,750.0	20,172.2	12,380.0	70.3	78.2	-56.58	-7,951.7	-196.2	671.8	538.6	133.18	5.044			
20,700.0	12,750.0	20,272.2	12,380.0	71.1	79.1	-56.58	-8,051.7	-195.3	671.7	537.0	134.75	4.985			
20,787.2	12,750.0	20,359.5	12,380.0	71.9	79.9	-56.58	-8,138.9	-194.5	671.7	535.6	136.12	4.934			
20,800.0	12,750.0	20,359.7	12,380.0	72.0	79.9	-56.58	-8,139.2	-194.5	671.8	535.6	136.21	4.932			
20,900.0	12,750.0	20,359.7	12,380.0	72.8	79.9	-56.58	-8,139.2	-194.5	681.0	545.5	135.46	5.027			
21,000.0	12,750.0	20,359.7	12,380.0	73.6	79.9	-56.58	-8,139.2	-194.5	704.4	572.0	132.40	5.320			
21,100.0	12,750.0	20,359.7	12,380.0	74.5	79.9	-56.58	-8,139.2	-194.5	740.7	613.1	127.64	5.803			
21,200.0	12,750.0	20,359.7	12,380.0	75.3	79.9	-56.58	-8,139.2	-194.5	788.1	666.2	121.92	6.464			
21,300.0	12,750.0	20,359.7	12,380.0	76.1	79.9	-56.58	-8,139.2	-194.5	844.7	728.8	115.87	7.290			
21,400.0	12,750.0	20,359.7	12,380.0	77.0	79.9	-56.58	-8,139.2	-194.5	908.8	798.9	109.94	8.267			
21,500.0	12,750.0	20,359.7	12,380.0	77.8	79.9	-56.58	-8,139.2	-194.5	979.0	874.6	104.38	9.379			

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,400.0	5,340.4	5,614.4	5,544.5	11.5	12.2	-2.15	3.9	-1,579.0	984.8	961.2	23.60	41.722			
5,500.0	5,438.4	5,706.2	5,634.3	11.7	12.4	-2.17	4.4	-1,560.0	945.1	921.1	23.96	39.443			
5,600.0	5,536.5	5,798.0	5,724.1	11.9	12.6	-2.20	4.9	-1,541.0	905.5	881.1	24.32	37.229			
5,700.0	5,634.5	5,889.8	5,814.0	12.1	12.7	-2.24	5.4	-1,522.0	865.8	841.1	24.68	35.077			
5,800.0	5,732.5	5,981.6	5,903.8	12.3	12.9	-2.27	5.9	-1,502.9	826.2	801.1	25.05	32.985			
5,900.0	5,830.5	6,073.4	5,993.6	12.4	13.1	-2.31	6.4	-1,483.9	786.5	761.1	25.41	30.950			
5,937.7	5,867.5	6,108.0	6,027.4	12.5	13.2	-2.32	6.6	-1,476.8	771.6	746.1	25.54	30.214			
6,000.0	5,928.6	6,165.3	6,083.5	12.6	13.3	-2.34	6.9	-1,464.9	747.2	721.5	25.75	29.014			
6,100.0	6,027.0	6,257.9	6,174.1	12.8	13.5	-2.36	7.4	-1,445.7	709.4	683.3	26.12	27.159			
6,200.0	6,125.7	6,351.1	6,265.3	13.0	13.7	-2.39	8.0	-1,426.4	673.2	646.7	26.49	25.416			
6,300.0	6,224.7	6,444.9	6,357.0	13.2	13.8	-2.40	8.5	-1,406.9	638.6	611.7	26.85	23.782			
6,400.0	6,323.9	6,539.4	6,449.4	13.4	14.0	-2.42	9.0	-1,387.4	605.6	578.4	27.22	22.253			
6,500.0	6,423.3	6,634.3	6,542.3	13.5	14.2	-2.44	9.5	-1,367.7	574.3	546.8	27.58	20.825			
6,600.0	6,522.8	6,729.8	6,635.8	13.7	14.4	-2.45	10.0	-1,347.9	544.7	516.8	27.94	19.495			
6,700.0	6,622.6	6,825.8	6,729.7	13.9	14.6	-2.45	10.5	-1,328.0	516.8	488.5	28.30	18.261			
6,800.0	6,722.4	6,922.3	6,824.1	14.0	14.8	-2.45	11.1	-1,308.0	490.5	461.8	28.65	17.118			
6,900.0	6,822.3	7,019.3	6,918.9	14.2	15.0	-2.44	11.6	-1,287.9	465.9	436.9	29.00	16.064			
7,000.0	6,922.3	7,116.6	7,014.1	14.3	15.2	-2.42	12.1	-1,267.8	443.0	413.6	29.34	15.098			
7,077.7	7,000.0	7,192.5	7,088.4	14.4	15.3	-91.02	12.5	-1,252.0	426.3	396.8	29.56	14.422			
7,100.0	7,022.3	7,214.3	7,109.7	14.4	15.4	-91.02	12.7	-1,247.5	421.7	392.1	29.61	14.241			
7,200.0	7,122.3	7,312.1	7,205.4	14.5	15.6	-90.99	13.2	-1,227.2	401.0	371.1	29.89	13.414			
7,300.0	7,222.3	7,410.0	7,301.1	14.5	15.8	-90.97	13.7	-1,207.0	380.3	350.1	30.17	12.605			
7,400.0	7,322.3	7,507.8	7,396.8	14.6	16.0	-90.93	14.3	-1,186.7	359.5	329.1	30.44	11.810			
7,500.0	7,422.3	7,605.6	7,492.5	14.7	16.2	-90.90	14.8	-1,166.4	338.8	308.1	30.72	11.028			
7,600.0	7,522.3	7,703.5	7,588.2	14.7	16.4	-90.86	15.3	-1,146.1	318.1	287.1	31.00	10.261			
7,700.0	7,622.3	7,801.3	7,683.9	14.8	16.6	-90.81	15.9	-1,125.9	297.4	266.1	31.28	9.507			
7,800.0	7,722.3	7,899.1	7,779.6	14.8	16.8	-90.76	16.4	-1,105.6	276.6	245.1	31.56	8.765			
7,900.0	7,822.3	7,994.2	7,872.7	14.9	17.0	-90.70	16.9	-1,086.2	256.2	224.4	31.83	8.052			
8,000.0	7,922.3	8,088.3	7,965.2	15.0	17.2	-90.64	17.4	-1,068.5	237.4	205.3	32.11	7.392			
8,100.0	8,022.3	8,183.1	8,058.5	15.0	17.3	-90.58	17.8	-1,052.1	220.1	187.7	32.39	6.796			
8,200.0	8,122.3	8,278.3	8,152.5	15.1	17.5	-90.51	18.2	-1,037.3	204.5	171.9	32.66	6.262			
8,300.0	8,222.3	8,374.0	8,247.3	15.1	17.7	-90.44	18.5	-1,023.9	190.6	157.6	32.93	5.787			
8,400.0	8,322.3	8,470.2	8,342.7	15.2	17.9	-90.37	18.9	-1,012.1	178.3	145.1	33.18	5.372			
8,500.0	8,422.3	8,566.7	8,438.7	15.3	18.1	-90.30	19.1	-1,001.8	167.6	134.2	33.43	5.014			
8,600.0	8,522.3	8,663.5	8,535.2	15.3	18.2	-90.23	19.4	-993.2	158.7	125.0	33.67	4.713			
8,700.0	8,622.3	8,760.6	8,632.0	15.4	18.4	-90.17	19.5	-986.1	151.4	117.5	33.89	4.467			
8,800.0	8,722.3	8,858.0	8,729.2	15.5	18.6	-90.12	19.7	-980.7	145.8	111.7	34.11	4.275			
8,900.0	8,822.3	8,955.4	8,826.6	15.5	18.7	-90.09	19.8	-976.9	142.0	107.6	34.31	4.137			
9,000.0	8,922.3	9,053.0	8,924.1	15.6	18.8	-90.06	19.8	-974.8	139.8	105.3	34.50	4.052			
9,100.0	9,022.3	9,151.2	9,022.3	15.7	18.9	-90.06	19.9	-974.3	139.3	104.6	34.63	4.021			
9,200.0	9,122.3	9,251.2	9,122.3	15.7	18.9	-90.06	19.9	-974.3	139.3	104.5	34.73	4.010			
9,300.0	9,222.3	9,351.2	9,222.3	15.8	19.0	-90.06	19.9	-974.3	139.3	104.4	34.84	3.997			
9,400.0	9,322.3	9,451.2	9,322.3	15.9	19.0	-90.06	19.9	-974.3	139.3	104.3	34.95	3.985			
9,500.0	9,422.3	9,551.2	9,422.3	15.9	19.1	-90.06	19.9	-974.3	139.3	104.2	35.06	3.972			
9,600.0	9,522.3	9,651.2	9,522.3	16.0	19.1	-90.06	19.9	-974.3	139.3	104.1	35.17	3.960			
9,700.0	9,622.3	9,751.2	9,622.3	16.0	19.2	-90.06	19.9	-974.3	139.3	104.0	35.28	3.948			
9,800.0	9,722.3	9,851.2	9,722.3	16.1	19.2	-90.06	19.9	-974.3	139.3	103.9	35.39	3.935			
9,900.0	9,822.3	9,951.2	9,822.3	16.2	19.3	-90.06	19.9	-974.3	139.3	103.8	35.50	3.923			
10,000.0	9,922.3	10,051.2	9,922.3	16.2	19.3	-90.06	19.9	-974.3	139.3	103.7	35.61	3.911			
10,100.0	10,022.3	10,151.2	10,022.3	16.3	19.4	-90.06	19.9	-974.3	139.3	103.5	35.72	3.899			
10,200.0	10,122.3	10,251.2	10,122.3	16.4	19.4	-90.06	19.9	-974.3	139.3	103.4	35.83	3.887			

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		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)					
10,300.0	10,222.3	10,351.2	10,222.3	16.4	19.5	-90.06	19.9	-974.3	139.3	103.3	35.95	3.874			
10,400.0	10,322.3	10,451.2	10,322.3	16.5	19.5	-90.06	19.9	-974.3	139.3	103.2	36.06	3.862			
10,500.0	10,422.3	10,551.2	10,422.3	16.6	19.6	-90.06	19.9	-974.3	139.3	103.1	36.17	3.850			
10,600.0	10,522.3	10,651.2	10,522.3	16.6	19.6	-90.06	19.9	-974.3	139.3	103.0	36.28	3.838			
10,700.0	10,622.3	10,751.2	10,622.3	16.7	19.7	-90.06	19.9	-974.3	139.3	102.9	36.40	3.826			
10,800.0	10,722.3	10,851.2	10,722.3	16.8	19.7	-90.06	19.9	-974.3	139.3	102.8	36.51	3.814			
10,900.0	10,822.3	10,951.2	10,822.3	16.8	19.8	-90.06	19.9	-974.3	139.3	102.6	36.63	3.802			
11,000.0	10,922.3	11,051.2	10,922.3	16.9	19.8	-90.06	19.9	-974.3	139.3	102.5	36.74	3.791			
11,100.0	11,022.3	11,151.2	11,022.3	17.0	19.9	-90.06	19.9	-974.3	139.3	102.4	36.86	3.779			
11,200.0	11,122.3	11,251.2	11,122.3	17.0	19.9	-90.06	19.9	-974.3	139.3	102.3	36.97	3.767			
11,300.0	11,222.3	11,351.2	11,222.3	17.1	20.0	-90.06	19.9	-974.3	139.3	102.2	37.09	3.755			
11,400.0	11,322.3	11,451.2	11,322.3	17.2	20.0	-90.06	19.9	-974.3	139.3	102.1	37.20	3.744			
11,500.0	11,422.3	11,551.2	11,422.3	17.2	20.1	-90.06	19.9	-974.3	139.3	102.0	37.32	3.732			
11,600.0	11,522.3	11,651.2	11,522.3	17.3	20.1	-90.06	19.9	-974.3	139.3	101.8	37.44	3.720			
11,700.0	11,622.3	11,751.2	11,622.3	17.4	20.2	-90.06	19.9	-974.3	139.3	101.7	37.55	3.709			
11,800.0	11,722.3	11,851.2	11,722.3	17.5	20.2	-90.06	19.9	-974.3	139.3	101.6	37.67	3.697			
11,900.0	11,822.3	11,951.2	11,822.3	17.5	20.3	-90.06	19.9	-974.3	139.3	101.5	37.79	3.686			
12,000.0	11,922.3	12,051.2	11,922.3	17.6	20.3	-90.06	19.9	-974.3	139.3	101.4	37.91	3.674			
12,100.0	12,022.3	12,151.2	12,022.3	17.7	20.4	-90.06	19.9	-974.3	139.3	101.2	38.02	3.663			
12,184.3	12,106.6	12,235.5	12,106.6	17.7	20.4	-90.56	18.6	-974.3	139.3	101.2	38.11	3.654 CC			
12,200.0	12,122.3	12,251.1	12,122.1	17.7	20.4	-91.12	17.3	-974.2	139.3	101.2	38.12	3.653 ES			
12,300.0	12,222.3	12,346.9	12,215.8	17.8	20.4	-99.05	-2.1	-974.1	141.0	102.8	38.19	3.691			
12,350.2	12,272.5	12,391.2	12,257.4	17.8	20.4	-105.06	-17.4	-973.9	144.6	106.4	38.28	3.779			
12,375.0	12,297.3	12,412.2	12,276.5	17.8	20.4	72.12	-25.9	-973.8	147.5	109.1	38.38	3.843			
12,400.0	12,322.2	12,433.0	12,295.2	17.8	20.4	68.87	-35.2	-973.7	150.9	112.3	38.54	3.914			
12,425.0	12,347.0	12,453.6	12,313.1	17.8	20.4	65.80	-45.2	-973.6	154.6	115.8	38.77	3.988			
12,450.0	12,371.6	12,475.0	12,331.4	17.8	20.4	62.79	-56.4	-973.5	158.7	119.7	39.00	4.069			
12,475.0	12,395.9	12,493.9	12,347.1	17.8	20.4	60.23	-67.0	-973.4	163.1	123.6	39.44	4.135			
12,500.0	12,419.8	12,513.7	12,363.1	17.8	20.4	57.72	-78.7	-973.3	167.6	127.8	39.87	4.205			
12,525.0	12,443.4	12,533.4	12,378.4	17.8	20.4	55.39	-91.0	-973.2	172.4	132.0	40.36	4.270			
12,550.0	12,466.5	12,552.8	12,393.0	17.8	20.4	53.24	-103.7	-973.1	177.2	136.3	40.90	4.331			
12,575.0	12,489.1	12,572.0	12,407.0	17.7	20.4	51.26	-116.9	-972.9	182.0	140.5	41.48	4.388			
12,600.0	12,511.1	12,591.1	12,420.3	17.7	20.4	49.44	-130.5	-972.8	186.8	144.7	42.08	4.439			
12,625.0	12,532.4	12,610.0	12,433.0	17.7	20.4	47.76	-144.5	-972.7	191.6	148.9	42.71	4.486			
12,650.0	12,553.0	12,628.7	12,445.0	17.7	20.4	46.22	-159.0	-972.5	196.3	153.0	43.35	4.528			
12,675.0	12,572.8	12,650.0	12,458.0	17.7	20.4	44.68	-175.8	-972.4	200.9	157.1	43.81	4.586			
12,700.0	12,591.8	12,665.9	12,467.1	17.7	20.4	43.54	-188.8	-972.2	205.3	160.7	44.64	4.600			
12,725.0	12,610.0	12,684.3	12,477.2	17.7	20.4	42.37	-204.2	-972.1	209.6	164.4	45.27	4.631			
12,750.0	12,627.2	12,700.0	12,485.3	17.7	20.5	41.40	-217.7	-971.9	213.7	167.7	46.05	4.641			
12,775.0	12,643.4	12,720.8	12,495.3	17.7	20.5	40.35	-235.8	-971.8	217.6	171.1	46.49	4.681			
12,800.0	12,658.7	12,738.9	12,503.4	17.7	20.5	39.48	-252.0	-971.6	221.3	174.2	47.07	4.701			
12,825.0	12,672.8	12,756.9	12,510.9	17.7	20.5	38.70	-268.5	-971.5	224.7	177.1	47.63	4.718			
12,850.0	12,685.9	12,775.0	12,517.8	17.8	20.5	38.00	-285.2	-971.3	227.9	179.7	48.14	4.733			
12,875.0	12,697.8	12,792.8	12,523.9	17.8	20.6	37.39	-301.9	-971.1	230.8	182.1	48.64	4.745			
12,900.0	12,708.6	12,810.6	12,529.4	17.8	20.6	36.84	-318.9	-971.0	233.4	184.3	49.10	4.754			
12,925.0	12,718.2	12,825.0	12,533.3	17.8	20.6	36.42	-332.7	-970.8	235.8	186.2	49.65	4.749			
12,950.0	12,726.5	12,846.1	12,538.4	17.9	20.7	35.97	-353.2	-970.6	237.8	187.9	49.90	4.766			
12,975.0	12,733.6	12,863.9	12,542.0	17.9	20.7	35.63	-370.6	-970.5	239.6	189.3	50.25	4.768			
13,000.0	12,739.5	12,881.5	12,544.9	17.9	20.7	35.35	-388.0	-970.3	241.0	190.5	50.55	4.768			
13,025.0	12,744.1	12,900.0	12,547.2	18.0	20.8	35.13	-406.3	-970.1	242.2	191.4	50.79	4.768			

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

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Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR											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)				
13,050.0	12,747.3	12,916.8	12,548.7	18.0	20.8	34.98	-423.1	-969.9	243.0	192.0	51.03	4.762		
13,075.0	12,749.3	12,934.5	12,549.7	18.1	20.8	34.89	-440.7	-969.8	243.5	192.3	51.20	4.756		
13,100.0	12,750.0	12,952.4	12,550.0	18.1	20.9	34.85	-458.6	-969.6	243.7	192.4	51.32	4.749		
13,100.2	12,750.0	12,952.6	12,550.0	18.1	20.9	34.85	-458.8	-969.6	243.7	192.4	51.32	4.749		
13,200.0	12,750.0	13,052.4	12,550.0	18.4	21.1	34.85	-558.6	-968.6	243.7	192.2	51.48	4.734		
13,300.0	12,750.0	13,152.4	12,550.0	18.7	21.4	34.85	-658.6	-967.6	243.7	192.1	51.66	4.717		
13,400.0	12,750.0	13,252.4	12,550.0	19.0	21.8	34.85	-758.6	-966.7	243.7	191.8	51.88	4.698		
13,500.0	12,750.0	13,352.4	12,550.0	19.3	22.1	34.85	-858.6	-965.7	243.7	191.6	52.12	4.677		
13,600.0	12,750.0	13,452.4	12,550.0	19.7	22.5	34.85	-958.6	-964.7	243.7	191.3	52.38	4.653		
13,700.0	12,750.0	13,552.4	12,550.0	20.0	22.9	34.85	-1,058.6	-963.7	243.7	191.0	52.68	4.627		
13,800.0	12,750.0	13,652.4	12,550.0	20.5	23.3	34.85	-1,158.6	-962.7	243.7	190.7	53.00	4.599		
13,900.0	12,750.0	13,752.4	12,550.0	20.9	23.7	34.85	-1,258.6	-961.8	243.7	190.4	53.34	4.569		
14,000.0	12,750.0	13,852.4	12,550.0	21.4	24.1	34.85	-1,358.6	-960.8	243.7	190.0	53.72	4.537		
14,100.0	12,750.0	13,952.4	12,550.0	21.8	24.6	34.86	-1,458.5	-959.8	243.7	189.6	54.11	4.504		
14,200.0	12,750.0	14,052.4	12,550.0	22.3	25.1	34.86	-1,558.5	-958.8	243.7	189.2	54.53	4.469		
14,300.0	12,750.0	14,152.4	12,550.0	22.9	25.6	34.86	-1,658.5	-957.9	243.7	188.7	54.98	4.433		
14,400.0	12,750.0	14,252.4	12,550.0	23.4	26.1	34.86	-1,758.5	-956.9	243.7	188.3	55.45	4.396		
14,500.0	12,750.0	14,352.4	12,550.0	23.9	26.6	34.86	-1,858.5	-955.9	243.7	187.8	55.94	4.357		
14,600.0	12,750.0	14,452.4	12,550.0	24.5	27.2	34.86	-1,958.5	-954.9	243.7	187.3	56.45	4.318		
14,700.0	12,750.0	14,552.4	12,550.0	25.1	27.7	34.86	-2,058.5	-953.9	243.7	186.7	56.99	4.277		
14,800.0	12,750.0	14,652.4	12,550.0	25.7	28.3	34.86	-2,158.5	-953.0	243.7	186.2	57.54	4.236		
14,900.0	12,750.0	14,752.4	12,550.0	26.3	28.9	34.86	-2,258.5	-952.0	243.7	185.6	58.12	4.194		
15,000.0	12,750.0	14,852.4	12,550.0	27.0	29.5	34.86	-2,358.5	-951.0	243.7	185.0	58.71	4.151		
15,100.0	12,750.0	14,952.4	12,550.0	27.6	30.1	34.86	-2,458.5	-950.0	243.7	184.4	59.33	4.108		
15,200.0	12,750.0	15,052.4	12,550.0	28.2	30.7	34.86	-2,558.5	-949.1	243.7	183.8	59.96	4.065		
15,300.0	12,750.0	15,152.4	12,550.0	28.9	31.4	34.86	-2,658.5	-948.1	243.7	183.1	60.61	4.021		
15,400.0	12,750.0	15,252.4	12,550.0	29.6	32.0	34.86	-2,758.5	-947.1	243.7	182.5	61.28	3.978		
15,500.0	12,750.0	15,352.4	12,550.0	30.3	32.6	34.86	-2,858.5	-946.1	243.7	181.8	61.96	3.934		
15,600.0	12,750.0	15,452.4	12,550.0	31.0	33.3	34.86	-2,958.5	-945.1	243.7	181.1	62.66	3.890		
15,700.0	12,750.0	15,552.4	12,550.0	31.6	34.0	34.86	-3,058.5	-944.2	243.7	180.4	63.38	3.846		
15,800.0	12,750.0	15,652.4	12,550.0	32.4	34.6	34.86	-3,158.5	-943.2	243.7	179.6	64.11	3.802		
15,900.0	12,750.0	15,752.4	12,550.0	33.1	35.3	34.86	-3,258.5	-942.2	243.7	178.9	64.86	3.758		
16,000.0	12,750.0	15,852.4	12,550.0	33.8	36.0	34.86	-3,358.5	-941.2	243.7	178.1	65.62	3.715		
16,100.0	12,750.0	15,952.4	12,550.0	34.5	36.7	34.86	-3,458.5	-940.3	243.7	177.3	66.39	3.671		
16,200.0	12,750.0	16,052.4	12,550.0	35.2	37.4	34.86	-3,558.4	-939.3	243.7	176.6	67.18	3.628		
16,300.0	12,750.0	16,152.4	12,550.0	36.0	38.1	34.86	-3,658.4	-938.3	243.7	175.8	67.98	3.586		
16,400.0	12,750.0	16,252.4	12,550.0	36.7	38.8	34.86	-3,758.4	-937.3	243.7	175.0	68.79	3.543		
16,500.0	12,750.0	16,352.4	12,550.0	37.5	39.5	34.86	-3,858.4	-936.3	243.7	174.1	69.61	3.501		
16,600.0	12,750.0	16,452.4	12,550.0	38.2	40.3	34.86	-3,958.4	-935.4	243.7	173.3	70.45	3.460		
16,700.0	12,750.0	16,552.4	12,550.0	39.0	41.0	34.86	-4,058.4	-934.4	243.7	172.4	71.29	3.419		
16,800.0	12,750.0	16,652.4	12,550.0	39.7	41.7	34.86	-4,158.4	-933.4	243.7	171.6	72.15	3.378		
16,900.0	12,750.0	16,752.4	12,550.0	40.5	42.5	34.87	-4,258.4	-932.4	243.7	170.7	73.02	3.338		
17,000.0	12,750.0	16,852.4	12,550.0	41.3	43.2	34.87	-4,358.4	-931.5	243.7	169.9	73.89	3.299		
17,100.0	12,750.0	16,952.4	12,550.0	42.0	44.0	34.87	-4,458.4	-930.5	243.7	169.0	74.78	3.259		
17,200.0	12,750.0	17,052.4	12,550.0	42.8	44.7	34.87	-4,558.4	-929.5	243.7	168.1	75.68	3.221		
17,300.0	12,750.0	17,152.4	12,550.0	43.6	45.5	34.87	-4,658.4	-928.5	243.7	167.2	76.58	3.183		
17,400.0	12,750.0	17,252.4	12,550.0	44.4	46.2	34.87	-4,758.4	-927.5	243.7	166.3	77.49	3.145		
17,500.0	12,750.0	17,352.4	12,550.0	45.2	47.0	34.87	-4,858.4	-926.6	243.7	165.3	78.41	3.108		
17,600.0	12,750.0	17,452.4	12,550.0	45.9	47.7	34.87	-4,958.4	-925.6	243.8	164.4	79.34	3.072		
17,700.0	12,750.0	17,552.4	12,550.0	46.7	48.5	34.87	-5,058.4	-924.6	243.8	163.5	80.28	3.036		
17,800.0	12,750.0	17,652.4	12,550.0	47.5	49.3	34.87	-5,158.4	-923.6	243.8	162.5	81.22	3.001		

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

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	_BOATER FED COM 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR											Rule Assigned:		Offset Well Error:	0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
17,900.0	12,750.0	17,752.4	12,550.0	48.3	50.1	34.87	34.87	34.87	-5,258.4	-922.7	243.8	161.6	82.18	2.966	Normal Operations
18,000.0	12,750.0	17,852.4	12,550.0	49.1	50.8	34.87	34.87	34.87	-5,358.4	-921.7	243.8	160.6	83.13	2.932	Normal Operations
18,100.0	12,750.0	17,952.4	12,550.0	49.9	51.6	34.87	34.87	34.87	-5,458.4	-920.7	243.8	159.7	84.10	2.898	Normal Operations
18,200.0	12,750.0	18,052.4	12,550.0	50.7	52.4	34.87	34.87	34.87	-5,558.4	-919.7	243.8	158.7	85.07	2.865	Normal Operations
18,300.0	12,750.0	18,152.4	12,550.0	51.5	53.2	34.87	34.87	34.87	-5,658.3	-918.7	243.8	157.7	86.05	2.833	Normal Operations
18,400.0	12,750.0	18,252.4	12,550.0	52.3	54.0	34.87	34.87	34.87	-5,758.3	-917.8	243.8	156.7	87.03	2.801	Normal Operations
18,500.0	12,750.0	18,352.4	12,550.0	53.1	54.7	34.87	34.87	34.87	-5,858.3	-916.8	243.8	155.7	88.02	2.769	Normal Operations
18,600.0	12,750.0	18,452.4	12,550.0	53.9	55.5	34.87	34.87	34.87	-5,958.3	-915.8	243.8	154.7	89.02	2.738	Normal Operations
18,700.0	12,750.0	18,552.4	12,550.0	54.7	56.3	34.87	34.87	34.87	-6,058.3	-914.8	243.8	153.7	90.02	2.708	Normal Operations
18,800.0	12,750.0	18,652.4	12,550.0	55.5	57.1	34.87	34.87	34.87	-6,158.3	-913.9	243.8	152.7	91.02	2.678	Normal Operations
18,900.0	12,750.0	18,752.4	12,550.0	56.3	57.9	34.87	34.87	34.87	-6,258.3	-912.9	243.8	151.7	92.03	2.649	Normal Operations
19,000.0	12,750.0	18,852.4	12,550.0	57.2	58.7	34.87	34.87	34.87	-6,358.3	-911.9	243.8	150.7	93.05	2.620	Normal Operations
19,100.0	12,750.0	18,952.4	12,550.0	58.0	59.5	34.87	34.87	34.87	-6,458.3	-910.9	243.8	149.7	94.07	2.591	Normal Operations
19,200.0	12,750.0	19,052.4	12,550.0	58.8	60.3	34.87	34.87	34.87	-6,558.3	-909.9	243.8	148.7	95.09	2.563	Normal Operations
19,300.0	12,750.0	19,152.4	12,550.0	59.6	61.1	34.87	34.87	34.87	-6,658.3	-909.0	243.8	147.6	96.12	2.536	Normal Operations
19,400.0	12,750.0	19,252.4	12,550.0	60.4	61.9	34.87	34.87	34.87	-6,758.3	-908.0	243.8	146.6	97.16	2.509	Normal Operations
19,500.0	12,750.0	19,352.4	12,550.0	61.2	62.7	34.87	34.87	34.87	-6,858.3	-907.0	243.8	145.6	98.20	2.482	Caution - Monitor Closely
19,600.0	12,750.0	19,452.4	12,550.0	62.1	63.5	34.87	34.87	34.87	-6,958.3	-906.0	243.8	144.5	99.24	2.456	Caution - Monitor Closely
19,700.0	12,750.0	19,552.4	12,550.0	62.9	64.3	34.87	34.87	34.87	-7,058.3	-905.1	243.8	143.5	100.28	2.431	Caution - Monitor Closely
19,800.0	12,750.0	19,652.4	12,550.0	63.7	65.1	34.88	34.88	34.88	-7,158.3	-904.1	243.8	142.4	101.33	2.406	Caution - Monitor Closely
19,900.0	12,750.0	19,752.4	12,550.0	64.5	66.0	34.88	34.88	34.88	-7,258.3	-903.1	243.8	141.4	102.39	2.381	Caution - Monitor Closely
20,000.0	12,750.0	19,852.4	12,550.0	65.4	66.8	34.88	34.88	34.88	-7,358.3	-902.1	243.8	140.3	103.44	2.357	Caution - Monitor Closely
20,100.0	12,750.0	19,952.4	12,550.0	66.2	67.6	34.88	34.88	34.88	-7,458.3	-901.1	243.8	139.3	104.50	2.333	Caution - Monitor Closely
20,200.0	12,750.0	20,052.4	12,550.0	67.0	68.4	34.88	34.88	34.88	-7,558.3	-900.2	243.8	138.2	105.57	2.309	Caution - Monitor Closely
20,300.0	12,750.0	20,152.4	12,550.0	67.8	69.2	34.88	34.88	34.88	-7,658.3	-899.2	243.8	137.1	106.64	2.286	Caution - Monitor Closely
20,400.0	12,750.0	20,252.4	12,550.0	68.7	70.0	34.88	34.88	34.88	-7,758.2	-898.2	243.8	136.1	107.71	2.263	Caution - Monitor Closely
20,500.0	12,750.0	20,352.4	12,550.0	69.5	70.8	34.88	34.88	34.88	-7,858.2	-897.2	243.8	135.0	108.78	2.241	Caution - Monitor Closely
20,600.0	12,750.0	20,452.4	12,550.0	70.3	71.7	34.88	34.88	34.88	-7,958.2	-896.3	243.8	133.9	109.85	2.219	Caution - Monitor Closely
20,700.0	12,750.0	20,552.4	12,550.0	71.1	72.5	34.88	34.88	34.88	-8,058.2	-895.3	243.8	132.8	110.93	2.197	Caution - Monitor Closely
20,705.7	12,750.0	20,558.1	12,550.0	71.2	72.5	34.88	34.88	34.88	-8,064.0	-895.2	243.8	132.8	111.00	2.196	Caution - Monitor Closely
20,800.0	12,750.0	20,638.5	12,550.0	72.0	73.2	34.88	34.88	34.88	-8,144.4	-894.4	244.2	131.7	112.48	2.171	Caution - Monitor Closely, SF
20,900.0	12,750.0	20,638.5	12,550.0	72.8	73.2	34.88	34.88	34.88	-8,144.4	-894.4	269.1	159.9	109.15	2.465	Caution - Monitor Closely
21,000.0	12,750.0	20,638.5	12,550.0	73.6	73.2	34.88	34.88	34.88	-8,144.4	-894.4	324.3	225.5	98.81	3.282	
21,100.0	12,750.0	20,638.5	12,550.0	74.5	73.2	34.88	34.88	34.88	-8,144.4	-894.4	397.4	308.5	88.89	4.471	
21,200.0	12,750.0	20,638.5	12,550.0	75.3	73.2	34.88	34.88	34.88	-8,144.4	-894.4	480.3	399.0	81.36	5.904	
21,300.0	12,750.0	20,638.5	12,550.0	76.1	73.2	34.88	34.88	34.88	-8,144.4	-894.4	568.8	492.8	75.93	7.490	
21,400.0	12,750.0	20,638.5	12,550.0	77.0	73.2	34.88	34.88	34.88	-8,144.4	-894.4	660.5	588.5	72.03	9.170	
21,500.0	12,750.0	20,638.5	12,550.0	77.8	73.2	34.88	34.88	34.88	-8,144.4	-894.4	754.3	685.2	69.17	10.906	
21,600.0	12,750.0	20,638.5	12,550.0	78.6	73.2	34.88	34.88	34.88	-8,144.4	-894.4	849.6	782.6	67.04	12.673	
21,700.0	12,750.0	20,638.5	12,550.0	79.5	73.2	34.88	34.88	34.88	-8,144.4	-894.4	945.8	880.4	65.42	14.457	

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 804H - Slot BOATER FED COM 804H
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 804H	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 703H - 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)					
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.6	90.0	90.0						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.6	90.0	90.0	88.0	1.99	45.198			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.6	90.0	90.0	86.7	3.31	27.178			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.6	90.0	90.0	85.8	4.20	21.452			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.6	90.0	90.0	85.1	4.91	18.323			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.6	90.0	90.0	84.5	5.53	16.266			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.6	90.0	90.0	83.9	6.09	14.778			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.6	90.0	90.0	83.4	6.60	13.634			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.6	90.0	90.0	82.9	7.08	12.718			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	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	89.60	0.6	90.0	90.0	78.6	11.44	7.867 CC, ES			
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	178.26	0.6	90.0	91.7	79.9	11.82	7.764 SF			
2,200.0	2,199.8	2,199.8	2,199.8	6.0	5.9	178.35	0.6	90.0	97.0	84.8	12.18	7.964			
2,300.0	2,299.5	2,299.5	2,299.5	6.2	6.0	178.48	0.6	90.0	105.7	93.2	12.53	8.435			
2,400.0	2,398.7	2,398.7	2,398.7	6.4	6.2	178.63	0.6	90.0	117.9	105.0	12.88	9.152			
2,500.0	2,497.5	2,497.5	2,497.5	6.6	6.3	178.79	0.6	90.0	133.5	120.3	13.22	10.096			
2,570.0	2,566.3	2,563.1	2,563.0	6.7	6.4	178.86	0.7	90.7	147.2	133.8	13.44	10.958			
2,600.0	2,595.7	2,590.8	2,590.8	6.7	6.5	178.87	0.8	91.4	153.9	140.4	13.51	11.397			
2,700.0	2,693.7	2,682.5	2,682.4	6.9	6.7	178.84	1.2	95.8	178.3	164.5	13.81	12.916			
2,800.0	2,791.7	2,772.7	2,772.3	7.0	6.9	178.73	1.9	102.9	205.8	191.7	14.11	14.585			
2,900.0	2,889.7	2,861.1	2,860.2	7.1	7.1	178.58	2.8	112.6	236.2	221.8	14.41	16.386			
3,000.0	2,987.8	2,947.9	2,946.1	7.3	7.2	178.41	4.0	124.8	269.5	254.8	14.67	18.375			
3,100.0	3,085.8	3,041.7	3,038.8	7.4	7.4	178.23	5.5	139.3	304.2	289.2	14.97	20.316			
3,200.0	3,183.8	3,135.5	3,131.4	7.6	7.6	178.10	6.9	153.8	338.8	323.5	15.33	22.109			
3,300.0	3,281.8	3,229.3	3,224.1	7.7	7.8	177.99	8.3	168.2	373.5	357.8	15.70	23.792			
3,400.0	3,379.9	3,323.1	3,316.7	7.9	8.1	177.89	9.7	182.7	408.2	392.1	16.09	25.367			
3,500.0	3,477.9	3,416.9	3,409.4	8.1	8.3	177.81	11.1	197.2	442.9	426.4	16.50	26.840			
3,600.0	3,575.9	3,510.7	3,502.1	8.2	8.6	177.75	12.5	211.7	477.5	460.6	16.93	28.214			
3,700.0	3,674.0	3,604.5	3,594.7	8.4	8.9	177.69	14.0	226.2	512.2	494.9	17.37	29.496			
3,800.0	3,772.0	3,698.3	3,687.4	8.6	9.2	177.64	15.4	240.7	546.9	529.1	17.82	30.691			
3,900.0	3,870.0	3,792.1	3,780.0	8.7	9.5	177.59	16.8	255.2	581.6	563.3	18.29	31.804			
4,000.0	3,968.0	3,885.9	3,872.7	8.9	9.8	177.55	18.2	269.7	616.3	597.5	18.76	32.841			
4,100.0	4,066.1	3,979.7	3,965.3	9.1	10.1	177.52	19.6	284.2	650.9	631.7	19.25	33.808			
4,200.0	4,164.1	4,073.5	4,058.0	9.3	10.4	177.49	21.1	298.7	685.6	665.9	19.75	34.709			
4,300.0	4,262.1	4,173.1	4,156.4	9.4	10.7	177.46	22.5	313.9	720.1	699.9	20.27	35.526			
4,400.0	4,360.1	4,281.3	4,263.6	9.6	11.1	177.44	24.0	328.7	753.2	732.3	20.86	36.109			
4,500.0	4,458.2	4,391.0	4,372.5	9.8	11.5	177.44	25.3	341.7	784.4	763.0	21.45	36.569			
4,600.0	4,556.2	4,502.0	4,483.0	10.0	11.9	177.44	26.4	352.7	813.8	791.8	22.04	36.931			
4,700.0	4,654.2	4,614.3	4,594.9	10.2	12.2	177.46	27.2	361.7	841.4	818.8	22.61	37.212			
4,800.0	4,752.2	4,727.8	4,708.2	10.3	12.6	177.49	27.9	368.6	867.0	843.9	23.17	37.427			
4,900.0	4,850.3	4,842.5	4,822.8	10.5	12.9	177.54	28.4	373.3	890.8	867.1	23.69	37.596			

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 804H - Slot BOATER FED COM 804H
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 804H	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 703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,948.3	4,958.3	4,938.5	10.7	13.2	177.59	28.6	375.7	912.6	888.4	24.17	37.759		
5,100.0	5,046.3	5,066.0	5,046.3	10.9	13.4	177.64	28.6	376.0	932.6	908.1	24.48	38.097		
5,200.0	5,144.4	5,164.1	5,144.4	11.1	13.4	177.69	28.6	376.0	952.3	927.6	24.72	38.531		
5,300.0	5,242.4	5,262.1	5,242.4	11.3	13.5	177.74	28.6	376.0	972.1	947.1	24.96	38.951		
5,400.0	5,340.4	5,360.1	5,340.4	11.5	13.6	177.78	28.6	376.0	991.8	966.6	25.20	39.360		

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 804H - Slot BOATER FED COM 804H
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 804H	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		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)					
0.0	0.0	0.0	0.0	0.0	0.0	-90.37	-0.2	-29.7	29.7						
100.0	100.0	100.0	100.0	0.8	0.8	-90.37	-0.2	-29.7	29.7	27.7	1.99	14.925			
200.0	200.0	200.0	200.0	1.4	1.4	-90.37	-0.2	-29.7	29.7	26.4	3.31	8.974			
300.0	300.0	300.0	300.0	1.9	1.9	-90.37	-0.2	-29.7	29.7	25.5	4.20	7.084			
400.0	400.0	400.0	400.0	2.2	2.2	-90.37	-0.2	-29.7	29.7	24.8	4.91	6.050			
500.0	500.0	500.0	500.0	2.6	2.6	-90.37	-0.2	-29.7	29.7	24.2	5.53	5.371			
600.0	600.0	600.0	600.0	2.8	2.8	-90.37	-0.2	-29.7	29.7	23.6	6.09	4.880			
700.0	700.0	700.0	700.0	3.1	3.1	-90.37	-0.2	-29.7	29.7	23.1	6.60	4.502			
800.0	800.0	800.0	800.0	3.3	3.3	-90.37	-0.2	-29.7	29.7	22.6	7.08	4.200			
900.0	900.0	900.0	900.0	3.6	3.6	-90.37	-0.2	-29.7	29.7	22.2	7.52	3.950			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.37	-0.2	-29.7	29.7	21.8	7.95	3.739			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.37	-0.2	-29.7	29.7	21.4	8.35	3.558			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.37	-0.2	-29.7	29.7	21.0	8.74	3.401			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.37	-0.2	-29.7	29.7	20.6	9.11	3.261			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.37	-0.2	-29.7	29.7	20.2	9.47	3.137			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.37	-0.2	-29.7	29.7	19.9	9.82	3.026			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.37	-0.2	-29.7	29.7	19.6	10.16	2.924 Normal Operations			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.37	-0.2	-29.7	29.7	19.2	10.49	2.832 Normal Operations			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.37	-0.2	-29.7	29.7	18.9	10.82	2.748 Normal Operations			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.37	-0.2	-29.7	29.7	18.6	11.13	2.670 Normal Operations			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.37	-0.2	-29.7	29.7	18.3	11.44	2.598 Normal Operations			
2,100.0	2,100.0	2,099.0	2,099.0	5.8	5.8	-1.64	-0.1	-31.4	29.7	17.8	11.88	2.499 Caution - Monitor Closely			
2,200.0	2,199.8	2,198.0	2,197.8	6.0	6.0	-1.32	0.2	-36.5	29.6	17.4	12.29	2.412 Caution - Monitor Closely			
2,300.0	2,299.5	2,296.9	2,296.4	6.2	6.2	-0.79	0.7	-45.1	29.5	16.9	12.68	2.330 Caution - Monitor Closely			
2,400.0	2,398.7	2,395.9	2,394.7	6.4	6.4	-0.05	1.3	-57.0	29.4	16.4	13.05	2.253 Caution - Monitor Closely			
2,500.0	2,497.5	2,494.9	2,492.4	6.6	6.6	0.92	2.2	-72.3	29.2	15.8	13.42	2.179 Caution - Monitor Closely			
2,570.0	2,566.3	2,564.2	2,560.6	6.7	6.8	1.73	2.9	-85.0	29.1	15.5	13.61	2.139 Caution - Monitor Closely			
2,575.6	2,571.7	2,569.7	2,566.0	6.7	6.8	1.80	3.0	-86.1	29.1	15.5	13.62	2.137 Caution - Monitor Closely, CC, ES			
2,600.0	2,595.7	2,593.9	2,589.6	6.7	6.8	2.10	3.3	-91.0	29.2	15.5	13.67	2.136 Caution - Monitor Closely, SF			
2,700.0	2,693.7	2,692.8	2,686.1	6.9	7.0	3.22	4.5	-113.0	31.8	17.8	13.95	2.278 Caution - Monitor Closely			
2,800.0	2,791.7	2,792.1	2,782.1	7.0	7.1	3.98	5.9	-137.9	37.4	23.2	14.16	2.642 Normal Operations			
2,900.0	2,889.7	2,891.9	2,878.6	7.1	7.3	4.51	7.3	-163.5	43.4	29.0	14.45	3.007			
3,000.0	2,987.8	2,991.7	2,975.1	7.3	7.4	4.92	8.8	-189.0	49.5	34.7	14.75	3.355			
3,100.0	3,085.8	3,091.5	3,071.6	7.4	7.5	5.24	10.2	-214.6	55.6	40.5	15.06	3.688			
3,200.0	3,183.8	3,191.3	3,168.1	7.6	7.7	5.49	11.6	-240.1	61.6	46.2	15.38	4.005			
3,300.0	3,281.8	3,291.2	3,264.5	7.7	7.9	5.70	13.1	-265.6	67.7	52.0	15.71	4.308			
3,400.0	3,379.9	3,391.0	3,361.0	7.9	8.0	5.88	14.5	-291.2	73.7	57.7	16.04	4.597			
3,500.0	3,477.9	3,490.8	3,457.5	8.1	8.2	6.03	16.0	-316.7	79.8	63.4	16.37	4.872			
3,600.0	3,575.9	3,590.6	3,554.0	8.2	8.3	6.15	17.4	-342.3	85.8	69.1	16.72	5.135			
3,700.0	3,674.0	3,690.4	3,650.5	8.4	8.5	6.27	18.8	-367.8	91.9	74.8	17.06	5.386			
3,800.0	3,772.0	3,790.2	3,747.0	8.6	8.7	6.36	20.3	-393.4	98.0	80.5	17.42	5.625			
3,900.0	3,870.0	3,890.0	3,843.4	8.7	8.9	6.45	21.7	-418.9	104.0	86.2	17.77	5.853			
4,000.0	3,968.0	3,989.9	3,939.9	8.9	9.0	6.52	23.1	-444.4	110.1	91.9	18.13	6.071			
4,100.0	4,066.1	4,089.7	4,036.4	9.1	9.2	6.59	24.6	-470.0	116.1	97.6	18.50	6.279			
4,200.0	4,164.1	4,189.5	4,132.9	9.3	9.4	6.65	26.0	-495.5	122.2	103.3	18.86	6.478			
4,300.0	4,262.1	4,289.3	4,229.4	9.4	9.6	6.71	27.4	-521.1	128.3	109.0	19.24	6.668			
4,400.0	4,360.1	4,389.1	4,325.8	9.6	9.8	6.76	28.9	-546.6	134.3	114.7	19.61	6.849			
4,500.0	4,458.2	4,488.9	4,422.3	9.8	10.0	6.81	30.3	-572.2	140.4	120.4	19.99	7.023			
4,600.0	4,556.2	4,588.8	4,518.8	10.0	10.2	6.85	31.8	-597.7	146.4	126.1	20.37	7.189			
4,700.0	4,654.2	4,688.6	4,615.3	10.2	10.4	6.89	33.2	-623.2	152.5	131.7	20.75	7.349			
4,800.0	4,752.2	4,788.4	4,711.8	10.3	10.6	6.92	34.6	-648.8	158.6	137.4	21.14	7.501			

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 804H - Slot BOATER FED COM 804H
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 804H	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		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)					
4,900.0	4,850.3	4,888.2	4,808.3	10.5	10.8	6.96	36.1	-674.3	164.6	143.1	21.53	7.647			
5,000.0	4,948.3	4,988.0	4,904.7	10.7	11.0	6.99	37.5	-699.9	170.7	148.8	21.92	7.787			
5,100.0	5,046.3	5,087.8	5,001.2	10.9	11.2	7.02	38.9	-725.4	176.7	154.4	22.31	7.922			
5,200.0	5,144.4	5,187.7	5,097.7	11.1	11.4	7.05	40.4	-751.0	182.8	160.1	22.70	8.051			
5,300.0	5,242.4	5,287.5	5,194.2	11.3	11.6	7.07	41.8	-776.5	188.9	165.8	23.10	8.175			
5,400.0	5,340.4	5,387.3	5,290.7	11.5	11.8	7.09	43.2	-802.0	194.9	171.4	23.50	8.294			
5,500.0	5,438.4	5,487.1	5,387.1	11.7	12.0	7.12	44.7	-827.6	201.0	177.1	23.90	8.409			
5,600.0	5,536.5	5,586.9	5,483.6	11.9	12.2	7.14	46.1	-853.1	207.0	182.7	24.30	8.519			
5,700.0	5,634.5	5,686.7	5,580.1	12.1	12.4	7.16	47.6	-878.7	213.1	188.4	24.71	8.625			
5,800.0	5,732.5	5,786.6	5,676.6	12.3	12.6	7.18	49.0	-904.2	219.2	194.1	25.11	8.727			
5,900.0	5,830.5	5,886.4	5,773.1	12.4	12.8	7.19	50.4	-929.7	225.2	199.7	25.52	8.826			
5,937.7	5,867.5	5,924.0	5,809.4	12.5	12.9	7.20	51.0	-939.4	227.5	201.8	25.66	8.867			
6,000.0	5,928.6	5,986.2	5,869.5	12.6	13.0	7.21	51.9	-955.3	231.6	205.7	25.90	8.944			
6,100.0	6,027.0	6,085.8	5,965.9	12.8	13.2	7.17	53.3	-980.8	239.6	213.3	26.30	9.111			
6,200.0	6,125.7	6,185.4	6,062.1	13.0	13.5	7.09	54.7	-1,006.3	249.3	222.6	26.70	9.338			
6,300.0	6,224.7	6,284.7	6,158.1	13.2	13.7	6.98	56.2	-1,031.7	260.8	233.7	27.10	9.623			
6,400.0	6,323.9	6,383.8	6,253.9	13.4	13.9	6.83	57.6	-1,057.0	274.0	246.5	27.50	9.964			
6,500.0	6,423.3	6,482.7	6,349.5	13.5	14.1	6.66	59.0	-1,082.3	288.9	261.0	27.89	10.359			
6,600.0	6,522.8	6,581.3	6,444.8	13.7	14.3	6.47	60.4	-1,107.6	305.5	277.2	28.27	10.805			
6,700.0	6,622.6	6,679.6	6,539.8	13.9	14.5	6.27	61.8	-1,132.7	323.8	295.1	28.65	11.302			
6,800.0	6,722.4	6,777.6	6,634.5	14.0	14.7	6.06	63.3	-1,157.8	343.8	314.8	29.02	11.848			
6,900.0	6,822.3	6,875.2	6,728.9	14.2	15.0	5.85	64.7	-1,182.8	365.5	336.1	29.38	12.442			
7,000.0	6,922.3	6,972.4	6,822.8	14.3	15.2	5.65	66.1	-1,207.7	388.9	359.2	29.73	13.084			
7,077.7	7,000.0	7,047.6	6,895.5	14.4	15.3	-83.14	67.1	-1,226.9	408.3	378.4	29.96	13.630			
7,100.0	7,022.3	7,069.2	6,916.4	14.4	15.4	-83.19	67.5	-1,232.4	414.0	384.0	30.01	13.796			
7,200.0	7,122.3	7,165.8	7,009.8	14.5	15.6	-83.40	68.8	-1,257.2	439.6	409.3	30.29	14.513			
7,300.0	7,222.3	7,262.5	7,103.2	14.5	15.8	-83.59	70.2	-1,281.9	465.2	434.6	30.57	15.218			
7,400.0	7,322.3	7,359.2	7,196.7	14.6	16.0	-83.75	71.6	-1,306.6	490.8	459.9	30.85	15.911			
7,500.0	7,422.3	7,455.8	7,290.1	14.7	16.3	-83.90	73.0	-1,331.4	516.4	485.3	31.13	16.590			
7,600.0	7,522.3	7,552.5	7,383.5	14.7	16.5	-84.04	74.4	-1,356.1	542.0	510.6	31.41	17.257			
7,700.0	7,622.3	7,649.1	7,477.0	14.8	16.7	-84.16	75.8	-1,380.8	567.6	535.9	31.69	17.910			
7,800.0	7,722.3	7,745.8	7,570.4	14.8	16.9	-84.28	77.2	-1,405.6	593.2	561.2	31.97	18.552			
7,900.0	7,822.3	7,842.5	7,663.8	14.9	17.1	-84.38	78.6	-1,430.3	618.8	586.5	32.26	19.182			
8,000.0	7,922.3	7,939.1	7,757.3	15.0	17.3	-84.48	80.0	-1,455.0	644.4	611.9	32.55	19.799			
8,100.0	8,022.3	8,035.8	7,850.7	15.0	17.6	-84.56	81.4	-1,479.8	670.0	637.2	32.84	20.406			
8,200.0	8,122.3	8,132.4	7,944.1	15.1	17.8	-84.64	82.8	-1,504.5	695.6	662.5	33.12	21.001			
8,300.0	8,222.3	8,230.0	8,038.4	15.1	18.0	-84.72	84.2	-1,529.5	721.3	687.8	33.41	21.588			
8,400.0	8,322.3	8,341.2	8,146.2	15.2	18.2	-84.80	85.7	-1,556.7	745.8	712.1	33.73	22.114			
8,500.0	8,422.3	8,453.4	8,255.5	15.3	18.5	-84.87	87.1	-1,582.1	768.5	734.4	34.04	22.575			
8,600.0	8,522.3	8,566.6	8,366.2	15.3	18.7	-84.92	88.4	-1,605.6	789.2	754.9	34.35	22.977			
8,700.0	8,622.3	8,680.7	8,478.3	15.4	19.0	-84.97	89.6	-1,627.0	808.0	773.4	34.65	23.321			
8,800.0	8,722.3	8,795.6	8,591.6	15.5	19.2	-85.02	90.7	-1,646.4	824.9	789.9	34.94	23.610			
8,900.0	8,822.3	8,911.3	8,706.0	15.5	19.4	-85.05	91.7	-1,663.5	839.7	804.5	35.22	23.844			
9,000.0	8,922.3	9,027.7	8,821.4	15.6	19.6	-85.08	92.5	-1,678.4	852.6	817.1	35.49	24.025			
9,100.0	9,022.3	9,144.6	8,937.6	15.7	19.8	-85.11	93.3	-1,691.1	863.4	827.6	35.75	24.154			
9,200.0	9,122.3	9,262.0	9,054.5	15.7	20.0	-85.13	93.8	-1,701.4	872.2	836.2	35.99	24.232			
9,300.0	9,222.3	9,379.7	9,172.0	15.8	20.2	-85.14	94.3	-1,709.3	878.9	842.7	36.23	24.262			
9,400.0	9,322.3	9,497.8	9,289.9	15.9	20.4	-85.15	94.6	-1,714.9	883.6	847.2	36.45	24.245			
9,500.0	9,422.3	9,616.0	9,408.1	15.9	20.5	-85.16	94.8	-1,718.0	886.3	849.6	36.64	24.189			
9,600.0	9,522.3	9,730.2	9,522.3	16.0	20.6	-85.16	94.8	-1,718.7	886.9	850.1	36.77	24.120			

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 804H - Slot BOATER FED COM 804H
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 804H	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		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	9,622.3	9,830.2	9,622.3	16.0	20.7	-85.16	94.8	-1,718.7	886.9	850.0	36.87	24.054			
9,800.0	9,722.3	9,930.2	9,722.3	16.1	20.7	-85.16	94.8	-1,718.7	886.9	849.9	36.97	23.986			
9,900.0	9,822.3	10,030.2	9,822.3	16.2	20.8	-85.16	94.8	-1,718.7	886.9	849.8	37.08	23.918			
10,000.0	9,922.3	10,130.2	9,922.3	16.2	20.8	-85.16	94.8	-1,718.7	886.9	849.7	37.18	23.851			
10,100.0	10,022.3	10,230.2	10,022.3	16.3	20.9	-85.16	94.8	-1,718.7	886.9	849.6	37.29	23.783			
10,200.0	10,122.3	10,330.2	10,122.3	16.4	20.9	-85.16	94.8	-1,718.7	886.9	849.5	37.40	23.716			
10,300.0	10,222.3	10,430.2	10,222.3	16.4	21.0	-85.16	94.8	-1,718.7	886.9	849.4	37.50	23.648			
10,400.0	10,322.3	10,530.2	10,322.3	16.5	21.0	-85.16	94.8	-1,718.7	886.9	849.3	37.61	23.581			
10,500.0	10,422.3	10,630.2	10,422.3	16.6	21.0	-85.16	94.8	-1,718.7	886.9	849.2	37.72	23.514			
10,600.0	10,522.3	10,730.2	10,522.3	16.6	21.1	-85.16	94.8	-1,718.7	886.9	849.1	37.82	23.447			
10,700.0	10,622.3	10,830.2	10,622.3	16.7	21.1	-85.16	94.8	-1,718.7	886.9	848.9	37.93	23.380			
10,800.0	10,722.3	10,930.2	10,722.3	16.8	21.2	-85.16	94.8	-1,718.7	886.9	848.8	38.04	23.314			
10,900.0	10,822.3	11,030.2	10,822.3	16.8	21.2	-85.16	94.8	-1,718.7	886.9	848.7	38.15	23.247			
11,000.0	10,922.3	11,130.2	10,922.3	16.9	21.3	-85.16	94.8	-1,718.7	886.9	848.6	38.26	23.181			
11,100.0	11,022.3	11,230.2	11,022.3	17.0	21.3	-85.16	94.8	-1,718.7	886.9	848.5	38.37	23.115			
11,200.0	11,122.3	11,330.2	11,122.3	17.0	21.4	-85.16	94.8	-1,718.7	886.9	848.4	38.48	23.049			
11,300.0	11,222.3	11,430.2	11,222.3	17.1	21.4	-85.16	94.8	-1,718.7	886.9	848.3	38.59	22.983			
11,400.0	11,322.3	11,530.2	11,322.3	17.2	21.5	-85.16	94.8	-1,718.7	886.9	848.2	38.70	22.917			
11,500.0	11,422.3	11,630.2	11,422.3	17.2	21.5	-85.16	94.8	-1,718.7	886.9	848.1	38.81	22.852			
11,600.0	11,522.3	11,730.2	11,522.3	17.3	21.6	-85.16	94.8	-1,718.7	886.9	848.0	38.92	22.786			
11,700.0	11,622.3	11,830.2	11,622.3	17.4	21.6	-85.16	94.8	-1,718.7	886.9	847.8	39.03	22.721			
11,800.0	11,722.3	11,930.2	11,722.3	17.5	21.7	-85.16	94.8	-1,718.7	886.9	847.7	39.15	22.656			
11,900.0	11,822.3	12,030.2	11,822.3	17.5	21.7	-85.16	94.8	-1,718.7	886.9	847.6	39.26	22.591			
12,000.0	11,922.3	12,130.2	11,922.3	17.6	21.8	-85.16	94.8	-1,718.7	886.9	847.5	39.37	22.526			
12,100.0	12,022.3	12,230.2	12,022.3	17.7	21.8	-85.16	94.8	-1,718.7	886.9	847.4	39.48	22.462			
12,200.0	12,122.3	12,330.2	12,122.3	17.7	21.9	-85.16	94.8	-1,718.7	886.9	847.3	39.60	22.398			
12,300.0	12,222.3	12,430.2	12,222.3	17.8	21.9	-85.16	94.8	-1,718.7	886.9	847.2	39.71	22.335			
12,350.2	12,272.5	12,480.4	12,272.5	17.8	21.9	-85.16	94.8	-1,718.7	886.9	847.1	39.75	22.312			
12,375.0	12,297.3	12,510.5	12,302.5	17.8	21.9	95.39	93.9	-1,718.7	886.9	847.1	39.75	22.310			
12,400.0	12,322.2	12,540.7	12,332.7	17.8	21.9	95.36	91.0	-1,718.7	886.8	847.1	39.75	22.313			
12,425.0	12,347.0	12,571.0	12,362.5	17.8	21.9	95.32	86.2	-1,718.6	886.8	847.0	39.74	22.316			
12,450.0	12,371.6	12,601.1	12,391.9	17.8	21.9	95.25	79.6	-1,718.6	886.7	846.9	39.73	22.319			
12,475.0	12,395.9	12,631.2	12,420.8	17.8	21.9	95.17	71.2	-1,718.5	886.6	846.8	39.72	22.322			
12,500.0	12,419.8	12,661.1	12,448.9	17.8	21.9	95.07	61.0	-1,718.4	886.4	846.7	39.71	22.325			
12,525.0	12,443.4	12,690.9	12,476.2	17.8	21.9	94.96	49.2	-1,718.3	886.3	846.6	39.69	22.327			
12,550.0	12,466.5	12,720.5	12,502.6	17.8	21.9	94.83	35.7	-1,718.1	886.1	846.4	39.68	22.329			
12,575.0	12,489.1	12,750.0	12,528.0	17.7	21.9	94.68	20.7	-1,718.0	885.9	846.2	39.67	22.332			
12,600.0	12,511.1	12,779.3	12,552.2	17.7	21.9	94.52	4.3	-1,717.8	885.7	846.1	39.66	22.334			
12,625.0	12,532.4	12,808.3	12,575.2	17.7	21.9	94.34	-13.4	-1,717.6	885.5	845.9	39.64	22.336			
12,650.0	12,553.0	12,837.1	12,597.0	17.7	21.9	94.16	-32.4	-1,717.5	885.3	845.7	39.63	22.338			
12,675.0	12,572.8	12,865.7	12,617.3	17.7	21.9	93.96	-52.4	-1,717.3	885.1	845.4	39.62	22.340			
12,700.0	12,591.8	12,894.1	12,636.3	17.7	21.9	93.74	-73.5	-1,717.0	884.8	845.2	39.61	22.341			
12,725.0	12,610.0	12,922.2	12,653.9	17.7	21.9	93.52	-95.4	-1,716.8	884.6	845.0	39.59	22.342			
12,750.0	12,627.2	12,950.0	12,670.0	17.7	21.9	93.29	-118.1	-1,716.6	884.4	844.8	39.59	22.341			
12,775.0	12,643.4	12,977.6	12,684.6	17.7	22.0	93.05	-141.5	-1,716.4	884.2	844.6	39.58	22.339			
12,800.0	12,658.7	13,005.0	12,697.7	17.7	22.0	92.80	-165.5	-1,716.1	884.0	844.4	39.58	22.336			
12,825.0	12,672.8	13,032.0	12,709.3	17.7	22.0	92.55	-189.9	-1,715.9	883.8	844.2	39.58	22.330			
12,850.0	12,685.9	13,058.8	12,719.5	17.8	22.1	92.29	-214.7	-1,715.6	883.6	844.0	39.58	22.323			
12,875.0	12,697.8	13,085.3	12,728.1	17.8	22.1	92.02	-239.8	-1,715.4	883.5	843.9	39.60	22.312			
12,900.0	12,708.6	13,111.6	12,735.3	17.8	22.2	91.76	-265.1	-1,715.1	883.3	843.7	39.61	22.298			
12,925.0	12,718.2	13,137.6	12,741.0	17.8	22.2	91.48	-290.4	-1,714.9	883.2	843.6	39.64	22.282			

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 804H - Slot BOATER FED COM 804H
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 804H	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,950.0	12,726.5	13,163.4	12,745.3	17.9	22.3	91.21	-315.8	-1,714.6	883.1	843.4	39.67	22.261			
12,975.0	12,733.6	13,188.9	12,748.2	17.9	22.4	90.93	-341.2	-1,714.4	883.0	843.3	39.71	22.237			
13,000.0	12,739.5	13,214.2	12,749.7	17.9	22.4	90.65	-366.4	-1,714.1	882.9	843.2	39.75	22.210			
13,025.0	12,744.1	13,239.1	12,750.0	18.0	22.5	90.38	-391.3	-1,713.9	882.9	843.1	39.81	22.178			
13,050.0	12,747.3	13,263.9	12,750.0	18.0	22.6	90.17	-416.1	-1,713.6	882.9	843.0	39.87	22.142			
13,075.0	12,749.3	13,288.8	12,750.0	18.1	22.6	90.04	-441.0	-1,713.4	882.9	842.9	39.94	22.105			
13,100.0	12,750.0	13,313.8	12,750.0	18.1	22.7	90.00	-466.0	-1,713.1	882.9	842.8	40.01	22.064			
13,100.2	12,750.0	13,314.0	12,750.0	18.1	22.7	90.00	-466.2	-1,713.1	882.9	842.8	40.01	22.064			
13,200.0	12,750.0	13,413.8	12,750.0	18.4	23.0	90.00	-566.0	-1,712.1	882.8	842.5	40.36	21.875			
13,300.0	12,750.0	13,513.8	12,750.0	18.7	23.3	90.00	-666.0	-1,711.1	882.8	842.1	40.77	21.652			
13,400.0	12,750.0	13,613.8	12,750.0	19.0	23.6	90.00	-766.0	-1,710.2	882.8	841.6	41.26	21.399			
13,500.0	12,750.0	13,713.8	12,750.0	19.3	24.0	90.00	-866.0	-1,709.2	882.8	841.0	41.80	21.119			
13,600.0	12,750.0	13,813.8	12,750.0	19.7	24.3	90.00	-966.0	-1,708.2	882.8	840.4	42.41	20.817			
13,700.0	12,750.0	13,913.8	12,750.0	20.0	24.7	90.00	-1,066.0	-1,707.2	882.8	839.7	43.07	20.495			
13,800.0	12,750.0	14,013.8	12,750.0	20.5	25.1	90.00	-1,166.0	-1,706.2	882.7	839.0	43.79	20.157			
13,900.0	12,750.0	14,113.8	12,750.0	20.9	25.5	90.00	-1,266.0	-1,705.2	882.7	838.2	44.57	19.807			
14,000.0	12,750.0	14,213.8	12,750.0	21.4	26.0	90.00	-1,366.0	-1,704.2	882.7	837.3	45.39	19.446			
14,100.0	12,750.0	14,313.8	12,750.0	21.8	26.4	90.00	-1,466.0	-1,703.2	882.7	836.4	46.27	19.079			
14,200.0	12,750.0	14,413.8	12,750.0	22.3	26.9	90.00	-1,566.0	-1,702.2	882.7	835.5	47.18	18.707			
14,300.0	12,750.0	14,513.8	12,750.0	22.9	27.4	90.00	-1,666.0	-1,701.2	882.7	834.5	48.14	18.334			
14,400.0	12,750.0	14,613.8	12,750.0	23.4	27.9	90.00	-1,766.0	-1,700.2	882.7	833.5	49.15	17.960			
14,500.0	12,750.0	14,713.8	12,750.0	23.9	28.4	90.00	-1,865.9	-1,699.2	882.6	832.5	50.18	17.588			
14,600.0	12,750.0	14,813.8	12,750.0	24.5	28.9	90.00	-1,965.9	-1,698.2	882.6	831.4	51.26	17.219			
14,700.0	12,750.0	14,913.8	12,750.0	25.1	29.4	90.00	-2,065.9	-1,697.2	882.6	830.2	52.36	16.855			
14,800.0	12,750.0	15,013.8	12,750.0	25.7	30.0	90.00	-2,165.9	-1,696.2	882.6	829.1	53.50	16.496			
14,900.0	12,750.0	15,113.8	12,750.0	26.3	30.6	90.00	-2,265.9	-1,695.2	882.6	827.9	54.67	16.144			
15,000.0	12,750.0	15,213.8	12,750.0	27.0	31.1	90.00	-2,365.9	-1,694.2	882.6	826.7	55.86	15.799			
15,100.0	12,750.0	15,313.8	12,750.0	27.6	31.7	90.00	-2,465.9	-1,693.2	882.6	825.5	57.08	15.461			
15,200.0	12,750.0	15,413.8	12,750.0	28.2	32.3	90.00	-2,565.9	-1,692.2	882.5	824.2	58.33	15.131			
15,300.0	12,750.0	15,513.8	12,750.0	28.9	32.9	90.00	-2,665.9	-1,691.3	882.5	822.9	59.59	14.809			
15,400.0	12,750.0	15,613.8	12,750.0	29.6	33.5	90.00	-2,765.9	-1,690.3	882.5	821.6	60.88	14.496			
15,500.0	12,750.0	15,713.8	12,750.0	30.3	34.2	90.00	-2,865.9	-1,689.3	882.5	820.3	62.19	14.191			
15,600.0	12,750.0	15,813.8	12,750.0	31.0	34.8	90.00	-2,965.9	-1,688.3	882.5	819.0	63.51	13.895			
15,700.0	12,750.0	15,913.8	12,750.0	31.6	35.4	90.00	-3,065.9	-1,687.3	882.5	817.6	64.85	13.607			
15,800.0	12,750.0	16,013.8	12,750.0	32.4	36.1	90.00	-3,165.9	-1,686.3	882.4	816.2	66.21	13.327			
15,900.0	12,750.0	16,113.8	12,750.0	33.1	36.7	90.00	-3,265.9	-1,685.3	882.4	814.8	67.59	13.056			
16,000.0	12,750.0	16,213.8	12,750.0	33.8	37.4	90.00	-3,365.9	-1,684.3	882.4	813.4	68.98	12.793			
16,100.0	12,750.0	16,313.8	12,750.0	34.5	38.1	90.00	-3,465.9	-1,683.3	882.4	812.0	70.38	12.538			
16,200.0	12,750.0	16,413.8	12,750.0	35.2	38.8	90.00	-3,565.9	-1,682.3	882.4	810.6	71.79	12.291			
16,300.0	12,750.0	16,513.8	12,750.0	36.0	39.4	90.00	-3,665.9	-1,681.3	882.4	809.1	73.22	12.051			
16,400.0	12,750.0	16,613.8	12,750.0	36.7	40.1	90.00	-3,765.9	-1,680.3	882.4	807.7	74.66	11.819			
16,500.0	12,750.0	16,713.8	12,750.0	37.5	40.8	90.00	-3,865.8	-1,679.3	882.3	806.2	76.10	11.594			
16,600.0	12,750.0	16,813.8	12,750.0	38.2	41.5	90.00	-3,965.8	-1,678.3	882.3	804.8	77.56	11.376			
16,700.0	12,750.0	16,913.8	12,750.0	39.0	42.3	90.00	-4,065.8	-1,677.3	882.3	803.3	79.03	11.164			
16,800.0	12,750.0	17,013.8	12,750.0	39.7	43.0	90.00	-4,165.8	-1,676.3	882.3	801.8	80.51	10.959			
16,900.0	12,750.0	17,113.8	12,750.0	40.5	43.7	90.00	-4,265.8	-1,675.3	882.3	800.3	81.99	10.760			
17,000.0	12,750.0	17,213.8	12,750.0	41.3	44.4	90.00	-4,365.8	-1,674.3	882.3	798.8	83.49	10.568			
17,100.0	12,750.0	17,313.8	12,750.0	42.0	45.1	90.00	-4,465.8	-1,673.3	882.2	797.3	84.99	10.381			
17,200.0	12,750.0	17,413.8	12,750.0	42.8	45.9	90.00	-4,565.8	-1,672.4	882.2	795.7	86.49	10.200			
17,300.0	12,750.0	17,513.8	12,750.0	43.6	46.6	90.00	-4,665.8	-1,671.4	882.2	794.2	88.01	10.024			

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 804H - Slot BOATER FED COM 804H
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 804H	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		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	12,750.0	17,613.8	12,750.0	44.4	47.4	90.00	-4,765.8	-1,670.4	882.2	792.7	89.53	9.854				
17,500.0	12,750.0	17,713.8	12,750.0	45.2	48.1	90.00	-4,865.8	-1,669.4	882.2	791.1	91.06	9.688				
17,600.0	12,750.0	17,813.8	12,750.0	45.9	48.9	90.00	-4,965.8	-1,668.4	882.2	789.6	92.59	9.528				
17,700.0	12,750.0	17,913.8	12,750.0	46.7	49.6	90.00	-5,065.8	-1,667.4	882.2	788.0	94.13	9.372				
17,800.0	12,750.0	18,013.8	12,750.0	47.5	50.4	90.00	-5,165.8	-1,666.4	882.1	786.5	95.67	9.220				
17,900.0	12,750.0	18,113.8	12,750.0	48.3	51.1	90.00	-5,265.8	-1,665.4	882.1	784.9	97.22	9.073				
18,000.0	12,750.0	18,213.8	12,750.0	49.1	51.9	90.00	-5,365.8	-1,664.4	882.1	783.3	98.78	8.930				
18,100.0	12,750.0	18,313.8	12,750.0	49.9	52.6	90.00	-5,465.8	-1,663.4	882.1	781.8	100.34	8.791				
18,200.0	12,750.0	18,413.8	12,750.0	50.7	53.4	90.00	-5,565.8	-1,662.4	882.1	780.2	101.90	8.656				
18,300.0	12,750.0	18,513.8	12,750.0	51.5	54.2	90.00	-5,665.8	-1,661.4	882.1	778.6	103.47	8.525				
18,400.0	12,750.0	18,613.8	12,750.0	52.3	55.0	90.00	-5,765.8	-1,660.4	882.0	777.0	105.04	8.397				
18,500.0	12,750.0	18,713.8	12,750.0	53.1	55.7	90.00	-5,865.7	-1,659.4	882.0	775.4	106.61	8.273				
18,600.0	12,750.0	18,813.8	12,750.0	53.9	56.5	90.00	-5,965.7	-1,658.4	882.0	773.8	108.19	8.152				
18,700.0	12,750.0	18,913.8	12,750.0	54.7	57.3	90.00	-6,065.7	-1,657.4	882.0	772.2	109.77	8.035				
18,800.0	12,750.0	19,013.8	12,750.0	55.5	58.1	90.00	-6,165.7	-1,656.4	882.0	770.6	111.36	7.920				
18,900.0	12,750.0	19,113.8	12,750.0	56.3	58.9	90.00	-6,265.7	-1,655.4	882.0	769.0	112.95	7.809				
19,000.0	12,750.0	19,213.8	12,750.0	57.2	59.6	90.00	-6,365.7	-1,654.4	882.0	767.4	114.54	7.700				
19,100.0	12,750.0	19,313.8	12,750.0	58.0	60.4	90.00	-6,465.7	-1,653.4	881.9	765.8	116.13	7.594				
19,200.0	12,750.0	19,413.8	12,750.0	58.8	61.2	90.00	-6,565.7	-1,652.5	881.9	764.2	117.73	7.491				
19,300.0	12,750.0	19,513.8	12,750.0	59.6	62.0	90.00	-6,665.7	-1,651.5	881.9	762.6	119.33	7.391				
19,400.0	12,750.0	19,613.8	12,750.0	60.4	62.8	90.00	-6,765.7	-1,650.5	881.9	761.0	120.93	7.293				
19,500.0	12,750.0	19,713.8	12,750.0	61.2	63.6	90.00	-6,865.7	-1,649.5	881.9	759.3	122.54	7.197				
19,600.0	12,750.0	19,813.8	12,750.0	62.1	64.4	90.00	-6,965.7	-1,648.5	881.9	757.7	124.14	7.104				
19,700.0	12,750.0	19,913.8	12,750.0	62.9	65.2	90.00	-7,065.7	-1,647.5	881.8	756.1	125.75	7.013				
19,800.0	12,750.0	20,013.8	12,750.0	63.7	66.0	90.00	-7,165.7	-1,646.5	881.8	754.5	127.36	6.924				
19,900.0	12,750.0	20,113.8	12,750.0	64.5	66.8	90.00	-7,265.7	-1,645.5	881.8	752.8	128.98	6.837				
20,000.0	12,750.0	20,213.8	12,750.0	65.4	67.6	90.00	-7,365.7	-1,644.5	881.8	751.2	130.59	6.752				
20,100.0	12,750.0	20,313.8	12,750.0	66.2	68.4	90.00	-7,465.7	-1,643.5	881.8	749.6	132.21	6.669				
20,200.0	12,750.0	20,413.8	12,750.0	67.0	69.2	90.00	-7,565.7	-1,642.5	881.8	747.9	133.83	6.589				
20,300.0	12,750.0	20,513.8	12,750.0	67.8	70.0	90.00	-7,665.7	-1,641.5	881.8	746.3	135.45	6.510				
20,400.0	12,750.0	20,613.8	12,750.0	68.7	70.8	90.00	-7,765.7	-1,640.5	881.7	744.7	137.08	6.432				
20,500.0	12,750.0	20,713.8	12,750.0	69.5	71.6	90.00	-7,865.7	-1,639.5	881.7	743.0	138.70	6.357				
20,600.0	12,750.0	20,813.8	12,750.0	70.3	72.4	90.00	-7,965.6	-1,638.5	881.7	741.4	140.33	6.283				
20,700.0	12,750.0	20,913.8	12,750.0	71.1	73.3	90.00	-8,065.6	-1,637.5	881.7	739.7	141.96	6.211				
20,800.0	12,750.0	21,013.8	12,750.0	72.0	74.1	90.00	-8,165.6	-1,636.5	881.7	738.1	143.59	6.140				
20,900.0	12,750.0	21,113.8	12,750.0	72.8	74.9	90.00	-8,265.6	-1,635.5	881.7	736.4	145.22	6.071				
21,000.0	12,750.0	21,213.8	12,750.0	73.6	75.7	90.00	-8,365.6	-1,634.5	881.6	734.8	146.85	6.004				
21,100.0	12,750.0	21,313.8	12,750.0	74.5	76.5	90.00	-8,465.6	-1,633.6	881.6	733.1	148.48	5.938				
21,200.0	12,750.0	21,413.8	12,750.0	75.3	77.3	90.00	-8,565.6	-1,632.6	881.6	731.5	150.12	5.873				
21,300.0	12,750.0	21,513.8	12,750.0	76.1	78.1	90.00	-8,665.6	-1,631.6	881.6	729.8	151.76	5.809				
21,400.0	12,750.0	21,613.8	12,750.0	77.0	79.0	90.00	-8,765.6	-1,630.6	881.6	728.2	153.40	5.747				
21,500.0	12,750.0	21,713.8	12,750.0	77.8	79.8	90.00	-8,865.6	-1,629.6	881.6	726.5	155.03	5.686				
21,600.0	12,750.0	21,813.8	12,750.0	78.6	80.6	90.00	-8,965.6	-1,628.6	881.6	724.9	156.67	5.627				
21,700.0	12,750.0	21,913.8	12,750.0	79.5	81.4	90.00	-9,065.6	-1,627.6	881.5	723.2	158.32	5.568				
21,800.0	12,750.0	22,013.8	12,750.0	80.3	82.2	90.00	-9,165.6	-1,626.6	881.5	721.6	159.96	5.511				
21,900.0	12,750.0	22,113.8	12,750.0	81.1	83.1	90.00	-9,265.6	-1,625.6	881.5	719.9	161.60	5.455				
22,000.0	12,750.0	22,213.8	12,750.0	82.0	83.9	90.00	-9,365.6	-1,624.6	881.5	718.2	163.25	5.400				
22,100.0	12,750.0	22,313.8	12,750.0	82.8	84.7	90.00	-9,465.6	-1,623.6	881.5	716.6	164.89	5.346				
22,200.0	12,750.0	22,413.8	12,750.0	83.6	85.5	90.00	-9,565.6	-1,622.6	881.5	714.9	166.54	5.293				
22,300.0	12,750.0	22,513.8	12,750.0	84.5	86.4	90.00	-9,665.6	-1,621.6	881.4	713.3	168.19	5.241				
22,400.0	12,750.0	22,613.8	12,750.0	85.3	87.2	90.00	-9,765.6	-1,620.6	881.4	711.6	169.84	5.190				

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 804H - Slot BOATER FED COM 804H
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 804H	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		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)					
22,500.0	12,750.0	22,713.8	12,750.0	86.2	88.0	90.00	-9,865.6	-1,619.6	881.4	709.9	171.49	5.140			
22,600.0	12,750.0	22,813.8	12,750.0	87.0	88.8	90.00	-9,965.5	-1,618.6	881.4	708.3	173.14	5.091			
22,700.0	12,750.0	22,913.8	12,750.0	87.8	89.7	90.00	-10,065.5	-1,617.6	881.4	706.6	174.79	5.043			
22,800.0	12,750.0	23,013.8	12,750.0	88.7	90.5	90.00	-10,165.5	-1,616.6	881.4	704.9	176.44	4.995			
22,900.0	12,750.0	23,113.8	12,750.0	89.5	91.3	90.00	-10,265.5	-1,615.6	881.4	703.3	178.09	4.949			
23,000.0	12,750.0	23,213.8	12,750.0	90.4	92.1	90.00	-10,365.5	-1,614.7	881.3	701.6	179.75	4.903			
23,100.0	12,750.0	23,313.8	12,750.0	91.2	93.0	90.00	-10,465.5	-1,613.7	881.3	699.9	181.40	4.858			
23,200.0	12,750.0	23,413.8	12,750.0	92.0	93.8	90.00	-10,565.5	-1,612.7	881.3	698.3	183.05	4.814			
23,300.0	12,750.0	23,513.8	12,750.0	92.9	94.6	90.00	-10,665.5	-1,611.7	881.3	696.6	184.71	4.771			
23,400.0	12,750.0	23,613.8	12,750.0	93.7	95.5	90.00	-10,765.5	-1,610.7	881.3	694.9	186.37	4.729			
23,500.0	12,750.0	23,713.8	12,750.0	94.6	96.3	90.00	-10,865.5	-1,609.7	881.3	693.2	188.02	4.687			
23,600.0	12,750.0	23,813.8	12,750.0	95.4	97.1	90.00	-10,965.5	-1,608.7	881.2	691.6	189.68	4.646			
23,700.0	12,750.0	23,913.8	12,750.0	96.3	98.0	90.00	-11,065.5	-1,607.7	881.2	689.9	191.34	4.606			
23,785.9	12,750.0	23,999.7	12,750.0	97.0	98.7	90.00	-11,151.4	-1,606.8	881.2	688.5	192.77	4.571			
23,800.0	12,750.0	24,000.0	12,750.0	97.1	98.7	90.00	-11,151.7	-1,606.8	881.3	688.2	193.10	4.564			
23,900.0	12,750.0	24,087.0	12,750.0	97.9	99.4	90.00	-11,238.7	-1,607.3	882.9	688.1	194.82	4.532			
24,000.0	12,750.0	24,174.1	12,750.0	98.8	100.1	90.00	-11,325.8	-1,610.0	887.0	690.5	196.49	4.514			
24,100.0	12,750.0	24,274.0	12,750.0	99.6	101.0	90.00	-11,425.6	-1,613.5	891.5	693.3	198.15	4.499			
24,200.0	12,750.0	24,373.9	12,750.0	100.5	101.8	90.00	-11,525.4	-1,617.0	895.9	696.1	199.80	4.484			
24,300.0	12,750.0	24,517.4	12,750.0	101.3	103.0	90.00	-11,668.9	-1,618.6	898.1	696.8	201.27	4.462			
24,333.1	12,750.0	24,547.2	12,750.0	101.6	103.3	90.00	-11,698.7	-1,618.4	898.1	696.3	201.85	4.449			
24,400.0	12,750.0	24,614.1	12,750.0	102.2	103.8	90.00	-11,765.6	-1,617.7	898.1	695.1	202.96	4.425			
24,500.0	12,750.0	24,714.1	12,750.0	103.0	104.6	90.00	-11,865.6	-1,616.7	898.1	693.5	204.62	4.389			
24,600.0	12,750.0	24,814.1	12,750.0	103.9	105.5	90.00	-11,965.6	-1,615.7	898.1	691.8	206.29	4.353			
24,700.0	12,750.0	24,914.1	12,750.0	104.7	106.3	90.00	-12,065.6	-1,614.7	898.0	690.1	207.95	4.319			
24,800.0	12,750.0	25,014.1	12,750.0	105.5	107.2	90.00	-12,165.6	-1,613.7	898.0	688.4	209.62	4.284			
24,900.0	12,750.0	25,114.1	12,750.0	106.4	108.0	90.00	-12,265.6	-1,612.7	898.0	686.7	211.28	4.250			
25,000.0	12,750.0	25,214.1	12,750.0	107.2	108.8	90.00	-12,365.6	-1,611.7	898.0	685.1	212.95	4.217			
25,100.0	12,750.0	25,314.1	12,750.0	108.1	109.7	90.00	-12,465.6	-1,610.7	898.0	683.4	214.61	4.184			
25,200.0	12,750.0	25,414.1	12,750.0	108.9	110.5	90.00	-12,565.6	-1,609.7	898.0	681.7	216.28	4.152			
25,300.0	12,750.0	25,514.1	12,750.0	109.8	111.3	90.00	-12,665.6	-1,608.7	898.0	680.0	217.94	4.120			
25,400.0	12,750.0	25,614.1	12,750.0	110.6	112.2	90.00	-12,765.6	-1,607.7	897.9	678.3	219.61	4.089			
25,500.0	12,750.0	25,717.4	12,750.0	111.5	113.0	90.00	-12,868.8	-1,606.7	897.9	676.7	221.25	4.058			
25,600.0	12,750.0	25,852.1	12,750.0	112.3	114.2	90.00	-13,003.5	-1,601.8	895.1	672.7	222.44	4.024			
25,700.0	12,750.0	25,952.1	12,750.0	113.2	115.0	90.00	-13,103.3	-1,596.6	890.9	666.8	224.11	3.975			
25,800.0	12,750.0	26,052.0	12,750.0	114.0	115.9	90.00	-13,203.0	-1,591.3	886.6	660.8	225.78	3.927			
25,900.0	12,750.0	26,134.6	12,750.0	114.9	116.5	90.00	-13,285.6	-1,587.6	883.1	655.4	227.73	3.878			
26,000.0	12,750.0	26,214.4	12,750.0	115.7	117.2	90.00	-13,365.4	-1,586.0	882.1	652.5	229.60	3.842			
26,070.7	12,750.0	26,284.3	12,750.0	116.3	117.7	90.00	-13,435.3	-1,585.3	882.1	651.5	230.63	3.825			
26,072.7	12,750.0	26,284.3	12,750.0	116.3	117.7	90.00	-13,435.3	-1,585.3	882.1	651.4	230.68	3.824			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.4	60.0	60.0						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.4	60.0	60.0	58.0	1.99	30.132			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.4	60.0	60.0	56.7	3.31	18.118			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.4	60.0	60.0	55.8	4.20	14.301			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.4	60.0	60.0	55.1	4.91	12.215			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.4	60.0	60.0	54.5	5.53	10.844			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.4	60.0	60.0	53.9	6.09	9.852			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.4	60.0	60.0	53.4	6.60	9.089			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.4	60.0	60.0	52.9	7.08	8.479			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	0.4	60.0	60.0	52.5	7.52	7.975			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	0.4	60.0	60.0	52.1	7.95	7.550			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	0.4	60.0	60.0	51.6	8.35	7.184			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	0.4	60.0	60.0	51.3	8.74	6.865			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.4	60.0	60.0	50.9	9.11	6.584			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.4	60.0	60.0	50.5	9.47	6.334			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.4	60.0	60.0	50.2	9.82	6.108			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.4	60.0	60.0	49.8	10.16	5.904			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.4	60.0	60.0	49.5	10.49	5.718			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.4	60.0	60.0	49.2	10.82	5.548			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.4	60.0	60.0	48.9	11.13	5.390			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.4	60.0	60.0	48.6	11.44	5.245 CC, ES			
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.8	179.90	-1.3	60.0	61.7	49.9	11.79	5.233			
2,200.0	2,199.8	2,199.7	2,199.5	6.0	6.0	-175.63	-6.5	59.8	67.1	55.0	12.11	5.544			
2,300.0	2,299.5	2,298.6	2,298.1	6.2	6.2	-169.66	-15.1	59.6	76.8	64.4	12.42	6.189			
2,400.0	2,398.7	2,396.5	2,395.2	6.4	6.4	-163.54	-27.0	59.2	91.5	78.7	12.73	7.186			
2,500.0	2,497.5	2,493.4	2,491.0	6.6	6.6	-158.15	-41.8	58.8	111.1	98.1	12.98	8.563			
2,570.0	2,566.3	2,561.3	2,558.0	6.7	6.7	-155.47	-52.7	58.5	127.4	114.2	13.14	9.692			
2,600.0	2,595.7	2,590.3	2,586.6	6.7	6.8	-154.64	-57.3	58.4	134.7	121.5	13.20	10.207			
2,700.0	2,693.7	2,687.1	2,682.1	6.9	7.0	-152.42	-72.9	58.0	159.3	145.8	13.47	11.830			
2,800.0	2,791.7	2,783.8	2,777.6	7.0	7.3	-150.79	-88.4	57.5	184.1	170.3	13.75	13.386			
2,900.0	2,889.7	2,880.6	2,873.2	7.1	7.5	-149.55	-104.0	57.1	209.0	194.9	14.05	14.870			
3,000.0	2,987.8	2,977.4	2,968.7	7.3	7.8	-148.57	-119.5	56.7	233.9	219.6	14.37	16.283			
3,100.0	3,085.8	3,074.1	3,064.2	7.4	8.1	-147.78	-135.0	56.2	259.0	244.3	14.69	17.624			
3,200.0	3,183.8	3,170.9	3,159.7	7.6	8.4	-147.13	-150.6	55.8	284.0	269.0	15.03	18.895			
3,300.0	3,281.8	3,267.7	3,255.2	7.7	8.7	-146.59	-166.1	55.4	309.1	293.7	15.38	20.099			
3,400.0	3,379.9	3,364.4	3,350.7	7.9	9.0	-146.12	-181.7	54.9	334.2	318.5	15.73	21.239			
3,500.0	3,477.9	3,461.2	3,446.2	8.1	9.4	-145.73	-197.2	54.5	359.3	343.2	16.10	22.316			
3,600.0	3,575.9	3,557.9	3,541.7	8.2	9.7	-145.38	-212.8	54.1	384.4	368.0	16.47	23.335			
3,700.0	3,674.0	3,654.7	3,637.2	8.4	10.1	-145.08	-228.3	53.6	409.6	392.7	16.86	24.298			
3,800.0	3,772.0	3,751.5	3,732.7	8.6	10.4	-144.81	-243.8	53.2	434.7	417.5	17.25	25.209			
3,900.0	3,870.0	3,848.2	3,828.2	8.7	10.8	-144.57	-259.4	52.8	459.9	442.3	17.64	26.070			
4,000.0	3,968.0	3,945.0	3,923.7	8.9	11.2	-144.35	-274.9	52.4	485.1	467.0	18.04	26.885			
4,100.0	4,066.1	4,041.8	4,019.3	9.1	11.5	-144.16	-290.5	51.9	510.2	491.8	18.45	27.654			
4,200.0	4,164.1	4,140.6	4,116.8	9.3	11.9	-143.99	-306.2	51.5	535.4	516.5	18.87	28.368			
4,300.0	4,262.1	4,243.2	4,218.3	9.4	12.3	-143.96	-321.1	51.1	559.7	540.4	19.30	29.001			
4,400.0	4,360.1	4,346.3	4,320.6	9.6	12.7	-144.09	-334.2	50.7	583.0	563.3	19.71	29.573			
4,500.0	4,458.2	4,449.9	4,423.5	9.8	13.1	-144.35	-345.6	50.4	605.3	585.2	20.11	30.097			
4,600.0	4,556.2	4,553.8	4,527.1	10.0	13.4	-144.74	-355.1	50.1	626.7	606.2	20.49	30.580			
4,700.0	4,654.2	4,658.1	4,631.0	10.2	13.8	-145.25	-362.8	49.9	647.0	626.2	20.85	31.030			
4,800.0	4,752.2	4,762.6	4,735.4	10.3	14.1	-145.86	-368.5	49.8	666.5	645.3	21.19	31.456			
4,900.0	4,850.3	4,867.3	4,840.0	10.5	14.4	-146.57	-372.4	49.6	685.0	663.5	21.50	31.866			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
5,000.0	4,948.3	4,972.0	4,944.7	10.7	14.7	-147.38	-374.4	49.6	702.6	680.9	21.77	32.275			
5,100.0	5,046.3	5,073.7	5,046.3	10.9	14.8	-148.24	-374.7	49.6	719.6	697.6	21.95	32.786			
5,200.0	5,144.4	5,171.7	5,144.4	11.1	14.9	-149.04	-374.7	49.6	736.6	714.4	22.12	33.304			
5,300.0	5,242.4	5,269.7	5,242.4	11.3	14.9	-149.81	-374.7	49.6	753.7	731.4	22.30	33.801			
5,400.0	5,340.4	5,367.7	5,340.4	11.5	14.9	-150.55	-374.7	49.6	770.9	748.4	22.49	34.284			
5,500.0	5,438.4	5,465.8	5,438.4	11.7	15.0	-151.25	-374.7	49.6	788.3	765.6	22.68	34.754			
5,600.0	5,536.5	5,563.8	5,536.5	11.9	15.0	-151.92	-374.7	49.6	805.7	782.8	22.88	35.211			
5,700.0	5,634.5	5,661.8	5,634.5	12.1	15.1	-152.57	-374.7	49.6	823.3	800.2	23.09	35.656			
5,800.0	5,732.5	5,759.8	5,732.5	12.3	15.1	-153.19	-374.7	49.6	840.9	817.6	23.30	36.088			
5,900.0	5,830.5	5,857.9	5,830.5	12.4	15.2	-153.78	-374.7	49.6	858.7	835.2	23.52	36.508			
5,937.7	5,867.5	5,894.8	5,867.5	12.5	15.2	-153.99	-374.7	49.6	865.4	841.8	23.59	36.687			
6,000.0	5,928.6	5,956.0	5,928.6	12.6	15.2	-154.38	-374.7	49.6	876.2	852.5	23.71	36.955			
6,100.0	6,027.0	6,054.4	6,027.0	12.8	15.3	-154.95	-374.7	49.6	892.4	868.5	23.94	37.282			
6,200.0	6,125.7	6,153.0	6,125.7	13.0	15.3	-155.44	-374.7	49.6	907.1	882.9	24.17	37.537			
6,300.0	6,224.7	6,252.0	6,224.7	13.2	15.4	-155.87	-374.7	49.6	920.2	895.8	24.39	37.722			
6,400.0	6,323.9	6,351.2	6,323.9	13.4	15.4	-156.23	-374.7	49.6	931.8	907.2	24.62	37.842			
6,500.0	6,423.3	6,450.6	6,423.3	13.5	15.5	-156.54	-374.7	49.6	941.8	917.0	24.85	37.897			
6,600.0	6,522.8	6,550.2	6,522.8	13.7	15.5	-156.79	-374.7	49.6	950.3	925.2	25.08	37.892			
6,700.0	6,622.6	6,649.9	6,622.6	13.9	15.6	-157.00	-374.7	49.6	957.2	931.9	25.30	37.829			
6,800.0	6,722.4	6,749.7	6,722.4	14.0	15.6	-157.15	-374.7	49.6	962.4	936.9	25.52	37.712			
6,900.0	6,822.3	6,849.6	6,822.3	14.2	15.7	-157.26	-374.7	49.6	966.1	940.4	25.73	37.544			
7,000.0	6,922.3	6,949.6	6,922.3	14.3	15.7	-157.31	-374.7	49.6	968.1	942.2	25.93	37.331			
7,077.7	7,000.0	7,027.3	7,000.0	14.4	15.8	114.04	-374.7	49.6	968.6	942.6	26.05	37.190			
7,100.0	7,022.3	7,049.6	7,022.3	14.4	15.8	114.04	-374.7	49.6	968.6	942.6	26.06	37.164			
7,200.0	7,122.3	7,149.6	7,122.3	14.5	15.8	114.04	-374.7	49.6	968.6	942.4	26.20	36.976			
7,300.0	7,222.3	7,249.6	7,222.3	14.5	15.9	114.04	-374.7	49.6	968.6	942.3	26.32	36.798			
7,400.0	7,322.3	7,349.6	7,322.3	14.6	15.9	114.04	-374.7	49.6	968.6	942.2	26.45	36.622			
7,500.0	7,422.3	7,449.6	7,422.3	14.7	16.0	114.04	-374.7	49.6	968.6	942.1	26.58	36.447			
7,600.0	7,522.3	7,549.6	7,522.3	14.7	16.0	114.04	-374.7	49.6	968.6	941.9	26.70	36.273			
7,700.0	7,622.3	7,649.6	7,622.3	14.8	16.1	114.04	-374.7	49.6	968.6	941.8	26.83	36.101			
7,800.0	7,722.3	7,749.6	7,722.3	14.8	16.1	114.04	-374.7	49.6	968.6	941.7	26.96	35.929			
7,900.0	7,822.3	7,849.6	7,822.3	14.9	16.2	114.04	-374.7	49.6	968.6	941.5	27.09	35.759			
8,000.0	7,922.3	7,949.6	7,922.3	15.0	16.2	114.04	-374.7	49.6	968.6	941.4	27.22	35.590			
8,100.0	8,022.3	8,049.6	8,022.3	15.0	16.3	114.04	-374.7	49.6	968.6	941.3	27.35	35.422			
8,200.0	8,122.3	8,149.6	8,122.3	15.1	16.3	114.04	-374.7	49.6	968.6	941.2	27.48	35.255			
8,300.0	8,222.3	8,249.6	8,222.3	15.1	16.4	114.04	-374.7	49.6	968.6	941.0	27.61	35.089			
8,400.0	8,322.3	8,349.6	8,322.3	15.2	16.4	114.04	-374.7	49.6	968.6	940.9	27.74	34.924			
8,500.0	8,422.3	8,449.6	8,422.3	15.3	16.5	114.04	-374.7	49.6	968.6	940.8	27.87	34.761			
8,600.0	8,522.3	8,549.6	8,522.3	15.3	16.6	114.04	-374.7	49.6	968.6	940.6	28.00	34.598			
8,700.0	8,622.3	8,649.6	8,622.3	15.4	16.6	114.04	-374.7	49.6	968.6	940.5	28.13	34.437			
8,800.0	8,722.3	8,749.6	8,722.3	15.5	16.7	114.04	-374.7	49.6	968.6	940.4	28.26	34.277			
8,900.0	8,822.3	8,849.6	8,822.3	15.5	16.7	114.04	-374.7	49.6	968.6	940.2	28.39	34.118			
9,000.0	8,922.3	8,949.6	8,922.3	15.6	16.8	114.04	-374.7	49.6	968.6	940.1	28.52	33.960			
9,100.0	9,022.3	9,049.6	9,022.3	15.7	16.8	114.04	-374.7	49.6	968.6	940.0	28.66	33.803			
9,200.0	9,122.3	9,149.6	9,122.3	15.7	16.9	114.04	-374.7	49.6	968.6	939.8	28.79	33.647			
9,300.0	9,222.3	9,249.6	9,222.3	15.8	16.9	114.04	-374.7	49.6	968.6	939.7	28.92	33.492			
9,400.0	9,322.3	9,349.6	9,322.3	15.9	17.0	114.04	-374.7	49.6	968.6	939.6	29.05	33.339			
9,500.0	9,422.3	9,449.6	9,422.3	15.9	17.1	114.04	-374.7	49.6	968.6	939.4	29.19	33.186			
9,600.0	9,522.3	9,549.6	9,522.3	16.0	17.1	114.04	-374.7	49.6	968.6	939.3	29.32	33.035			
9,700.0	9,622.3	9,649.6	9,622.3	16.0	17.2	114.04	-374.7	49.6	968.6	939.2	29.46	32.885			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
9,800.0	9,722.3	9,749.6	9,722.3	16.1	17.2	114.04	-374.7	49.6	968.6	939.0	29.59	32.735			
9,900.0	9,822.3	9,849.6	9,822.3	16.2	17.3	114.04	-374.7	49.6	968.6	938.9	29.72	32.587			
10,000.0	9,922.3	9,949.6	9,922.3	16.2	17.3	114.04	-374.7	49.6	968.6	938.8	29.86	32.440			
10,100.0	10,022.3	10,049.6	10,022.3	16.3	17.4	114.04	-374.7	49.6	968.6	938.6	29.99	32.294			
10,200.0	10,122.3	10,149.6	10,122.3	16.4	17.5	114.04	-374.7	49.6	968.6	938.5	30.13	32.148			
10,300.0	10,222.3	10,249.6	10,222.3	16.4	17.5	114.04	-374.7	49.6	968.6	938.4	30.27	32.004			
10,400.0	10,322.3	10,349.6	10,322.3	16.5	17.6	114.04	-374.7	49.6	968.6	938.2	30.40	31.861			
10,500.0	10,422.3	10,449.6	10,422.3	16.6	17.6	114.04	-374.7	49.6	968.6	938.1	30.54	31.719			
10,600.0	10,522.3	10,549.6	10,522.3	16.6	17.7	114.04	-374.7	49.6	968.6	938.0	30.67	31.578			
10,700.0	10,622.3	10,649.6	10,622.3	16.7	17.8	114.04	-374.7	49.6	968.6	937.8	30.81	31.438			
10,800.0	10,722.3	10,749.6	10,722.3	16.8	17.8	114.04	-374.7	49.6	968.6	937.7	30.95	31.299			
10,900.0	10,822.3	10,849.6	10,822.3	16.8	17.9	114.04	-374.7	49.6	968.6	937.5	31.08	31.161			
11,000.0	10,922.3	10,949.6	10,922.3	16.9	17.9	114.04	-374.7	49.6	968.6	937.4	31.22	31.024			
11,100.0	11,022.3	11,049.6	11,022.3	17.0	18.0	114.04	-374.7	49.6	968.6	937.3	31.36	30.888			
11,200.0	11,122.3	11,149.6	11,122.3	17.0	18.0	114.04	-374.7	49.6	968.6	937.1	31.50	30.753			
11,300.0	11,222.3	11,249.6	11,222.3	17.1	18.1	114.04	-374.7	49.6	968.6	937.0	31.64	30.619			
11,400.0	11,322.3	11,349.6	11,322.3	17.2	18.2	114.04	-374.7	49.6	968.6	936.9	31.77	30.485			
11,500.0	11,422.3	11,449.6	11,422.3	17.2	18.2	114.04	-374.7	49.6	968.6	936.7	31.91	30.353			
11,600.0	11,522.3	11,549.6	11,522.3	17.3	18.3	114.04	-374.7	49.6	968.6	936.6	32.05	30.222			
11,700.0	11,622.3	11,649.6	11,622.3	17.4	18.3	114.04	-374.7	49.6	968.6	936.4	32.19	30.092			
11,800.0	11,722.3	11,749.6	11,722.3	17.5	18.4	114.04	-374.7	49.6	968.6	936.3	32.33	29.962			
11,900.0	11,822.3	11,849.6	11,822.3	17.5	18.5	114.04	-374.7	49.6	968.6	936.2	32.47	29.834			
12,000.0	11,922.3	11,949.6	11,922.3	17.6	18.5	114.04	-374.7	49.6	968.6	936.0	32.61	29.706			
12,100.0	12,022.3	12,049.6	12,022.3	17.7	18.6	114.04	-374.7	49.6	968.6	935.9	32.75	29.579			
12,200.0	12,122.3	12,149.6	12,122.3	17.7	18.7	114.04	-374.7	49.6	968.6	935.7	32.89	29.453			
12,300.0	12,222.3	12,249.6	12,222.3	17.8	18.7	114.04	-374.7	49.6	968.6	935.6	33.03	29.329			
12,350.2	12,272.5	12,299.8	12,272.5	17.8	18.7	114.04	-374.7	49.6	968.6	935.5	33.08	29.278			
12,375.0	12,297.3	12,313.3	12,285.9	17.8	18.8	-65.42	-374.8	49.6	968.5	935.4	33.10	29.261			
12,400.0	12,322.2	12,325.0	12,297.7	17.8	18.8	-65.48	-375.3	49.6	968.1	935.0	33.11	29.240			
12,425.0	12,347.0	12,340.4	12,313.0	17.8	18.8	-65.59	-376.4	49.6	967.5	934.4	33.12	29.211			
12,450.0	12,371.6	12,350.0	12,322.6	17.8	18.8	-65.73	-377.3	49.6	966.7	933.5	33.15	29.160			
12,475.0	12,395.9	12,367.5	12,340.0	17.8	18.9	-65.95	-379.4	49.6	965.5	932.4	33.17	29.113			
12,500.0	12,419.8	12,381.1	12,353.4	17.8	18.9	-66.19	-381.6	49.6	964.2	931.0	33.19	29.047			
12,525.0	12,443.4	12,400.0	12,371.9	17.8	19.0	-66.53	-385.1	49.7	962.7	929.5	33.21	28.989			
12,550.0	12,466.5	12,408.3	12,380.0	17.8	19.0	-66.81	-386.9	49.7	960.8	927.6	33.27	28.884			
12,575.0	12,489.1	12,425.0	12,396.2	17.7	19.1	-67.22	-391.0	49.7	958.8	925.6	33.29	28.803			
12,600.0	12,511.1	12,435.5	12,406.3	17.7	19.1	-67.60	-393.8	49.8	956.6	923.3	33.35	28.687			
12,625.0	12,532.4	12,450.0	12,420.2	17.7	19.2	-68.07	-398.1	49.8	954.2	920.8	33.39	28.582			
12,650.0	12,553.0	12,462.8	12,432.3	17.7	19.2	-68.56	-402.2	49.8	951.6	918.2	33.43	28.463			
12,675.0	12,572.8	12,475.0	12,443.8	17.7	19.3	-69.07	-406.4	49.9	948.9	915.4	33.49	28.337			
12,700.0	12,591.8	12,490.1	12,457.8	17.7	19.3	-69.67	-412.1	49.9	945.9	912.4	33.52	28.222			
12,725.0	12,610.0	12,500.0	12,466.9	17.7	19.3	-70.21	-416.0	50.0	942.9	909.3	33.58	28.077			
12,750.0	12,627.2	12,517.6	12,482.8	17.7	19.4	-70.94	-423.5	50.1	939.7	906.1	33.59	27.974			
12,775.0	12,643.4	12,531.4	12,495.1	17.7	19.5	-71.63	-429.7	50.1	936.4	902.8	33.62	27.850			
12,800.0	12,658.7	12,550.0	12,511.4	17.7	19.5	-72.46	-438.7	50.2	933.0	899.4	33.62	27.755			
12,825.0	12,672.8	12,559.0	12,519.2	17.7	19.6	-73.10	-443.3	50.3	929.6	895.9	33.67	27.608			
12,850.0	12,685.9	12,575.0	12,532.7	17.8	19.6	-73.93	-451.8	50.3	926.0	892.4	33.67	27.503			
12,875.0	12,697.8	12,586.8	12,542.5	17.8	19.7	-74.68	-458.4	50.4	922.5	888.8	33.69	27.379			
12,900.0	12,708.6	12,600.0	12,553.3	17.8	19.7	-75.49	-465.9	50.5	918.9	885.2	33.70	27.269			
12,925.0	12,718.2	12,614.8	12,565.1	17.8	19.8	-76.36	-474.8	50.6	915.4	881.7	33.69	27.172			
12,950.0	12,726.5	12,625.0	12,573.1	17.9	19.8	-77.11	-481.2	50.6	911.9	878.2	33.70	27.059			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
12,975.0	12,733.6	12,643.0	12,586.9	17.9	19.9	-78.12	-492.8	50.7	908.4	874.8	33.66	26.989			
13,000.0	12,739.5	12,657.2	12,597.5	17.9	19.9	-79.03	-502.3	50.8	905.1	871.4	33.64	26.908			
13,025.0	12,744.1	12,675.0	12,610.2	18.0	20.0	-80.07	-514.6	50.9	901.8	868.2	33.59	26.846			
13,050.0	12,747.3	12,685.9	12,617.8	18.0	20.1	-80.86	-522.4	51.0	898.7	865.1	33.58	26.765			
13,075.0	12,749.3	12,700.0	12,627.4	18.1	20.1	-81.77	-532.8	51.1	895.7	862.2	33.55	26.702			
13,100.0	12,750.0	12,714.8	12,637.2	18.1	20.2	-82.70	-543.9	51.2	893.0	859.4	33.51	26.645			
13,100.2	12,750.0	12,715.0	12,637.3	18.1	20.2	-82.71	-544.0	51.2	892.9	859.4	33.51	26.645			
13,200.0	12,750.0	12,779.5	12,675.5	18.4	20.4	-85.16	-596.0	51.7	885.1	851.6	33.51	26.410			
13,300.0	12,750.0	12,857.5	12,711.7	18.7	20.6	-87.51	-664.9	52.4	881.6	847.9	33.77	26.108			
13,400.0	12,750.0	12,947.9	12,739.1	19.0	20.8	-89.30	-751.0	53.2	880.7	846.4	34.28	25.692			
13,475.5	12,750.0	13,021.8	12,749.1	19.2	20.8	-89.95	-824.1	54.0	880.7	845.9	34.79	25.313			
13,500.0	12,750.0	13,046.4	12,750.0	19.3	20.8	-90.00	-848.6	54.2	880.6	845.7	34.96	25.187			
13,600.0	12,750.0	13,146.4	12,750.0	19.7	20.9	-90.00	-948.6	55.2	880.6	844.9	35.74	24.637			
13,700.0	12,750.0	13,246.4	12,750.0	20.0	20.9	-90.00	-1,048.6	56.1	880.6	844.0	36.60	24.060			
13,800.0	12,750.0	13,346.4	12,750.0	20.5	20.9	-90.00	-1,148.6	57.1	880.6	843.1	37.53	23.468			
13,900.0	12,750.0	13,446.4	12,750.0	20.9	21.0	-90.00	-1,248.6	58.1	880.6	842.1	38.51	22.866			
14,000.0	12,750.0	13,546.4	12,750.0	21.4	21.0	-90.00	-1,348.6	59.1	880.6	841.1	39.56	22.262			
14,100.0	12,750.0	13,646.4	12,750.0	21.8	21.0	-90.00	-1,448.6	60.0	880.6	840.0	40.66	21.660			
14,200.0	12,750.0	13,746.4	12,750.0	22.3	21.1	-90.00	-1,548.6	61.0	880.6	838.8	41.80	21.065			
14,300.0	12,750.0	13,846.4	12,750.0	22.9	21.1	-90.00	-1,648.6	62.0	880.6	837.6	43.00	20.480			
14,400.0	12,750.0	13,946.4	12,750.0	23.4	21.5	-90.00	-1,748.6	63.0	880.6	836.4	44.23	19.908			
14,500.0	12,750.0	14,046.4	12,750.0	23.9	22.2	-90.00	-1,848.6	63.9	880.6	835.1	45.51	19.351			
14,600.0	12,750.0	14,146.4	12,750.0	24.5	23.0	-90.00	-1,948.6	64.9	880.6	833.8	46.81	18.810			
14,700.0	12,750.0	14,246.4	12,750.0	25.1	23.7	-90.00	-2,048.6	65.9	880.6	832.4	48.16	18.286			
14,800.0	12,750.0	14,346.4	12,750.0	25.7	24.5	-90.00	-2,148.6	66.9	880.6	831.1	49.52	17.781			
14,900.0	12,750.0	14,446.4	12,750.0	26.3	25.3	-90.00	-2,248.6	67.8	880.6	829.7	50.92	17.293			
15,000.0	12,750.0	14,546.4	12,750.0	27.0	26.1	-90.00	-2,348.6	68.8	880.6	828.2	52.34	16.823			
15,100.0	12,750.0	14,646.4	12,750.0	27.6	26.9	-90.00	-2,448.6	69.8	880.6	826.8	53.79	16.371			
15,200.0	12,750.0	14,746.4	12,750.0	28.2	27.8	-90.00	-2,548.6	70.8	880.6	825.3	55.25	15.936			
15,300.0	12,750.0	14,846.4	12,750.0	28.9	28.6	-90.00	-2,648.5	71.7	880.6	823.8	56.74	15.519			
15,400.0	12,750.0	14,946.4	12,750.0	29.6	29.4	-90.00	-2,748.5	72.7	880.6	822.3	58.24	15.118			
15,500.0	12,750.0	15,046.4	12,750.0	30.3	30.3	-90.00	-2,848.5	73.7	880.5	820.8	59.76	14.734			
15,600.0	12,750.0	15,146.4	12,750.0	31.0	31.2	-90.00	-2,948.5	74.7	880.5	819.2	61.30	14.365			
15,700.0	12,750.0	15,246.4	12,750.0	31.6	32.0	-90.00	-3,048.5	75.6	880.5	817.7	62.85	14.010			
15,800.0	12,750.0	15,346.4	12,750.0	32.4	32.9	-90.00	-3,148.5	76.6	880.5	816.1	64.41	13.670			
15,900.0	12,750.0	15,446.4	12,750.0	33.1	33.8	-90.00	-3,248.5	77.6	880.5	814.5	65.99	13.344			
16,000.0	12,750.0	15,546.4	12,750.0	33.8	34.6	-90.00	-3,348.5	78.6	880.5	812.9	67.57	13.031			
16,100.0	12,750.0	15,646.4	12,750.0	34.5	35.5	-90.00	-3,448.5	79.5	880.5	811.3	69.17	12.730			
16,200.0	12,750.0	15,746.4	12,750.0	35.2	36.4	-90.00	-3,548.5	80.5	880.5	809.7	70.78	12.441			
16,300.0	12,750.0	15,846.4	12,750.0	36.0	37.3	-90.00	-3,648.5	81.5	880.5	808.1	72.39	12.163			
16,400.0	12,750.0	15,946.4	12,750.0	36.7	38.2	-90.00	-3,748.5	82.5	880.5	806.5	74.02	11.896			
16,500.0	12,750.0	16,046.4	12,750.0	37.5	39.1	-90.00	-3,848.5	83.4	880.5	804.8	75.65	11.639			
16,600.0	12,750.0	16,146.4	12,750.0	38.2	40.0	-90.00	-3,948.5	84.4	880.5	803.2	77.29	11.392			
16,700.0	12,750.0	16,246.4	12,750.0	39.0	40.9	-90.00	-4,048.5	85.4	880.5	801.5	78.94	11.154			
16,800.0	12,750.0	16,346.4	12,750.0	39.7	41.8	-90.00	-4,148.5	86.4	880.5	799.9	80.59	10.925			
16,900.0	12,750.0	16,446.4	12,750.0	40.5	42.7	-90.00	-4,248.5	87.3	880.5	798.2	82.25	10.705			
17,000.0	12,750.0	16,546.4	12,750.0	41.3	43.6	-90.00	-4,348.5	88.3	880.5	796.6	83.92	10.492			
17,100.0	12,750.0	16,646.4	12,750.0	42.0	44.5	-90.00	-4,448.5	89.3	880.5	794.9	85.59	10.287			
17,200.0	12,750.0	16,746.4	12,750.0	42.8	45.5	-90.00	-4,548.5	90.2	880.5	793.2	87.26	10.090			
17,300.0	12,750.0	16,846.4	12,750.0	43.6	46.4	-90.00	-4,648.5	91.2	880.5	791.5	88.95	9.899			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
17,400.0	12,750.0	16,946.4	12,750.0	44.4	47.3	-90.00	-4,748.4	92.2	880.4	789.8	90.63	9.715			
17,500.0	12,750.0	17,046.4	12,750.0	45.2	48.2	-90.00	-4,848.4	93.2	880.4	788.1	92.32	9.537			
17,600.0	12,750.0	17,146.4	12,750.0	45.9	49.1	-90.00	-4,948.4	94.1	880.4	786.4	94.02	9.365			
17,700.0	12,750.0	17,246.4	12,750.0	46.7	50.1	-90.00	-5,048.4	95.1	880.4	784.7	95.72	9.198			
17,800.0	12,750.0	17,346.4	12,750.0	47.5	51.0	-90.00	-5,148.4	96.1	880.4	783.0	97.42	9.038			
17,900.0	12,750.0	17,446.4	12,750.0	48.3	51.9	-90.00	-5,248.4	97.1	880.4	781.3	99.12	8.882			
18,000.0	12,750.0	17,546.4	12,750.0	49.1	52.8	-90.00	-5,348.4	98.0	880.4	779.6	100.83	8.731			
18,100.0	12,750.0	17,646.4	12,750.0	49.9	53.8	-90.00	-5,448.4	99.0	880.4	777.9	102.54	8.586			
18,200.0	12,750.0	17,746.4	12,750.0	50.7	54.7	-90.00	-5,548.4	100.0	880.4	776.1	104.26	8.444			
18,300.0	12,750.0	17,846.4	12,750.0	51.5	55.6	-90.00	-5,648.4	101.0	880.4	774.4	105.98	8.307			
18,400.0	12,750.0	17,946.4	12,750.0	52.3	56.6	-90.00	-5,748.4	101.9	880.4	772.7	107.70	8.175			
18,500.0	12,750.0	18,046.4	12,750.0	53.1	57.5	-90.00	-5,848.4	102.9	880.4	771.0	109.42	8.046			
18,600.0	12,750.0	18,146.4	12,750.0	53.9	58.4	-90.00	-5,948.4	103.9	880.4	769.2	111.15	7.921			
18,700.0	12,750.0	18,246.4	12,750.0	54.7	59.4	-90.00	-6,048.4	104.9	880.4	767.5	112.88	7.800			
18,800.0	12,750.0	18,346.4	12,750.0	55.5	60.3	-90.00	-6,148.4	105.8	880.4	765.8	114.61	7.682			
18,900.0	12,750.0	18,446.4	12,750.0	56.3	61.3	-90.00	-6,248.4	106.8	880.4	764.0	116.34	7.567			
19,000.0	12,750.0	18,546.4	12,750.0	57.2	62.2	-90.00	-6,348.4	107.8	880.4	762.3	118.07	7.456			
19,100.0	12,750.0	18,646.4	12,750.0	58.0	63.1	-90.00	-6,448.4	108.8	880.4	760.5	119.81	7.348			
19,200.0	12,750.0	18,746.4	12,750.0	58.8	64.1	-90.00	-6,548.4	109.7	880.4	758.8	121.55	7.243			
19,300.0	12,750.0	18,846.4	12,750.0	59.6	65.0	-90.00	-6,648.4	110.7	880.3	757.1	123.29	7.141			
19,400.0	12,750.0	18,946.4	12,750.0	60.4	66.0	-90.00	-6,748.4	111.7	880.3	755.3	125.03	7.041			
19,500.0	12,750.0	19,046.4	12,750.0	61.2	66.9	-90.00	-6,848.4	112.7	880.3	753.6	126.77	6.944			
19,600.0	12,750.0	19,146.4	12,750.0	62.1	67.8	-90.00	-6,948.3	113.6	880.3	751.8	128.52	6.850			
19,700.0	12,750.0	19,246.4	12,750.0	62.9	68.8	-90.00	-7,048.3	114.6	880.3	750.1	130.27	6.758			
19,800.0	12,750.0	19,346.4	12,750.0	63.7	69.7	-90.00	-7,148.3	115.6	880.3	748.3	132.02	6.668			
19,900.0	12,750.0	19,446.4	12,750.0	64.5	70.7	-90.00	-7,248.3	116.6	880.3	746.6	133.76	6.581			
20,000.0	12,750.0	19,546.4	12,750.0	65.4	71.6	-90.00	-7,348.3	117.5	880.3	744.8	135.52	6.496			
20,100.0	12,750.0	19,646.4	12,750.0	66.2	72.6	-90.00	-7,448.3	118.5	880.3	743.0	137.27	6.413			
20,200.0	12,750.0	19,746.4	12,750.0	67.0	73.5	-90.00	-7,548.3	119.5	880.3	741.3	139.02	6.332			
20,300.0	12,750.0	19,846.4	12,750.0	67.8	74.5	-90.00	-7,648.3	120.5	880.3	739.5	140.78	6.253			
20,400.0	12,750.0	19,946.4	12,750.0	68.7	75.4	-90.00	-7,748.3	121.4	880.3	737.8	142.53	6.176			
20,500.0	12,750.0	20,046.4	12,750.0	69.5	76.4	-90.00	-7,848.3	122.4	880.3	736.0	144.29	6.101			
20,600.0	12,750.0	20,146.4	12,750.0	70.3	77.3	-90.00	-7,948.3	123.4	880.3	734.2	146.05	6.027			
20,700.0	12,750.0	20,246.4	12,750.0	71.1	78.2	-90.00	-8,048.3	124.3	880.3	732.5	147.81	5.956			
20,800.0	12,750.0	20,346.4	12,750.0	72.0	79.2	-90.00	-8,148.3	125.3	880.3	730.7	149.57	5.885			
20,900.0	12,750.0	20,446.4	12,750.0	72.8	80.1	-90.00	-8,248.3	126.3	880.3	728.9	151.33	5.817			
21,000.0	12,750.0	20,546.4	12,750.0	73.6	81.1	-90.00	-8,348.3	127.3	880.3	727.2	153.09	5.750			
21,100.0	12,750.0	20,646.4	12,750.0	74.5	82.0	-90.00	-8,448.3	128.2	880.3	725.4	154.85	5.684			
21,200.0	12,750.0	20,746.4	12,750.0	75.3	83.0	-90.00	-8,548.3	129.2	880.3	723.6	156.62	5.620			
21,300.0	12,750.0	20,846.4	12,750.0	76.1	83.9	-90.00	-8,648.3	130.2	880.2	721.9	158.38	5.558			
21,400.0	12,750.0	20,946.4	12,750.0	77.0	84.9	-90.00	-8,748.3	131.2	880.2	720.1	160.15	5.496			
21,500.0	12,750.0	21,046.4	12,750.0	77.8	85.8	-90.00	-8,848.3	132.1	880.2	718.3	161.91	5.436			
21,600.0	12,750.0	21,146.4	12,750.0	78.6	86.8	-90.00	-8,948.3	133.1	880.2	716.6	163.68	5.378			
21,700.0	12,750.0	21,246.4	12,750.0	79.5	87.7	-90.00	-9,048.2	134.1	880.2	714.8	165.45	5.320			
21,800.0	12,750.0	21,346.4	12,750.0	80.3	88.7	-90.00	-9,148.2	135.1	880.2	713.0	167.22	5.264			
21,900.0	12,750.0	21,446.4	12,750.0	81.1	89.7	-90.00	-9,248.2	136.0	880.2	711.2	168.98	5.209			
22,000.0	12,750.0	21,546.4	12,750.0	82.0	90.6	-90.00	-9,348.2	137.0	880.2	709.5	170.75	5.155			
22,100.0	12,750.0	21,646.4	12,750.0	82.8	91.6	-90.00	-9,448.2	138.0	880.2	707.7	172.52	5.102			
22,200.0	12,750.0	21,746.4	12,750.0	83.6	92.5	-90.00	-9,548.2	139.0	880.2	705.9	174.30	5.050			
22,300.0	12,750.0	21,846.4	12,750.0	84.5	93.5	-90.00	-9,648.2	139.9	880.2	704.1	176.07	4.999			
22,400.0	12,750.0	21,946.4	12,750.0	85.3	94.4	-90.00	-9,748.2	140.9	880.2	702.3	177.84	4.949			

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 804H - Slot BOATER FED COM 804H
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 804H	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)					
22,500.0	12,750.0	22,046.4	12,750.0	86.2	95.4	-90.00	-9,848.2	141.9	880.2	700.6	179.61	4.900			
22,600.0	12,750.0	22,146.4	12,750.0	87.0	96.3	-90.00	-9,948.2	142.9	880.2	698.8	181.39	4.853			
22,700.0	12,750.0	22,246.4	12,750.0	87.8	97.3	-90.00	-10,048.2	143.8	880.2	697.0	183.16	4.805			
22,800.0	12,750.0	22,346.4	12,750.0	88.7	98.2	-90.00	-10,148.2	144.8	880.2	695.2	184.93	4.759			
22,900.0	12,750.0	22,446.4	12,750.0	89.5	99.2	-90.00	-10,248.2	145.8	880.2	693.5	186.71	4.714			
23,000.0	12,750.0	22,546.4	12,750.0	90.4	100.1	-90.00	-10,348.2	146.8	880.2	691.7	188.48	4.670			
23,100.0	12,750.0	22,646.4	12,750.0	91.2	101.1	-90.00	-10,448.2	147.7	880.2	689.9	190.26	4.626			
23,200.0	12,750.0	22,746.4	12,750.0	92.0	102.0	-90.00	-10,548.2	148.7	880.1	688.1	192.04	4.583			
23,300.0	12,750.0	22,846.4	12,750.0	92.9	103.0	-90.00	-10,648.2	149.7	880.1	686.3	193.81	4.541			
23,400.0	12,750.0	22,946.4	12,750.0	93.7	104.0	-90.00	-10,748.2	150.7	880.1	684.5	195.59	4.500			
23,500.0	12,750.0	23,046.4	12,750.0	94.6	104.9	-90.00	-10,848.2	151.6	880.1	682.8	197.37	4.459			
23,600.0	12,750.0	23,146.4	12,750.0	95.4	105.9	-90.00	-10,948.2	152.6	880.1	681.0	199.15	4.419			
23,700.0	12,750.0	23,246.4	12,750.0	96.3	106.8	-90.00	-11,048.2	153.6	880.1	679.2	200.93	4.380			
23,800.0	12,750.0	23,346.4	12,750.0	97.1	107.8	-90.00	-11,148.1	154.6	880.1	677.4	202.70	4.342			
23,900.0	12,750.0	23,446.4	12,750.0	97.9	108.7	-90.00	-11,248.1	155.5	880.1	675.6	204.48	4.304			
24,000.0	12,750.0	23,546.4	12,750.0	98.8	109.7	-90.00	-11,348.1	156.5	880.1	673.8	206.26	4.267			
24,100.0	12,750.0	23,646.4	12,750.0	99.6	110.6	-90.00	-11,448.1	157.5	880.1	672.1	208.04	4.230			
24,200.0	12,750.0	23,746.4	12,750.0	100.5	111.6	-90.00	-11,548.1	158.5	880.1	670.3	209.82	4.194			
24,300.0	12,750.0	23,846.4	12,750.0	101.3	112.6	-90.00	-11,648.1	159.4	880.1	668.5	211.60	4.159			
24,400.0	12,750.0	23,946.4	12,750.0	102.2	113.5	-90.00	-11,748.1	160.4	880.1	666.7	213.39	4.124			
24,500.0	12,750.0	24,046.4	12,750.0	103.0	114.5	-90.00	-11,848.1	161.4	880.1	664.9	215.17	4.090			
24,600.0	12,750.0	24,146.4	12,750.0	103.9	115.4	-90.00	-11,948.1	162.3	880.1	663.1	216.95	4.057			
24,700.0	12,750.0	24,246.4	12,750.0	104.7	116.4	-90.00	-12,048.1	163.3	880.1	661.3	218.73	4.024			
24,800.0	12,750.0	24,346.4	12,750.0	105.5	117.3	-90.00	-12,148.1	164.3	880.1	659.6	220.51	3.991			
24,900.0	12,750.0	24,446.4	12,750.0	106.4	118.3	-90.00	-12,248.1	165.3	880.1	657.8	222.30	3.959			
25,000.0	12,750.0	24,546.4	12,750.0	107.2	119.3	-90.00	-12,348.1	166.2	880.1	656.0	224.08	3.927			
25,100.0	12,750.0	24,646.4	12,750.0	108.1	120.2	-90.00	-12,448.1	167.2	880.1	654.2	225.86	3.896			
25,200.0	12,750.0	24,746.4	12,750.0	108.9	121.2	-90.00	-12,548.1	168.2	880.0	652.4	227.65	3.866			
25,300.0	12,750.0	24,846.4	12,750.0	109.8	122.1	-90.00	-12,648.1	169.2	880.0	650.6	229.43	3.836			
25,400.0	12,750.0	24,946.4	12,750.0	110.6	123.1	-90.00	-12,748.1	170.1	880.0	648.8	231.21	3.806			
25,500.0	12,750.0	25,046.4	12,750.0	111.5	124.0	-90.00	-12,848.1	171.1	880.0	647.0	233.00	3.777			
25,600.0	12,750.0	25,146.4	12,750.0	112.3	125.0	-90.00	-12,948.1	172.1	880.0	645.2	234.78	3.748			
25,700.0	12,750.0	25,246.4	12,750.0	113.2	126.0	-90.00	-13,048.1	173.1	880.0	643.5	236.57	3.720			
25,800.0	12,750.0	25,346.4	12,750.0	114.0	126.9	-90.00	-13,148.1	174.0	880.0	641.7	238.35	3.692			
25,900.0	12,750.0	25,446.4	12,750.0	114.9	127.9	-90.00	-13,248.0	175.0	880.0	639.9	240.14	3.665			
26,000.0	12,750.0	25,546.4	12,750.0	115.7	128.8	-90.00	-13,348.0	176.0	880.0	638.1	241.92	3.638			
26,072.7	12,750.0	25,619.0	12,750.0	116.3	129.5	-90.00	-13,420.7	176.7	880.0	636.8	243.22	3.618 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 804H - Slot BOATER FED COM 804H
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 804H	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)					
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.8	120.0	120.0						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.8	120.0	120.0	118.0	1.99	60.264			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.8	120.0	120.0	116.7	3.31	36.237			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.8	120.0	120.0	115.8	4.20	28.603			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.8	120.0	120.0	115.1	4.91	24.430			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.8	120.0	120.0	114.5	5.53	21.688			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.8	120.0	120.0	113.9	6.09	19.704			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.8	120.0	120.0	113.4	6.60	18.179			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.8	120.0	120.0	112.9	7.08	16.957			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	0.8	120.0	120.0	112.5	7.52	15.950			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	0.8	120.0	120.0	112.1	7.95	15.099			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	0.8	120.0	120.0	111.6	8.35	14.368			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	0.8	120.0	120.0	111.3	8.74	13.731			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.8	120.0	120.0	110.9	9.11	13.169			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.8	120.0	120.0	110.5	9.47	12.667			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.8	120.0	120.0	110.2	9.82	12.216			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.8	120.0	120.0	109.8	10.16	11.808			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.8	120.0	120.0	109.5	10.49	11.436			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.8	120.0	120.0	109.2	10.82	11.095			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.8	120.0	120.0	108.9	11.13	10.781			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.8	120.0	120.0	108.6	11.44	10.490 CC, ES			
2,100.0	2,100.0	2,095.9	2,095.9	5.8	5.8	178.23	0.9	121.6	123.4	111.5	11.88	10.391 SF			
2,200.0	2,199.8	2,191.1	2,190.9	6.0	6.0	178.22	1.1	126.4	133.6	121.4	12.28	10.886			
2,300.0	2,299.5	2,285.0	2,284.5	6.2	6.2	178.22	1.4	134.1	150.6	137.9	12.66	11.898			
2,400.0	2,398.7	2,377.0	2,375.9	6.4	6.4	178.21	1.8	144.7	174.1	161.1	13.02	13.376			
2,500.0	2,497.5	2,466.5	2,464.4	6.6	6.5	178.21	2.3	157.9	204.1	190.8	13.31	15.327			
2,570.0	2,566.3	2,531.3	2,528.4	6.7	6.6	178.20	2.7	168.6	228.3	214.8	13.46	16.956			
2,600.0	2,595.7	2,559.3	2,556.0	6.7	6.6	178.21	2.8	173.3	239.0	225.5	13.52	17.673			
2,700.0	2,693.7	2,652.7	2,648.1	6.9	6.8	178.23	3.4	188.8	274.8	261.0	13.79	19.931			
2,800.0	2,791.7	2,746.1	2,740.1	7.0	6.9	178.25	4.0	204.3	310.5	296.5	14.05	22.106			
2,900.0	2,889.7	2,839.5	2,832.2	7.1	7.0	178.26	4.6	219.8	346.3	332.0	14.32	24.191			
3,000.0	2,987.8	2,932.9	2,924.3	7.3	7.2	178.27	5.1	235.3	382.1	367.5	14.59	26.189			
3,100.0	3,085.8	3,026.2	3,016.4	7.4	7.3	178.28	5.7	250.8	417.8	403.0	14.87	28.102			
3,200.0	3,183.8	3,119.6	3,108.5	7.6	7.4	178.29	6.3	266.3	453.6	438.4	15.15	29.934			
3,300.0	3,281.8	3,213.0	3,200.6	7.7	7.6	178.29	6.9	281.8	489.3	473.9	15.44	31.688			
3,400.0	3,379.9	3,306.4	3,292.7	7.9	7.7	178.30	7.4	297.3	525.1	509.4	15.74	33.368			
3,500.0	3,477.9	3,399.8	3,384.8	8.1	7.9	178.30	8.0	312.8	560.9	544.8	16.04	34.976			
3,600.0	3,575.9	3,493.2	3,476.8	8.2	8.0	178.31	8.6	328.3	596.6	580.3	16.34	36.515			
3,700.0	3,674.0	3,586.6	3,568.9	8.4	8.2	178.31	9.2	343.8	632.4	615.8	16.65	37.989			
3,800.0	3,772.0	3,679.9	3,661.0	8.6	8.3	178.31	9.8	359.3	668.2	651.2	16.96	39.400			
3,900.0	3,870.0	3,773.3	3,753.1	8.7	8.5	178.32	10.3	374.8	703.9	686.7	17.27	40.752			
4,000.0	3,968.0	3,866.7	3,845.2	8.9	8.6	178.32	10.9	390.3	739.7	722.1	17.59	42.048			
4,100.0	4,066.1	3,960.1	3,937.3	9.1	8.8	178.32	11.5	405.8	775.5	757.5	17.91	43.289			
4,200.0	4,164.1	4,053.5	4,029.4	9.3	8.9	178.32	12.1	421.3	811.2	793.0	18.24	44.479			
4,300.0	4,262.1	4,146.9	4,121.5	9.4	9.1	178.33	12.6	436.8	847.0	828.4	18.57	45.620			
4,400.0	4,360.1	4,240.3	4,213.6	9.6	9.2	178.33	13.2	452.3	882.7	863.8	18.90	46.714			
4,500.0	4,458.2	4,333.6	4,305.6	9.8	9.4	178.33	13.8	467.9	918.5	899.3	19.23	47.764			
4,600.0	4,556.2	4,427.0	4,397.7	10.0	9.6	178.33	14.4	483.4	954.3	934.7	19.57	48.772			
4,700.0	4,654.2	4,520.4	4,489.8	10.2	9.7	178.33	15.0	498.9	990.0	970.1	19.90	49.740			

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 804H - Slot BOATER FED COM 804H
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 804H	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											Rule Assigned:		Offset Well Error:	0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
20,600.0	12,750.0	17,340.0	12,385.3	70.3	53.3	-66.51	-8,274.5	85.4	971.2	860.1	111.09	8.743			
20,700.0	12,750.0	17,340.0	12,385.3	71.1	53.3	-66.51	-8,274.5	85.4	942.4	828.2	114.18	8.254			
20,800.0	12,750.0	17,340.0	12,385.3	72.0	53.3	-66.51	-8,274.5	85.4	923.6	807.1	116.43	7.932			
20,900.0	12,750.0	17,340.0	12,385.3	72.8	53.3	-66.51	-8,274.5	85.4	915.3	797.7	117.63	7.781			
21,000.0	12,750.0	17,247.0	12,390.6	73.6	52.5	-66.82	-8,367.4	86.3	913.0	795.0	118.00	7.738			
21,100.0	12,750.0	17,160.3	12,394.5	74.5	51.7	-67.05	-8,454.0	87.5	911.6	793.3	118.37	7.702			
21,169.6	12,750.0	17,095.4	12,396.4	75.0	51.1	-67.18	-8,518.8	88.8	911.5	792.9	118.60	7.685			
21,200.0	12,750.0	17,065.3	12,397.2	75.3	50.9	-67.23	-8,548.9	89.4	911.5	792.8	118.70	7.679			
21,223.0	12,750.0	17,042.6	12,397.7	75.5	50.7	-67.26	-8,571.6	89.8	911.5	792.7	118.77	7.674			
21,300.0	12,750.0	16,972.3	12,399.0	76.1	50.0	-67.36	-8,641.9	91.3	911.8	792.7	119.03	7.660			
21,400.0	12,750.0	16,877.9	12,400.1	77.0	49.2	-67.46	-8,736.2	93.8	912.9	793.5	119.37	7.647			
21,500.0	12,750.0	16,781.9	12,400.5	77.8	48.4	-67.53	-8,832.2	96.6	914.4	794.7	119.71	7.639			
21,600.0	12,750.0	16,688.6	12,400.3	78.6	47.5	-67.56	-8,925.4	99.6	916.6	796.5	120.05	7.635			
21,700.0	12,750.0	16,592.9	12,399.2	79.5	46.7	-67.56	-9,021.1	102.9	919.4	799.0	120.40	7.636			
21,800.0	12,750.0	16,451.6	12,398.1	80.3	45.5	-67.53	-9,126.3	105.7	920.7	799.9	120.76	7.624			
21,900.0	12,750.0	16,323.3	12,398.8	81.1	44.4	-67.45	-9,290.6	102.2	916.9	795.9	121.02	7.577			
22,000.0	12,750.0	16,229.3	12,400.1	82.0	43.6	-67.44	-9,384.5	99.1	912.5	791.0	121.49	7.511			
22,100.0	12,750.0	16,141.5	12,401.2	82.8	42.9	-67.43	-9,472.3	97.3	909.2	787.2	122.00	7.452			
22,200.0	12,750.0	16,046.2	12,400.2	83.6	42.1	-67.31	-9,567.5	95.6	907.1	784.6	122.44	7.408			
22,300.0	12,750.0	15,912.0	12,398.0	84.5	41.0	-67.04	-9,701.7	91.0	903.8	781.2	122.63	7.370			
22,400.0	12,750.0	15,805.7	12,399.2	85.3	40.1	-66.94	-9,807.8	85.3	897.5	774.4	123.06	7.293			
22,500.0	12,750.0	15,709.9	12,401.7	86.2	39.3	-66.95	-9,903.5	80.6	891.1	767.4	123.66	7.206			
22,600.0	12,750.0	15,624.0	12,404.3	87.0	38.6	-67.00	-9,989.2	77.2	885.4	761.1	124.35	7.120			
22,700.0	12,750.0	15,529.0	12,407.7	87.8	37.9	-67.12	-10,084.2	75.2	881.2	756.1	125.04	7.047			
22,800.0	12,750.0	15,444.6	12,411.9	88.7	37.2	-67.36	-10,168.5	75.3	878.4	752.6	125.84	6.980			
22,900.0	12,750.0	15,360.1	12,417.2	89.5	36.5	-67.70	-10,252.8	77.1	877.0	750.3	126.69	6.923			
23,000.0	12,750.0	15,259.7	12,424.6	90.4	35.7	-68.22	-10,352.8	80.8	876.8	749.2	127.63	6.870			
23,063.2	12,750.0	15,200.2	12,429.4	90.9	35.3	-68.55	-10,412.1	83.1	876.6	748.3	128.23	6.836			
23,100.0	12,750.0	15,166.6	12,431.9	91.2	35.0	-68.73	-10,445.6	84.5	876.6	748.1	128.58	6.818			
23,200.0	12,750.0	15,074.0	12,438.0	92.0	34.3	-69.17	-10,537.9	88.5	877.5	747.9	129.51	6.775			
23,300.0	12,750.0	14,971.8	12,443.7	92.9	33.5	-69.60	-10,639.8	93.0	878.7	748.2	130.46	6.735			
23,400.0	12,750.0	14,872.8	12,447.5	93.7	32.7	-69.89	-10,738.7	96.4	879.7	748.4	131.35	6.697			
23,500.0	12,750.0	14,762.6	12,449.7	94.6	31.9	-70.05	-10,848.9	99.9	880.2	748.0	132.22	6.657			
23,600.0	12,750.0	14,657.9	12,451.5	95.4	31.2	-70.17	-10,953.5	100.3	880.0	746.9	133.07	6.613			
23,700.0	12,750.0	14,552.6	12,452.8	96.3	30.5	-70.24	-11,058.8	100.7	879.0	745.1	133.90	6.564			
23,800.0	12,750.0	14,456.5	12,454.6	97.1	29.8	-70.34	-11,154.9	101.3	878.0	743.2	134.78	6.514			
23,891.5	12,750.0	14,371.3	12,455.8	97.9	29.3	-70.42	-11,240.1	102.2	877.7	742.1	135.58	6.473			
23,900.0	12,750.0	14,363.4	12,455.9	97.9	29.2	-70.42	-11,248.0	102.3	877.7	742.0	135.65	6.470			
24,000.0	12,750.0	14,269.4	12,456.7	98.8	28.6	-70.49	-11,341.9	104.0	878.1	741.6	136.53	6.432			
24,100.0	12,750.0	14,170.9	12,456.8	99.6	28.0	-70.51	-11,440.4	105.9	879.0	741.6	137.41	6.397			
24,200.0	12,750.0	14,073.5	12,456.5	100.5	27.4	-70.51	-11,537.8	107.8	880.0	741.7	138.29	6.364			
24,300.0	12,750.0	13,977.3	12,454.8	101.3	26.9	-70.43	-11,633.9	109.7	881.6	742.4	139.13	6.336			
24,400.0	12,750.0	13,876.8	12,452.4	102.2	26.4	-70.31	-11,734.4	111.6	883.2	743.2	139.98	6.309			
24,500.0	12,750.0	13,770.3	12,449.0	103.0	25.9	-70.11	-11,840.8	113.0	884.6	743.8	140.82	6.282			
24,600.0	12,750.0	13,628.9	12,443.3	103.9	25.2	-69.67	-11,982.1	110.5	883.5	742.0	141.49	6.244			
24,700.0	12,750.0	13,513.1	12,440.5	104.7	24.8	-69.34	-12,097.7	104.4	878.5	736.3	142.18	6.179			
24,800.0	12,750.0	13,390.3	12,439.7	105.5	24.4	-69.10	-12,220.3	97.3	872.6	729.7	142.82	6.109			
24,900.0	12,750.0	13,304.4	12,439.7	106.4	24.1	-68.91	-12,305.9	90.3	864.2	720.4	143.81	6.010			
25,000.0	12,750.0	13,230.7	12,438.9	107.2	23.9	-68.76	-12,379.5	87.1	859.4	714.6	144.86	5.933			
25,100.0	12,750.0	13,139.1	12,438.2	108.1	23.6	-68.64	-12,471.1	84.8	856.4	710.6	145.82	5.873			
25,200.0	12,750.0	13,046.0	12,437.0	108.9	23.4	-68.50	-12,564.2	82.8	854.1	707.3	146.76	5.820			

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 804H - Slot BOATER FED COM 804H
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 804H	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 Well Error: 0.0 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
25,300.0	12,750.0	12,960.3	12,435.6	109.8	23.3	-68.38	-12,649.8	82.3	853.2	705.5	147.72	5.776		
25,309.0	12,750.0	12,952.2	12,435.5	109.9	23.3	-68.37	-12,657.9	82.3	853.2	705.4	147.80	5.772 CC		
25,400.0	12,750.0	12,870.5	12,434.5	110.6	23.1	-68.31	-12,739.6	83.2	853.7	705.0	148.69	5.741 ES		
25,500.0	12,750.0	12,783.5	12,431.8	111.5	23.0	-68.15	-12,826.5	84.6	855.4	705.8	149.59	5.718 SF		
25,600.0	12,750.0	12,719.5	12,424.6	112.3	23.0	-67.72	-12,890.1	85.5	860.1	710.1	150.04	5.733		
25,700.0	12,750.0	12,667.0	12,414.1	113.2	22.9	-67.08	-12,941.5	86.4	869.2	719.3	149.88	5.799		
25,800.0	12,750.0	12,589.7	12,391.9	114.0	22.9	-65.75	-13,015.6	87.8	882.2	732.7	149.49	5.901		
25,900.0	12,750.0	12,533.2	12,370.8	114.9	22.9	-64.51	-13,067.9	88.7	899.7	751.2	148.44	6.061		
26,000.0	12,750.0	12,478.0	12,345.1	115.7	23.0	-63.03	-13,116.8	89.5	922.5	775.7	146.82	6.283		
26,072.7	12,750.0	12,445.4	12,327.8	116.3	23.0	-62.06	-13,144.4	89.8	942.5	797.3	145.26	6.489		

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WA FEDERAL 009H - OWB - AWP														Offset Site Error:	0.0 usft	
Survey Program: 183-r.5 MWD+IFR1										Rule Assigned:				Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning			
20,300.0	12,750.0	17,619.0	12,619.5	67.8	52.4	79.16	-8,299.7	-1,435.0	941.3	852.9	88.37	10.652				
20,400.0	12,750.0	17,619.0	12,619.5	68.7	52.4	79.16	-8,299.7	-1,435.0	876.8	782.2	94.61	9.267				
20,500.0	12,750.0	17,619.0	12,619.5	69.5	52.4	79.16	-8,299.7	-1,435.0	819.5	718.2	101.29	8.090				
20,600.0	12,750.0	17,619.0	12,619.5	70.3	52.4	79.16	-8,299.7	-1,435.0	771.0	662.9	108.09	7.132				
20,700.0	12,750.0	17,619.0	12,619.5	71.1	52.4	79.16	-8,299.7	-1,435.0	732.9	618.4	114.53	6.399				
20,800.0	12,750.0	17,619.0	12,619.5	72.0	52.4	79.16	-8,299.7	-1,435.0	707.0	587.1	119.96	5.894				
20,900.0	12,750.0	17,619.0	12,619.5	72.8	52.4	79.16	-8,299.7	-1,435.0	694.8	571.0	123.74	5.615				
21,000.0	12,750.0	17,542.0	12,620.9	73.6	51.7	79.27	-8,376.7	-1,433.7	693.2	568.7	124.52	5.567				
21,100.0	12,750.0	17,439.5	12,620.9	74.5	50.8	79.22	-8,479.0	-1,429.5	690.1	565.4	124.71	5.534				
21,200.0	12,750.0	17,344.9	12,623.9	75.3	49.9	79.45	-8,573.6	-1,427.6	688.5	563.3	125.13	5.502				
21,300.0	12,750.0	17,250.9	12,628.0	76.1	49.1	79.77	-8,667.4	-1,426.3	687.3	561.7	125.61	5.472				
21,352.2	12,750.0	17,202.6	12,630.6	76.6	48.7	80.00	-8,715.6	-1,426.2	687.2	561.3	125.89	5.458				
21,400.0	12,750.0	17,157.9	12,633.0	77.0	48.3	80.20	-8,760.3	-1,426.3	687.3	561.1	126.14	5.448				
21,500.0	12,750.0	17,061.4	12,637.3	77.8	47.4	80.57	-8,856.7	-1,426.8	688.1	561.5	126.62	5.434				
21,600.0	12,750.0	16,936.2	12,639.1	78.6	46.3	80.72	-8,981.9	-1,425.4	687.8	561.2	126.54	5.435				
21,700.0	12,750.0	16,815.9	12,638.2	79.5	45.2	80.55	-9,101.9	-1,417.6	682.2	555.8	126.39	5.398				
21,800.0	12,750.0	16,729.3	12,640.7	80.3	44.4	80.72	-9,188.4	-1,413.8	678.3	551.1	127.16	5.334				
21,900.0	12,750.0	16,603.0	12,646.6	81.1	43.3	81.12	-9,314.2	-1,405.5	671.8	544.9	126.94	5.292				
22,000.0	12,750.0	16,511.6	12,648.2	82.0	42.5	81.17	-9,405.3	-1,397.8	664.3	536.6	127.65	5.204				
22,100.0	12,750.0	16,437.0	12,649.3	82.8	41.8	81.22	-9,479.8	-1,394.0	660.0	531.2	128.78	5.125				
22,200.0	12,750.0	16,346.3	12,651.3	83.6	41.0	81.38	-9,570.4	-1,391.8	658.2	528.6	129.52	5.082				
22,257.5	12,750.0	16,296.1	12,652.6	84.1	40.6	81.49	-9,620.7	-1,391.2	657.8	527.9	129.98	5.061				
22,300.0	12,750.0	16,259.4	12,653.6	84.5	40.3	81.58	-9,657.3	-1,391.1	658.0	527.7	130.33	5.049				
22,400.0	12,750.0	16,138.4	12,654.7	85.3	39.2	81.65	-9,778.3	-1,388.3	656.4	525.9	130.50	5.030				
22,500.0	12,750.0	16,051.5	12,655.6	86.2	38.5	81.72	-9,865.2	-1,386.7	655.4	524.0	131.35	4.989				
22,600.0	12,750.0	15,944.4	12,658.6	87.0	37.6	81.98	-9,972.2	-1,385.3	654.6	522.7	131.86	4.964				
22,700.0	12,750.0	15,845.4	12,660.6	87.8	36.8	82.13	-10,071.1	-1,382.8	652.8	520.3	132.54	4.925				
22,751.4	12,750.0	15,802.1	12,662.0	88.3	36.4	82.25	-10,114.5	-1,382.3	652.5	519.4	133.03	4.905 CC				
22,800.0	12,750.0	15,755.0	12,664.0	88.7	36.0	82.43	-10,161.4	-1,382.2	652.6	519.2	133.40	4.892				
22,900.0	12,750.0	15,656.2	12,667.8	89.5	35.2	82.76	-10,260.2	-1,381.9	652.8	518.6	134.14	4.866				
23,000.0	12,750.0	15,562.4	12,669.2	90.4	34.5	82.90	-10,354.0	-1,382.1	653.7	518.8	134.95	4.844				
23,100.0	12,750.0	15,468.2	12,670.2	91.2	33.7	83.01	-10,448.2	-1,383.0	655.5	519.8	135.76	4.829				
23,200.0	12,750.0	15,378.0	12,672.7	92.0	33.0	83.25	-10,538.4	-1,385.0	658.4	521.8	136.63	4.819				
23,300.0	12,750.0	15,289.7	12,674.1	92.9	32.3	83.42	-10,626.6	-1,388.5	663.2	525.7	137.50	4.823				
23,400.0	12,750.0	15,189.0	12,674.9	93.7	31.6	83.55	-10,727.1	-1,393.6	669.1	530.8	138.28	4.839				
23,500.0	12,750.0	15,080.3	12,674.8	94.6	30.8	83.58	-10,835.8	-1,397.2	673.3	534.2	139.01	4.843				
23,600.0	12,750.0	14,976.4	12,675.5	95.4	30.0	83.69	-10,939.6	-1,400.6	677.5	537.7	139.80	4.846				
23,700.0	12,750.0	14,821.8	12,674.7	96.3	28.7	83.60	-11,094.0	-1,397.8	676.6	536.9	139.67	4.844				
23,800.0	12,750.0	14,749.0	12,675.4	97.1	28.2	83.65	-11,166.8	-1,395.1	673.8	532.8	141.06	4.777				
23,822.6	12,750.0	14,729.9	12,676.0	97.3	28.0	83.69	-11,185.9	-1,394.9	673.7	532.4	141.31	4.768				
23,900.0	12,750.0	14,674.7	12,677.6	97.9	27.6	83.84	-11,241.0	-1,395.4	675.0	532.7	142.25	4.745				
24,000.0	12,750.0	14,532.1	12,682.6	98.8	26.5	84.28	-11,383.5	-1,396.0	676.3	533.8	142.51	4.746				
24,100.0	12,750.0	14,432.0	12,687.1	99.6	25.8	84.63	-11,483.4	-1,391.0	671.9	528.5	143.42	4.685				
24,156.6	12,750.0	14,395.5	12,688.7	100.1	25.5	84.76	-11,519.9	-1,390.3	671.1	526.8	144.29	4.651				
24,200.0	12,750.0	14,362.8	12,690.0	100.5	25.3	84.87	-11,552.5	-1,390.5	671.6	526.7	144.83	4.637				
24,300.0	12,750.0	14,241.5	12,691.9	101.3	24.5	85.03	-11,673.8	-1,388.2	670.3	524.8	145.44	4.608				
24,400.0	12,750.0	14,148.1	12,694.9	102.2	23.9	85.29	-11,767.1	-1,387.2	669.9	523.4	146.51	4.572				
24,500.0	12,750.0	14,047.0	12,696.0	103.0	23.2	85.37	-11,868.1	-1,384.6	668.2	520.8	147.46	4.532				
24,519.9	12,750.0	14,032.0	12,696.2	103.2	23.1	85.38	-11,883.1	-1,384.4	668.1	520.4	147.72	4.523				
24,600.0	12,750.0	13,959.3	12,697.4	103.9	22.7	85.49	-11,955.9	-1,384.7	669.1	520.5	148.61	4.502				
24,700.0	12,750.0	13,852.5	12,697.4	104.7	22.2	85.49	-12,062.6	-1,383.8	669.2	519.7	149.52	4.476				

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WA FEDERAL 009H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		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)					
24,800.0	12,750.0	13,743.7	12,698.7	105.5	21.6	85.60	-12,171.5	-1,382.8	669.2	518.8	150.40	4.450			
24,900.0	12,750.0	13,644.6	12,699.0	106.4	21.2	85.62	-12,270.5	-1,380.2	667.5	516.1	151.44	4.408			
24,985.9	12,750.0	13,566.1	12,700.0	107.1	20.9	85.70	-12,349.0	-1,379.1	667.1	514.6	152.44	4.376			
25,000.0	12,750.0	13,552.9	12,700.2	107.2	20.8	85.72	-12,362.1	-1,379.0	667.1	514.5	152.61	4.371			
25,100.0	12,750.0	13,442.2	12,701.0	108.1	20.4	85.78	-12,472.9	-1,377.7	666.9	513.4	153.50	4.344			
25,173.4	12,750.0	13,378.5	12,700.9	108.7	20.2	85.77	-12,536.6	-1,376.3	666.1	511.7	154.43	4.313			
25,200.0	12,750.0	13,357.4	12,701.3	108.9	20.2	85.81	-12,557.7	-1,376.2	666.2	511.4	154.78	4.304			
25,300.0	12,750.0	13,253.4	12,702.2	109.8	19.9	85.90	-12,661.7	-1,376.4	667.3	511.5	155.81	4.283			
25,400.0	12,750.0	13,165.5	12,697.3	110.6	19.7	85.48	-12,749.3	-1,375.9	668.2	511.2	157.02	4.255 ES			
25,500.0	12,750.0	13,083.0	12,689.4	111.5	19.6	84.82	-12,831.4	-1,377.2	671.6	513.4	158.20	4.245 SF			
25,600.0	12,750.0	12,998.0	12,675.4	112.3	19.5	83.66	-12,915.3	-1,380.1	677.6	518.3	159.25	4.255			
25,700.0	12,750.0	12,920.6	12,657.4	113.2	19.5	82.20	-12,990.4	-1,383.5	686.1	526.0	160.09	4.285			
25,800.0	12,750.0	12,853.4	12,633.7	114.0	19.4	80.30	-13,053.0	-1,387.7	699.4	538.9	160.43	4.359			
25,900.0	12,750.0	12,766.0	12,593.6	114.9	19.4	77.14	-13,130.6	-1,391.5	715.3	554.9	160.44	4.459			
26,000.0	12,750.0	12,698.2	12,555.4	115.7	19.4	74.19	-13,186.5	-1,392.8	735.7	576.2	159.53	4.612			
26,072.7	12,750.0	12,661.8	12,532.0	116.3	19.3	72.42	-13,214.3	-1,393.5	755.1	597.0	158.15	4.775			

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 804H - Slot BOATER FED COM 804H
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 804H	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												Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured 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)					
11,700.0	11,622.3	19,984.2	12,560.6	17.4	59.6	89.85	20.8	-528.7	987.1	889.4	97.70	10.103			
11,800.0	11,722.3	19,981.5	12,560.7	17.5	59.6	89.36	23.4	-528.9	892.5	794.9	97.58	9.147			
11,900.0	11,822.3	19,979.0	12,560.7	17.5	59.6	88.88	26.0	-529.1	799.3	702.0	97.37	8.209			
12,000.0	11,922.3	19,976.6	12,560.8	17.6	59.6	88.42	28.4	-529.3	708.0	611.0	97.02	7.297			
12,100.0	12,022.3	19,974.2	12,560.8	17.7	59.6	87.98	30.8	-529.4	619.3	522.8	96.45	6.421			
12,200.0	12,122.3	19,971.9	12,560.9	17.7	59.5	87.56	33.0	-529.6	534.6	439.1	95.54	5.596			
12,300.0	12,222.3	19,969.7	12,560.9	17.8	59.5	87.14	35.2	-529.8	456.2	362.1	94.10	4.848			
12,350.2	12,272.5	19,968.6	12,561.0	17.8	59.5	86.94	36.3	-529.8	420.2	327.1	93.11	4.513			
12,375.0	12,297.3	19,968.8	12,561.0	17.8	59.5	-95.14	36.1	-529.8	403.6	311.1	92.56	4.361			
12,400.0	12,322.2	19,970.3	12,560.9	17.8	59.5	-97.27	34.6	-529.7	387.9	295.9	91.97	4.218			
12,425.0	12,347.0	19,973.2	12,560.9	17.8	59.6	-98.88	31.7	-529.5	373.3	281.9	91.35	4.086			
12,450.0	12,371.6	19,977.5	12,560.8	17.8	59.6	-99.98	27.5	-529.2	360.0	269.2	90.71	3.968			
12,475.0	12,395.9	19,983.0	12,560.7	17.8	59.6	-100.59	22.0	-528.8	348.0	258.0	90.08	3.864			
12,500.0	12,419.8	19,989.9	12,560.5	17.8	59.7	-100.73	15.2	-528.3	337.7	248.2	89.48	3.774			
12,525.0	12,443.4	19,997.9	12,560.3	17.8	59.7	-100.43	7.1	-527.8	329.0	240.0	88.93	3.699			
12,550.0	12,466.5	20,007.2	12,560.1	17.8	59.8	-99.71	-2.2	-527.1	322.0	233.5	88.46	3.640			
12,575.0	12,489.1	20,017.7	12,559.8	17.7	59.9	-98.60	-12.6	-526.4	316.7	228.6	88.10	3.595			
12,600.0	12,511.1	20,029.3	12,559.5	17.7	60.0	-97.13	-24.2	-525.6	313.2	225.3	87.87	3.564			
12,625.0	12,532.4	20,042.0	12,559.1	17.7	60.1	-95.32	-36.8	-524.7	311.3	223.5	87.78	3.546			
12,642.1	12,546.6	20,051.2	12,558.8	17.7	60.1	-93.92	-46.0	-524.1	311.0	223.2	87.81	3.541 CC, ES			
12,650.0	12,553.0	20,055.6	12,558.6	17.7	60.2	-93.23	-50.4	-523.8	311.0	223.2	87.84	3.541 SF			
12,675.0	12,572.8	20,070.3	12,558.1	17.7	60.3	-90.89	-65.1	-522.8	312.2	224.2	88.03	3.546			
12,700.0	12,591.8	20,085.9	12,557.5	17.7	60.4	-88.35	-80.7	-521.8	314.6	226.3	88.34	3.561			
12,725.0	12,610.0	20,102.5	12,556.9	17.7	60.5	-85.66	-97.2	-520.7	318.2	229.4	88.75	3.585			
12,750.0	12,627.2	20,119.9	12,556.1	17.7	60.7	-82.88	-114.5	-519.6	322.6	233.4	89.24	3.615			
12,775.0	12,643.4	20,138.0	12,555.3	17.7	60.8	-80.07	-132.6	-518.4	327.8	238.0	89.77	3.652			
12,800.0	12,658.7	20,156.0	12,554.5	17.7	60.9	-77.40	-150.5	-517.3	333.6	243.3	90.31	3.694			
12,825.0	12,672.8	20,175.1	12,553.6	17.7	61.1	-74.74	-169.6	-515.9	339.7	248.9	90.86	3.739			
12,850.0	12,685.9	20,195.7	12,552.7	17.8	61.2	-72.13	-190.1	-514.5	346.1	254.7	91.43	3.785			
12,875.0	12,697.8	20,217.1	12,551.7	17.8	61.4	-69.69	-211.4	-513.0	352.5	260.5	91.98	3.832			
12,900.0	12,708.6	20,226.0	12,551.3	17.8	61.4	-68.29	-220.3	-512.4	359.0	266.8	92.22	3.892			
12,925.0	12,718.2	20,226.0	12,551.3	17.8	61.4	-67.41	-220.3	-512.4	366.5	274.5	92.02	3.983			
12,950.0	12,726.5	20,226.0	12,551.3	17.9	61.4	-66.40	-220.3	-512.4	375.1	283.6	91.53	4.098			
12,975.0	12,733.6	20,226.0	12,551.3	17.9	61.4	-65.27	-220.3	-512.4	384.7	293.9	90.77	4.238			
13,000.0	12,739.5	20,226.0	12,551.3	17.9	61.4	-64.03	-220.3	-512.4	395.1	305.3	89.76	4.402			
13,025.0	12,744.1	20,226.0	12,551.3	18.0	61.4	-62.69	-220.3	-512.4	406.2	317.7	88.53	4.589			
13,050.0	12,747.3	20,226.0	12,551.3	18.0	61.4	-61.26	-220.3	-512.4	418.1	331.0	87.11	4.800			
13,075.0	12,749.3	20,226.0	12,551.3	18.1	61.4	-59.76	-220.3	-512.4	430.5	345.0	85.53	5.034			
13,100.0	12,750.0	20,226.0	12,551.3	18.1	61.4	-58.20	-220.3	-512.4	443.5	359.7	83.82	5.291			
13,100.2	12,750.0	20,226.0	12,551.3	18.1	61.4	-58.19	-220.3	-512.4	443.6	359.8	83.81	5.293			
13,200.0	12,750.0	20,226.0	12,551.3	18.4	61.4	-58.19	-220.3	-512.4	503.5	426.7	76.75	6.559			
13,300.0	12,750.0	20,226.0	12,551.3	18.7	61.4	-58.19	-220.3	-512.4	574.7	504.3	70.37	8.166			
13,400.0	12,750.0	20,226.0	12,551.3	19.0	61.4	-58.19	-220.3	-512.4	653.4	588.4	65.09	10.040			
13,500.0	12,750.0	20,226.0	12,551.3	19.3	61.4	-58.19	-220.3	-512.4	737.4	676.6	60.85	12.118			
13,600.0	12,750.0	20,226.0	12,551.3	19.7	61.4	-58.19	-220.3	-512.4	824.9	767.5	57.49	14.349			
13,700.0	12,750.0	20,226.0	12,551.3	20.0	61.4	-58.19	-220.3	-512.4	915.0	860.2	54.83	16.689			

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 804H - Slot BOATER FED COM 804H
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 804H	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference 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)				
10,200.0	10,122.3	18,297.6	11,007.0	16.4	65.5	92.59	3.6	-472.6	956.2	863.6	92.62	10.324		
10,300.0	10,222.3	18,297.1	11,007.0	16.4	65.5	92.51	4.1	-472.6	864.5	771.6	92.84	9.312		
10,400.0	10,322.3	18,296.6	11,007.0	16.5	65.5	92.44	4.6	-472.6	774.8	681.8	93.08	8.324		
10,500.0	10,422.3	18,296.1	11,007.0	16.6	65.5	92.36	5.0	-472.6	688.1	594.7	93.36	7.370		
10,600.0	10,522.3	18,295.7	11,007.0	16.6	65.5	92.29	5.5	-472.5	605.4	511.7	93.67	6.463		
10,700.0	10,622.3	18,295.3	11,007.0	16.7	65.5	92.23	5.9	-472.5	528.8	434.7	94.02	5.624		
10,800.0	10,722.3	18,294.9	11,007.0	16.8	65.5	92.16	6.3	-472.5	461.1	366.7	94.39	4.885		
10,900.0	10,822.3	18,294.5	11,007.0	16.8	65.5	92.10	6.7	-472.5	407.1	312.3	94.72	4.298		
11,000.0	10,922.3	18,294.1	11,007.0	16.9	65.5	92.04	7.1	-472.5	372.5	277.6	94.88	3.926		
11,084.7	11,007.0	18,293.8	11,007.0	17.0	65.5	91.99	7.4	-472.5	362.8	268.0	94.80	3.827 CC, ES, SF		
11,100.0	11,022.3	18,293.7	11,007.0	17.0	65.5	91.98	7.5	-472.5	363.1	268.3	94.76	3.831		
11,200.0	11,122.3	18,293.3	11,007.0	17.0	65.5	91.92	7.8	-472.5	380.6	286.2	94.45	4.030		
11,300.0	11,222.3	18,293.0	11,007.0	17.1	65.4	91.87	8.2	-472.4	421.8	327.7	94.13	4.482		
11,400.0	11,322.3	18,292.7	11,007.0	17.2	65.4	91.82	8.5	-472.4	480.6	386.7	93.93	5.117		
11,500.0	11,422.3	18,292.4	11,007.0	17.2	65.4	91.77	8.8	-472.4	551.4	457.5	93.87	5.874		
11,600.0	11,522.3	18,292.0	11,007.0	17.3	65.4	91.72	9.1	-472.4	630.2	536.3	93.91	6.710		
11,700.0	11,622.3	18,291.7	11,007.0	17.4	65.4	91.67	9.4	-472.4	714.3	620.3	94.01	7.598		
11,800.0	11,722.3	18,291.5	11,007.0	17.5	65.4	91.62	9.7	-472.4	802.0	707.9	94.15	8.518		
11,900.0	11,822.3	18,291.2	11,007.0	17.5	65.4	91.58	10.0	-472.4	892.4	798.0	94.31	9.462		
12,000.0	11,922.3	18,290.9	11,007.0	17.6	65.4	91.54	10.3	-472.4	984.6	890.1	94.49	10.419		

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #702H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 99-Standard Keeper 104, 1233-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,900.0	11,822.3	20,154.3	12,729.9	17.5	59.7	-76.66	50.4	-963.1	917.1	818.6	98.51	9.310		
12,000.0	11,922.3	20,157.6	12,730.0	17.6	59.8	-78.05	47.1	-963.0	818.3	719.9	98.38	8.317		
12,100.0	12,022.3	20,161.0	12,730.2	17.7	59.8	-79.50	43.7	-962.9	719.7	621.6	98.17	7.332		
12,200.0	12,122.3	20,164.5	12,730.3	17.7	59.8	-81.03	40.2	-962.7	621.6	523.8	97.81	6.355		
12,300.0	12,222.3	20,168.2	12,730.5	17.8	59.8	-82.62	36.5	-962.6	524.2	427.0	97.23	5.392		
12,350.2	12,272.5	20,170.1	12,730.5	17.8	59.9	-83.46	34.6	-962.5	475.7	378.9	96.80	4.914		
12,375.0	12,297.3	20,171.6	12,730.6	17.8	59.9	106.39	33.1	-962.5	451.9	355.4	96.55	4.681		
12,400.0	12,322.2	20,174.4	12,730.7	17.8	59.9	113.99	30.4	-962.4	428.1	331.9	96.26	4.448		
12,425.0	12,347.0	20,178.3	12,730.9	17.8	59.9	119.93	26.4	-962.2	404.6	308.7	95.94	4.218		
12,450.0	12,371.6	20,183.5	12,731.1	17.8	60.0	124.45	21.2	-962.1	381.6	286.0	95.58	3.992		
12,475.0	12,395.9	20,190.0	12,731.4	17.8	60.0	127.83	14.8	-961.8	358.9	263.8	95.17	3.771		
12,500.0	12,419.8	20,197.6	12,731.8	17.8	60.1	130.28	7.1	-961.6	336.9	242.2	94.71	3.557		
12,525.0	12,443.4	20,206.5	12,732.2	17.8	60.1	131.98	-1.7	-961.3	315.5	221.3	94.20	3.349		
12,550.0	12,466.5	20,216.6	12,732.7	17.8	60.2	133.04	-11.8	-960.9	294.8	201.2	93.62	3.149		
12,575.0	12,489.1	20,227.8	12,733.3	17.7	60.3	133.57	-23.0	-960.6	275.0	182.0	92.97	2.958 Normal Operations		
12,600.0	12,511.1	20,240.9	12,734.0	17.7	60.4	133.48	-36.1	-960.1	256.1	163.8	92.31	2.774 Normal Operations		
12,625.0	12,532.4	20,255.5	12,734.8	17.7	60.5	132.91	-50.6	-959.7	238.2	146.6	91.60	2.600 Normal Operations		
12,650.0	12,553.0	20,271.0	12,735.6	17.7	60.6	131.94	-66.1	-959.1	221.3	130.5	90.83	2.437 Caution - Monitor Closely		
12,675.0	12,572.8	20,287.5	12,736.4	17.7	60.7	130.58	-82.5	-958.6	205.7	115.7	89.98	2.285 Caution - Monitor Closely		
12,700.0	12,591.8	20,304.9	12,737.2	17.7	60.8	128.85	-99.9	-958.0	191.2	102.1	89.09	2.146 Caution - Monitor Closely		
12,725.0	12,610.0	20,323.2	12,738.0	17.7	60.9	126.75	-118.2	-957.4	178.1	89.9	88.18	2.019 Caution - Monitor Closely		
12,750.0	12,627.2	20,342.4	12,738.8	17.7	61.1	124.28	-137.4	-956.8	166.3	79.0	87.32	1.905 Caution - Monitor Closely		
12,775.0	12,643.4	20,362.3	12,739.6	17.7	61.2	121.47	-157.3	-956.1	156.0	69.5	86.54	1.803 Caution - Monitor Closely		
12,800.0	12,658.7	20,382.8	12,740.3	17.7	61.4	118.36	-177.8	-955.5	147.1	61.2	85.93	1.712 Caution - Monitor Closely		
12,825.0	12,672.8	20,403.9	12,741.0	17.7	61.5	115.03	-198.8	-954.8	139.7	54.1	85.56	1.633 Caution - Monitor Closely		
12,850.0	12,685.9	20,425.6	12,741.7	17.8	61.7	111.53	-220.5	-954.1	133.7	48.2	85.51	1.563 Caution - Monitor Closely		
12,875.0	12,697.8	20,435.0	12,742.0	17.8	61.7	110.24	-229.9	-953.8	129.6	44.5	85.14	1.522 Caution - Monitor Closely, ES, SF		
12,883.7	12,701.7	20,435.0	12,742.0	17.8	61.7	110.28	-229.9	-953.8	129.3	44.5	84.75	1.525 Caution - Monitor Closely, CC		
12,900.0	12,708.6	20,435.0	12,742.0	17.8	61.7	110.15	-229.9	-953.8	130.4	46.6	83.76	1.557 Caution - Monitor Closely		
12,925.0	12,718.2	20,435.0	12,742.0	17.8	61.7	109.46	-229.9	-953.8	136.3	54.7	81.60	1.670 Caution - Monitor Closely		
12,950.0	12,726.5	20,435.0	12,742.0	17.9	61.7	108.16	-229.9	-953.8	146.7	67.7	78.92	1.858 Caution - Monitor Closely		
12,975.0	12,733.6	20,435.0	12,742.0	17.9	61.7	106.23	-229.9	-953.8	160.6	84.6	76.06	2.112 Caution - Monitor Closely		
13,000.0	12,739.5	20,435.0	12,742.0	17.9	61.7	103.63	-229.9	-953.8	177.3	104.1	73.23	2.421 Caution - Monitor Closely		
13,025.0	12,744.1	20,435.0	12,742.0	18.0	61.7	100.33	-229.9	-953.8	195.9	125.4	70.53	2.778 Normal Operations		
13,050.0	12,747.3	20,435.0	12,742.0	18.0	61.7	96.33	-229.9	-953.8	216.0	148.0	67.99	3.177		
13,075.0	12,749.3	20,435.0	12,742.0	18.1	61.7	91.63	-229.9	-953.8	237.1	171.5	65.61	3.613		
13,100.0	12,750.0	20,435.0	12,742.0	18.1	61.7	86.30	-229.9	-953.8	258.8	195.5	63.37	4.084		
13,100.2	12,750.0	20,435.0	12,742.0	18.1	61.7	86.24	-229.9	-953.8	259.0	195.7	63.35	4.089		
13,200.0	12,750.0	20,435.0	12,742.0	18.4	61.7	86.24	-229.9	-953.8	350.3	293.3	56.97	6.149		
13,300.0	12,750.0	20,435.0	12,742.0	18.7	61.7	86.24	-229.9	-953.8	445.5	392.0	53.47	8.331		
13,400.0	12,750.0	20,435.0	12,742.0	19.0	61.7	86.24	-229.9	-953.8	542.4	491.0	51.37	10.558		
13,500.0	12,750.0	20,435.0	12,742.0	19.3	61.7	86.24	-229.9	-953.8	640.2	590.2	50.01	12.801		
13,600.0	12,750.0	20,435.0	12,742.0	19.7	61.7	86.24	-229.9	-953.8	738.6	689.5	49.08	15.050		
13,700.0	12,750.0	20,435.0	12,742.0	20.0	61.7	86.24	-229.9	-953.8	837.4	789.0	48.41	17.297		
13,800.0	12,750.0	20,435.0	12,742.0	20.5	61.7	86.24	-229.9	-953.8	936.5	888.6	47.92	19.542		

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #703H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 12076-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
11,900.0	11,822.3	19,886.4	12,559.2	17.5	59.6	-90.27	17.0	-1,485.8	983.2	889.1	94.05	10.454		
12,000.0	11,922.3	19,886.6	12,559.2	17.6	59.6	-90.29	16.7	-1,485.8	910.6	817.3	93.33	9.757		
12,100.0	12,022.3	19,886.8	12,559.2	17.7	59.6	-90.30	16.5	-1,485.8	843.7	751.3	92.45	9.127		
12,200.0	12,122.3	19,887.0	12,559.2	17.7	59.6	-90.32	16.4	-1,485.8	783.9	692.5	91.39	8.578		
12,300.0	12,222.3	19,887.1	12,559.2	17.8	59.6	-90.33	16.2	-1,485.8	732.9	642.7	90.20	8.125		
12,350.2	12,272.5	19,887.2	12,559.2	17.8	59.6	-90.34	16.2	-1,485.8	711.2	621.6	89.59	7.938		
12,375.0	12,297.3	19,887.8	12,559.2	17.8	59.6	91.42	15.6	-1,485.8	701.6	612.3	89.30	7.856		
12,400.0	12,322.2	19,889.5	12,559.2	17.8	59.6	92.41	13.8	-1,485.8	692.6	603.6	89.02	7.781		
12,425.0	12,347.0	19,892.4	12,559.2	17.8	59.7	93.19	11.0	-1,485.8	684.6	595.8	88.76	7.713		
12,450.0	12,371.6	19,896.3	12,559.2	17.8	59.7	93.75	7.1	-1,485.8	677.4	588.9	88.53	7.652		
12,475.0	12,395.9	19,901.1	12,559.2	17.8	59.7	94.12	2.3	-1,485.8	671.1	582.8	88.32	7.598		
12,500.0	12,419.8	19,906.8	12,559.1	17.8	59.8	94.29	-3.5	-1,485.8	665.7	577.6	88.15	7.552		
12,525.0	12,443.4	19,913.4	12,559.0	17.8	59.8	94.29	-10.1	-1,485.8	661.3	573.3	88.02	7.513		
12,550.0	12,466.5	19,920.8	12,558.8	17.8	59.9	94.11	-17.5	-1,485.8	657.8	569.8	87.92	7.481		
12,575.0	12,489.1	19,929.0	12,558.6	17.7	59.9	93.77	-25.6	-1,485.9	655.2	567.3	87.87	7.457		
12,600.0	12,511.1	19,941.0	12,558.2	17.7	60.0	93.03	-37.6	-1,486.1	653.5	565.6	87.88	7.436		
12,625.0	12,532.4	19,949.0	12,557.9	17.7	60.1	92.52	-45.6	-1,486.3	652.6	564.7	87.88	7.426		
12,640.0	12,544.9	19,956.7	12,557.6	17.7	60.1	91.96	-53.4	-1,486.4	652.5	564.6	87.93	7.420 CC, ES		
12,650.0	12,553.0	19,962.1	12,557.4	17.7	60.2	91.56	-58.7	-1,486.5	652.6	564.6	87.97	7.418		
12,675.0	12,572.8	19,976.5	12,556.9	17.7	60.3	90.46	-73.1	-1,486.8	653.2	565.1	88.11	7.413		
12,700.0	12,591.8	19,992.1	12,556.5	17.7	60.4	89.24	-88.7	-1,487.1	654.4	566.1	88.28	7.413		
12,725.0	12,610.0	20,008.8	12,556.1	17.7	60.5	87.94	-105.4	-1,487.4	656.2	567.7	88.48	7.416		
12,750.0	12,627.2	20,026.7	12,555.7	17.7	60.6	86.58	-123.3	-1,487.8	658.4	569.7	88.72	7.421		
12,775.0	12,643.4	20,065.5	12,555.7	17.7	60.9	84.12	-162.1	-1,488.2	660.8	571.7	89.16	7.412		
12,800.0	12,658.7	20,094.1	12,556.6	17.7	61.1	82.44	-190.6	-1,487.8	662.8	573.3	89.48	7.407		
12,825.0	12,672.8	20,115.1	12,557.4	17.7	61.3	81.22	-211.7	-1,487.5	664.9	575.1	89.77	7.406		
12,850.0	12,685.9	20,136.9	12,558.2	17.8	61.4	80.05	-233.4	-1,487.2	667.0	576.9	90.07	7.405 SF		
12,875.0	12,697.8	20,139.0	12,558.3	17.8	61.5	79.68	-235.5	-1,487.1	669.4	579.2	90.24	7.418		
12,900.0	12,708.6	20,139.0	12,558.3	17.8	61.5	79.32	-235.5	-1,487.1	672.5	582.2	90.34	7.444		
12,925.0	12,718.2	20,139.0	12,558.3	17.8	61.5	78.87	-235.5	-1,487.1	676.3	585.9	90.35	7.485		
12,950.0	12,726.5	20,139.0	12,558.3	17.9	61.5	78.34	-235.5	-1,487.1	680.7	590.4	90.28	7.539		
12,975.0	12,733.6	20,139.0	12,558.3	17.9	61.5	77.74	-235.5	-1,487.1	685.7	595.6	90.12	7.609		
13,000.0	12,739.5	20,139.0	12,558.3	17.9	61.5	77.06	-235.5	-1,487.1	691.3	601.5	89.87	7.693		
13,025.0	12,744.1	20,139.0	12,558.3	18.0	61.5	76.31	-235.5	-1,487.1	697.5	608.0	89.53	7.791		
13,050.0	12,747.3	20,139.0	12,558.3	18.0	61.5	75.50	-235.5	-1,487.1	704.3	615.2	89.09	7.905		
13,075.0	12,749.3	20,139.0	12,558.3	18.1	61.5	74.62	-235.5	-1,487.1	711.5	622.9	88.57	8.033		
13,100.0	12,750.0	20,139.0	12,558.3	18.1	61.5	73.69	-235.5	-1,487.1	719.2	631.2	87.97	8.176		
13,100.2	12,750.0	20,139.0	12,558.3	18.1	61.5	73.68	-235.5	-1,487.1	719.3	631.3	87.96	8.177		
13,200.0	12,750.0	20,139.0	12,558.3	18.4	61.5	73.68	-235.5	-1,487.1	756.9	671.9	85.00	8.904		
13,300.0	12,750.0	20,139.0	12,558.3	18.7	61.5	73.68	-235.5	-1,487.1	805.3	723.8	81.55	9.876		
13,400.0	12,750.0	20,139.0	12,558.3	19.0	61.5	73.68	-235.5	-1,487.1	862.6	784.7	77.95	11.067		
13,500.0	12,750.0	20,139.0	12,558.3	19.3	61.5	73.68	-235.5	-1,487.1	927.2	852.8	74.46	12.453		
13,600.0	12,750.0	20,139.0	12,558.3	19.7	61.5	73.68	-235.5	-1,487.1	997.7	926.5	71.21	14.010		

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 804H - Slot BOATER FED COM 804H
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 804H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #801H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11783-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset	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)			
11,900.0	11,822.3	19,761.4	12,319.5	17.5	59.3	89.73		24.0	17.7	987.1	897.4	89.66	11.009	
12,000.0	11,922.3	19,753.5	12,320.1	17.6	59.3	89.20		31.9	17.3	940.6	851.9	88.74	10.600	
12,100.0	12,022.3	19,745.9	12,320.7	17.7	59.2	88.69		39.5	16.9	902.9	815.0	87.86	10.276	
12,200.0	12,122.3	19,738.6	12,321.3	17.7	59.2	88.20		46.8	16.5	874.9	787.8	87.13	10.041	
12,300.0	12,222.3	19,731.5	12,321.8	17.8	59.1	87.73		53.8	16.2	857.7	771.0	86.65	9.898	
12,350.2	12,272.5	19,728.1	12,322.0	17.8	59.1	87.50		57.2	16.0	853.3	766.8	86.52	9.862	
12,375.0	12,297.3	19,727.0	12,322.1	17.8	59.1	-92.14		58.3	16.0	852.2	765.7	86.50	9.852	
12,396.7	12,319.0	19,727.1	12,322.1	17.8	59.1	-92.17		58.2	16.0	851.9	765.4	86.50	9.849 CC, ES	
12,400.0	12,322.2	19,727.2	12,322.1	17.8	59.1	-92.17		58.1	16.0	851.9	765.4	86.51	9.848 SF	
12,425.0	12,347.0	19,728.6	12,322.0	17.8	59.1	-92.01		56.8	16.1	852.4	765.9	86.55	9.849	
12,450.0	12,371.6	19,731.1	12,321.8	17.8	59.1	-91.69		54.2	16.2	853.7	767.1	86.63	9.855	
12,475.0	12,395.9	19,734.9	12,321.5	17.8	59.1	-91.20		50.5	16.4	855.7	769.0	86.74	9.866	
12,500.0	12,419.8	19,739.7	12,321.2	17.8	59.2	-90.55		45.6	16.6	858.5	771.6	86.88	9.881	
12,525.0	12,443.4	19,745.7	12,320.7	17.8	59.2	-89.74		39.6	16.9	861.9	774.9	87.05	9.901	
12,550.0	12,466.5	19,752.8	12,320.2	17.8	59.3	-88.79		32.6	17.2	866.0	778.7	87.25	9.925	
12,575.0	12,489.1	19,762.0	12,319.5	17.7	59.3	-87.65		23.4	17.7	870.7	783.2	87.49	9.952	
12,600.0	12,511.1	19,771.5	12,318.7	17.7	59.4	-86.43		14.0	18.2	875.9	788.2	87.74	9.983	
12,625.0	12,532.4	19,783.2	12,317.7	17.7	59.5	-85.04		2.4	18.7	881.6	793.6	88.02	10.015	
12,650.0	12,553.0	19,795.9	12,316.6	17.7	59.6	-83.56		-10.3	19.3	887.7	799.3	88.33	10.050	
12,675.0	12,572.8	19,809.6	12,315.3	17.7	59.7	-82.01		-23.9	20.0	894.1	805.4	88.64	10.086	
12,700.0	12,591.8	19,824.2	12,313.9	17.7	59.8	-80.41		-38.4	20.6	900.7	811.8	88.97	10.124	
12,725.0	12,610.0	19,839.6	12,312.3	17.7	59.9	-78.78		-53.8	21.2	907.6	818.3	89.30	10.163	
12,750.0	12,627.2	19,855.9	12,310.6	17.7	60.0	-77.14		-69.9	21.8	914.5	824.9	89.65	10.202	
12,775.0	12,643.4	19,873.9	12,308.5	17.7	60.2	-75.47		-87.8	22.5	921.5	831.5	90.00	10.239	
12,800.0	12,658.7	19,892.8	12,306.3	17.7	60.3	-73.81		-106.6	23.1	928.5	838.1	90.36	10.275	
12,825.0	12,672.8	19,912.5	12,303.8	17.7	60.5	-72.20		-126.1	23.7	935.4	844.6	90.73	10.310	
12,850.0	12,685.9	19,932.9	12,301.2	17.8	60.6	-70.65		-146.4	24.2	942.1	851.0	91.09	10.342	
12,875.0	12,697.8	19,953.8	12,298.5	17.8	60.8	-69.18		-167.0	24.7	948.5	857.1	91.44	10.372	
12,900.0	12,708.6	19,974.7	12,295.7	17.8	60.9	-67.82		-187.8	25.2	954.7	862.9	91.79	10.401	
12,925.0	12,718.2	19,996.3	12,292.8	17.8	61.1	-66.55		-209.2	25.7	960.5	868.4	92.13	10.426	
12,950.0	12,726.5	20,007.0	12,291.4	17.9	61.2	-65.65		-219.8	26.0	966.0	873.7	92.30	10.466	
12,975.0	12,733.6	20,007.0	12,291.4	17.9	61.2	-65.03		-219.8	26.0	971.5	879.3	92.27	10.529	
13,000.0	12,739.5	20,007.0	12,291.4	17.9	61.2	-64.41		-219.8	26.0	977.1	884.9	92.18	10.600	
13,025.0	12,744.1	20,007.0	12,291.4	18.0	61.2	-63.78		-219.8	26.0	982.8	890.8	92.03	10.679	
13,050.0	12,747.3	20,007.0	12,291.4	18.0	61.2	-63.15		-219.8	26.0	988.5	896.7	91.82	10.765	
13,075.0	12,749.3	20,007.0	12,291.4	18.1	61.2	-62.52		-219.8	26.0	994.2	902.7	91.56	10.859	
13,100.0	12,750.0	20,007.0	12,291.4	18.1	61.2	-61.90		-219.8	26.0	999.9	908.7	91.23	10.961	

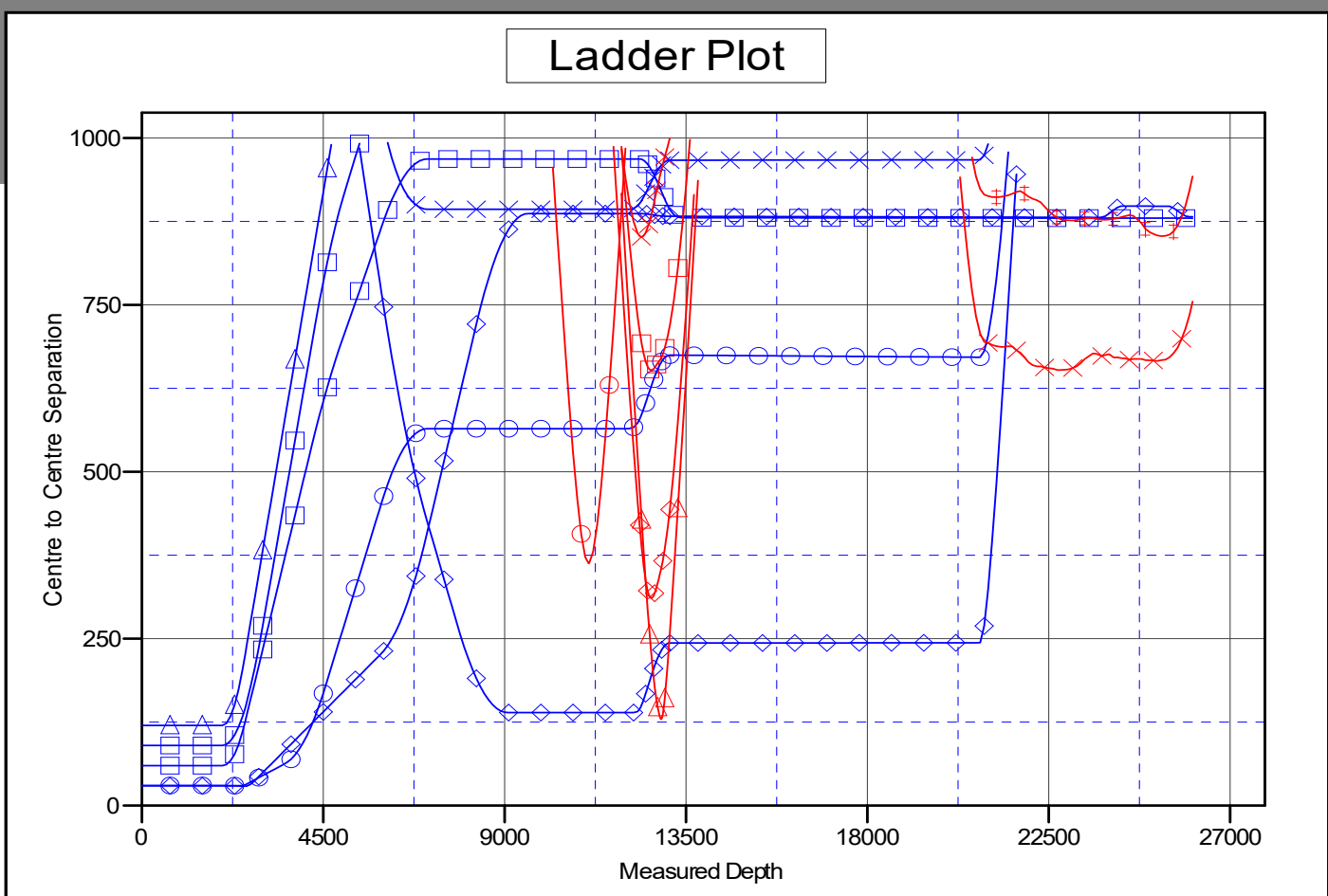
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	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 804H - Slot BOATER FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°



LEGEND

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|------------------------------------|---|---------------------------------------|
| _BOATER FED COM 602H, OWB, PWP0 V0 | _BOATER FED COM 805H, OWB, PWP0 V0 | GREEN BERET FED COM #70H, OWB, AWP V0 |
| _BOATER FED COM 603H, OWB, PWP0 V0 | _BOATER FED COM 806H, OWB, PWP0 V0 | GREEN BERET FED COM #72H, OWB, AWP V0 |
| _BOATER FED COM 702H, OWB, PWP0 V0 | CAVE LION S/WA FEDERAL 05H, OWB, AWP V0 | GREEN BERET FED COM #73H, OWB, AWP V0 |
| _BOATER FED COM 703H, OWB, PWP0 V0 | CAVE LION S/WA FEDERAL 06H, OWB, AWP V0 | GREEN BERET FED COM #80H, OWB, AWP V0 |
| _BOATER FED COM 803H, OWB, PWP0 V0 | GREEN BERET FED COM #50H, OWB, AWP V0 | |

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

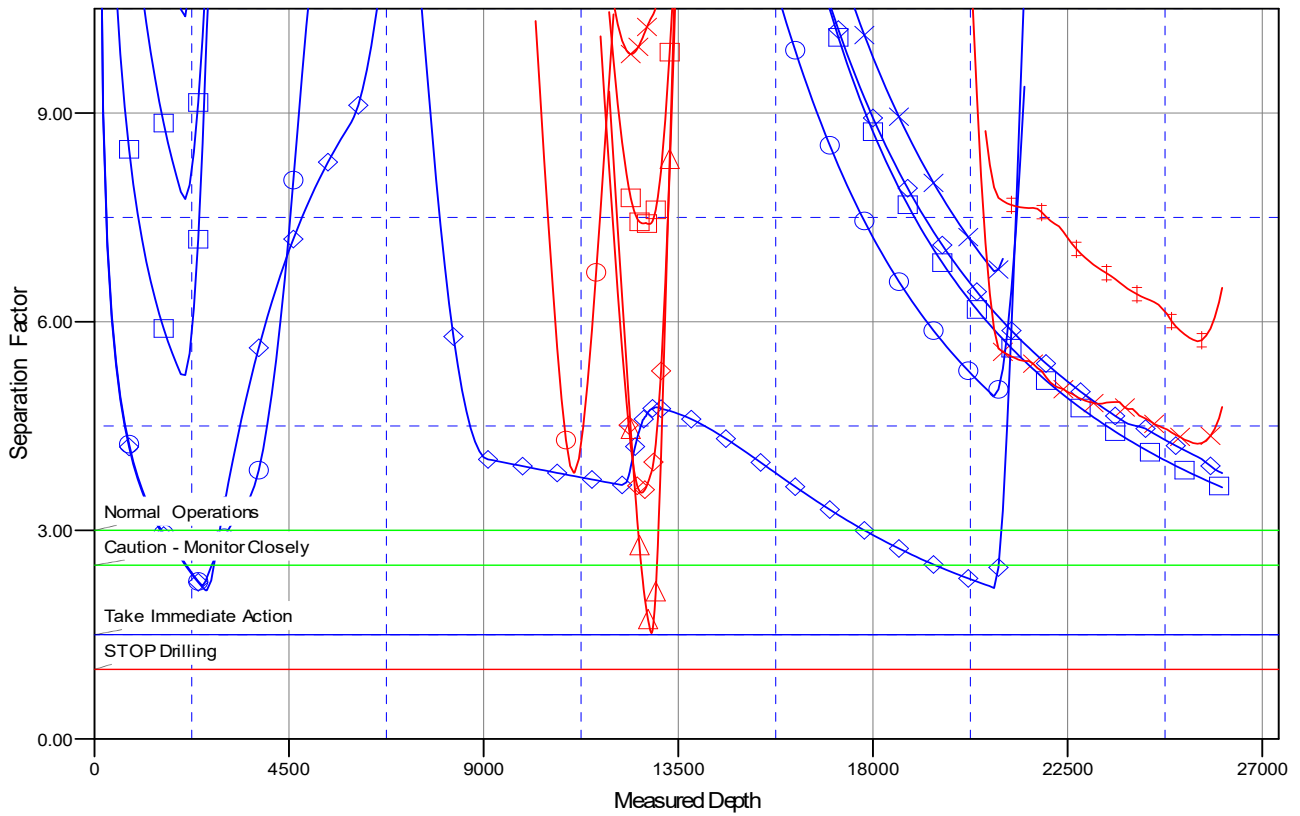
ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 804H - Slot BOATER FED COM 804H
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 804H	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 804H - Slot BOATER FED COM
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

- _BOATER FED COM #602H, OWB, PWP0 V0
- _BOATER FED COM #603H, OWB, PWP0 V0
- GREEN BERET FED COM #701H, OWB, AWP V0
- _BOATER FED COM #702H, OWB, PWP0 V0
- CAVE LION S TB FEDERAL 05H, OWB, AWP V0
- GREEN BERET FED COM #703H, OWB, AWP V0
- _BOATER FED COM #703H, OWB, PWP0 V0
- CAVE LION S WA FEDERAL 08H, OWB, AWP V0
- GREEN BERET FED COM #803H, OWB, AWP V0
- _BOATER FED COM #803H, OWB, PWP0 V0
- _BOATER FED COM #804H, OWB, PWP0 V0
- GREEN BERET FED COM #503H, OWB, AWP V0

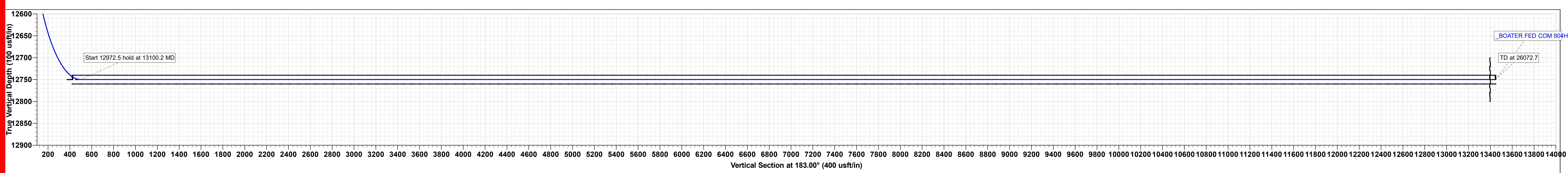
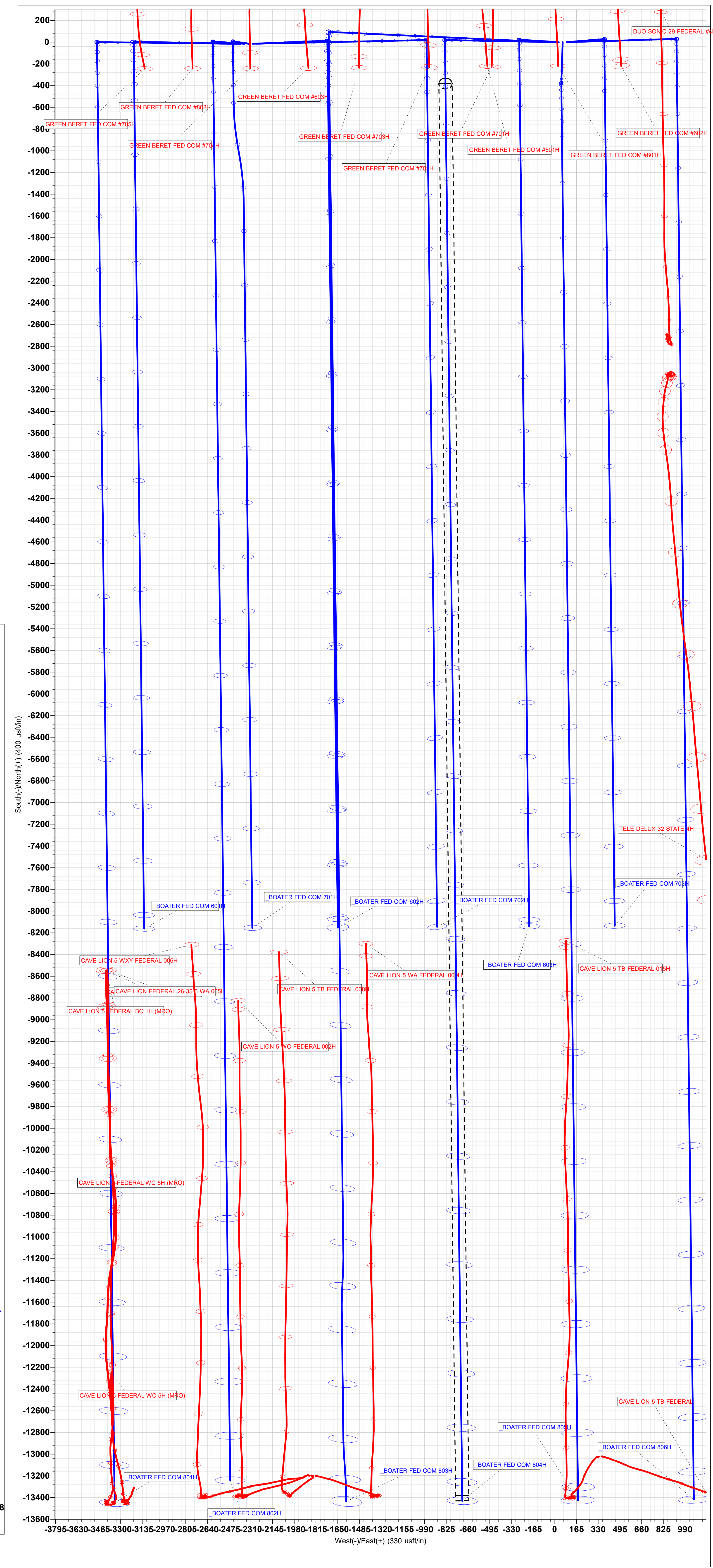
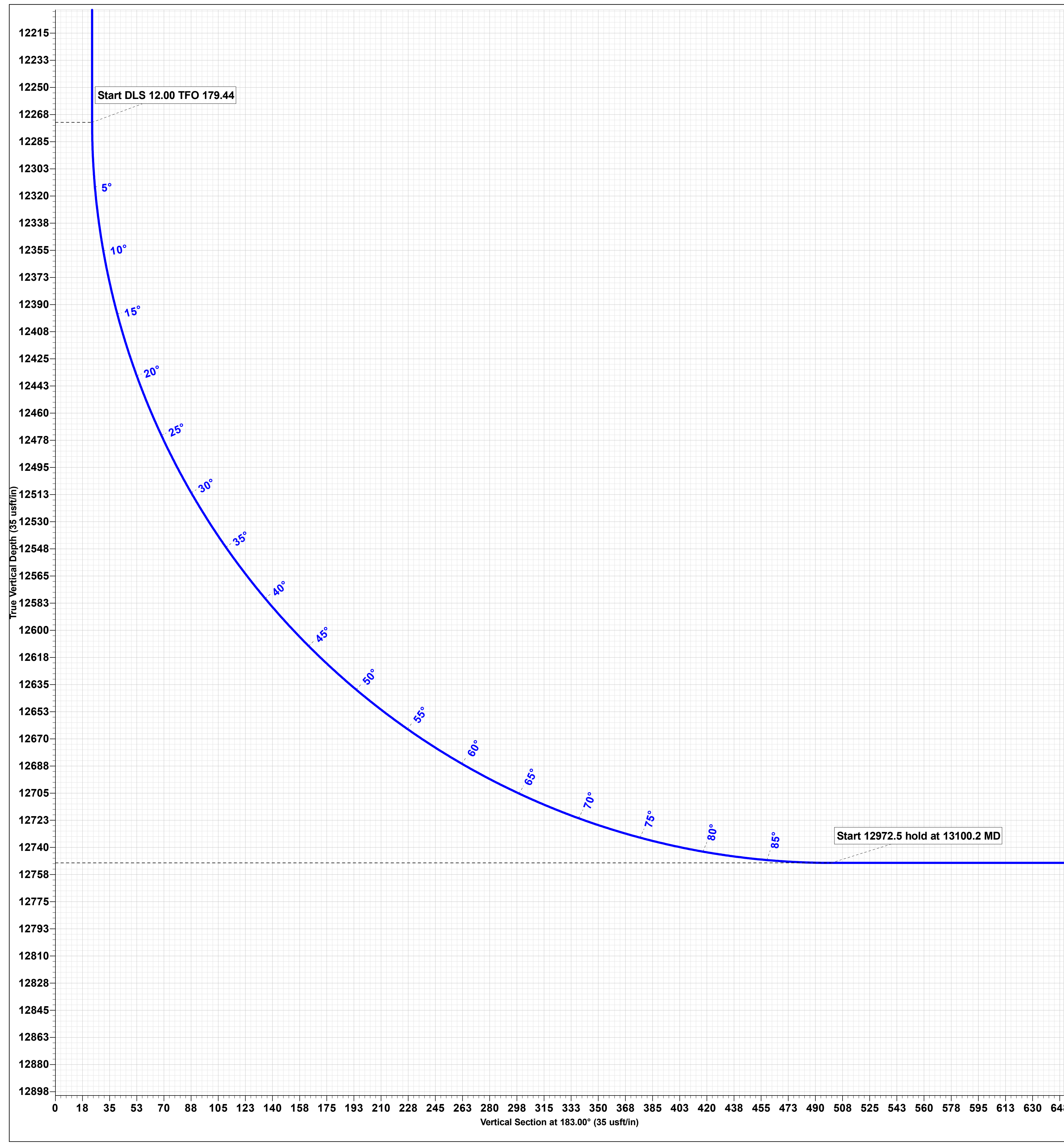
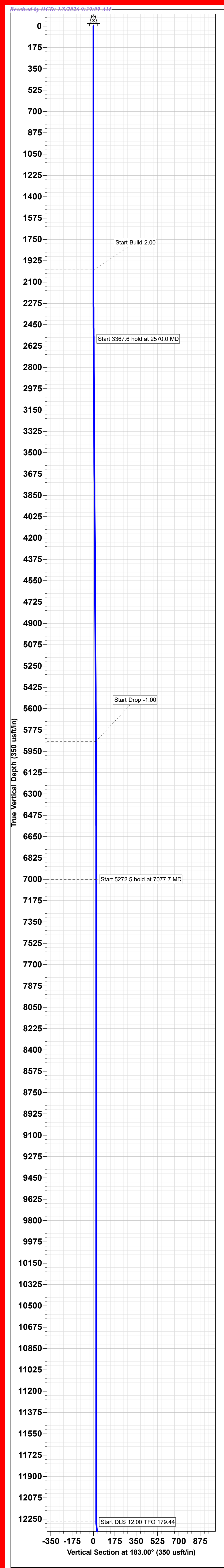
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: LEA COUNTY SOUTHEAST
 Site: BOATER FED COM PROJECT
 Well: BOATER FED COM 804H
 Wellbore: OWB
 Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2570.0	11.40	271.37	2566.3	1.4	-56.5	2.00	271.37	1.6
5937.7	11.40	271.37	5867.5	17.3	-722.0	0.00	0.00	20.5
7077.7	0.00	0.00	7000.0	20.0	-835.0	1.00	180.00	23.7
12350.2	0.00	0.00	12272.5	20.0	-835.0	0.00	0.00	23.7
13100.2	90.00	179.44	12750.0	-457.4	-830.3	12.00	179.44	500.2
26072.7	90.00	179.44	12750.0	-13429.3	-703.3	0.00	0.00	13447.7



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 07/14/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

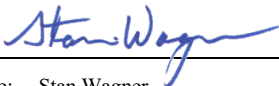
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
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.

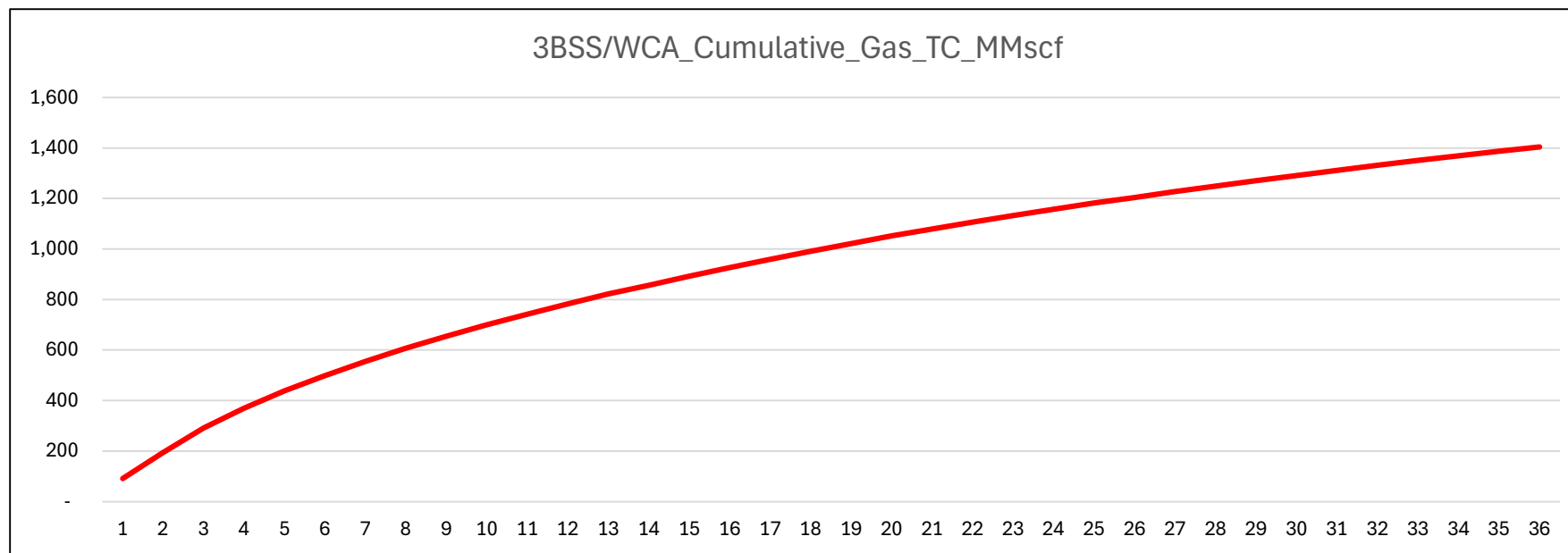
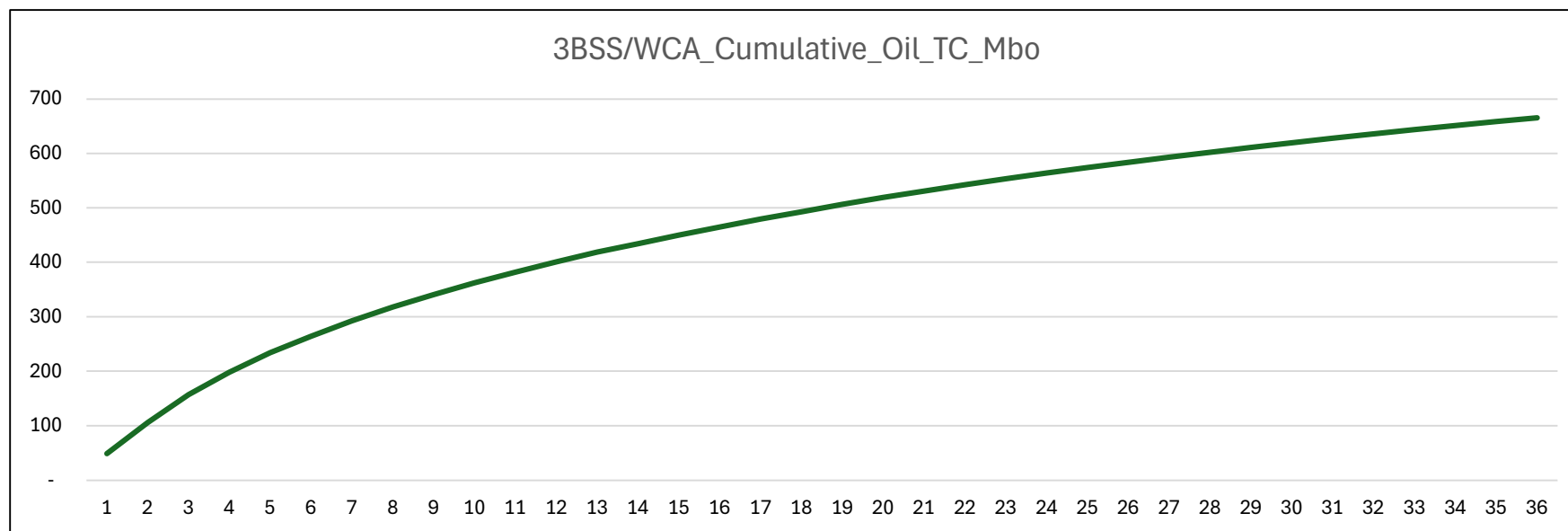
F. Measurement of vented and flared natural gas.

- 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

Anticipated Production Decline Curve



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.

ConocoPhillips - Boater Federal Com 804H

1. Geologic Formations

TVD of Target:	12,750' EOL	Pilot hole depth:	N/A
MD at TD:	26,073'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	728	Water	
Top of Salt	875	Salt	
Base of Salt	5168	Salt	
Lamar	5286	Salt Water	
Bell Canyon	5299	Salt Water	
Cherry Canyon	6283	Oil/Gas	
Brushy Canyon	7964	Oil/Gas	
Bone Spring	9218	Oil/Gas	
1st Bone Spring Sand	10403	Oil/Gas	
2nd Bone Spring Sand	10933	Oil/Gas	
3rd Bone Spring Sand	12022	Oil/Gas	
Wolfcamp	12402	Oil/Gas	
Wolfcamp A	12529	Oil/Gas	
Wolfcamp B	12779	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	725	10.75"	45.5	J55	BTC	6.30	8.09	21.67	24.13
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.44	1.02	2.98	3.01
8.750"	8200	12250	7.625"	29.7	P110-ICY	W513	2.80	1.54	2.94	1.76
6.75"	0	12050	5.5"	23	P110-CY	BTC	3.33	2.01	2.63	2.63
6.75"	12050	26,073	5.5"	23	P110-CY	W441	3.23	2.01	2.49	2.26
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 804H

	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
Capitan Reef	
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?	
SOPA	
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?	
R-111-P	
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?	
High Cave/Karst	
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?	
Critical Cave/Karst	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips - Boater Federal Com 804H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1193	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	556	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	666	12.7	1.68	9.09	72	Lead: Class C
	1340	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	11,750'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	441	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	666	12.7	1.68	9.09	72	Lead: Class C
	1340	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	7,964'	121%
Production	11,750'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Boater Federal Com 804H

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 804H

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
N	Density
N	CBL
Y	Mud log
N	PEX

ConocoPhillips - Boater Federal Com 804H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8620 psi at 12750' 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	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

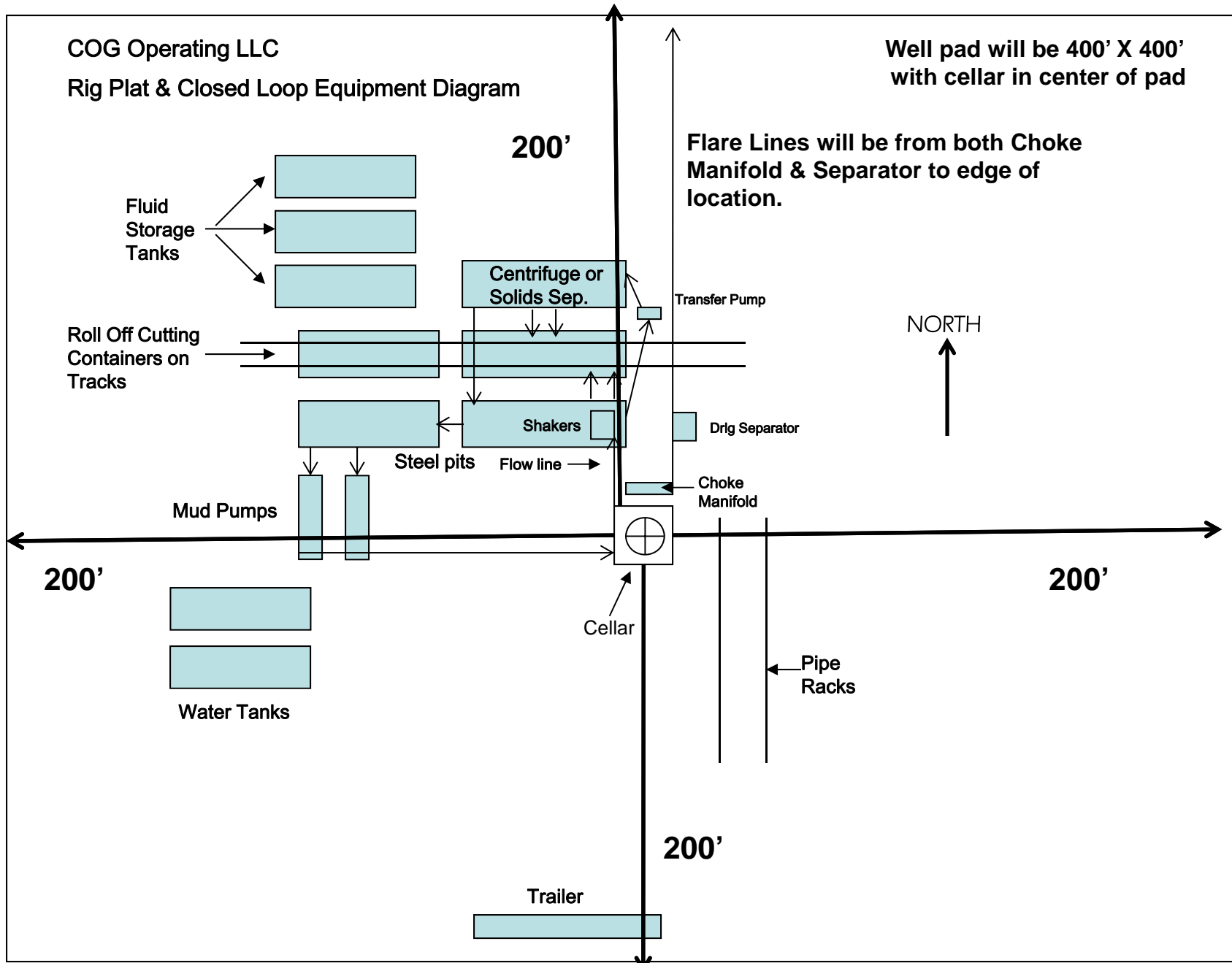


Exhibit 1

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 07/14/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

If Operator checks this box, Operator will select one of the following:

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

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

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

Section 4 - Notices

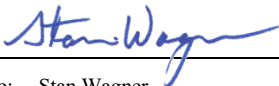
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
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.

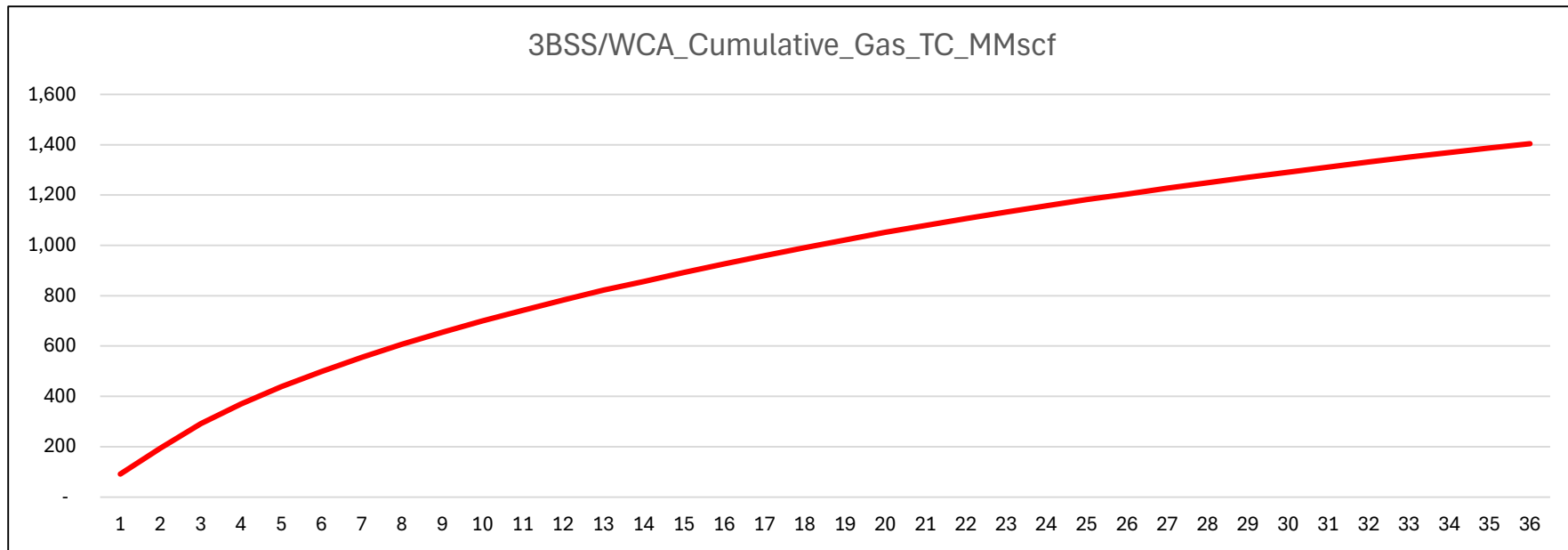
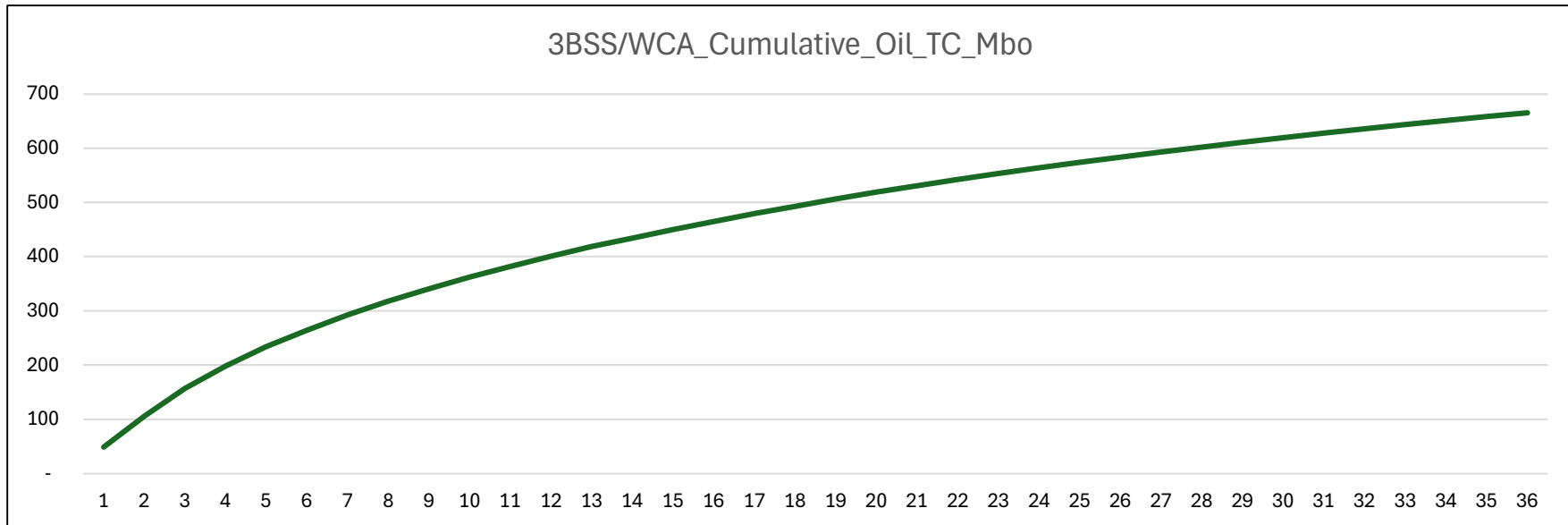
F. Measurement of vented and flared natural gas.

- 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

Anticipated Production Decline Curve



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.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 804H
LOCATION:	Section 29, T.25 S., R.35 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input checked="" type="checkbox"/> Contingency Cement Squeeze	<input checked="" type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> 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 539913

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539913
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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CONDITIONS

Action 539913

CONDITIONS

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	Action Number: 539913
	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.	1/5/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	3/12/2026
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.	3/12/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/12/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	3/12/2026
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.	3/12/2026
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.	3/12/2026