

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. <b style="color: red; font-size: 1.2em;">30-025-56045
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 / 1355 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102112 / LONG: -103.385386 (TVD: 0 feet, MD: 0 feet)
PPP: NESE / 2450 FSL / 550 FEL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.10108 / LONG: -103.382786 (TVD: 12743 feet, MD: 13008 feet)
PPP: NENE / 1 FNL / 550 FEL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094098 / LONG: -103.382778 (TVD: 12750 feet, MD: 15648 feet)
BHL: SESE / 50 FSL / 550 FEL / TWSP: 26S / RANGE: 35E / SECTION: 5 / LAT: 32.065209 / LONG: -103.382744 (TVD: 12750 feet, MD: 26058 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 style="width:100%; border: none;"> <tr> <td style="border: none;"><input checked="" type="checkbox"/> Initial Submittal</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> Amended Report</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> As Drilled</td> </tr> </table>	<input checked="" type="checkbox"/> Initial Submittal	<input type="checkbox"/> Amended Report	<input type="checkbox"/> As Drilled
<input checked="" type="checkbox"/> Initial Submittal					
<input type="checkbox"/> Amended Report					
<input type="checkbox"/> As Drilled					

WELL LOCATION INFORMATION

API Number 30-025- 56045	Pool Code 98117	Pool Name WC-025 G-09 S263504N; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 806H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3254.4'
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 type="checkbox"/> Tribal <input checked="" 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	1355 FEL	32.102112°N	103.385386°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	5	26-S	35-E		50 FSL	550 FEL	32.065209°N	103.382744°W	LEA

Dedicated Acres 640	Infill or Defining Well Infill	Defining Well API Pending 805H	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	1355 FEL	32.102112°N	103.385386°W	LEA

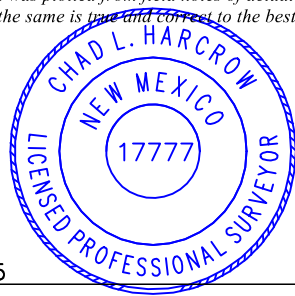
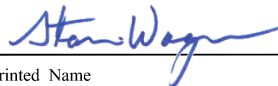
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	29	25-S	35-E		2540 FSL	550 FEL	32.101080°N	103.382786°W	LEA

Last Take Point (LTP)

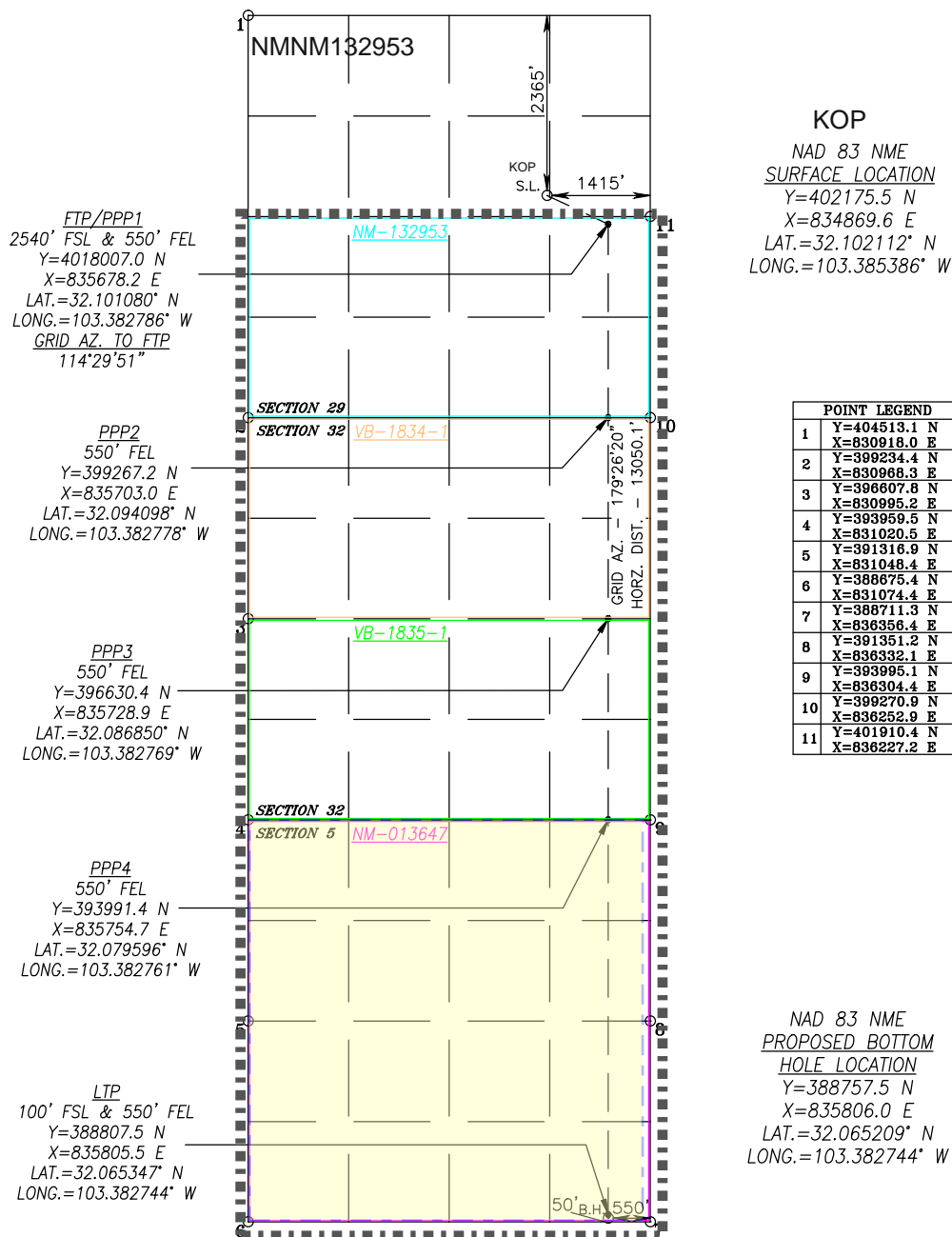
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	5	26-S	35-E		100 FSL	550 FEL	32.065347°N	103.382744°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3254.4'
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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;">  <p><i>Chad Harcrow</i> 6/6/25</p> </div>
Signature Date  7/7/25	Signature and Seal of Professional Surveyor
Printed Name Stan Wagner	Certificate Number 17777
Email Address	Date of Survey MAY 28, 2025
	W.O.#25-512 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.



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024
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Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 806H
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Dedicated Acres 960	Infill or Defining Well Infill	Defining Well API Pending 805H	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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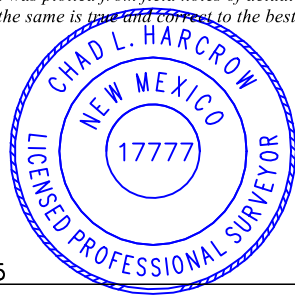
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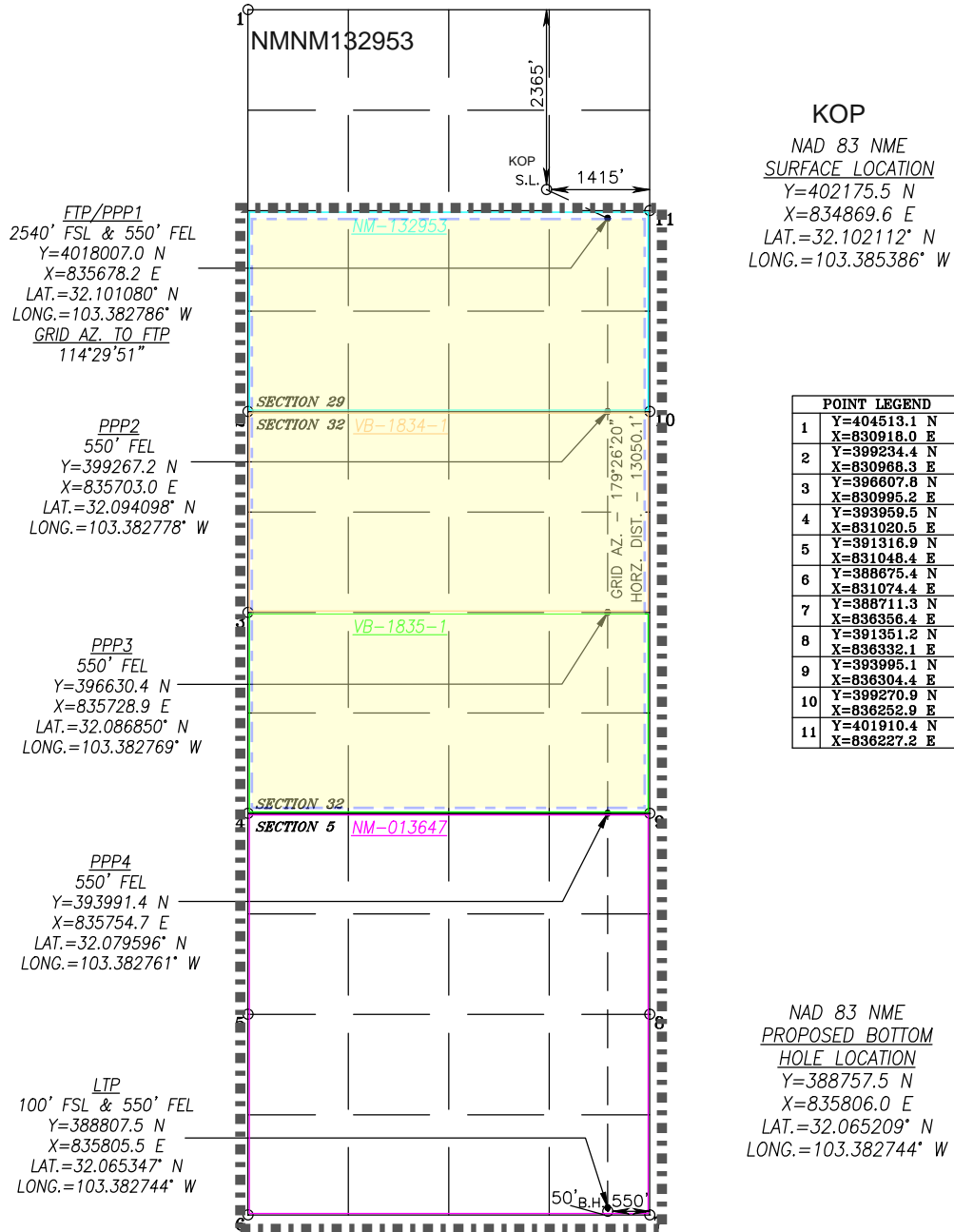
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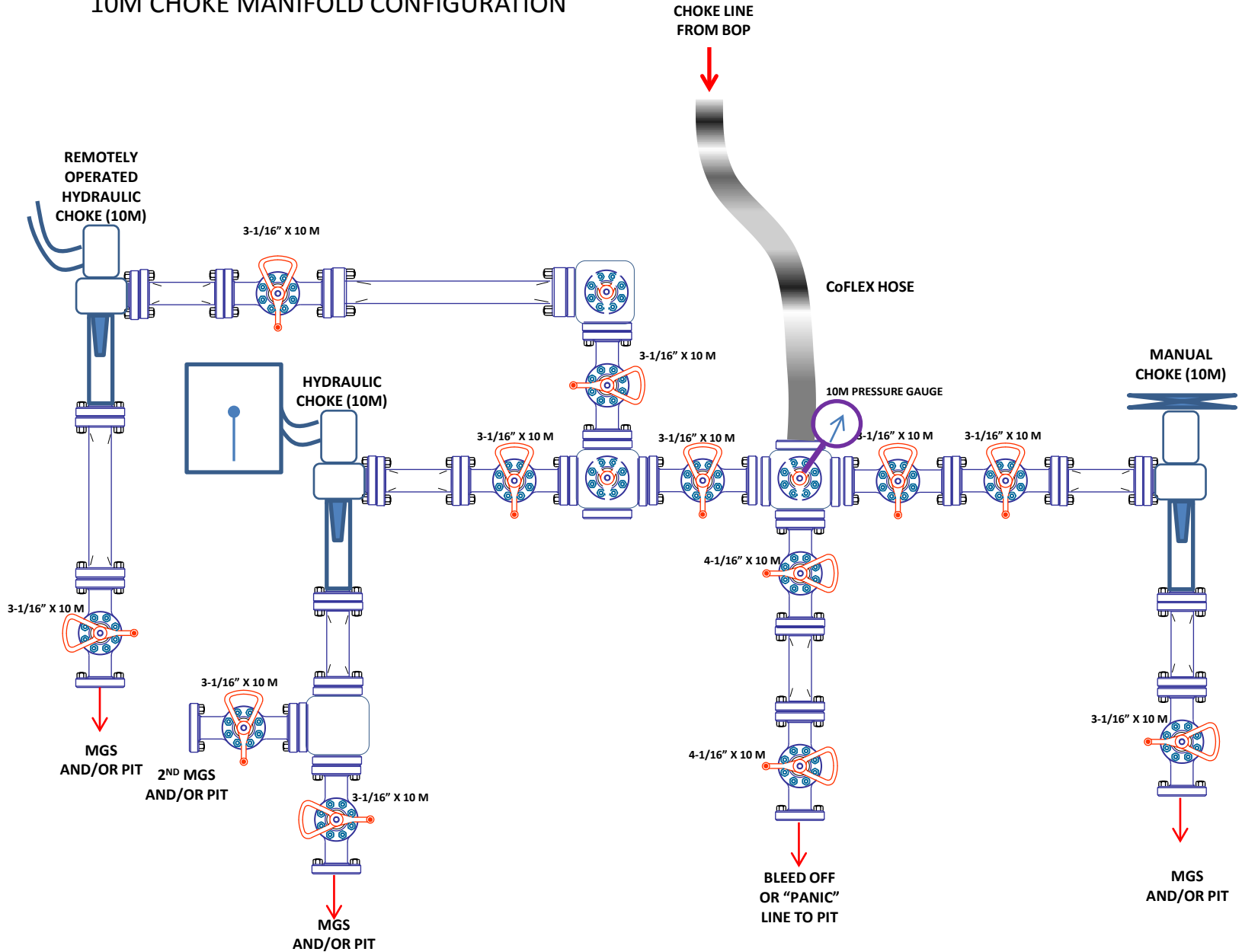
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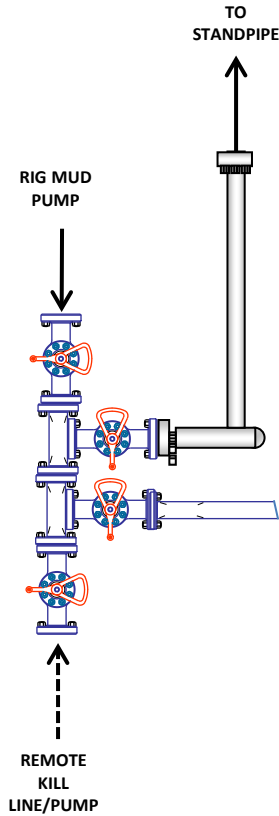
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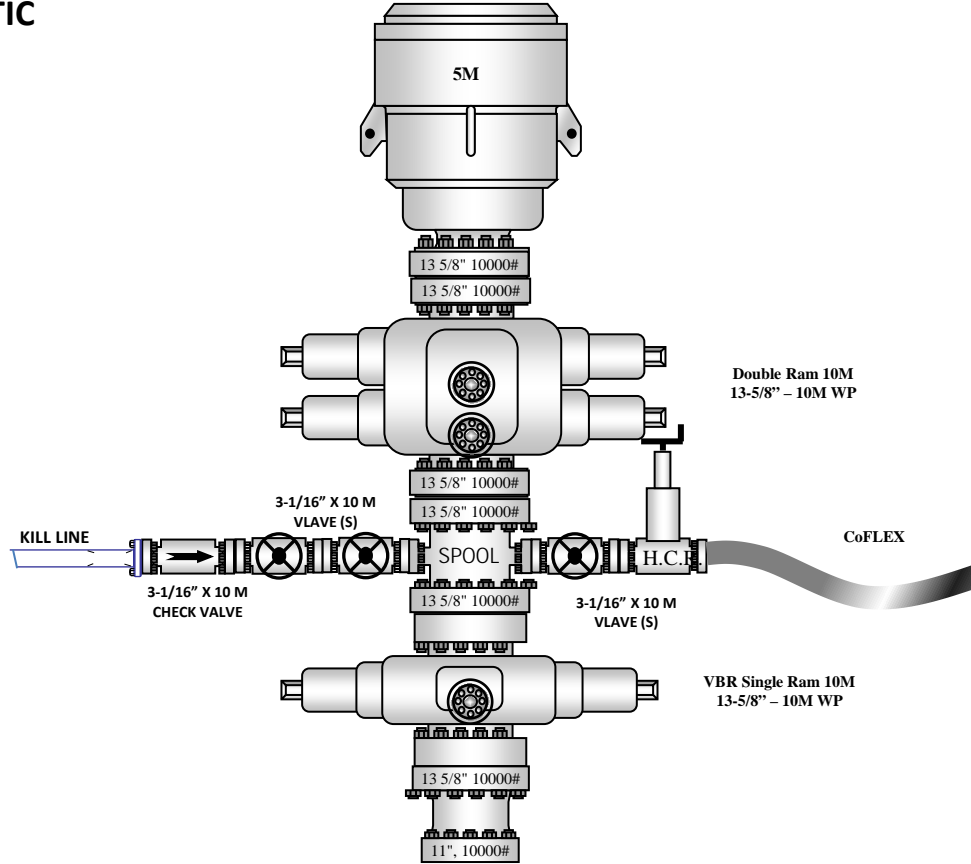
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



ConocoPhillips - Boater Federal Com 806H

1. Geologic Formations

TVD of Target:	12,750' EOL	Pilot hole depth:	N/A
MD at TD:	26,058'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	703	Water	
Top of Salt	850	Salt	
Base of Salt	5143	Salt	
Lamar	5261	Salt Water	
Bell Canyon	5275	Salt Water	
Cherry Canyon	6258	Oil/Gas	
Brushy Canyon	7938	Oil/Gas	
Bone Spring	9192	Oil/Gas	
1st Bone Spring Sand	10379	Oil/Gas	
2nd Bone Spring Sand	10908	Oil/Gas	
3rd Bone Spring Sand	11996	Oil/Gas	
Wolfcamp	12376	Oil/Gas	
Wolfcamp A	12503	Oil/Gas	
Wolfcamp B	12753	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	700	10.75"	45.5	J55	BTC	6.52	8.38	22.45	24.99
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.44	1.02	2.98	3.01
8.750"	8200	12237	7.625"	29.7	P110-ICY	W513	2.80	1.54	2.94	1.76
6.75"	0	12037	5.5"	23	P110-CY	BTC	3.33	2.01	2.63	2.63
6.75"	12037	26,058	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 806H

	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.	191	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	554	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	665	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	11,737'	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.	191	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	446	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	665	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	7,938'	122%
Production	11,737'	35% OH in Lateral (KOP to EOL)

ConocoPhillips - Boater Federal Com 806H

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 806H

5. Mud Program

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

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

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

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

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

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

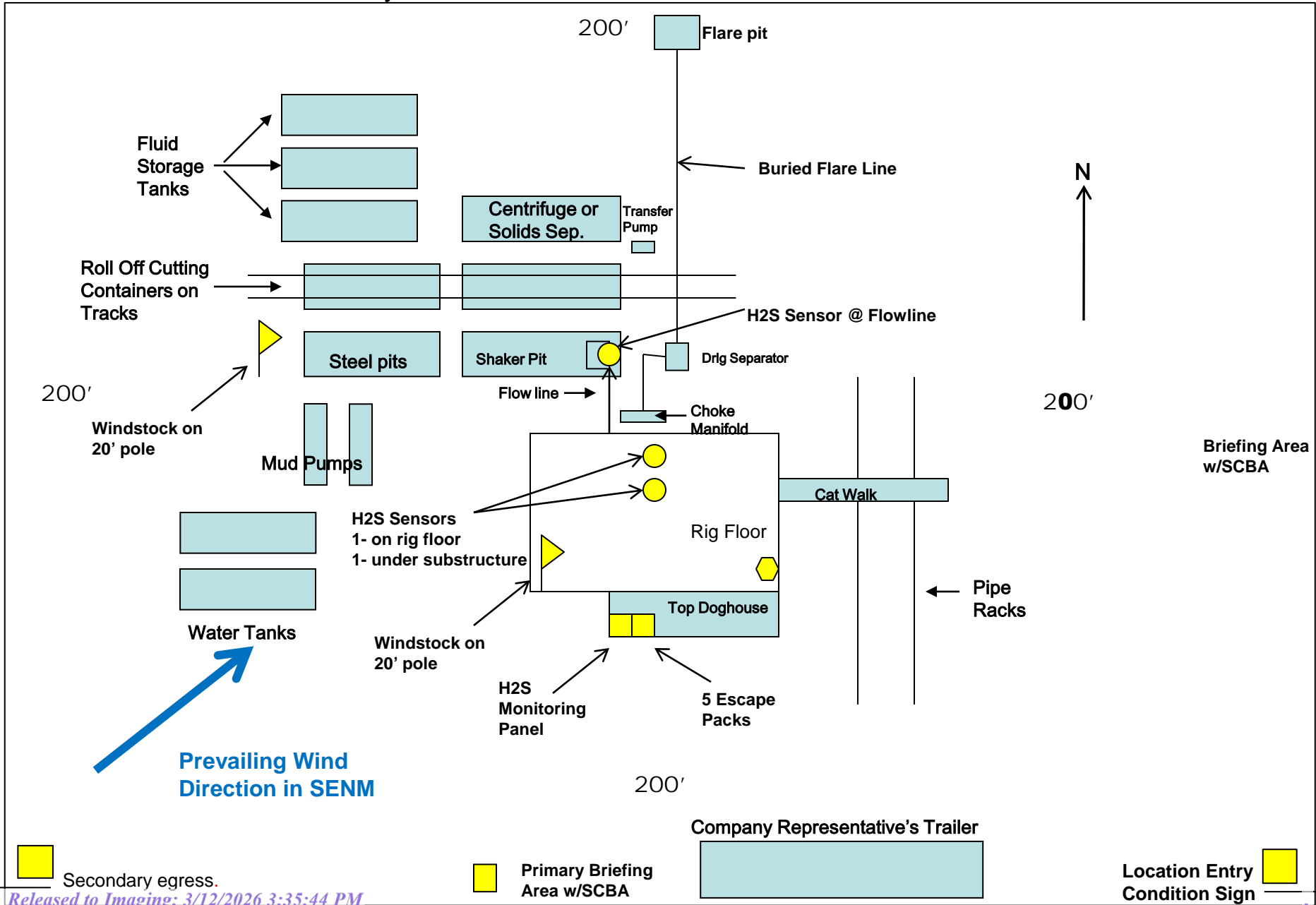
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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



Location Entry
Condition Sign

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 806H - Slot BOATER FED COM 806H

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 806H - Slot BOATER FED COM 806H
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 806H	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	47,140.11388822

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	176.01

Plan Survey Tool Program	Date	4/24/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	26,058.0 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	
2,478.2	9.56	87.87	2,476.0	1.5	39.8	2.00	2.00	0.00	87.87	
6,607.7	9.56	87.87	6,548.0	27.0	725.4	0.00	0.00	0.00	0.00	
7,564.0	0.00	0.00	7,500.0	30.0	805.0	1.00	-1.00	0.00	180.00	
12,336.5	0.00	0.00	12,272.5	30.0	805.0	0.00	0.00	0.00	0.00	
13,086.5	90.00	179.44	12,750.0	-447.4	809.7	12.00	12.00	23.93	179.44	
26,058.0	90.00	179.44	12,750.0	-13,418.2	936.7	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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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 806H	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	87.87	2,100.0	0.1	1.7	0.1	2.00	2.00	0.00	
2,200.0	4.00	87.87	2,199.8	0.3	7.0	0.2	2.00	2.00	0.00	
2,300.0	6.00	87.87	2,299.5	0.6	15.7	0.5	2.00	2.00	0.00	
2,400.0	8.00	87.87	2,398.7	1.0	27.9	0.9	2.00	2.00	0.00	
2,478.2	9.56	87.87	2,476.0	1.5	39.8	1.3	2.00	2.00	0.00	
2,500.0	9.56	87.87	2,497.5	1.6	43.4	1.4	0.00	0.00	0.00	
2,600.0	9.56	87.87	2,596.1	2.2	60.0	1.9	0.00	0.00	0.00	
2,700.0	9.56	87.87	2,694.7	2.9	76.6	2.5	0.00	0.00	0.00	
2,800.0	9.56	87.87	2,793.3	3.5	93.2	3.0	0.00	0.00	0.00	
2,900.0	9.56	87.87	2,891.9	4.1	109.8	3.6	0.00	0.00	0.00	
3,000.0	9.56	87.87	2,990.5	4.7	126.4	4.1	0.00	0.00	0.00	
3,100.0	9.56	87.87	3,089.1	5.3	143.0	4.6	0.00	0.00	0.00	
3,200.0	9.56	87.87	3,187.7	5.9	159.6	5.2	0.00	0.00	0.00	
3,300.0	9.56	87.87	3,286.4	6.6	176.2	5.7	0.00	0.00	0.00	
3,400.0	9.56	87.87	3,385.0	7.2	192.8	6.3	0.00	0.00	0.00	
3,500.0	9.56	87.87	3,483.6	7.8	209.4	6.8	0.00	0.00	0.00	
3,600.0	9.56	87.87	3,582.2	8.4	226.0	7.3	0.00	0.00	0.00	
3,700.0	9.56	87.87	3,680.8	9.0	242.7	7.9	0.00	0.00	0.00	
3,800.0	9.56	87.87	3,779.4	9.7	259.3	8.4	0.00	0.00	0.00	
3,900.0	9.56	87.87	3,878.0	10.3	275.9	9.0	0.00	0.00	0.00	
4,000.0	9.56	87.87	3,976.6	10.9	292.5	9.5	0.00	0.00	0.00	
4,100.0	9.56	87.87	4,075.2	11.5	309.1	10.0	0.00	0.00	0.00	
4,200.0	9.56	87.87	4,173.9	12.1	325.7	10.6	0.00	0.00	0.00	
4,300.0	9.56	87.87	4,272.5	12.8	342.3	11.1	0.00	0.00	0.00	
4,400.0	9.56	87.87	4,371.1	13.4	358.9	11.6	0.00	0.00	0.00	
4,500.0	9.56	87.87	4,469.7	14.0	375.5	12.2	0.00	0.00	0.00	
4,600.0	9.56	87.87	4,568.3	14.6	392.1	12.7	0.00	0.00	0.00	
4,700.0	9.56	87.87	4,666.9	15.2	408.7	13.3	0.00	0.00	0.00	
4,800.0	9.56	87.87	4,765.5	15.8	425.3	13.8	0.00	0.00	0.00	
4,900.0	9.56	87.87	4,864.1	16.5	441.9	14.3	0.00	0.00	0.00	
5,000.0	9.56	87.87	4,962.7	17.1	458.5	14.9	0.00	0.00	0.00	
5,100.0	9.56	87.87	5,061.3	17.7	475.1	15.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	9.56	87.87	5,160.0	18.3	491.7	16.0	0.00	0.00	0.00	
5,300.0	9.56	87.87	5,258.6	18.9	508.3	16.5	0.00	0.00	0.00	
5,400.0	9.56	87.87	5,357.2	19.6	524.9	17.0	0.00	0.00	0.00	
5,500.0	9.56	87.87	5,455.8	20.2	541.5	17.6	0.00	0.00	0.00	
5,600.0	9.56	87.87	5,554.4	20.8	558.1	18.1	0.00	0.00	0.00	
5,700.0	9.56	87.87	5,653.0	21.4	574.7	18.7	0.00	0.00	0.00	
5,800.0	9.56	87.87	5,751.6	22.0	591.3	19.2	0.00	0.00	0.00	
5,900.0	9.56	87.87	5,850.2	22.7	607.9	19.7	0.00	0.00	0.00	
6,000.0	9.56	87.87	5,948.8	23.3	624.5	20.3	0.00	0.00	0.00	
6,100.0	9.56	87.87	6,047.4	23.9	641.1	20.8	0.00	0.00	0.00	
6,200.0	9.56	87.87	6,146.1	24.5	657.7	21.4	0.00	0.00	0.00	
6,300.0	9.56	87.87	6,244.7	25.1	674.3	21.9	0.00	0.00	0.00	
6,400.0	9.56	87.87	6,343.3	25.7	690.9	22.4	0.00	0.00	0.00	
6,500.0	9.56	87.87	6,441.9	26.4	707.5	23.0	0.00	0.00	0.00	
6,600.0	9.56	87.87	6,540.5	27.0	724.1	23.5	0.00	0.00	0.00	
6,607.7	9.56	87.87	6,548.0	27.0	725.4	23.5	0.00	0.00	0.00	
6,700.0	8.64	87.87	6,639.2	27.6	740.0	24.0	1.00	-1.00	0.00	
6,800.0	7.64	87.87	6,738.2	28.1	754.2	24.5	1.00	-1.00	0.00	
6,900.0	6.64	87.87	6,837.4	28.6	766.6	24.9	1.00	-1.00	0.00	
7,000.0	5.64	87.87	6,936.9	29.0	777.3	25.2	1.00	-1.00	0.00	
7,100.0	4.64	87.87	7,036.5	29.3	786.2	25.5	1.00	-1.00	0.00	
7,200.0	3.64	87.87	7,136.2	29.6	793.4	25.8	1.00	-1.00	0.00	
7,300.0	2.64	87.87	7,236.0	29.8	798.9	25.9	1.00	-1.00	0.00	
7,400.0	1.64	87.87	7,336.0	29.9	802.7	26.1	1.00	-1.00	0.00	
7,500.0	0.64	87.87	7,436.0	30.0	804.6	26.1	1.00	-1.00	0.00	
7,564.0	0.00	0.00	7,500.0	30.0	805.0	26.1	1.00	-1.00	0.00	
7,600.0	0.00	0.00	7,536.0	30.0	805.0	26.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,636.0	30.0	805.0	26.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,736.0	30.0	805.0	26.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,836.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,936.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,036.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,136.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,236.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,336.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,436.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,536.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,636.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,736.0	30.0	805.0	26.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,836.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,936.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,036.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,136.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,236.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,336.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,436.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,536.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,636.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,736.0	30.0	805.0	26.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,836.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,936.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,036.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,136.0	30.0	805.0	26.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	10,236.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,336.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,436.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,536.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,636.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,736.0	30.0	805.0	26.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,836.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,936.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,036.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,136.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,236.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,336.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,436.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,536.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,636.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,736.0	30.0	805.0	26.1	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,836.0	30.0	805.0	26.1	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,936.0	30.0	805.0	26.1	0.00	0.00	0.00	
12,100.0	0.00	0.00	12,036.0	30.0	805.0	26.1	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,136.0	30.0	805.0	26.1	0.00	0.00	0.00	
12,300.0	0.00	0.00	12,236.0	30.0	805.0	26.1	0.00	0.00	0.00	
12,336.5	0.00	0.00	12,272.5	30.0	805.0	26.1	0.00	0.00	0.00	
12,400.0	7.61	179.44	12,335.8	25.8	805.0	30.3	12.00	12.00	0.00	
12,500.0	19.61	179.44	12,432.8	2.3	805.3	53.8	12.00	12.00	0.00	
12,600.0	31.61	179.44	12,522.8	-40.9	805.7	96.9	12.00	12.00	0.00	
12,700.0	43.61	179.44	12,601.9	-101.8	806.3	157.7	12.00	12.00	0.00	
12,800.0	55.61	179.44	12,666.5	-177.8	807.0	233.6	12.00	12.00	0.00	
12,900.0	67.61	179.44	12,714.0	-265.6	807.9	321.2	12.00	12.00	0.00	
13,000.0	79.61	179.44	12,742.1	-361.4	808.8	416.8	12.00	12.00	0.00	
13,086.5	90.00	179.44	12,750.0	-447.4	809.7	502.7	12.00	12.00	0.00	
13,100.0	90.00	179.44	12,750.0	-460.9	809.8	516.2	0.00	0.00	0.00	
13,200.0	90.00	179.44	12,750.0	-560.9	810.8	616.0	0.00	0.00	0.00	
13,300.0	90.00	179.44	12,750.0	-660.9	811.8	715.8	0.00	0.00	0.00	
13,400.0	90.00	179.44	12,750.0	-760.9	812.7	815.6	0.00	0.00	0.00	
13,500.0	90.00	179.44	12,750.0	-860.9	813.7	915.4	0.00	0.00	0.00	
13,600.0	90.00	179.44	12,750.0	-960.9	814.7	1,015.3	0.00	0.00	0.00	
13,700.0	90.00	179.44	12,750.0	-1,060.9	815.7	1,115.1	0.00	0.00	0.00	
13,800.0	90.00	179.44	12,750.0	-1,160.9	816.7	1,214.9	0.00	0.00	0.00	
13,900.0	90.00	179.44	12,750.0	-1,260.9	817.6	1,314.7	0.00	0.00	0.00	
14,000.0	90.00	179.44	12,750.0	-1,360.8	818.6	1,414.6	0.00	0.00	0.00	
14,100.0	90.00	179.44	12,750.0	-1,460.8	819.6	1,514.4	0.00	0.00	0.00	
14,200.0	90.00	179.44	12,750.0	-1,560.8	820.6	1,614.2	0.00	0.00	0.00	
14,300.0	90.00	179.44	12,750.0	-1,660.8	821.6	1,714.0	0.00	0.00	0.00	
14,400.0	90.00	179.44	12,750.0	-1,760.8	822.5	1,813.8	0.00	0.00	0.00	
14,500.0	90.00	179.44	12,750.0	-1,860.8	823.5	1,913.7	0.00	0.00	0.00	
14,600.0	90.00	179.44	12,750.0	-1,960.8	824.5	2,013.5	0.00	0.00	0.00	
14,700.0	90.00	179.44	12,750.0	-2,060.8	825.5	2,113.3	0.00	0.00	0.00	
14,800.0	90.00	179.44	12,750.0	-2,160.8	826.5	2,213.1	0.00	0.00	0.00	
14,900.0	90.00	179.44	12,750.0	-2,260.8	827.4	2,312.9	0.00	0.00	0.00	
15,000.0	90.00	179.44	12,750.0	-2,360.8	828.4	2,412.8	0.00	0.00	0.00	
15,100.0	90.00	179.44	12,750.0	-2,460.8	829.4	2,512.6	0.00	0.00	0.00	
15,200.0	90.00	179.44	12,750.0	-2,560.8	830.4	2,612.4	0.00	0.00	0.00	
15,300.0	90.00	179.44	12,750.0	-2,660.8	831.4	2,712.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	-2,760.8	832.3	2,812.0	0.00	0.00	0.00	
15,500.0	90.00	179.44	12,750.0	-2,860.8	833.3	2,911.9	0.00	0.00	0.00	
15,600.0	90.00	179.44	12,750.0	-2,960.8	834.3	3,011.7	0.00	0.00	0.00	
15,700.0	90.00	179.44	12,750.0	-3,060.8	835.3	3,111.5	0.00	0.00	0.00	
15,800.0	90.00	179.44	12,750.0	-3,160.8	836.2	3,211.3	0.00	0.00	0.00	
15,900.0	90.00	179.44	12,750.0	-3,260.8	837.2	3,311.1	0.00	0.00	0.00	
16,000.0	90.00	179.44	12,750.0	-3,360.8	838.2	3,411.0	0.00	0.00	0.00	
16,100.0	90.00	179.44	12,750.0	-3,460.7	839.2	3,510.8	0.00	0.00	0.00	
16,200.0	90.00	179.44	12,750.0	-3,560.7	840.2	3,610.6	0.00	0.00	0.00	
16,300.0	90.00	179.44	12,750.0	-3,660.7	841.1	3,710.4	0.00	0.00	0.00	
16,400.0	90.00	179.44	12,750.0	-3,760.7	842.1	3,810.2	0.00	0.00	0.00	
16,500.0	90.00	179.44	12,750.0	-3,860.7	843.1	3,910.1	0.00	0.00	0.00	
16,600.0	90.00	179.44	12,750.0	-3,960.7	844.1	4,009.9	0.00	0.00	0.00	
16,700.0	90.00	179.44	12,750.0	-4,060.7	845.1	4,109.7	0.00	0.00	0.00	
16,800.0	90.00	179.44	12,750.0	-4,160.7	846.0	4,209.5	0.00	0.00	0.00	
16,900.0	90.00	179.44	12,750.0	-4,260.7	847.0	4,309.4	0.00	0.00	0.00	
17,000.0	90.00	179.44	12,750.0	-4,360.7	848.0	4,409.2	0.00	0.00	0.00	
17,100.0	90.00	179.44	12,750.0	-4,460.7	849.0	4,509.0	0.00	0.00	0.00	
17,200.0	90.00	179.44	12,750.0	-4,560.7	850.0	4,608.8	0.00	0.00	0.00	
17,300.0	90.00	179.44	12,750.0	-4,660.7	850.9	4,708.6	0.00	0.00	0.00	
17,400.0	90.00	179.44	12,750.0	-4,760.7	851.9	4,808.5	0.00	0.00	0.00	
17,500.0	90.00	179.44	12,750.0	-4,860.7	852.9	4,908.3	0.00	0.00	0.00	
17,600.0	90.00	179.44	12,750.0	-4,960.7	853.9	5,008.1	0.00	0.00	0.00	
17,700.0	90.00	179.44	12,750.0	-5,060.7	854.9	5,107.9	0.00	0.00	0.00	
17,800.0	90.00	179.44	12,750.0	-5,160.7	855.8	5,207.7	0.00	0.00	0.00	
17,900.0	90.00	179.44	12,750.0	-5,260.7	856.8	5,307.6	0.00	0.00	0.00	
18,000.0	90.00	179.44	12,750.0	-5,360.7	857.8	5,407.4	0.00	0.00	0.00	
18,100.0	90.00	179.44	12,750.0	-5,460.7	858.8	5,507.2	0.00	0.00	0.00	
18,200.0	90.00	179.44	12,750.0	-5,560.6	859.8	5,607.0	0.00	0.00	0.00	
18,300.0	90.00	179.44	12,750.0	-5,660.6	860.7	5,706.8	0.00	0.00	0.00	
18,400.0	90.00	179.44	12,750.0	-5,760.6	861.7	5,806.7	0.00	0.00	0.00	
18,500.0	90.00	179.44	12,750.0	-5,860.6	862.7	5,906.5	0.00	0.00	0.00	
18,600.0	90.00	179.44	12,750.0	-5,960.6	863.7	6,006.3	0.00	0.00	0.00	
18,700.0	90.00	179.44	12,750.0	-6,060.6	864.6	6,106.1	0.00	0.00	0.00	
18,800.0	90.00	179.44	12,750.0	-6,160.6	865.6	6,205.9	0.00	0.00	0.00	
18,900.0	90.00	179.44	12,750.0	-6,260.6	866.6	6,305.8	0.00	0.00	0.00	
19,000.0	90.00	179.44	12,750.0	-6,360.6	867.6	6,405.6	0.00	0.00	0.00	
19,100.0	90.00	179.44	12,750.0	-6,460.6	868.6	6,505.4	0.00	0.00	0.00	
19,200.0	90.00	179.44	12,750.0	-6,560.6	869.5	6,605.2	0.00	0.00	0.00	
19,300.0	90.00	179.44	12,750.0	-6,660.6	870.5	6,705.0	0.00	0.00	0.00	
19,400.0	90.00	179.44	12,750.0	-6,760.6	871.5	6,804.9	0.00	0.00	0.00	
19,500.0	90.00	179.44	12,750.0	-6,860.6	872.5	6,904.7	0.00	0.00	0.00	
19,600.0	90.00	179.44	12,750.0	-6,960.6	873.5	7,004.5	0.00	0.00	0.00	
19,700.0	90.00	179.44	12,750.0	-7,060.6	874.4	7,104.3	0.00	0.00	0.00	
19,800.0	90.00	179.44	12,750.0	-7,160.6	875.4	7,204.2	0.00	0.00	0.00	
19,900.0	90.00	179.44	12,750.0	-7,260.6	876.4	7,304.0	0.00	0.00	0.00	
20,000.0	90.00	179.44	12,750.0	-7,360.6	877.4	7,403.8	0.00	0.00	0.00	
20,100.0	90.00	179.44	12,750.0	-7,460.6	878.4	7,503.6	0.00	0.00	0.00	
20,200.0	90.00	179.44	12,750.0	-7,560.6	879.3	7,603.4	0.00	0.00	0.00	
20,300.0	90.00	179.44	12,750.0	-7,660.5	880.3	7,703.3	0.00	0.00	0.00	
20,400.0	90.00	179.44	12,750.0	-7,760.5	881.3	7,803.1	0.00	0.00	0.00	
20,500.0	90.00	179.44	12,750.0	-7,860.5	882.3	7,902.9	0.00	0.00	0.00	
20,600.0	90.00	179.44	12,750.0	-7,960.5	883.3	8,002.7	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	-8,060.5	884.2	8,102.5	0.00	0.00	0.00	
20,800.0	90.00	179.44	12,750.0	-8,160.5	885.2	8,202.4	0.00	0.00	0.00	
20,900.0	90.00	179.44	12,750.0	-8,260.5	886.2	8,302.2	0.00	0.00	0.00	
21,000.0	90.00	179.44	12,750.0	-8,360.5	887.2	8,402.0	0.00	0.00	0.00	
21,100.0	90.00	179.44	12,750.0	-8,460.5	888.2	8,501.8	0.00	0.00	0.00	
21,200.0	90.00	179.44	12,750.0	-8,560.5	889.1	8,601.6	0.00	0.00	0.00	
21,300.0	90.00	179.44	12,750.0	-8,660.5	890.1	8,701.5	0.00	0.00	0.00	
21,400.0	90.00	179.44	12,750.0	-8,760.5	891.1	8,801.3	0.00	0.00	0.00	
21,500.0	90.00	179.44	12,750.0	-8,860.5	892.1	8,901.1	0.00	0.00	0.00	
21,600.0	90.00	179.44	12,750.0	-8,960.5	893.1	9,000.9	0.00	0.00	0.00	
21,700.0	90.00	179.44	12,750.0	-9,060.5	894.0	9,100.7	0.00	0.00	0.00	
21,800.0	90.00	179.44	12,750.0	-9,160.5	895.0	9,200.6	0.00	0.00	0.00	
21,900.0	90.00	179.44	12,750.0	-9,260.5	896.0	9,300.4	0.00	0.00	0.00	
22,000.0	90.00	179.44	12,750.0	-9,360.5	897.0	9,400.2	0.00	0.00	0.00	
22,100.0	90.00	179.44	12,750.0	-9,460.5	897.9	9,500.0	0.00	0.00	0.00	
22,200.0	90.00	179.44	12,750.0	-9,560.5	898.9	9,599.8	0.00	0.00	0.00	
22,300.0	90.00	179.44	12,750.0	-9,660.5	899.9	9,699.7	0.00	0.00	0.00	
22,400.0	90.00	179.44	12,750.0	-9,760.4	900.9	9,799.5	0.00	0.00	0.00	
22,500.0	90.00	179.44	12,750.0	-9,860.4	901.9	9,899.3	0.00	0.00	0.00	
22,600.0	90.00	179.44	12,750.0	-9,960.4	902.8	9,999.1	0.00	0.00	0.00	
22,700.0	90.00	179.44	12,750.0	-10,060.4	903.8	10,098.9	0.00	0.00	0.00	
22,800.0	90.00	179.44	12,750.0	-10,160.4	904.8	10,198.8	0.00	0.00	0.00	
22,900.0	90.00	179.44	12,750.0	-10,260.4	905.8	10,298.6	0.00	0.00	0.00	
23,000.0	90.00	179.44	12,750.0	-10,360.4	906.8	10,398.4	0.00	0.00	0.00	
23,100.0	90.00	179.44	12,750.0	-10,460.4	907.7	10,498.2	0.00	0.00	0.00	
23,200.0	90.00	179.44	12,750.0	-10,560.4	908.7	10,598.1	0.00	0.00	0.00	
23,300.0	90.00	179.44	12,750.0	-10,660.4	909.7	10,697.9	0.00	0.00	0.00	
23,400.0	90.00	179.44	12,750.0	-10,760.4	910.7	10,797.7	0.00	0.00	0.00	
23,500.0	90.00	179.44	12,750.0	-10,860.4	911.7	10,897.5	0.00	0.00	0.00	
23,600.0	90.00	179.44	12,750.0	-10,960.4	912.6	10,997.3	0.00	0.00	0.00	
23,700.0	90.00	179.44	12,750.0	-11,060.4	913.6	11,097.2	0.00	0.00	0.00	
23,800.0	90.00	179.44	12,750.0	-11,160.4	914.6	11,197.0	0.00	0.00	0.00	
23,900.0	90.00	179.44	12,750.0	-11,260.4	915.6	11,296.8	0.00	0.00	0.00	
24,000.0	90.00	179.44	12,750.0	-11,360.4	916.6	11,396.6	0.00	0.00	0.00	
24,100.0	90.00	179.44	12,750.0	-11,460.4	917.5	11,496.4	0.00	0.00	0.00	
24,200.0	90.00	179.44	12,750.0	-11,560.4	918.5	11,596.3	0.00	0.00	0.00	
24,300.0	90.00	179.44	12,750.0	-11,660.4	919.5	11,696.1	0.00	0.00	0.00	
24,400.0	90.00	179.44	12,750.0	-11,760.3	920.5	11,795.9	0.00	0.00	0.00	
24,500.0	90.00	179.44	12,750.0	-11,860.3	921.5	11,895.7	0.00	0.00	0.00	
24,600.0	90.00	179.44	12,750.0	-11,960.3	922.4	11,995.5	0.00	0.00	0.00	
24,700.0	90.00	179.44	12,750.0	-12,060.3	923.4	12,095.4	0.00	0.00	0.00	
24,800.0	90.00	179.44	12,750.0	-12,160.3	924.4	12,195.2	0.00	0.00	0.00	
24,900.0	90.00	179.44	12,750.0	-12,260.3	925.4	12,295.0	0.00	0.00	0.00	
25,000.0	90.00	179.44	12,750.0	-12,360.3	926.3	12,394.8	0.00	0.00	0.00	
25,100.0	90.00	179.44	12,750.0	-12,460.3	927.3	12,494.6	0.00	0.00	0.00	
25,200.0	90.00	179.44	12,750.0	-12,560.3	928.3	12,594.5	0.00	0.00	0.00	
25,300.0	90.00	179.44	12,750.0	-12,660.3	929.3	12,694.3	0.00	0.00	0.00	
25,400.0	90.00	179.44	12,750.0	-12,760.3	930.3	12,794.1	0.00	0.00	0.00	
25,500.0	90.00	179.44	12,750.0	-12,860.3	931.2	12,893.9	0.00	0.00	0.00	
25,600.0	90.00	179.44	12,750.0	-12,960.3	932.2	12,993.7	0.00	0.00	0.00	
25,700.0	90.00	179.44	12,750.0	-13,060.3	933.2	13,093.6	0.00	0.00	0.00	
25,800.0	90.00	179.44	12,750.0	-13,160.3	934.2	13,193.4	0.00	0.00	0.00	
25,900.0	90.00	179.44	12,750.0	-13,260.3	935.2	13,293.2	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	-13,360.3	936.1	13,393.0	0.00	0.00	0.00	
26,058.0	90.00	179.44	12,750.0	-13,418.2	936.7	13,450.9	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	-369.4	809.6	401,748.63	794,491.02	32° 6' 3.429 N	103° 22' 56.358 W	- plan misses target center by 6.4usft at 13008.7usft MD (12743.6 TVD, -370.0 N, 808.9 E) - Circle (radius 50.0)
PBHL_BOATER FED C() - plan hits target center - Rectangle (sides W100.0 H13,049.0 D20.0)	0.00	359.44	12,750.0	-13,418.2	936.7	388,699.81	794,618.16	32° 3' 54.297 N	103° 22' 56.218 W	
LTP_BOATER FED COM - plan misses target center by 8.0usft at 26000.0usft MD (12750.0 TVD, -13360.3 N, 936.1 E) - Circle (radius 50.0)	90.00	179.44	12,750.0	-13,368.2	936.2	388,749.80	794,617.68	32° 3' 54.791 N	103° 22' 56.218 W	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
26,058.0	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 806H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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	26,058.0	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corri

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
AKUBRA PROJECT						
AKUBRA FED COM 601H - OWB - AWP						Out of range
AKUBRA FED COM 701H - OWB - AWP	20,125.0	13,291.0	861.8	765.6	8.959	CC, ES
AKUBRA FED COM 701H - OWB - AWP	20,600.0	12,876.0	876.6	775.3	8.648	SF
AKUBRA FED COM 702H - OWB - AWP						Out of range
AKUBRA FED COM 801H - OWB - AWP						Out of range
TALCO 9 26 35 FED 003H - TALCO 9 26 35 FED 003H -						Out of range
BOATER FED COM PROJECT						
_BOATER FED COM 602H - OWB - PWP0						Out of range
_BOATER FED COM 603H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867	CC, ES
_BOATER FED COM 603H - OWB - PWP0	2,100.0	2,096.9	93.4	81.5	7.863	SF
_BOATER FED COM 702H - OWB - PWP0						Out of range
_BOATER FED COM 703H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623	Normal Operations, CC, ES, SF
_BOATER FED COM 802H - OWB - PWP0						Out of range
_BOATER FED COM 803H - OWB - PWP0	2,000.0	2,000.0	149.7	138.3	13.088	CC, ES
_BOATER FED COM 803H - OWB - PWP0	2,100.0	2,094.9	153.1	141.2	12.893	SF
_BOATER FED COM 804H - OWB - PWP0	2,000.0	2,000.0	120.0	108.6	10.490	CC, ES
_BOATER FED COM 804H - OWB - PWP0	2,100.0	2,095.9	123.4	111.5	10.391	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	26,058.0	25,621.7	880.0	636.6	3.616	SF
CAVE LION 5 TB FEDERAL - OWB - AWP	25,341.9	12,952.0	320.8	202.8	2.719	Normal Operations, CC, ES, SF
CAVE LION 5 TB FEDERAL 008H - OWB - AWP						Out of range
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	21,754.0	16,491.4	974.8	848.9	7.742	CC
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	24,400.0	13,844.7	975.2	832.5	6.837	ES
CAVE LION 5 TB FEDERAL 015H - OWB - AWP	24,600.0	13,684.9	979.3	835.3	6.804	SF
CAVE LION 5 WA FEDERAL 009H - OWB - AWP						Out of range
CAVE LION 5 WC FEDERAL 002H - OWB - AWP						Out of range

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
DUO SONIC 29 FEDERAL #4H - OWB - AWP	11,041.3	13,527.6	115.6	43.7	1.608	Caution - Monitor Closely, CC, ES, SF Out of range
GREEN BERET FED COM #501H - OWB - AWP						
GREEN BERET FED COM #602H - OWB - AWP	12,500.0	20,075.1	449.0	348.0	4.446	SF
GREEN BERET FED COM #602H - OWB - AWP	12,625.0	20,123.6	428.7	335.4	4.593	ES
GREEN BERET FED COM #602H - OWB - AWP	12,654.8	20,139.0	428.0	336.3	4.667	CC
GREEN BERET FED COM #701H - OWB - AWP						Out of range
GREEN BERET FED COM #702H - OWB - AWP						Out of range
GREEN BERET FED COM #801H - OWB - AWP	12,383.7	19,798.2	906.5	819.2	10.378	CC, ES, SF
TELE DELUX 32 STATE 4H - OWB - AWP	18,659.2	15,058.0	331.0	253.8	4.286	CC
TELE DELUX 32 STATE 4H - OWB - AWP	20,500.0	16,890.7	355.5	241.4	3.117	ES
TELE DELUX 32 STATE 4H - OWB - AWP	20,600.0	16,940.0	362.6	246.0	3.111	SF

Offset Design: AKUBRA PROJECT - AKUBRA FED COM 701H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 6-r.5 SDI_KPR_WL_NS-CT5, 1054-r.5 MWD+IFR1+SAG+FDIR, 12094-r.5 MWD+IFR1+SAG+FDIR, 14476-r.5 MWD+IFR													Rule Assigned:	0.0 usft
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,200.0	12,136.0	20,763.5	12,556.8	18.0	67.4	92.87		-15.3	1,707.8	997.1	904.0	93.04	10.716	
12,300.0	12,236.0	20,763.1	12,556.8	18.1	67.4	92.90		-15.7	1,707.7	959.2	864.4	94.75	10.123	
12,336.5	12,272.5	20,762.9	12,556.8	18.1	67.4	92.91		-15.9	1,707.7	947.6	852.3	95.30	9.943	
12,350.0	12,285.9	20,762.5	12,556.8	18.1	67.4	-87.00		-16.2	1,707.7	943.6	848.1	95.48	9.882	
12,375.0	12,310.9	20,760.0	12,556.8	18.1	67.3	-87.71		-18.8	1,707.6	936.7	840.9	95.78	9.780	
12,400.0	12,335.8	20,755.0	12,556.9	18.1	67.3	-88.19		-23.7	1,707.3	930.3	834.3	96.01	9.689	
12,425.0	12,360.4	20,747.8	12,556.9	18.1	67.2	-88.45		-31.0	1,706.9	924.5	828.3	96.18	9.612	
12,450.0	12,384.9	20,738.2	12,556.9	18.1	67.2	-88.50		-40.6	1,706.3	919.2	822.9	96.28	9.547	
12,475.0	12,409.0	20,727.0	12,556.9	18.1	67.1	-88.38		-51.7	1,705.6	914.5	818.2	96.33	9.494	
12,500.0	12,432.8	20,727.0	12,556.9	18.1	67.1	-88.88		-51.7	1,705.6	910.4	813.8	96.57	9.427	
12,525.0	12,456.1	20,727.0	12,556.9	18.1	67.1	-89.30		-51.7	1,705.6	907.0	810.2	96.79	9.371	
12,550.0	12,478.9	20,708.1	12,556.9	18.0	66.9	-88.56		-70.6	1,704.4	903.9	807.2	96.62	9.355	
12,575.0	12,501.2	20,700.2	12,556.9	18.0	66.9	-88.40		-78.5	1,703.9	901.5	804.8	96.65	9.327	
12,600.0	12,522.8	20,691.6	12,556.9	18.0	66.8	-88.15		-87.1	1,703.4	899.6	802.9	96.63	9.309	
12,625.0	12,543.7	20,682.2	12,556.8	18.0	66.7	-87.81		-96.4	1,703.0	898.2	801.6	96.59	9.300	
12,650.0	12,563.9	20,672.1	12,556.8	18.0	66.6	-87.39		-106.5	1,702.5	897.4	800.9	96.51	9.298	
12,675.0	12,583.3	20,661.4	12,556.7	18.0	66.5	-86.90		-117.3	1,702.1	897.0	800.6	96.40	9.305	
12,685.9	12,591.5	20,656.5	12,556.7	18.0	66.5	-86.67		-122.2	1,701.9	896.9	800.6	96.34	9.310	
12,700.0	12,601.9	20,637.0	12,556.6	18.0	66.4	-85.75		-141.6	1,701.4	897.1	801.1	96.05	9.341	
12,708.6	12,608.0	20,655.8	12,556.7	18.0	66.5	-86.61		-122.8	1,701.8	897.0	800.7	96.37	9.308	
12,725.0	12,619.5	20,638.8	12,556.6	18.0	66.4	-85.80		-139.8	1,701.4	897.4	801.3	96.12	9.336	
12,750.0	12,636.2	20,611.7	12,556.4	18.0	66.2	-84.56		-166.9	1,700.7	898.0	802.3	95.72	9.382	
12,775.0	12,651.9	20,583.2	12,556.3	18.0	65.9	-83.34		-195.4	1,699.6	898.7	803.4	95.28	9.431	
12,800.0	12,666.5	20,553.4	12,556.3	18.1	65.7	-82.16		-225.1	1,698.2	899.2	804.4	94.82	9.483	
12,825.0	12,680.1	20,531.3	12,556.3	18.1	65.5	-81.34		-247.2	1,697.0	899.6	805.1	94.50	9.520	
12,850.0	12,692.6	20,511.3	12,556.4	18.1	65.4	-80.65		-267.2	1,695.9	900.0	805.8	94.22	9.553	
12,875.0	12,703.9	20,490.6	12,556.4	18.1	65.2	-80.01		-287.8	1,694.9	900.5	806.5	93.93	9.586	
12,900.0	12,714.0	20,469.5	12,556.6	18.1	65.0	-79.42		-309.0	1,693.8	900.8	807.2	93.65	9.619	
12,925.0	12,722.9	20,456.0	12,556.7	18.2	64.9	-79.07		-322.4	1,693.2	901.2	807.7	93.50	9.638	
12,950.0	12,730.6	20,430.5	12,556.8	18.2	64.7	-78.54		-347.9	1,692.1	901.4	808.2	93.17	9.674	
12,975.0	12,737.0	20,411.7	12,556.9	18.2	64.6	-78.22		-366.7	1,691.4	901.5	808.6	92.96	9.698	

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 806H - Slot BOATER FED COM 806H
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 806H	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: AKUBRA PROJECT - AKUBRA FED COM 701H - OWB - AWP														Offset Site Error:	0.0 usft											
Survey Program: 6-r.5 SDI_KPR_WL_NS-CT, 1054-r.5 MWD+IFR1+SAG+FDIR, 12094-r.5 MWD+IFR1+SAG+FDIR, 14476-r.5 MWD+IFR														Offset Well Error:	0.0 usft											
Reference														Rule Assigned:												
Measured		Vertical		Measured		Vertical		Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Depth	(usft)	Depth	(usft)	Depth	(usft)	Depth	(usft)	Reference	(usft)	Offset	(usft)	Toolface	(°)	+N/-S	(usft)	+E/-W	(usft)	Between	Centres	(usft)	Between	Ellipses	(usft)	Distance	(usft)	Factor
13,000.0	12,742.1	20,392.6	12,557.0	18.3	64.4	-77.96	-385.8	1,690.9	901.6	808.8	92.75	9.720														
13,025.0	12,746.0	20,366.0	12,557.1	18.3	64.2	-77.71	-412.4	1,690.3	901.6	809.1	92.44	9.753														
13,042.3	12,747.9	20,366.0	12,557.1	18.3	64.2	-77.73	-412.4	1,690.3	901.5	809.0	92.51	9.745														
13,050.0	12,748.6	20,366.0	12,557.1	18.4	64.2	-77.72	-412.4	1,690.3	901.5	809.0	92.54	9.742														
13,075.0	12,749.8	20,341.0	12,557.1	18.4	64.0	-77.64	-437.4	1,690.0	901.3	809.0	92.28	9.767														
13,086.5	12,750.0	20,333.9	12,557.2	18.4	63.9	-77.65	-444.5	1,690.0	901.2	809.0	92.22	9.773														
13,100.0	12,750.0	20,325.6	12,557.2	18.5	63.9	-77.65	-452.8	1,690.1	901.2	809.0	92.15	9.779														
13,104.4	12,750.0	20,322.8	12,557.2	18.5	63.9	-77.65	-455.6	1,690.1	901.2	809.0	92.13	9.781														
13,200.0	12,750.0	20,255.5	12,557.2	18.7	63.3	-77.67	-522.9	1,692.3	903.1	811.6	91.55	9.865														
13,300.0	12,750.0	20,141.9	12,556.4	19.0	62.4	-77.66	-636.4	1,696.5	906.0	815.5	90.47	10.014														
13,400.0	12,750.0	20,043.1	12,556.4	19.3	61.6	-77.68	-735.1	1,698.6	907.1	817.6	89.59	10.126														
13,500.0	12,750.0	19,915.0	12,556.6	19.6	60.6	-77.71	-863.2	1,701.5	908.6	820.3	88.33	10.287														
13,552.2	12,750.0	19,873.7	12,556.7	19.8	60.3	-77.71	-904.4	1,701.7	908.3	820.2	88.03	10.318														
13,600.0	12,750.0	19,837.6	12,556.8	20.0	60.0	-77.72	-940.6	1,702.3	908.6	820.8	87.77	10.352														
13,700.0	12,750.0	19,767.7	12,557.0	20.4	59.4	-77.76	-1,010.4	1,705.0	911.4	824.2	87.27	10.444														
13,800.0	12,750.0	19,688.7	12,557.2	20.8	58.8	-77.84	-1,089.2	1,710.8	917.5	830.8	86.67	10.585														
13,900.0	12,750.0	19,599.6	12,557.4	21.2	58.1	-77.94	-1,178.0	1,718.5	924.9	838.9	85.99	10.755														
14,000.0	12,750.0	19,433.0	12,557.8	21.7	56.8	-78.09	-1,344.2	1,729.3	930.9	846.4	84.49	11.017														
14,071.3	12,750.0	19,353.9	12,558.7	22.0	56.2	-78.14	-1,423.2	1,730.1	930.7	846.8	83.87	11.097														
14,100.0	12,750.0	19,334.9	12,558.9	22.2	56.0	-78.15	-1,442.3	1,730.4	930.8	847.1	83.78	11.110														
14,200.0	12,750.0	19,263.7	12,559.3	22.7	55.5	-78.20	-1,513.4	1,733.3	933.6	850.2	83.41	11.194														
14,300.0	12,750.0	19,164.4	12,559.7	23.2	54.7	-78.29	-1,612.5	1,739.0	938.2	855.4	82.74	11.339														
14,400.0	12,750.0	19,012.1	12,560.3	23.7	53.5	-78.36	-1,764.7	1,743.2	940.0	858.6	81.43	11.544														
14,500.0	12,750.0	18,895.6	12,561.0	24.3	52.6	-78.36	-1,881.2	1,741.3	937.3	856.7	80.56	11.634														
14,600.0	12,750.0	18,806.6	12,561.2	24.9	52.0	-78.35	-1,970.2	1,740.0	934.8	854.6	80.14	11.665														
14,700.0	12,750.0	18,705.9	12,561.1	25.5	51.2	-78.32	-2,070.9	1,739.2	933.1	853.6	79.57	11.728														
14,800.0	12,750.0	18,527.1	12,562.3	26.1	49.7	-78.21	-2,249.1	1,727.0	924.1	846.7	77.48	11.927														
14,900.0	12,750.0	18,467.0	12,562.6	26.7	49.1	-78.19	-2,309.1	1,724.1	917.3	839.7	77.56	11.827														
15,000.0	12,750.0	18,402.4	12,562.9	27.3	48.6	-78.19	-2,373.7	1,723.5	914.6	836.9	77.66	11.776														
15,100.0	12,750.0	18,306.7	12,563.1	28.0	47.9	-78.18	-2,469.4	1,722.2	912.2	834.9	77.30	11.801														
15,200.0	12,750.0	18,215.7	12,563.3	28.6	47.3	-78.17	-2,560.4	1,721.8	910.8	833.7	77.03	11.823														
15,300.0	12,750.0	18,108.6	12,563.7	29.3	46.5	-78.18	-2,667.5	1,721.7	909.7	833.1	76.56	11.881														
15,320.0	12,750.0	18,104.0	12,563.7	29.4	46.4	-78.18	-2,672.1	1,721.7	909.4	832.7	76.72	11.854														
15,400.0	12,750.0	18,060.8	12,563.8	29.9	46.1	-78.19	-2,715.3	1,722.6	910.7	833.8	76.87	11.847														
15,500.0	12,750.0	18,020.5	12,563.5	30.6	45.7	-78.21	-2,755.5	1,725.7	917.7	840.6	77.12	11.900														
15,600.0	12,750.0	17,802.3	12,562.4	31.3	44.0	-78.25	-2,973.1	1,736.7	921.7	846.5	75.30	12.241														
15,663.2	12,750.0	17,758.9	12,563.0	31.7	43.6	-78.29	-3,016.5	1,736.7	921.0	845.6	75.43	12.210														
15,700.0	12,750.0	17,729.4	12,563.7	32.0	43.4	-78.33	-3,046.0	1,737.2	921.1	845.7	75.45	12.209														
15,800.0	12,750.0	17,589.6	12,567.0	32.7	42.4	-78.53	-3,185.7	1,738.5	920.9	846.3	74.66	12.335														
15,900.0	12,750.0	17,379.0	12,571.8	33.4	40.8	-78.52	-3,394.9	1,716.4	907.1	834.7	72.37	12.534														
16,000.0	12,750.0	17,311.3	12,573.7	34.1	40.3	-78.53	-3,462.0	1,707.7	892.9	820.0	72.89	12.249														
16,100.0	12,750.0	17,260.5	12,575.4	34.9	39.9	-78.57	-3,512.6	1,703.3	883.0	809.4	73.68	11.986														
16,200.0	12,750.0	17,198.0	12,576.9	35.6	39.3	-78.65	-3,575.0	1,702.8	880.0	805.8	74.13	11.871														
16,222.7	12,750.0	17,198.0	12,576.9	35.8	39.3	-78.65	-3,575.0	1,702.8	879.7	805.2	74.47	11.813														
16,300.0	12,750.0	17,163.8	12,577.4	36.3	39.1	-78.70	-3,609.2	1,704.6	882.0	807.0	75.02	11.757														
16,400.0	12,750.0	17,098.9	12,578.1	37.1	38.6	-78.81	-3,673.9	1,710.0	889.0	813.6	75.40	11.790														
16,500.0	12,750.0	16,856.8	12,575.5	37.8	36.6	-78.69	-3,915.2	1,716.3	892.1	818.9	73.22	12.184														
16,600.0	12,750.0	16,797.1	12,576.7	38.6	36.1	-78.73	-3,974.9	1,713.6	886.8	812.8	73.94	11.993														
16,643.0	12,750.0	16,776.8	12,577.0	38.9	36.0	-78.74	-3,995.2	1,713.6	886.2	811.9	74.30	11.927														
16,700.0	12,750.0	16,736.1	12,577.2	39.3	35.6	-78.77	-4,035.8	1,714.9	887.2	812.6	74.56	11.899														

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 806H - Slot BOATER FED COM 806H
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 806H	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: AKUBRA PROJECT - AKUBRA FED COM 701H - OWB - AWP														Offset Site Error:	0.0 usft		
Survey Program: 6-r.5 SDI_KPR_WL_NS-CT, 1054-r.5 MWD+IFR1+SAG+FDIR, 12094-r.5 MWD+IFR1+SAG+FDIR, 14476-r.5 MWD+IFR														Offset Well Error:	0.0 usft		
Reference														Rule Assigned:			
Measured Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning				
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor					
16,800.0	12,750.0	16,613.4	12,577.7	40.1	34.8	-78.82	-4,158.5	1,717.6	888.4	813.9	74.42	11.937					
16,900.0	12,750.0	16,513.8	12,576.8	40.8	34.1	-78.75	-4,258.1	1,717.5	887.5	812.8	74.65	11.888					
16,962.2	12,750.0	16,458.3	12,575.9	41.3	33.8	-78.69	-4,313.6	1,717.6	887.3	812.4	74.90	11.845					
17,000.0	12,750.0	16,428.6	12,575.4	41.6	33.6	-78.66	-4,343.3	1,718.0	887.5	812.3	75.11	11.815					
17,100.0	12,750.0	16,349.9	12,574.3	42.4	33.0	-78.61	-4,421.9	1,720.3	889.7	814.0	75.67	11.757					
17,200.0	12,750.0	16,269.4	12,573.7	43.1	32.5	-78.61	-4,502.3	1,724.7	894.2	818.0	76.21	11.734					
17,300.0	12,750.0	16,179.7	12,572.7	43.9	32.0	-78.62	-4,591.8	1,731.1	900.5	823.9	76.67	11.746					
17,400.0	12,750.0	16,074.7	12,570.9	44.7	31.3	-78.59	-4,696.5	1,738.7	906.9	829.9	77.01	11.776					
17,500.0	12,750.0	15,971.8	12,569.5	45.5	30.7	-78.58	-4,799.2	1,745.6	912.8	835.4	77.41	11.791					
17,600.0	12,750.0	15,813.0	12,570.7	46.3	29.7	-78.72	-4,957.7	1,752.6	916.5	839.3	77.18	11.874					
17,700.0	12,750.0	15,670.3	12,575.0	47.1	28.8	-78.94	-5,100.3	1,750.7	913.7	836.6	77.09	11.853					
17,800.0	12,750.0	15,592.6	12,576.1	47.8	28.4	-78.97	-5,178.0	1,748.1	909.2	831.3	77.94	11.666					
17,873.9	12,750.0	15,544.7	12,577.0	48.4	28.1	-79.02	-5,225.8	1,747.9	908.1	829.4	78.68	11.542					
17,900.0	12,750.0	15,529.5	12,577.3	48.6	28.0	-79.04	-5,241.1	1,748.2	908.2	829.3	78.95	11.504					
18,000.0	12,750.0	15,462.9	12,578.2	49.4	27.6	-79.13	-5,307.6	1,751.6	911.7	831.8	79.85	11.417					
18,100.0	12,750.0	15,266.1	12,580.1	50.2	26.5	-79.23	-5,504.3	1,752.2	910.5	831.3	79.27	11.487					
18,200.0	12,750.0	15,136.0	12,581.7	51.0	26.0	-79.21	-5,634.0	1,743.1	902.2	822.8	79.45	11.356					
18,300.0	12,750.0	15,040.2	12,583.8	51.8	25.9	-79.24	-5,729.5	1,735.7	893.2	813.0	80.22	11.135					
18,400.0	12,750.0	14,931.0	12,586.5	52.6	25.7	-79.29	-5,838.3	1,726.9	883.9	803.1	80.79	10.941					
18,500.0	12,750.0	14,860.0	12,587.9	53.4	25.7	-79.31	-5,909.1	1,721.7	875.5	793.5	82.00	10.676					
18,600.0	12,750.0	14,764.9	12,588.9	54.2	25.6	-79.31	-6,004.1	1,717.3	869.8	786.9	82.86	10.497					
18,700.0	12,750.0	14,711.1	12,589.0	55.1	25.5	-79.28	-6,057.9	1,715.5	866.0	781.8	84.21	10.283					
18,710.2	12,750.0	14,706.5	12,588.9	55.1	25.5	-79.28	-6,062.4	1,715.6	866.0	781.6	84.35	10.266					
18,800.0	12,750.0	14,658.0	12,588.6	55.9	25.5	-79.28	-6,110.9	1,717.7	868.6	783.2	85.40	10.171					
18,888.4	12,750.0	14,528.2	12,588.6	56.6	25.3	-79.29	-6,240.7	1,719.5	868.2	782.6	85.61	10.142					
18,900.0	12,750.0	14,522.1	12,588.6	56.7	25.3	-79.29	-6,246.7	1,719.6	868.2	782.5	85.76	10.124					
19,000.0	12,750.0	14,457.4	12,589.0	57.5	23.0	-79.34	-6,311.4	1,722.7	871.5	784.6	86.89	10.030					
19,100.0	12,750.0	14,315.5	12,590.9	58.3	21.4	-79.51	-6,453.1	1,727.3	873.4	786.1	87.24	10.011					
19,200.0	12,750.0	14,206.4	12,592.9	59.1	20.7	-79.62	-6,562.2	1,727.6	872.3	784.4	87.90	9.924					
19,290.5	12,750.0	14,124.5	12,595.6	59.8	20.2	-79.81	-6,644.1	1,728.8	872.2	783.5	88.71	9.831					
19,300.0	12,750.0	14,118.5	12,595.9	59.9	20.2	-79.82	-6,650.0	1,728.9	872.2	783.3	88.83	9.819					
19,400.0	12,750.0	14,050.4	12,596.5	60.7	19.8	-79.89	-6,718.1	1,731.9	875.0	785.0	89.94	9.729					
19,500.0	12,750.0	13,911.8	12,595.1	61.6	18.9	-79.83	-6,856.5	1,735.8	877.1	786.7	90.40	9.702					
19,600.0	12,750.0	13,794.6	12,596.4	62.4	18.3	-79.89	-6,973.8	1,734.8	875.0	784.0	91.06	9.610					
19,700.0	12,750.0	13,699.7	12,597.1	63.2	17.8	-79.91	-7,068.7	1,733.8	872.9	780.9	92.01	9.488					
19,800.0	12,750.0	13,604.7	12,597.1	64.0	17.3	-79.90	-7,163.7	1,733.2	871.3	778.3	92.97	9.371					
19,900.0	12,750.0	13,491.4	12,597.1	64.8	16.8	-79.87	-7,277.0	1,732.4	869.7	775.9	93.74	9.278					
20,000.0	12,750.0	13,386.6	12,598.7	65.7	16.4	-79.92	-7,381.7	1,728.6	864.9	770.2	94.63	9.140					
20,100.0	12,750.0	13,300.3	12,597.9	66.5	16.1	-79.84	-7,467.9	1,726.8	862.0	766.2	95.77	9.001					
20,125.0	12,750.0	13,291.0	12,597.8	66.7	16.0	-79.83	-7,477.3	1,726.8	861.8	765.6	96.19	8.959 CC, ES					
20,200.0	12,750.0	13,248.4	12,597.2	67.3	15.9	-79.81	-7,519.8	1,728.6	863.8	766.6	97.19	8.888					
20,300.0	12,750.0	13,142.5	12,595.9	68.1	15.6	-79.76	-7,625.6	1,732.8	867.0	768.8	98.15	8.833					
20,400.0	12,750.0	13,043.8	12,593.3	69.0	15.4	-79.63	-7,724.2	1,737.0	870.7	771.6	99.17	8.780					
20,500.0	12,750.0	12,935.6	12,590.1	69.8	15.2	-79.43	-7,832.3	1,738.9	871.9	771.8	100.14	8.707					
20,600.0	12,750.0	12,876.0	12,581.5	70.6	15.1	-78.89	-7,891.2	1,740.8	876.6	775.3	101.37	8.648 SF					
20,700.0	12,750.0	12,842.0	12,573.1	71.4	15.1	-78.38	-7,924.1	1,743.2	887.6	785.2	102.32	8.674					
20,800.0	12,750.0	12,774.1	12,548.8	72.3	15.0	-76.93	-7,987.1	1,749.9	904.5	801.5	103.06	8.777					
20,900.0	12,750.0	12,701.9	12,519.1	73.1	15.0	-75.17	-8,052.5	1,756.4	924.1	820.4	103.66	8.914					
21,000.0	12,750.0	12,608.8	12,476.9	73.9	14.9	-72.74	-8,135.2	1,764.2	945.8	841.5	104.30	9.068					
21,100.0	12,750.0	12,546.0	12,444.6	74.8	14.9	-70.92	-8,188.9	1,768.1	970.2	865.8	104.49	9.285					

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 806H - Slot BOATER FED COM 806H
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 806H	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)					
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.6	-90.0	90.0						
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.6	-90.0	90.0	88.0	1.99	45.198			
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.6	-90.0	90.0	86.7	3.31	27.178			
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.6	-90.0	90.0	85.8	4.20	21.452			
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.6	-90.0	90.0	85.1	4.91	18.323			
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.6	-90.0	90.0	84.5	5.53	16.266			
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.6	-90.0	90.0	83.9	6.09	14.778			
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.6	-90.0	90.0	83.4	6.60	13.634			
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.6	-90.0	90.0	82.9	7.08	12.718			
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.6	-90.0	90.0	82.5	7.52	11.962			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.6	-90.0	90.0	82.1	7.95	11.324			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.6	-90.0	90.0	81.6	8.35	10.776			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.6	-90.0	90.0	81.3	8.74	10.298			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.6	-90.0	90.0	80.9	9.11	9.876			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.6	-90.0	90.0	80.5	9.47	9.500			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.6	-90.0	90.0	80.2	9.82	9.162			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.6	-90.0	90.0	79.8	10.16	8.856			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.6	-90.0	90.0	79.5	10.49	8.577			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.6	-90.0	90.0	79.2	10.82	8.321			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.6	-90.0	90.0	78.9	11.13	8.086			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.6	-90.0	90.0	78.6	11.44	7.867 CC, ES			
2,100.0	2,100.0	2,096.9	2,096.8	5.8	5.8	-178.21	-0.5	-91.6	93.4	81.5	11.88	7.863 SF			
2,200.0	2,199.8	2,193.0	2,192.9	6.0	6.0	-178.07	-0.1	-96.5	103.7	91.4	12.30	8.433			
2,300.0	2,299.5	2,287.9	2,287.4	6.2	6.2	-177.88	0.5	-104.4	120.7	108.0	12.71	9.497			
2,400.0	2,398.7	2,380.7	2,379.6	6.4	6.5	-177.70	1.3	-115.2	144.3	131.2	13.12	11.001			
2,478.2	2,476.0	2,451.7	2,449.8	6.5	6.6	-177.56	2.1	-125.4	167.3	153.9	13.36	12.521			
2,500.0	2,497.5	2,471.1	2,469.0	6.5	6.7	-177.53	2.3	-128.5	174.3	160.9	13.41	13.000			
2,600.0	2,596.1	2,565.0	2,561.5	6.7	6.9	-177.40	3.5	-144.2	207.1	193.3	13.76	15.055			
2,700.0	2,694.7	2,659.4	2,654.7	6.8	7.1	-177.30	4.7	-159.9	239.9	225.8	14.13	16.980			
2,800.0	2,793.3	2,753.9	2,747.8	7.0	7.4	-177.23	5.9	-175.7	272.7	258.2	14.52	18.787			
2,900.0	2,891.9	2,848.4	2,840.9	7.1	7.7	-177.17	7.1	-191.4	305.5	290.6	14.92	20.474			
3,000.0	2,990.5	2,942.8	2,934.1	7.3	7.9	-177.12	8.3	-207.2	338.4	323.0	15.35	22.044			
3,100.0	3,089.1	3,037.3	3,027.2	7.4	8.2	-177.08	9.5	-222.9	371.2	355.4	15.79	23.505			
3,200.0	3,187.7	3,131.7	3,120.3	7.6	8.5	-177.05	10.8	-238.7	404.0	387.7	16.25	24.861			
3,300.0	3,286.4	3,226.2	3,213.5	7.7	8.8	-177.02	12.0	-254.4	436.8	420.1	16.72	26.122			
3,400.0	3,385.0	3,320.7	3,306.6	7.9	9.2	-177.00	13.2	-270.2	469.6	452.4	17.21	27.292			
3,500.0	3,483.6	3,415.1	3,399.7	8.0	9.5	-176.98	14.4	-285.9	502.5	484.8	17.71	28.379			
3,600.0	3,582.2	3,509.6	3,492.8	8.2	9.8	-176.96	15.6	-301.7	535.3	517.1	18.21	29.395			
3,700.0	3,680.8	3,609.0	3,590.9	8.3	10.2	-176.95	16.8	-318.0	567.9	549.2	18.72	30.337			
3,800.0	3,779.4	3,714.8	3,695.5	8.5	10.5	-176.94	18.0	-333.8	599.0	579.7	19.31	31.020			
3,900.0	3,878.0	3,821.8	3,801.6	8.7	10.9	-176.95	19.1	-347.8	628.4	608.5	19.90	31.575			
4,000.0	3,976.6	3,930.0	3,909.1	8.8	11.3	-176.97	20.0	-359.9	656.0	635.5	20.49	32.019			
4,100.0	4,075.2	4,039.4	4,018.0	9.0	11.7	-177.00	20.8	-370.2	681.7	660.6	21.06	32.367			
4,200.0	4,173.9	4,149.9	4,128.1	9.2	12.1	-177.03	21.4	-378.4	705.6	684.0	21.62	32.633			
4,300.0	4,272.5	4,261.3	4,239.4	9.4	12.4	-177.08	21.9	-384.5	727.6	705.4	22.16	32.833			
4,400.0	4,371.1	4,373.7	4,351.8	9.5	12.7	-177.14	22.2	-388.5	747.7	725.0	22.66	32.988			
4,500.0	4,469.7	4,487.0	4,465.0	9.7	13.0	-177.20	22.4	-390.3	765.8	742.7	23.11	33.142			
4,600.0	4,568.3	4,590.3	4,568.3	9.9	13.1	-177.26	22.4	-390.4	782.5	759.2	23.35	33.517			
4,700.0	4,666.9	4,688.9	4,666.9	10.1	13.2	-177.32	22.4	-390.4	799.1	775.6	23.57	33.907			
4,800.0	4,765.5	4,787.5	4,765.5	10.2	13.2	-177.37	22.4	-390.4	815.7	791.9	23.79	34.286			
4,900.0	4,864.1	4,886.1	4,864.1	10.4	13.3	-177.42	22.4	-390.4	832.3	808.3	24.02	34.654			

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 806H - Slot BOATER FED COM 806H
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 806H	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)			
5,000.0	4,962.7	4,984.7	4,962.7	10.6	13.4	-177.47	22.4	-390.4	848.9	824.7	24.25	35.014	
5,100.0	5,061.3	5,083.3	5,061.3	10.8	13.4	-177.52	22.4	-390.4	865.5	841.0	24.47	35.363	
5,200.0	5,160.0	5,181.9	5,160.0	11.0	13.5	-177.57	22.4	-390.4	882.1	857.4	24.71	35.704	
5,300.0	5,258.6	5,280.5	5,258.6	11.1	13.6	-177.61	22.4	-390.4	898.7	873.8	24.94	36.036	
5,400.0	5,357.2	5,379.1	5,357.2	11.3	13.6	-177.66	22.4	-390.4	915.3	890.1	25.17	36.360	
5,500.0	5,455.8	5,477.7	5,455.8	11.5	13.7	-177.70	22.4	-390.4	931.9	906.5	25.41	36.675	
5,600.0	5,554.4	5,576.4	5,554.4	11.7	13.8	-177.74	22.4	-390.4	948.5	922.9	25.65	36.982	
5,700.0	5,653.0	5,675.0	5,653.0	11.9	13.9	-177.78	22.4	-390.4	965.1	939.2	25.89	37.282	
5,800.0	5,751.6	5,773.6	5,751.6	12.1	13.9	-177.82	22.4	-390.4	981.7	955.6	26.13	37.573	
5,900.0	5,850.2	5,872.2	5,850.2	12.3	14.0	-177.85	22.4	-390.4	998.3	972.0	26.37	37.858	

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 806H - Slot BOATER FED COM 806H
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 806H	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	-90.40	-0.2	-30.0	30.0						
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.2	-30.0	30.0	28.0	1.99	15.066			
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.2	-30.0	30.0	26.7	3.31	9.059			
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.2	-30.0	30.0	25.8	4.20	7.151			
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.2	-30.0	30.0	25.1	4.91	6.108			
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.2	-30.0	30.0	24.5	5.53	5.422			
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.2	-30.0	30.0	23.9	6.09	4.926			
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.2	-30.0	30.0	23.4	6.60	4.545			
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.2	-30.0	30.0	22.9	7.08	4.239			
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.2	-30.0	30.0	22.5	7.52	3.987			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.2	-30.0	30.0	22.1	7.95	3.775			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.2	-30.0	30.0	21.6	8.35	3.592			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.2	-30.0	30.0	21.3	8.74	3.433			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.2	-30.0	30.0	20.9	9.11	3.292			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.2	-30.0	30.0	20.5	9.47	3.167			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.2	-30.0	30.0	20.2	9.82	3.054			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.2	-30.0	30.0	19.8	10.16	2.952	Normal Operations		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.2	-30.0	30.0	19.5	10.49	2.859	Normal Operations		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.2	-30.0	30.0	19.2	10.82	2.774	Normal Operations		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.2	-30.0	30.0	18.9	11.13	2.695	Normal Operations		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.2	-30.0	30.0	18.6	11.44	2.623	Normal Operations, CC, ES, SF		
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	-178.36	-0.2	-30.0	31.7	19.9	11.82	2.686	Normal Operations		
2,200.0	2,199.8	2,199.8	2,199.8	6.0	5.9	-178.59	-0.2	-30.0	37.0	24.8	12.18	3.037			
2,300.0	2,299.5	2,299.5	2,299.5	6.2	6.0	-178.85	-0.2	-30.0	45.7	33.2	12.53	3.646			
2,400.0	2,398.7	2,398.7	2,398.7	6.4	6.2	-179.09	-0.2	-30.0	57.9	45.0	12.88	4.493			
2,478.2	2,476.0	2,476.0	2,476.0	6.5	6.3	-179.24	-0.2	-30.0	69.8	56.7	13.10	5.331			
2,500.0	2,497.5	2,497.5	2,497.5	6.5	6.3	-179.28	-0.2	-30.0	73.4	60.3	13.14	5.590			
2,600.0	2,596.1	2,599.2	2,599.1	6.7	6.5	-179.34	0.0	-28.3	88.4	74.9	13.48	6.555			
2,700.0	2,694.7	2,701.9	2,701.7	6.8	6.7	-179.23	0.5	-22.9	99.8	86.0	13.81	7.227			
2,800.0	2,793.3	2,805.3	2,804.7	7.0	6.9	-178.99	1.4	-13.8	107.7	93.5	14.15	7.608			
2,900.0	2,891.9	2,909.2	2,907.8	7.1	7.2	-178.63	2.6	-1.0	111.9	97.4	14.50	7.721			
3,000.0	2,990.5	3,010.6	3,008.0	7.3	7.3	-178.18	4.1	14.5	113.3	98.5	14.78	7.670			
3,100.0	3,089.1	3,110.6	3,106.8	7.4	7.6	-177.73	5.7	29.9	114.5	99.3	15.14	7.561			
3,200.0	3,187.7	3,210.6	3,205.6	7.6	7.8	-177.29	7.2	45.4	115.7	100.1	15.53	7.447			
3,300.0	3,286.4	3,310.6	3,304.4	7.7	8.0	-176.85	8.7	60.8	116.8	100.9	15.94	7.330			
3,400.0	3,385.0	3,410.6	3,403.2	7.9	8.3	-176.43	10.2	76.3	118.0	101.7	16.37	7.212			
3,500.0	3,483.6	3,510.6	3,501.9	8.0	8.6	-176.02	11.7	91.7	119.2	102.4	16.81	7.093			
3,600.0	3,582.2	3,610.6	3,600.7	8.2	8.9	-175.61	13.2	107.1	120.4	103.2	17.27	6.974			
3,700.0	3,680.8	3,710.6	3,699.5	8.3	9.2	-175.21	14.7	122.6	121.6	103.9	17.74	6.856			
3,800.0	3,779.4	3,810.5	3,798.3	8.5	9.5	-174.82	16.2	138.0	122.9	104.6	18.23	6.740			
3,900.0	3,878.0	3,910.5	3,897.0	8.7	9.8	-174.44	17.8	153.5	124.1	105.3	18.72	6.626			
4,000.0	3,976.6	4,010.5	3,995.8	8.8	10.2	-174.06	19.3	168.9	125.3	106.1	19.23	6.515			
4,100.0	4,075.2	4,110.5	4,094.6	9.0	10.5	-173.69	20.8	184.4	126.5	106.8	19.74	6.409			
4,200.0	4,173.9	4,208.7	4,191.7	9.2	10.8	-173.38	22.2	199.0	128.3	108.1	20.24	6.340			
4,300.0	4,272.5	4,306.4	4,288.6	9.4	11.2	-173.21	23.5	211.9	131.8	111.1	20.77	6.348			
4,400.0	4,371.1	4,404.1	4,385.5	9.5	11.5	-173.18	24.6	223.1	137.0	115.7	21.28	6.436			
4,500.0	4,469.7	4,501.5	4,482.5	9.7	11.9	-173.26	25.5	232.7	143.8	122.0	21.79	6.599			
4,600.0	4,568.3	4,598.6	4,579.3	9.9	12.2	-173.45	26.3	240.6	152.3	130.0	22.29	6.833			
4,700.0	4,666.9	4,695.5	4,676.0	10.1	12.5	-173.71	26.9	246.9	162.5	139.7	22.78	7.134			
4,800.0	4,765.5	4,792.0	4,772.3	10.2	12.8	-174.04	27.4	251.5	174.3	151.1	23.24	7.501			
4,900.0	4,864.1	4,888.1	4,868.4	10.4	13.0	-174.40	27.6	254.5	187.8	164.1	23.67	7.933			

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 806H - Slot BOATER FED COM 806H
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 806H	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											Rule Assigned:		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)				
5,000.0	4,962.7	4,983.7	4,964.0	10.6	13.3	-174.78	27.8	255.9	202.9	178.8	24.05	8.435		
5,100.0	5,061.3	5,081.1	5,061.3	10.8	13.4	-175.16	27.8	256.0	219.3	195.0	24.31	9.023		
5,200.0	5,160.0	5,179.7	5,160.0	11.0	13.4	-175.50	27.8	256.0	235.9	211.3	24.55	9.609		
5,300.0	5,258.6	5,278.3	5,258.6	11.1	13.5	-175.80	27.8	256.0	252.5	227.7	24.79	10.184		
5,400.0	5,357.2	5,376.9	5,357.2	11.3	13.6	-176.06	27.8	256.0	269.0	244.0	25.03	10.748		
5,500.0	5,455.8	5,475.5	5,455.8	11.5	13.6	-176.29	27.8	256.0	285.6	260.3	25.27	11.301		
5,600.0	5,554.4	5,574.1	5,554.4	11.7	13.7	-176.49	27.8	256.0	302.2	276.7	25.52	11.843		
5,700.0	5,653.0	5,672.7	5,653.0	11.9	13.8	-176.67	27.8	256.0	318.8	293.0	25.76	12.374		
5,800.0	5,751.6	5,771.3	5,751.6	12.1	13.8	-176.84	27.8	256.0	335.4	309.4	26.01	12.895		
5,900.0	5,850.2	5,869.9	5,850.2	12.3	13.9	-176.99	27.8	256.0	352.0	325.7	26.25	13.406		
6,000.0	5,948.8	5,968.6	5,948.8	12.4	14.0	-177.12	27.8	256.0	368.6	342.1	26.50	13.907		
6,100.0	6,047.4	6,067.2	6,047.4	12.6	14.0	-177.25	27.8	256.0	385.1	358.4	26.75	14.398		
6,200.0	6,146.1	6,165.8	6,146.1	12.8	14.1	-177.36	27.8	256.0	401.7	374.7	27.00	14.879		
6,300.0	6,244.7	6,264.4	6,244.7	13.0	14.2	-177.47	27.8	256.0	418.3	391.1	27.25	15.351		
6,400.0	6,343.3	6,363.0	6,343.3	13.2	14.3	-177.56	27.8	256.0	434.9	407.4	27.50	15.814		
6,500.0	6,441.9	6,461.6	6,441.9	13.4	14.3	-177.65	27.8	256.0	451.5	423.8	27.76	16.268		
6,600.0	6,540.5	6,560.2	6,540.5	13.6	14.4	-177.74	27.8	256.0	468.1	440.1	28.02	16.710		
6,607.7	6,548.0	6,567.8	6,548.0	13.6	14.4	-177.74	27.8	256.0	469.4	441.4	28.04	16.743		
6,700.0	6,639.2	6,658.9	6,639.2	13.8	14.5	-177.82	27.8	256.0	484.0	455.8	28.27	17.124		
6,800.0	6,738.2	6,757.9	6,738.2	14.0	14.5	-177.88	27.8	256.0	498.2	469.7	28.52	17.470		
6,900.0	6,837.4	6,857.2	6,837.4	14.1	14.6	-177.94	27.8	256.0	510.6	481.8	28.76	17.751		
7,000.0	6,936.9	6,956.6	6,936.9	14.3	14.7	-177.99	27.8	256.0	521.3	492.3	29.01	17.971		
7,100.0	7,036.5	7,056.2	7,036.5	14.5	14.7	-178.02	27.8	256.0	530.2	501.0	29.25	18.130		
7,200.0	7,136.2	7,155.9	7,136.2	14.7	14.8	-178.05	27.8	256.0	537.4	508.0	29.48	18.231		
7,300.0	7,236.0	7,255.8	7,236.0	14.8	14.9	-178.07	27.8	256.0	542.9	513.2	29.71	18.276		
7,400.0	7,336.0	7,355.7	7,336.0	15.0	15.0	-178.09	27.8	256.0	546.7	516.7	29.93	18.267		
7,500.0	7,436.0	7,455.7	7,436.0	15.1	15.0	-178.09	27.8	256.0	548.6	518.5	30.13	18.208		
7,564.0	7,500.0	7,519.7	7,500.0	15.1	15.1	-90.23	27.8	256.0	549.0	518.8	30.22	18.166		
7,600.0	7,536.0	7,555.7	7,536.0	15.2	15.1	-90.23	27.8	256.0	549.0	518.7	30.26	18.145		
7,700.0	7,636.0	7,655.7	7,636.0	15.2	15.2	-90.23	27.8	256.0	549.0	518.6	30.38	18.069		
7,800.0	7,736.0	7,755.7	7,736.0	15.3	15.2	-90.23	27.8	256.0	549.0	518.5	30.51	17.993		
7,900.0	7,836.0	7,855.7	7,836.0	15.3	15.3	-90.23	27.8	256.0	549.0	518.4	30.64	17.917		
8,000.0	7,936.0	7,955.7	7,936.0	15.4	15.4	-90.23	27.8	256.0	549.0	518.2	30.77	17.841		
8,100.0	8,036.0	8,055.7	8,036.0	15.4	15.5	-90.23	27.8	256.0	549.0	518.1	30.90	17.767		
8,200.0	8,136.0	8,155.7	8,136.0	15.5	15.5	-90.23	27.8	256.0	549.0	518.0	31.03	17.692		
8,300.0	8,236.0	8,255.7	8,236.0	15.6	15.6	-90.23	27.8	256.0	549.0	517.8	31.16	17.618		
8,400.0	8,336.0	8,355.7	8,336.0	15.6	15.7	-90.23	27.8	256.0	549.0	517.7	31.29	17.545		
8,500.0	8,436.0	8,455.7	8,436.0	15.7	15.7	-90.23	27.8	256.0	549.0	517.6	31.42	17.472		
8,600.0	8,536.0	8,555.7	8,536.0	15.7	15.8	-90.23	27.8	256.0	549.0	517.5	31.55	17.399		
8,700.0	8,636.0	8,655.7	8,636.0	15.8	15.9	-90.23	27.8	256.0	549.0	517.3	31.68	17.327		
8,800.0	8,736.0	8,755.7	8,736.0	15.9	16.0	-90.23	27.8	256.0	549.0	517.2	31.82	17.255		
8,900.0	8,836.0	8,855.7	8,836.0	15.9	16.0	-90.23	27.8	256.0	549.0	517.1	31.95	17.184		
9,000.0	8,936.0	8,955.7	8,936.0	16.0	16.1	-90.23	27.8	256.0	549.0	516.9	32.08	17.113		
9,100.0	9,036.0	9,055.7	9,036.0	16.1	16.2	-90.23	27.8	256.0	549.0	516.8	32.21	17.043		
9,200.0	9,136.0	9,155.7	9,136.0	16.1	16.3	-90.23	27.8	256.0	549.0	516.7	32.35	16.973		
9,300.0	9,236.0	9,255.7	9,236.0	16.2	16.3	-90.23	27.8	256.0	549.0	516.5	32.48	16.904		
9,400.0	9,336.0	9,355.7	9,336.0	16.2	16.4	-90.23	27.8	256.0	549.0	516.4	32.61	16.835		
9,500.0	9,436.0	9,455.7	9,436.0	16.3	16.5	-90.23	27.8	256.0	549.0	516.3	32.75	16.766		
9,600.0	9,536.0	9,555.7	9,536.0	16.4	16.5	-90.23	27.8	256.0	549.0	516.1	32.88	16.698		
9,700.0	9,636.0	9,655.7	9,636.0	16.4	16.6	-90.23	27.8	256.0	549.0	516.0	33.01	16.630		

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 806H - Slot BOATER FED COM 806H
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 806H	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)					
9,800.0	9,736.0	9,755.7	9,736.0	16.5	16.7	-90.23	27.8	256.0	549.0	515.9	33.15	16.563			
9,900.0	9,836.0	9,855.7	9,836.0	16.5	16.8	-90.23	27.8	256.0	549.0	515.7	33.28	16.496			
10,000.0	9,936.0	9,955.7	9,936.0	16.6	16.8	-90.23	27.8	256.0	549.0	515.6	33.42	16.429			
10,100.0	10,036.0	10,055.7	10,036.0	16.7	16.9	-90.23	27.8	256.0	549.0	515.5	33.55	16.363			
10,200.0	10,136.0	10,155.7	10,136.0	16.7	17.0	-90.23	27.8	256.0	549.0	515.3	33.69	16.298			
10,300.0	10,236.0	10,255.7	10,236.0	16.8	17.1	-90.23	27.8	256.0	549.0	515.2	33.82	16.232			
10,400.0	10,336.0	10,355.7	10,336.0	16.9	17.1	-90.23	27.8	256.0	549.0	515.0	33.96	16.168			
10,500.0	10,436.0	10,455.7	10,436.0	16.9	17.2	-90.23	27.8	256.0	549.0	514.9	34.09	16.103			
10,600.0	10,536.0	10,555.7	10,536.0	17.0	17.3	-90.23	27.8	256.0	549.0	514.8	34.23	16.039			
10,700.0	10,636.0	10,655.7	10,636.0	17.1	17.4	-90.23	27.8	256.0	549.0	514.6	34.37	15.976			
10,800.0	10,736.0	10,755.7	10,736.0	17.1	17.4	-90.23	27.8	256.0	549.0	514.5	34.50	15.912			
10,900.0	10,836.0	10,855.7	10,836.0	17.2	17.5	-90.23	27.8	256.0	549.0	514.4	34.64	15.850			
11,000.0	10,936.0	10,955.7	10,936.0	17.2	17.6	-90.23	27.8	256.0	549.0	514.2	34.78	15.787			
11,100.0	11,036.0	11,055.7	11,036.0	17.3	17.7	-90.23	27.8	256.0	549.0	514.1	34.91	15.725			
11,200.0	11,136.0	11,155.7	11,136.0	17.4	17.7	-90.23	27.8	256.0	549.0	514.0	35.05	15.664			
11,300.0	11,236.0	11,255.7	11,236.0	17.4	17.8	-90.23	27.8	256.0	549.0	513.8	35.19	15.602			
11,400.0	11,336.0	11,355.7	11,336.0	17.5	17.9	-90.23	27.8	256.0	549.0	513.7	35.33	15.541			
11,500.0	11,436.0	11,455.7	11,436.0	17.6	18.0	-90.23	27.8	256.0	549.0	513.5	35.46	15.481			
11,600.0	11,536.0	11,555.7	11,536.0	17.6	18.0	-90.23	27.8	256.0	549.0	513.4	35.60	15.421			
11,700.0	11,636.0	11,655.7	11,636.0	17.7	18.1	-90.23	27.8	256.0	549.0	513.3	35.74	15.361			
11,800.0	11,736.0	11,755.7	11,736.0	17.8	18.2	-90.23	27.8	256.0	549.0	513.1	35.88	15.302			
11,900.0	11,836.0	11,855.7	11,836.0	17.8	18.3	-90.23	27.8	256.0	549.0	513.0	36.02	15.243			
12,000.0	11,936.0	11,955.7	11,936.0	17.9	18.3	-90.23	27.8	256.0	549.0	512.8	36.16	15.185			
12,100.0	12,036.0	12,055.7	12,036.0	18.0	18.4	-90.23	27.8	256.0	549.0	512.7	36.29	15.127			
12,191.2	12,127.2	12,147.0	12,127.2	18.0	18.4	-90.56	24.7	256.0	549.0	512.6	36.37	15.095			
12,200.0	12,136.0	12,155.7	12,135.8	18.0	18.4	-90.67	23.6	256.0	549.0	512.6	36.37	15.093			
12,300.0	12,236.0	12,250.7	12,228.1	18.1	18.4	-92.95	1.7	256.3	549.5	513.1	36.42	15.087			
12,336.5	12,272.5	12,282.7	12,258.0	18.1	18.3	-94.14	-9.7	256.4	550.3	513.8	36.43	15.103			
12,350.0	12,285.9	12,294.2	12,268.5	18.1	18.3	85.92	-14.3	256.4	550.6	514.2	36.44	15.113			
12,375.0	12,310.9	12,315.2	12,287.5	18.1	18.3	84.99	-23.3	256.5	551.5	515.0	36.43	15.136			
12,400.0	12,335.8	12,336.0	12,305.8	18.1	18.3	84.07	-33.1	256.6	552.4	516.0	36.44	15.161			
12,425.0	12,360.4	12,356.4	12,323.4	18.1	18.3	83.18	-43.5	256.7	553.5	517.1	36.44	15.188			
12,450.0	12,384.9	12,375.0	12,339.0	18.1	18.3	82.35	-53.5	256.8	554.7	518.2	36.47	15.210			
12,475.0	12,409.0	12,396.6	12,356.7	18.1	18.3	81.43	-66.0	256.9	556.0	519.5	36.48	15.240			
12,500.0	12,432.8	12,416.3	12,372.3	18.1	18.3	80.60	-78.0	257.0	557.4	520.9	36.52	15.263			
12,525.0	12,456.1	12,435.9	12,387.2	18.1	18.3	79.78	-90.6	257.2	558.8	522.3	36.56	15.284			
12,550.0	12,478.9	12,455.2	12,401.5	18.0	18.3	78.99	-103.7	257.3	560.4	523.7	36.62	15.301			
12,575.0	12,501.2	12,475.0	12,415.6	18.0	18.3	78.20	-117.6	257.4	561.9	525.2	36.69	15.317			
12,600.0	12,522.8	12,493.4	12,428.1	18.0	18.3	77.48	-131.0	257.5	563.5	526.7	36.78	15.323			
12,625.0	12,543.7	12,512.2	12,440.4	18.0	18.3	76.78	-145.3	257.7	565.1	528.3	36.87	15.327			
12,650.0	12,563.9	12,530.9	12,452.0	18.0	18.3	76.10	-160.0	257.8	566.8	529.8	36.98	15.327			
12,675.0	12,583.3	12,550.0	12,463.3	18.0	18.3	75.44	-175.3	258.0	568.4	531.3	37.09	15.325			
12,700.0	12,601.9	12,568.0	12,473.4	18.0	18.3	74.83	-190.3	258.1	569.9	532.7	37.22	15.313			
12,725.0	12,619.5	12,586.4	12,483.0	18.0	18.3	74.25	-205.9	258.3	571.5	534.1	37.35	15.301			
12,750.0	12,636.2	12,604.6	12,492.1	18.0	18.3	73.70	-221.7	258.4	573.0	535.5	37.49	15.285			
12,775.0	12,651.9	12,625.0	12,501.4	18.0	18.3	73.15	-239.9	258.6	574.4	536.8	37.60	15.277			
12,800.0	12,666.5	12,640.9	12,508.1	18.1	18.4	72.71	-254.2	258.7	575.8	538.0	37.77	15.245			
12,825.0	12,680.1	12,658.9	12,515.2	18.1	18.4	72.28	-270.8	258.9	577.1	539.2	37.91	15.222			
12,850.0	12,692.6	12,675.0	12,521.0	18.1	18.4	71.90	-285.8	259.1	578.3	540.2	38.07	15.190			
12,875.0	12,703.9	12,694.7	12,527.3	18.1	18.4	71.51	-304.5	259.2	579.4	541.2	38.19	15.172			
12,900.0	12,714.0	12,712.5	12,532.5	18.1	18.4	71.18	-321.5	259.4	580.5	542.1	38.32	15.147			

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 806H - Slot BOATER FED COM 806H
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 806H	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)					
12,925.0	12,722.9	12,730.3	12,536.9	18.2	18.4	70.89	-338.7	259.6	581.4	542.9	38.45	15.121			
12,950.0	12,730.6	12,750.0	12,541.1	18.2	18.5	70.63	-358.0	259.8	582.2	543.6	38.55	15.102			
12,975.0	12,737.0	12,765.7	12,543.8	18.2	18.5	70.43	-373.5	259.9	582.8	544.2	38.67	15.073			
13,000.0	12,742.1	12,783.4	12,546.3	18.3	18.5	70.26	-391.0	260.1	583.4	544.6	38.76	15.050			
13,025.0	12,746.0	12,800.0	12,548.1	18.3	18.5	70.14	-407.5	260.2	583.8	545.0	38.85	15.028			
13,050.0	12,748.6	12,818.7	12,549.4	18.4	18.6	70.04	-426.1	260.4	584.1	545.2	38.92	15.010			
13,075.0	12,749.8	12,836.3	12,549.9	18.4	18.6	69.99	-443.7	260.6	584.3	545.3	38.97	14.993			
13,086.5	12,750.0	12,845.4	12,550.0	18.4	18.6	69.98	-452.8	260.7	584.3	545.3	38.99	14.986			
13,100.0	12,750.0	12,858.8	12,550.0	18.5	18.6	69.98	-466.2	260.8	584.3	545.3	39.01	14.978			
13,200.0	12,750.0	12,958.8	12,550.0	18.7	18.8	69.98	-566.2	261.8	584.3	545.1	39.22	14.900			
13,300.0	12,750.0	13,058.8	12,550.0	19.0	19.1	69.98	-666.2	262.8	584.3	544.8	39.50	14.793			
13,400.0	12,750.0	13,158.8	12,550.0	19.3	19.4	69.98	-766.2	263.7	584.3	544.5	39.86	14.660			
13,500.0	12,750.0	13,258.8	12,550.0	19.6	19.8	69.98	-866.2	264.7	584.3	544.0	40.29	14.503			
13,600.0	12,750.0	13,358.8	12,550.0	20.0	20.2	69.98	-966.2	265.7	584.3	543.5	40.79	14.324			
13,700.0	12,750.0	13,458.8	12,550.0	20.4	20.6	69.99	-1,066.2	266.7	584.3	543.0	41.36	14.127			
13,800.0	12,750.0	13,558.8	12,550.0	20.8	21.1	69.99	-1,166.2	267.6	584.3	542.3	42.00	13.913			
13,900.0	12,750.0	13,658.8	12,550.0	21.2	21.6	69.99	-1,266.2	268.6	584.4	541.7	42.70	13.685			
14,000.0	12,750.0	13,758.8	12,550.0	21.7	22.1	69.99	-1,366.2	269.6	584.4	540.9	43.46	13.446			
14,100.0	12,750.0	13,858.8	12,550.0	22.2	22.7	69.99	-1,466.2	270.6	584.4	540.1	44.28	13.198			
14,200.0	12,750.0	13,958.8	12,550.0	22.7	23.3	69.99	-1,566.2	271.5	584.4	539.2	45.14	12.944			
14,300.0	12,750.0	14,058.8	12,550.0	23.2	23.9	69.99	-1,666.2	272.5	584.4	538.3	46.06	12.686			
14,400.0	12,750.0	14,158.8	12,550.0	23.7	24.5	69.99	-1,766.2	273.5	584.4	537.3	47.03	12.426			
14,500.0	12,750.0	14,258.8	12,550.0	24.3	25.2	69.99	-1,866.2	274.5	584.4	536.3	48.04	12.164			
14,600.0	12,750.0	14,358.8	12,550.0	24.9	25.8	69.99	-1,966.2	275.4	584.4	535.3	49.09	11.903			
14,700.0	12,750.0	14,458.8	12,550.0	25.5	26.5	69.99	-2,066.2	276.4	584.4	534.2	50.19	11.645			
14,800.0	12,750.0	14,558.8	12,550.0	26.1	27.2	69.99	-2,166.2	277.4	584.4	533.1	51.31	11.389			
14,900.0	12,750.0	14,658.8	12,550.0	26.7	28.0	69.99	-2,266.2	278.4	584.4	531.9	52.48	11.136			
15,000.0	12,750.0	14,758.8	12,550.0	27.3	28.7	69.99	-2,366.2	279.3	584.4	530.7	53.67	10.889			
15,100.0	12,750.0	14,858.8	12,550.0	28.0	29.5	69.99	-2,466.1	280.3	584.4	529.5	54.90	10.646			
15,200.0	12,750.0	14,958.8	12,550.0	28.6	30.2	69.99	-2,566.1	281.3	584.4	528.3	56.15	10.409			
15,300.0	12,750.0	15,058.8	12,550.0	29.3	31.0	69.99	-2,666.1	282.2	584.4	527.0	57.43	10.177			
15,400.0	12,750.0	15,158.8	12,550.0	29.9	31.8	69.99	-2,766.1	283.2	584.4	525.7	58.73	9.951			
15,500.0	12,750.0	15,258.8	12,550.0	30.6	32.6	69.99	-2,866.1	284.2	584.4	524.4	60.05	9.732			
15,600.0	12,750.0	15,358.8	12,550.0	31.3	33.4	69.99	-2,966.1	285.2	584.4	523.0	61.40	9.519			
15,700.0	12,750.0	15,458.8	12,550.0	32.0	34.2	69.99	-3,066.1	286.1	584.4	521.7	62.77	9.311			
15,800.0	12,750.0	15,558.8	12,550.0	32.7	35.0	69.99	-3,166.1	287.1	584.4	520.3	64.15	9.110			
15,900.0	12,750.0	15,658.8	12,550.0	33.4	35.9	69.99	-3,266.1	288.1	584.4	518.9	65.55	8.916			
16,000.0	12,750.0	15,758.8	12,550.0	34.1	36.7	69.99	-3,366.1	289.1	584.4	517.5	66.97	8.727			
16,100.0	12,750.0	15,858.8	12,550.0	34.9	37.5	69.99	-3,466.1	290.0	584.5	516.0	68.40	8.544			
16,200.0	12,750.0	15,958.8	12,550.0	35.6	38.4	69.99	-3,566.1	291.0	584.5	514.6	69.85	8.367			
16,300.0	12,750.0	16,058.8	12,550.0	36.3	39.2	69.99	-3,666.1	292.0	584.5	513.1	71.31	8.196			
16,400.0	12,750.0	16,158.8	12,550.0	37.1	40.1	69.99	-3,766.1	293.0	584.5	511.7	72.79	8.030			
16,500.0	12,750.0	16,258.8	12,550.0	37.8	40.9	69.99	-3,866.1	293.9	584.5	510.2	74.27	7.869			
16,600.0	12,750.0	16,358.8	12,550.0	38.6	41.8	69.99	-3,966.1	294.9	584.5	508.7	75.77	7.714			
16,700.0	12,750.0	16,458.8	12,550.0	39.3	42.7	69.99	-4,066.1	295.9	584.5	507.2	77.28	7.563			
16,800.0	12,750.0	16,558.8	12,550.0	40.1	43.6	69.99	-4,166.1	296.9	584.5	505.7	78.80	7.418			
16,900.0	12,750.0	16,658.8	12,550.0	40.8	44.4	69.99	-4,266.1	297.8	584.5	504.2	80.32	7.277			
17,000.0	12,750.0	16,758.8	12,550.0	41.6	45.3	69.99	-4,366.1	298.8	584.5	502.6	81.86	7.140			
17,100.0	12,750.0	16,858.8	12,550.0	42.4	46.2	69.99	-4,466.1	299.8	584.5	501.1	83.40	7.008			
17,200.0	12,750.0	16,958.8	12,550.0	43.1	47.1	69.99	-4,566.0	300.8	584.5	499.6	84.95	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 806H - Slot BOATER FED COM 806H
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 806H	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)					
17,300.0	12,750.0	17,058.8	12,550.0	43.9	48.0	69.99	-4,666.0	301.7	584.5	498.0	86.51	6.756			
17,400.0	12,750.0	17,158.8	12,550.0	44.7	48.9	69.99	-4,766.0	302.7	584.5	496.4	88.08	6.636			
17,500.0	12,750.0	17,258.8	12,550.0	45.5	49.8	69.99	-4,866.0	303.7	584.5	494.9	89.65	6.520			
17,600.0	12,750.0	17,358.8	12,550.0	46.3	50.7	69.99	-4,966.0	304.7	584.5	493.3	91.23	6.407			
17,700.0	12,750.0	17,458.8	12,550.0	47.1	51.6	69.99	-5,066.0	305.6	584.5	491.7	92.82	6.298			
17,800.0	12,750.0	17,558.8	12,550.0	47.8	52.5	69.99	-5,166.0	306.6	584.5	490.1	94.41	6.192			
17,900.0	12,750.0	17,658.8	12,550.0	48.6	53.4	69.99	-5,266.0	307.6	584.5	488.5	96.01	6.089			
18,000.0	12,750.0	17,758.8	12,550.0	49.4	54.3	69.99	-5,366.0	308.6	584.5	486.9	97.61	5.989			
18,100.0	12,750.0	17,858.8	12,550.0	50.2	55.2	69.99	-5,466.0	309.5	584.5	485.3	99.21	5.892			
18,200.0	12,750.0	17,958.8	12,550.0	51.0	56.1	69.99	-5,566.0	310.5	584.6	483.7	100.82	5.798			
18,300.0	12,750.0	18,058.8	12,550.0	51.8	57.0	69.99	-5,666.0	311.5	584.6	482.1	102.44	5.706			
18,400.0	12,750.0	18,158.8	12,550.0	52.6	57.9	69.99	-5,766.0	312.4	584.6	480.5	104.06	5.618			
18,500.0	12,750.0	18,258.8	12,550.0	53.4	58.8	69.99	-5,866.0	313.4	584.6	478.9	105.68	5.531			
18,600.0	12,750.0	18,358.8	12,550.0	54.2	59.8	69.99	-5,966.0	314.4	584.6	477.3	107.31	5.447			
18,700.0	12,750.0	18,458.8	12,550.0	55.1	60.7	69.99	-6,066.0	315.4	584.6	475.6	108.94	5.366			
18,800.0	12,750.0	18,558.8	12,550.0	55.9	61.6	69.99	-6,166.0	316.3	584.6	474.0	110.58	5.287			
18,900.0	12,750.0	18,658.8	12,550.0	56.7	62.5	69.99	-6,266.0	317.3	584.6	472.4	112.22	5.209			
19,000.0	12,750.0	18,758.8	12,550.0	57.5	63.4	70.00	-6,366.0	318.3	584.6	470.7	113.86	5.134			
19,100.0	12,750.0	18,858.8	12,550.0	58.3	64.4	70.00	-6,466.0	319.3	584.6	469.1	115.50	5.061			
19,200.0	12,750.0	18,958.8	12,550.0	59.1	65.3	70.00	-6,566.0	320.2	584.6	467.5	117.15	4.990			
19,300.0	12,750.0	19,058.8	12,550.0	59.9	66.2	70.00	-6,665.9	321.2	584.6	465.8	118.80	4.921			
19,400.0	12,750.0	19,158.8	12,550.0	60.7	67.1	70.00	-6,765.9	322.2	584.6	464.2	120.45	4.853			
19,500.0	12,750.0	19,258.8	12,550.0	61.6	68.1	70.00	-6,865.9	323.2	584.6	462.5	122.11	4.788			
19,600.0	12,750.0	19,358.8	12,550.0	62.4	69.0	70.00	-6,965.9	324.1	584.6	460.9	123.77	4.724			
19,700.0	12,750.0	19,458.8	12,550.0	63.2	69.9	70.00	-7,065.9	325.1	584.6	459.2	125.43	4.661			
19,800.0	12,750.0	19,558.8	12,550.0	64.0	70.9	70.00	-7,165.9	326.1	584.6	457.5	127.09	4.600			
19,900.0	12,750.0	19,658.8	12,550.0	64.8	71.8	70.00	-7,265.9	327.1	584.6	455.9	128.76	4.541			
20,000.0	12,750.0	19,758.8	12,550.0	65.7	72.7	70.00	-7,365.9	328.0	584.6	454.2	130.42	4.483			
20,100.0	12,750.0	19,858.8	12,550.0	66.5	73.7	70.00	-7,465.9	329.0	584.6	452.6	132.09	4.426			
20,200.0	12,750.0	19,958.8	12,550.0	67.3	74.6	70.00	-7,565.9	330.0	584.6	450.9	133.76	4.371			
20,300.0	12,750.0	20,058.8	12,550.0	68.1	75.5	70.00	-7,665.9	331.0	584.7	449.2	135.44	4.317			
20,400.0	12,750.0	20,158.8	12,550.0	69.0	76.5	70.00	-7,765.9	331.9	584.7	447.5	137.11	4.264			
20,500.0	12,750.0	20,258.8	12,550.0	69.8	77.4	70.00	-7,865.9	332.9	584.7	445.9	138.79	4.213			
20,600.0	12,750.0	20,358.8	12,550.0	70.6	78.3	70.00	-7,965.9	333.9	584.7	444.2	140.47	4.162			
20,700.0	12,750.0	20,458.8	12,550.0	71.4	79.3	70.00	-8,065.9	334.9	584.7	442.5	142.15	4.113			
20,700.4	12,750.0	20,459.3	12,550.0	71.5	79.3	70.00	-8,066.3	334.9	584.7	442.5	142.15	4.113			
20,800.0	12,750.0	20,528.1	12,550.0	72.3	79.9	70.00	-8,135.2	335.5	585.5	442.2	143.27	4.086			
20,900.0	12,750.0	20,528.1	12,550.0	73.1	79.9	70.00	-8,135.2	335.5	599.1	458.3	140.85	4.253			
21,000.0	12,750.0	20,528.1	12,550.0	73.9	79.9	70.00	-8,135.2	335.5	628.5	493.0	135.53	4.638			
21,100.0	12,750.0	20,528.1	12,550.0	74.8	79.9	70.00	-8,135.2	335.5	671.7	543.3	128.44	5.230			
21,200.0	12,750.0	20,528.1	12,550.0	75.6	79.9	70.00	-8,135.2	335.5	726.2	605.5	120.70	6.016			
21,300.0	12,750.0	20,528.1	12,550.0	76.4	79.9	70.00	-8,135.2	335.5	789.6	676.5	113.11	6.981			
21,400.0	12,750.0	20,528.1	12,550.0	77.3	79.9	70.00	-8,135.2	335.5	860.0	753.9	106.09	8.107			
21,500.0	12,750.0	20,528.1	12,550.0	78.1	79.9	70.00	-8,135.2	335.5	935.8	836.0	99.83	9.374			

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 806H - Slot BOATER FED COM 806H
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 806H	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	-90.40	-1.0	-149.7	149.7						
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-1.0	-149.7	149.7	147.7	1.99	75.189			
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-1.0	-149.7	149.7	146.4	3.31	45.211			
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-1.0	-149.7	149.7	145.5	4.20	35.687			
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-1.0	-149.7	149.7	144.8	4.91	30.480			
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-1.0	-149.7	149.7	144.2	5.53	27.059			
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-1.0	-149.7	149.7	143.6	6.09	24.583			
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-1.0	-149.7	149.7	143.1	6.60	22.681			
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-1.0	-149.7	149.7	142.6	7.08	21.157			
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-1.0	-149.7	149.7	142.2	7.52	19.900			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-1.0	-149.7	149.7	141.8	7.95	18.839			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-1.0	-149.7	149.7	141.4	8.35	17.927			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-1.0	-149.7	149.7	141.0	8.74	17.132			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-1.0	-149.7	149.7	140.6	9.11	16.430			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-1.0	-149.7	149.7	140.2	9.47	15.804			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-1.0	-149.7	149.7	139.9	9.82	15.242			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-1.0	-149.7	149.7	139.6	10.16	14.733			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-1.0	-149.7	149.7	139.2	10.49	14.268			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-1.0	-149.7	149.7	138.9	10.82	13.843			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-1.0	-149.7	149.7	138.6	11.13	13.451			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-1.0	-149.7	149.7	138.3	11.44	13.088 CC, ES			
2,100.0	2,100.0	2,094.9	2,094.9	5.8	5.8	-178.24	-0.9	-151.3	153.1	141.2	11.88	12.893 SF			
2,200.0	2,199.8	2,189.2	2,189.1	6.0	6.0	-178.18	-0.7	-156.0	163.3	151.0	12.27	13.304			
2,300.0	2,299.5	2,282.2	2,281.8	6.2	6.2	-178.10	-0.3	-163.6	180.1	167.5	12.65	14.237			
2,400.0	2,398.7	2,373.4	2,372.3	6.4	6.4	-178.01	0.3	-174.0	203.6	190.5	13.01	15.642			
2,478.2	2,476.0	2,442.9	2,441.2	6.5	6.5	-177.94	0.9	-183.8	226.3	213.1	13.23	17.102			
2,500.0	2,497.5	2,462.1	2,460.1	6.5	6.5	-177.92	1.1	-186.8	233.3	220.0	13.28	17.569			
2,600.0	2,596.1	2,548.7	2,545.4	6.7	6.7	-177.84	1.9	-202.0	266.9	253.4	13.55	19.699			
2,700.0	2,694.7	2,633.4	2,628.3	6.8	6.9	-177.74	2.9	-219.3	303.3	289.5	13.80	21.981			
2,800.0	2,793.3	2,716.1	2,708.7	7.0	7.1	-177.65	4.0	-238.6	342.5	328.4	14.02	24.424			
2,900.0	2,891.9	2,804.1	2,793.7	7.1	7.1	-177.55	5.2	-261.0	383.6	369.4	14.21	26.992			
3,000.0	2,990.5	2,895.1	2,881.8	7.3	7.3	-177.46	6.5	-284.3	424.9	410.4	14.48	29.342			
3,100.0	3,089.1	2,986.2	2,969.8	7.4	7.4	-177.39	7.8	-307.6	466.2	451.4	14.76	31.592			
3,200.0	3,187.7	3,077.3	3,057.8	7.6	7.5	-177.34	9.2	-330.9	507.5	492.4	15.04	33.745			
3,300.0	3,286.4	3,168.4	3,145.9	7.7	7.7	-177.29	10.5	-354.2	548.8	533.4	15.33	35.807			
3,400.0	3,385.0	3,259.5	3,233.9	7.9	7.8	-177.24	11.8	-377.5	590.1	574.4	15.62	37.779			
3,500.0	3,483.6	3,350.5	3,321.9	8.0	8.0	-177.21	13.1	-400.8	631.3	615.4	15.92	39.665			
3,600.0	3,582.2	3,441.6	3,410.0	8.2	8.1	-177.18	14.4	-424.1	672.6	656.4	16.22	41.470			
3,700.0	3,680.8	3,532.7	3,498.0	8.3	8.3	-177.15	15.7	-447.5	713.9	697.4	16.53	43.197			
3,800.0	3,779.4	3,623.8	3,586.0	8.5	8.4	-177.12	17.0	-470.8	755.2	738.4	16.84	44.849			
3,900.0	3,878.0	3,714.8	3,674.1	8.7	8.6	-177.10	18.3	-494.1	796.5	779.4	17.16	46.429			
4,000.0	3,976.6	3,805.9	3,762.1	8.8	8.7	-177.08	19.6	-517.4	837.8	820.3	17.48	47.942			
4,100.0	4,075.2	3,897.0	3,850.1	9.0	8.9	-177.06	21.0	-540.7	879.1	861.3	17.80	49.389			
4,200.0	4,173.9	3,988.1	3,938.2	9.2	9.0	-177.04	22.3	-564.0	920.4	902.3	18.13	50.775			
4,300.0	4,272.5	4,079.1	4,026.2	9.4	9.2	-177.03	23.6	-587.3	961.7	943.2	18.46	52.101			

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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	-90.40	-0.8	-120.0	120.0						
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.8	-120.0	120.0	118.0	1.99	60.264			
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.8	-120.0	120.0	116.7	3.31	36.237			
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.8	-120.0	120.0	115.8	4.20	28.603			
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.8	-120.0	120.0	115.1	4.91	24.430			
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.8	-120.0	120.0	114.5	5.53	21.688			
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.8	-120.0	120.0	113.9	6.09	19.704			
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.8	-120.0	120.0	113.4	6.60	18.179			
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.8	-120.0	120.0	112.9	7.08	16.957			
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.8	-120.0	120.0	112.5	7.52	15.950			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.8	-120.0	120.0	112.1	7.95	15.099			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.8	-120.0	120.0	111.6	8.35	14.368			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.8	-120.0	120.0	111.3	8.74	13.731			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.8	-120.0	120.0	110.9	9.11	13.169			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.8	-120.0	120.0	110.5	9.47	12.667			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.8	-120.0	120.0	110.2	9.82	12.216			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.8	-120.0	120.0	109.8	10.16	11.808			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.8	-120.0	120.0	109.5	10.49	11.436			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.8	-120.0	120.0	109.2	10.82	11.095			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.8	-120.0	120.0	108.9	11.13	10.781			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.8	-120.0	120.0	108.6	11.44	10.490 CC, ES			
2,100.0	2,100.0	2,095.9	2,095.9	5.8	5.8	-178.26	-0.8	-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	-178.26	-0.7	-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	-178.25	-0.5	-134.2	150.6	137.9	12.66	11.898			
2,400.0	2,398.7	2,377.0	2,375.9	6.4	6.4	-178.24	-0.2	-144.8	174.1	161.1	13.02	13.375			
2,478.2	2,476.0	2,447.2	2,445.4	6.5	6.5	-178.23	0.0	-154.8	197.0	183.8	13.24	14.881			
2,500.0	2,497.5	2,466.5	2,464.4	6.5	6.6	-178.23	0.1	-157.9	204.0	190.7	13.28	15.358			
2,600.0	2,596.1	2,553.9	2,550.4	6.7	6.7	-178.22	0.4	-173.4	237.8	224.3	13.51	17.606			
2,700.0	2,694.7	2,645.9	2,640.7	6.8	6.8	-178.20	0.9	-191.5	273.5	259.8	13.72	19.930			
2,800.0	2,793.3	2,739.3	2,732.2	7.0	6.9	-178.19	1.3	-210.0	309.3	295.3	13.99	22.114			
2,900.0	2,891.9	2,832.7	2,823.7	7.1	7.0	-178.17	1.8	-228.4	345.0	330.8	14.25	24.206			
3,000.0	2,990.5	2,926.1	2,915.3	7.3	7.2	-178.16	2.2	-246.9	380.8	366.3	14.53	26.210			
3,100.0	3,089.1	3,019.5	3,006.8	7.4	7.3	-178.16	2.6	-265.3	416.6	401.8	14.81	28.129			
3,200.0	3,187.7	3,112.8	3,098.4	7.6	7.5	-178.15	3.1	-283.8	452.3	437.2	15.09	29.966			
3,300.0	3,286.4	3,206.2	3,189.9	7.7	7.6	-178.14	3.5	-302.2	488.1	472.7	15.39	31.724			
3,400.0	3,385.0	3,299.6	3,281.5	7.9	7.7	-178.14	4.0	-320.7	523.9	508.2	15.68	33.407			
3,500.0	3,483.6	3,393.0	3,373.0	8.0	7.9	-178.13	4.4	-339.1	559.6	543.6	15.98	35.018			
3,600.0	3,582.2	3,486.4	3,464.6	8.2	8.0	-178.13	4.9	-357.6	595.4	579.1	16.29	36.560			
3,700.0	3,680.8	3,579.8	3,556.1	8.3	8.2	-178.12	5.3	-376.0	631.1	614.6	16.59	38.036			
3,800.0	3,779.4	3,673.2	3,647.6	8.5	8.4	-178.12	5.7	-394.5	666.9	650.0	16.91	39.449			
3,900.0	3,878.0	3,766.5	3,739.2	8.7	8.5	-178.12	6.2	-412.9	702.7	685.4	17.22	40.802			
4,000.0	3,976.6	3,859.9	3,830.7	8.8	8.7	-178.12	6.6	-431.4	738.4	720.9	17.54	42.098			
4,100.0	4,075.2	3,953.3	3,922.3	9.0	8.8	-178.11	7.1	-449.9	774.2	756.3	17.86	43.340			
4,200.0	4,173.9	4,046.7	4,013.8	9.2	9.0	-178.11	7.5	-468.3	810.0	791.8	18.19	44.531			
4,300.0	4,272.5	4,140.1	4,105.4	9.4	9.2	-178.11	7.9	-486.8	845.7	827.2	18.52	45.672			
4,400.0	4,371.1	4,233.5	4,196.9	9.5	9.3	-178.11	8.4	-505.2	881.5	862.6	18.85	46.766			
4,500.0	4,469.7	4,326.9	4,288.4	9.7	9.5	-178.10	8.8	-523.7	917.2	898.1	19.18	47.816			
4,600.0	4,568.3	4,420.3	4,380.0	9.9	9.7	-178.10	9.3	-542.1	953.0	933.5	19.52	48.824			
4,700.0	4,666.9	4,513.6	4,471.5	10.1	9.8	-178.10	9.7	-560.6	988.8	968.9	19.86	49.791			

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 806H - Slot BOATER FED COM 806H
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 806H	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	-90.40	-0.4	-60.0	60.0						
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.4	-60.0	60.0	58.0	1.99	30.132			
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.4	-60.0	60.0	56.7	3.31	18.118			
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.4	-60.0	60.0	55.8	4.20	14.302			
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.4	-60.0	60.0	55.1	4.91	12.215			
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.4	-60.0	60.0	54.5	5.53	10.844			
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.4	-60.0	60.0	53.9	6.09	9.852			
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.4	-60.0	60.0	53.4	6.60	9.089			
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.4	-60.0	60.0	52.9	7.08	8.479			
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.4	-60.0	60.0	52.5	7.52	7.975			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.4	-60.0	60.0	52.1	7.95	7.550			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.4	-60.0	60.0	51.6	8.35	7.184			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.4	-60.0	60.0	51.3	8.74	6.865			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.4	-60.0	60.0	50.9	9.11	6.584			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.4	-60.0	60.0	50.5	9.47	6.334			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.4	-60.0	60.0	50.2	9.82	6.108			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.4	-60.0	60.0	49.8	10.16	5.904			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.4	-60.0	60.0	49.5	10.49	5.718			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.4	-60.0	60.0	49.2	10.82	5.548			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.4	-60.0	60.0	48.9	11.13	5.390			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.4	-60.0	60.0	48.6	11.44	5.245 CC, ES			
2,100.0	2,100.0	2,099.9	2,099.8	5.8	5.8	-179.93	-2.2	-60.0	61.8	50.0	11.79	5.243			
2,200.0	2,199.8	2,199.3	2,199.2	6.0	6.0	175.66	-7.3	-60.2	67.6	55.5	12.11	5.582			
2,300.0	2,299.5	2,298.0	2,297.5	6.2	6.2	169.83	-15.9	-60.4	77.9	65.5	12.42	6.270			
2,400.0	2,398.7	2,395.6	2,394.4	6.4	6.4	163.93	-27.7	-60.8	93.3	80.5	12.74	7.319			
2,478.2	2,476.0	2,471.1	2,468.9	6.5	6.6	159.78	-39.0	-61.1	108.9	96.0	12.90	8.446			
2,500.0	2,497.5	2,492.2	2,489.8	6.5	6.6	158.79	-42.4	-61.2	113.7	100.8	12.92	8.803			
2,600.0	2,596.1	2,589.4	2,585.7	6.7	6.8	155.16	-58.0	-61.6	136.1	122.9	13.19	10.317			
2,700.0	2,694.7	2,686.5	2,681.6	6.8	7.0	152.56	-73.6	-62.0	158.9	145.4	13.48	11.789			
2,800.0	2,793.3	2,783.7	2,777.5	7.0	7.3	150.61	-89.2	-62.5	181.9	168.1	13.78	13.201			
2,900.0	2,891.9	2,880.9	2,873.4	7.1	7.5	149.10	-104.8	-62.9	205.0	191.0	14.09	14.547			
3,000.0	2,990.5	2,978.0	2,969.3	7.3	7.8	147.89	-120.5	-63.3	228.3	213.9	14.43	15.827			
3,100.0	3,089.1	3,075.2	3,065.2	7.4	8.1	146.91	-136.1	-63.8	251.6	236.9	14.77	17.040			
3,200.0	3,187.7	3,172.3	3,161.1	7.6	8.4	146.09	-151.7	-64.2	275.0	259.9	15.12	18.186			
3,300.0	3,286.4	3,269.5	3,257.0	7.7	8.7	145.41	-167.3	-64.6	298.5	283.0	15.49	19.269			
3,400.0	3,385.0	3,366.6	3,352.9	7.9	9.1	144.82	-182.9	-65.1	322.0	306.1	15.87	20.292			
3,500.0	3,483.6	3,463.8	3,448.8	8.0	9.4	144.31	-198.5	-65.5	345.5	329.2	16.25	21.256			
3,600.0	3,582.2	3,560.9	3,544.7	8.2	9.7	143.87	-214.1	-65.9	369.0	352.4	16.65	22.164			
3,700.0	3,680.8	3,658.1	3,640.6	8.3	10.1	143.48	-229.7	-66.4	392.6	375.5	17.05	23.021			
3,800.0	3,779.4	3,755.3	3,736.5	8.5	10.4	143.13	-245.3	-66.8	416.1	398.7	17.46	23.829			
3,900.0	3,878.0	3,852.4	3,832.3	8.7	10.8	142.82	-260.9	-67.2	439.7	421.8	17.88	24.590			
4,000.0	3,976.6	3,949.6	3,928.2	8.8	11.2	142.55	-276.5	-67.7	463.3	445.0	18.31	25.308			
4,100.0	4,075.2	4,046.7	4,024.1	9.0	11.5	142.30	-292.1	-68.1	486.9	468.1	18.74	25.984			
4,200.0	4,173.9	4,146.4	4,122.6	9.2	11.9	142.08	-307.9	-68.5	510.4	491.2	19.18	26.604			
4,300.0	4,272.5	4,250.0	4,225.1	9.4	12.3	142.00	-322.9	-69.0	532.9	513.3	19.64	27.138			
4,400.0	4,371.1	4,354.2	4,328.4	9.5	12.7	142.08	-336.0	-69.3	554.3	534.2	20.08	27.608			
4,500.0	4,469.7	4,458.9	4,432.5	9.7	13.1	142.30	-347.3	-69.6	574.5	554.0	20.50	28.025			
4,600.0	4,568.3	4,564.0	4,537.2	9.9	13.5	142.65	-356.8	-69.9	593.6	572.7	20.90	28.398			
4,700.0	4,666.9	4,669.4	4,642.3	10.1	13.8	143.11	-364.3	-70.1	611.5	590.2	21.28	28.736			
4,800.0	4,765.5	4,775.2	4,747.9	10.2	14.2	143.69	-370.0	-70.3	628.3	606.6	21.63	29.046			
4,900.0	4,864.1	4,881.1	4,853.8	10.4	14.5	144.38	-373.6	-70.4	644.0	622.0	21.95	29.340			

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 806H - Slot BOATER FED COM 806H
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 806H	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	4,962.7	4,987.2	4,959.9	10.6	14.7	145.16	-375.4	-70.4	658.6	636.4	22.22	29.635			
5,100.0	5,061.3	5,088.7	5,061.3	10.8	14.8	145.98	-375.5	-70.4	672.5	650.1	22.37	30.059			
5,200.0	5,160.0	5,187.3	5,160.0	11.0	14.9	146.75	-375.5	-70.4	686.3	663.8	22.52	30.472			
5,300.0	5,258.6	5,285.9	5,258.6	11.1	14.9	147.49	-375.5	-70.4	700.4	677.7	22.69	30.872			
5,400.0	5,357.2	5,384.5	5,357.2	11.3	15.0	148.21	-375.5	-70.4	714.5	691.6	22.85	31.263			
5,500.0	5,455.8	5,483.1	5,455.8	11.5	15.0	148.89	-375.5	-70.4	728.7	705.7	23.03	31.644			
5,600.0	5,554.4	5,581.7	5,554.4	11.7	15.0	149.55	-375.5	-70.4	743.0	719.8	23.21	32.015			
5,700.0	5,653.0	5,680.3	5,653.0	11.9	15.1	150.19	-375.5	-70.4	757.5	734.1	23.40	32.377			
5,800.0	5,751.6	5,778.9	5,751.6	12.1	15.1	150.80	-375.5	-70.4	772.0	748.4	23.59	32.729			
5,900.0	5,850.2	5,877.5	5,850.2	12.3	15.2	151.39	-375.5	-70.4	786.6	762.8	23.78	33.072			
6,000.0	5,948.8	5,976.2	5,948.8	12.4	15.2	151.95	-375.5	-70.4	801.2	777.2	23.98	33.406			
6,100.0	6,047.4	6,074.8	6,047.4	12.6	15.3	152.50	-375.5	-70.4	816.0	791.8	24.19	33.731			
6,200.0	6,146.1	6,173.4	6,146.1	12.8	15.3	153.03	-375.5	-70.4	830.8	806.4	24.40	34.048			
6,300.0	6,244.7	6,272.0	6,244.7	13.0	15.4	153.54	-375.5	-70.4	845.7	821.1	24.61	34.356			
6,400.0	6,343.3	6,370.6	6,343.3	13.2	15.4	154.03	-375.5	-70.4	860.6	835.8	24.83	34.656			
6,500.0	6,441.9	6,469.2	6,441.9	13.4	15.5	154.50	-375.5	-70.4	875.6	850.6	25.05	34.948			
6,600.0	6,540.5	6,567.8	6,540.5	13.6	15.5	154.96	-375.5	-70.4	890.7	865.4	25.29	35.223			
6,607.7	6,548.0	6,575.4	6,548.0	13.6	15.5	155.00	-375.5	-70.4	891.8	866.5	25.30	35.244			
6,700.0	6,639.2	6,666.5	6,639.2	13.8	15.6	155.44	-375.5	-70.4	905.1	879.6	25.51	35.482			
6,800.0	6,738.2	6,765.5	6,738.2	14.0	15.6	155.86	-375.5	-70.4	918.1	892.3	25.74	35.670			
6,900.0	6,837.4	6,864.8	6,837.4	14.1	15.7	156.22	-375.5	-70.4	929.4	903.5	25.97	35.794			
7,000.0	6,936.9	6,964.2	6,936.9	14.3	15.7	156.53	-375.5	-70.4	939.2	913.0	26.19	35.858			
7,100.0	7,036.5	7,063.8	7,036.5	14.5	15.8	156.77	-375.5	-70.4	947.5	921.1	26.42	35.864			
7,200.0	7,136.2	7,163.5	7,136.2	14.7	15.8	156.97	-375.5	-70.4	954.1	927.5	26.64	35.815			
7,300.0	7,236.0	7,263.4	7,236.0	14.8	15.9	157.12	-375.5	-70.4	959.2	932.3	26.86	35.714			
7,400.0	7,336.0	7,363.3	7,336.0	15.0	15.9	157.22	-375.5	-70.4	962.6	935.5	27.07	35.564			
7,500.0	7,436.0	7,463.3	7,436.0	15.1	16.0	157.27	-375.5	-70.4	964.4	937.2	27.27	35.373			
7,564.0	7,500.0	7,527.3	7,500.0	15.1	16.0	-114.85	-375.5	-70.4	964.8	937.4	27.35	35.274			
7,600.0	7,536.0	7,563.3	7,536.0	15.2	16.0	-114.85	-375.5	-70.4	964.8	937.4	27.38	35.235			
7,700.0	7,636.0	7,663.3	7,636.0	15.2	16.1	-114.85	-375.5	-70.4	964.8	937.3	27.50	35.077			
7,800.0	7,736.0	7,763.3	7,736.0	15.3	16.1	-114.85	-375.5	-70.4	964.8	937.1	27.63	34.920			
7,900.0	7,836.0	7,863.3	7,836.0	15.3	16.2	-114.85	-375.5	-70.4	964.8	937.0	27.75	34.763			
8,000.0	7,936.0	7,963.3	7,936.0	15.4	16.2	-114.85	-375.5	-70.4	964.8	936.9	27.88	34.608			
8,100.0	8,036.0	8,063.3	8,036.0	15.4	16.3	-114.85	-375.5	-70.4	964.8	936.8	28.00	34.454			
8,200.0	8,136.0	8,163.3	8,136.0	15.5	16.3	-114.85	-375.5	-70.4	964.8	936.6	28.13	34.300			
8,300.0	8,236.0	8,263.3	8,236.0	15.6	16.4	-114.85	-375.5	-70.4	964.8	936.5	28.25	34.148			
8,400.0	8,336.0	8,363.3	8,336.0	15.6	16.5	-114.85	-375.5	-70.4	964.8	936.4	28.38	33.996			
8,500.0	8,436.0	8,463.3	8,436.0	15.7	16.5	-114.85	-375.5	-70.4	964.8	936.3	28.51	33.845			
8,600.0	8,536.0	8,563.3	8,536.0	15.7	16.6	-114.85	-375.5	-70.4	964.8	936.1	28.63	33.695			
8,700.0	8,636.0	8,663.3	8,636.0	15.8	16.6	-114.85	-375.5	-70.4	964.8	936.0	28.76	33.547			
8,800.0	8,736.0	8,763.3	8,736.0	15.9	16.7	-114.85	-375.5	-70.4	964.8	935.9	28.89	33.399			
8,900.0	8,836.0	8,863.3	8,836.0	15.9	16.7	-114.85	-375.5	-70.4	964.8	935.8	29.01	33.251			
9,000.0	8,936.0	8,963.3	8,936.0	16.0	16.8	-114.85	-375.5	-70.4	964.8	935.6	29.14	33.105			
9,100.0	9,036.0	9,063.3	9,036.0	16.1	16.8	-114.85	-375.5	-70.4	964.8	935.5	29.27	32.960			
9,200.0	9,136.0	9,163.3	9,136.0	16.1	16.9	-114.85	-375.5	-70.4	964.8	935.4	29.40	32.816			
9,300.0	9,236.0	9,263.3	9,236.0	16.2	17.0	-114.85	-375.5	-70.4	964.8	935.2	29.53	32.672			
9,400.0	9,336.0	9,363.3	9,336.0	16.2	17.0	-114.85	-375.5	-70.4	964.8	935.1	29.66	32.530			
9,500.0	9,436.0	9,463.3	9,436.0	16.3	17.1	-114.85	-375.5	-70.4	964.8	935.0	29.79	32.388			
9,600.0	9,536.0	9,563.3	9,536.0	16.4	17.1	-114.85	-375.5	-70.4	964.8	934.9	29.92	32.247			
9,700.0	9,636.0	9,663.3	9,636.0	16.4	17.2	-114.85	-375.5	-70.4	964.8	934.7	30.05	32.107			

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 806H - Slot BOATER FED COM 806H
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 806H	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	9,736.0	9,763.3	9,736.0	16.5	17.2	-114.85	-375.5	-70.4	964.8	934.6	30.18	31.968			
9,900.0	9,836.0	9,863.3	9,836.0	16.5	17.3	-114.85	-375.5	-70.4	964.8	934.5	30.31	31.830			
10,000.0	9,936.0	9,963.3	9,936.0	16.6	17.4	-114.85	-375.5	-70.4	964.8	934.3	30.44	31.693			
10,100.0	10,036.0	10,063.3	10,036.0	16.7	17.4	-114.85	-375.5	-70.4	964.8	934.2	30.57	31.557			
10,200.0	10,136.0	10,163.3	10,136.0	16.7	17.5	-114.85	-375.5	-70.4	964.8	934.1	30.70	31.421			
10,300.0	10,236.0	10,263.3	10,236.0	16.8	17.5	-114.85	-375.5	-70.4	964.8	933.9	30.84	31.287			
10,400.0	10,336.0	10,363.3	10,336.0	16.9	17.6	-114.85	-375.5	-70.4	964.8	933.8	30.97	31.153			
10,500.0	10,436.0	10,463.3	10,436.0	16.9	17.6	-114.85	-375.5	-70.4	964.8	933.7	31.10	31.020			
10,600.0	10,536.0	10,563.3	10,536.0	17.0	17.7	-114.85	-375.5	-70.4	964.8	933.5	31.23	30.888			
10,700.0	10,636.0	10,663.3	10,636.0	17.1	17.8	-114.85	-375.5	-70.4	964.8	933.4	31.37	30.757			
10,800.0	10,736.0	10,763.3	10,736.0	17.1	17.8	-114.85	-375.5	-70.4	964.8	933.3	31.50	30.627			
10,900.0	10,836.0	10,863.3	10,836.0	17.2	17.9	-114.85	-375.5	-70.4	964.8	933.1	31.63	30.497			
11,000.0	10,936.0	10,963.3	10,936.0	17.2	17.9	-114.85	-375.5	-70.4	964.8	933.0	31.77	30.369			
11,100.0	11,036.0	11,063.3	11,036.0	17.3	18.0	-114.85	-375.5	-70.4	964.8	932.9	31.90	30.241			
11,200.0	11,136.0	11,163.3	11,136.0	17.4	18.1	-114.85	-375.5	-70.4	964.8	932.7	32.04	30.114			
11,300.0	11,236.0	11,263.3	11,236.0	17.4	18.1	-114.85	-375.5	-70.4	964.8	932.6	32.17	29.988			
11,400.0	11,336.0	11,363.3	11,336.0	17.5	18.2	-114.85	-375.5	-70.4	964.8	932.5	32.31	29.863			
11,500.0	11,436.0	11,463.3	11,436.0	17.6	18.2	-114.85	-375.5	-70.4	964.8	932.3	32.44	29.738			
11,600.0	11,536.0	11,563.3	11,536.0	17.6	18.3	-114.85	-375.5	-70.4	964.8	932.2	32.58	29.615			
11,700.0	11,636.0	11,663.3	11,636.0	17.7	18.4	-114.85	-375.5	-70.4	964.8	932.1	32.71	29.492			
11,800.0	11,736.0	11,763.3	11,736.0	17.8	18.4	-114.85	-375.5	-70.4	964.8	931.9	32.85	29.370			
11,900.0	11,836.0	11,863.3	11,836.0	17.8	18.5	-114.85	-375.5	-70.4	964.8	931.8	32.98	29.249			
12,000.0	11,936.0	11,963.3	11,936.0	17.9	18.5	-114.85	-375.5	-70.4	964.8	931.6	33.12	29.128			
12,100.0	12,036.0	12,063.3	12,036.0	18.0	18.6	-114.85	-375.5	-70.4	964.8	931.5	33.26	29.009			
12,200.0	12,136.0	12,163.3	12,136.0	18.0	18.7	-114.85	-375.5	-70.4	964.8	931.4	33.39	28.890			
12,300.0	12,236.0	12,263.3	12,236.0	18.1	18.7	-114.85	-375.5	-70.4	964.8	931.2	33.53	28.772			
12,336.5	12,272.5	12,299.8	12,272.5	18.1	18.7	-114.85	-375.5	-70.4	964.8	931.2	33.57	28.739			
12,350.0	12,285.9	12,307.2	12,279.8	18.1	18.8	65.71	-375.6	-70.4	964.7	931.2	33.58	28.732			
12,375.0	12,310.9	12,325.0	12,297.7	18.1	18.8	65.77	-376.2	-70.4	964.5	930.9	33.58	28.721			
12,400.0	12,335.8	12,334.5	12,307.1	18.1	18.8	65.85	-376.8	-70.4	964.0	930.4	33.60	28.691			
12,425.0	12,360.4	12,350.0	12,322.6	18.1	18.8	65.99	-378.1	-70.4	963.2	929.6	33.61	28.657			
12,450.0	12,384.9	12,361.8	12,334.3	18.1	18.9	66.16	-379.5	-70.4	962.3	928.6	33.64	28.605			
12,475.0	12,409.0	12,375.0	12,347.4	18.1	18.9	66.38	-381.4	-70.4	961.1	927.4	33.67	28.544			
12,500.0	12,432.8	12,389.1	12,361.3	18.1	19.0	66.65	-383.8	-70.3	959.6	925.9	33.70	28.475			
12,525.0	12,456.1	12,400.0	12,371.9	18.1	19.0	66.93	-386.0	-70.3	958.0	924.2	33.75	28.386			
12,550.0	12,478.9	12,416.5	12,388.1	18.0	19.0	67.31	-389.7	-70.3	956.1	922.3	33.78	28.308			
12,575.0	12,501.2	12,425.0	12,396.2	18.0	19.1	67.64	-391.8	-70.3	954.1	920.2	33.84	28.191			
12,600.0	12,522.8	12,444.0	12,414.5	18.0	19.1	68.14	-397.1	-70.2	951.8	917.9	33.86	28.110			
12,625.0	12,543.7	12,457.7	12,427.6	18.0	19.2	68.61	-401.4	-70.2	949.3	915.4	33.90	28.002			
12,650.0	12,563.9	12,475.0	12,443.8	18.0	19.3	69.19	-407.3	-70.1	946.7	912.8	33.92	27.906			
12,675.0	12,583.3	12,485.3	12,453.4	18.0	19.3	69.68	-411.1	-70.1	943.9	909.9	33.98	27.774			
12,700.0	12,601.9	12,500.0	12,466.9	18.0	19.3	70.29	-416.8	-70.0	941.0	906.9	34.02	27.661			
12,725.0	12,619.5	12,513.0	12,478.6	18.0	19.4	70.90	-422.3	-70.0	937.9	903.8	34.06	27.538			
12,750.0	12,636.2	12,525.0	12,489.4	18.0	19.4	71.52	-427.6	-69.9	934.7	900.6	34.10	27.410			
12,775.0	12,651.9	12,540.8	12,503.3	18.0	19.5	72.26	-435.0	-69.8	931.5	897.3	34.12	27.302			
12,800.0	12,666.5	12,550.0	12,511.4	18.1	19.5	72.87	-439.6	-69.8	928.1	894.0	34.17	27.164			
12,825.0	12,680.1	12,568.7	12,527.4	18.1	19.6	73.75	-449.2	-69.7	924.7	890.5	34.15	27.077			
12,850.0	12,692.6	12,582.7	12,539.1	18.1	19.7	74.54	-456.9	-69.6	921.2	887.1	34.16	26.970			
12,875.0	12,703.9	12,600.0	12,553.3	18.1	19.7	75.44	-466.8	-69.5	917.8	883.6	34.14	26.883			
12,900.0	12,714.0	12,611.0	12,562.1	18.1	19.8	76.18	-473.3	-69.5	914.3	880.2	34.15	26.771			
12,925.0	12,722.9	12,625.0	12,573.1	18.2	19.8	77.03	-482.0	-69.4	910.9	876.7	34.14	26.681			

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 806H - Slot BOATER FED COM 806H
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 806H	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
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	12,730.6	12,639.4	12,584.2	18.2	19.9	77.91	-491.2	-69.3	907.5	873.4	34.12	26.597			
12,975.0	12,737.0	12,650.0	12,592.1	18.2	19.9	78.66	-498.2	-69.2	904.2	870.1	34.11	26.507			
13,000.0	12,742.1	12,668.1	12,605.3	18.3	20.0	79.69	-510.6	-69.1	901.0	866.9	34.06	26.450			
13,025.0	12,746.0	12,682.6	12,615.6	18.3	20.0	80.60	-520.9	-69.0	897.9	863.9	34.03	26.386			
13,050.0	12,748.6	12,700.0	12,627.4	18.4	20.1	81.62	-533.6	-68.9	895.0	861.0	33.98	26.335			
13,075.0	12,749.8	12,711.8	12,635.3	18.4	20.1	82.43	-542.5	-68.8	892.2	858.2	33.95	26.276			
13,086.5	12,750.0	12,718.7	12,639.7	18.4	20.2	82.85	-547.7	-68.7	891.0	857.0	33.94	26.254			
13,100.0	12,750.0	12,725.0	12,643.7	18.5	20.2	83.11	-552.6	-68.7	889.6	855.7	33.92	26.227			
13,200.0	12,750.0	12,794.0	12,683.0	18.7	20.4	85.65	-609.2	-68.1	882.8	848.9	33.93	26.014			
13,300.0	12,750.0	12,875.0	12,718.3	19.0	20.6	87.94	-682.0	-67.4	880.0	845.8	34.22	25.716			
13,400.0	12,750.0	12,967.2	12,742.8	19.3	20.8	89.53	-770.7	-66.6	879.4	844.6	34.76	25.299			
13,456.3	12,750.0	13,022.6	12,749.2	19.5	20.8	89.95	-825.8	-66.0	879.4	844.2	35.15	25.020			
13,500.0	12,750.0	13,066.3	12,750.0	19.6	20.8	90.00	-869.4	-65.6	879.4	843.9	35.46	24.799			
13,600.0	12,750.0	13,166.3	12,750.0	20.0	20.9	90.00	-969.4	-64.6	879.4	843.1	36.25	24.256			
13,700.0	12,750.0	13,266.3	12,750.0	20.4	20.9	90.00	-1,069.4	-63.7	879.4	842.3	37.12	23.691			
13,800.0	12,750.0	13,366.3	12,750.0	20.8	20.9	90.00	-1,169.4	-62.7	879.4	841.3	38.05	23.111			
13,900.0	12,750.0	13,466.3	12,750.0	21.2	21.0	90.00	-1,269.4	-61.7	879.4	840.3	39.04	22.523			
14,000.0	12,750.0	13,566.3	12,750.0	21.7	21.0	90.00	-1,369.4	-60.7	879.4	839.3	40.10	21.932			
14,100.0	12,750.0	13,666.3	12,750.0	22.2	21.0	90.00	-1,469.4	-59.8	879.4	838.2	41.20	21.345			
14,200.0	12,750.0	13,766.3	12,750.0	22.7	21.1	90.00	-1,569.4	-58.8	879.4	837.1	42.35	20.765			
14,300.0	12,750.0	13,866.3	12,750.0	23.2	21.1	90.00	-1,669.4	-57.8	879.4	835.9	43.55	20.194			
14,400.0	12,750.0	13,966.3	12,750.0	23.7	21.6	90.00	-1,769.4	-56.8	879.4	834.6	44.78	19.637			
14,500.0	12,750.0	14,066.3	12,750.0	24.3	22.4	90.00	-1,869.4	-55.9	879.4	833.4	46.06	19.093			
14,600.0	12,750.0	14,166.3	12,750.0	24.9	23.1	90.00	-1,969.4	-54.9	879.4	832.1	47.37	18.566			
14,700.0	12,750.0	14,266.3	12,750.0	25.5	23.9	90.00	-2,069.4	-53.9	879.4	830.7	48.71	18.054			
14,800.0	12,750.0	14,366.3	12,750.0	26.1	24.7	90.00	-2,169.4	-52.9	879.4	829.4	50.08	17.561			
14,900.0	12,750.0	14,466.3	12,750.0	26.7	25.5	90.00	-2,269.4	-52.0	879.4	828.0	51.48	17.084			
15,000.0	12,750.0	14,566.3	12,750.0	27.3	26.3	90.00	-2,369.4	-51.0	879.4	826.5	52.90	16.625			
15,100.0	12,750.0	14,666.3	12,750.0	28.0	27.1	90.00	-2,469.4	-50.0	879.4	825.1	54.34	16.183			
15,200.0	12,750.0	14,766.3	12,750.0	28.6	27.9	90.00	-2,569.4	-49.0	879.5	823.6	55.81	15.758			
15,300.0	12,750.0	14,866.3	12,750.0	29.3	28.8	90.00	-2,669.4	-48.1	879.5	822.2	57.29	15.350			
15,400.0	12,750.0	14,966.3	12,750.0	29.9	29.6	90.00	-2,769.4	-47.1	879.5	820.7	58.80	14.958			
15,500.0	12,750.0	15,066.3	12,750.0	30.6	30.5	90.00	-2,869.3	-46.1	879.5	819.2	60.31	14.581			
15,600.0	12,750.0	15,166.3	12,750.0	31.3	31.3	90.00	-2,969.3	-45.1	879.5	817.6	61.85	14.220			
15,700.0	12,750.0	15,266.3	12,750.0	32.0	32.2	90.00	-3,069.3	-44.2	879.5	816.1	63.40	13.873			
15,800.0	12,750.0	15,366.3	12,750.0	32.7	33.1	90.00	-3,169.3	-43.2	879.5	814.5	64.96	13.539			
15,900.0	12,750.0	15,466.3	12,750.0	33.4	33.9	90.00	-3,269.3	-42.2	879.5	813.0	66.53	13.219			
16,000.0	12,750.0	15,566.3	12,750.0	34.1	34.8	90.00	-3,369.3	-41.2	879.5	811.4	68.12	12.911			
16,100.0	12,750.0	15,666.3	12,750.0	34.9	35.7	90.00	-3,469.3	-40.3	879.5	809.8	69.71	12.616			
16,200.0	12,750.0	15,766.3	12,750.0	35.6	36.6	90.00	-3,569.3	-39.3	879.5	808.2	71.32	12.332			
16,300.0	12,750.0	15,866.3	12,750.0	36.3	37.5	90.00	-3,669.3	-38.3	879.5	806.6	72.93	12.059			
16,400.0	12,750.0	15,966.3	12,750.0	37.1	38.4	90.00	-3,769.3	-37.3	879.5	805.0	74.56	11.797			
16,500.0	12,750.0	16,066.3	12,750.0	37.8	39.3	90.00	-3,869.3	-36.4	879.5	803.3	76.19	11.544			
16,600.0	12,750.0	16,166.3	12,750.0	38.6	40.2	90.00	-3,969.3	-35.4	879.5	801.7	77.83	11.301			
16,700.0	12,750.0	16,266.3	12,750.0	39.3	41.1	90.00	-4,069.3	-34.4	879.5	800.1	79.47	11.067			
16,800.0	12,750.0	16,366.3	12,750.0	40.1	42.0	90.00	-4,169.3	-33.5	879.5	798.4	81.12	10.842			
16,900.0	12,750.0	16,466.3	12,750.0	40.8	42.9	90.00	-4,269.3	-32.5	879.5	796.8	82.78	10.625			
17,000.0	12,750.0	16,566.3	12,750.0	41.6	43.8	90.00	-4,369.3	-31.5	879.5	795.1	84.45	10.415			
17,100.0	12,750.0	16,666.3	12,750.0	42.4	44.7	90.00	-4,469.3	-30.5	879.6	793.4	86.12	10.213			
17,200.0	12,750.0	16,766.3	12,750.0	43.1	45.6	90.00	-4,569.3	-29.6	879.6	791.8	87.79	10.018			

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 806H - Slot BOATER FED COM 806H
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 806H	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)					
17,300.0	12,750.0	16,866.3	12,750.0	43.9	46.6	90.00	-4,669.3	-28.6	879.6	790.1	89.47	9.830			
17,400.0	12,750.0	16,966.3	12,750.0	44.7	47.5	90.00	-4,769.3	-27.6	879.6	788.4	91.16	9.649			
17,500.0	12,750.0	17,066.3	12,750.0	45.5	48.4	90.00	-4,869.3	-26.6	879.6	786.7	92.85	9.473			
17,600.0	12,750.0	17,166.3	12,750.0	46.3	49.3	90.00	-4,969.2	-25.7	879.6	785.0	94.54	9.304			
17,700.0	12,750.0	17,266.3	12,750.0	47.1	50.3	90.00	-5,069.2	-24.7	879.6	783.3	96.24	9.140			
17,800.0	12,750.0	17,366.3	12,750.0	47.8	51.2	90.00	-5,169.2	-23.7	879.6	781.6	97.94	8.981			
17,900.0	12,750.0	17,466.3	12,750.0	48.6	52.1	90.00	-5,269.2	-22.7	879.6	779.9	99.64	8.827			
18,000.0	12,750.0	17,566.3	12,750.0	49.4	53.0	90.00	-5,369.2	-21.8	879.6	778.2	101.35	8.679			
18,100.0	12,750.0	17,666.3	12,750.0	50.2	54.0	90.00	-5,469.2	-20.8	879.6	776.5	103.06	8.535			
18,200.0	12,750.0	17,766.3	12,750.0	51.0	54.9	90.00	-5,569.2	-19.8	879.6	774.8	104.78	8.395			
18,300.0	12,750.0	17,866.3	12,750.0	51.8	55.8	90.00	-5,669.2	-18.8	879.6	773.1	106.49	8.260			
18,400.0	12,750.0	17,966.3	12,750.0	52.6	56.8	90.00	-5,769.2	-17.9	879.6	771.4	108.21	8.129			
18,500.0	12,750.0	18,066.3	12,750.0	53.4	57.7	90.00	-5,869.2	-16.9	879.6	769.7	109.94	8.001			
18,600.0	12,750.0	18,166.3	12,750.0	54.2	58.6	90.00	-5,969.2	-15.9	879.6	768.0	111.66	7.878			
18,700.0	12,750.0	18,266.3	12,750.0	55.1	59.6	90.00	-6,069.2	-14.9	879.6	766.2	113.39	7.758			
18,800.0	12,750.0	18,366.3	12,750.0	55.9	60.5	90.00	-6,169.2	-14.0	879.6	764.5	115.12	7.641			
18,900.0	12,750.0	18,466.3	12,750.0	56.7	61.4	90.00	-6,269.2	-13.0	879.6	762.8	116.85	7.528			
19,000.0	12,750.0	18,566.3	12,750.0	57.5	62.4	90.00	-6,369.2	-12.0	879.6	761.1	118.58	7.418			
19,100.0	12,750.0	18,666.3	12,750.0	58.3	63.3	90.00	-6,469.2	-11.0	879.7	759.3	120.32	7.311			
19,200.0	12,750.0	18,766.3	12,750.0	59.1	64.3	90.00	-6,569.2	-10.1	879.7	757.6	122.06	7.207			
19,300.0	12,750.0	18,866.3	12,750.0	59.9	65.2	90.00	-6,669.2	-9.1	879.7	755.9	123.80	7.106			
19,400.0	12,750.0	18,966.3	12,750.0	60.7	66.1	90.00	-6,769.2	-8.1	879.7	754.1	125.54	7.007			
19,500.0	12,750.0	19,066.3	12,750.0	61.6	67.1	90.00	-6,869.2	-7.1	879.7	752.4	127.28	6.911			
19,600.0	12,750.0	19,166.3	12,750.0	62.4	68.0	90.00	-6,969.2	-6.2	879.7	750.7	129.02	6.818			
19,700.0	12,750.0	19,266.3	12,750.0	63.2	69.0	90.00	-7,069.1	-5.2	879.7	748.9	130.77	6.727			
19,800.0	12,750.0	19,366.3	12,750.0	64.0	69.9	90.00	-7,169.1	-4.2	879.7	747.2	132.52	6.638			
19,900.0	12,750.0	19,466.3	12,750.0	64.8	70.9	90.00	-7,269.1	-3.2	879.7	745.4	134.27	6.552			
20,000.0	12,750.0	19,566.3	12,750.0	65.7	71.8	90.00	-7,369.1	-2.3	879.7	743.7	136.02	6.468			
20,100.0	12,750.0	19,666.3	12,750.0	66.5	72.8	90.00	-7,469.1	-1.3	879.7	741.9	137.77	6.385			
20,200.0	12,750.0	19,766.3	12,750.0	67.3	73.7	90.00	-7,569.1	-0.3	879.7	740.2	139.52	6.305			
20,300.0	12,750.0	19,866.3	12,750.0	68.1	74.6	90.00	-7,669.1	0.7	879.7	738.4	141.27	6.227			
20,400.0	12,750.0	19,966.3	12,750.0	69.0	75.6	90.00	-7,769.1	1.6	879.7	736.7	143.03	6.151			
20,500.0	12,750.0	20,066.3	12,750.0	69.8	76.5	90.00	-7,869.1	2.6	879.7	734.9	144.79	6.076			
20,600.0	12,750.0	20,166.3	12,750.0	70.6	77.5	90.00	-7,969.1	3.6	879.7	733.2	146.54	6.003			
20,700.0	12,750.0	20,266.3	12,750.0	71.4	78.4	90.00	-8,069.1	4.5	879.7	731.4	148.30	5.932			
20,800.0	12,750.0	20,366.3	12,750.0	72.3	79.4	90.00	-8,169.1	5.5	879.7	729.7	150.06	5.862			
20,900.0	12,750.0	20,466.3	12,750.0	73.1	80.3	90.00	-8,269.1	6.5	879.7	727.9	151.82	5.795			
21,000.0	12,750.0	20,566.3	12,750.0	73.9	81.3	90.00	-8,369.1	7.5	879.7	726.2	153.58	5.728			
21,100.0	12,750.0	20,666.3	12,750.0	74.8	82.2	90.00	-8,469.1	8.4	879.8	724.4	155.35	5.663			
21,200.0	12,750.0	20,766.3	12,750.0	75.6	83.2	90.00	-8,569.1	9.4	879.8	722.6	157.11	5.600			
21,300.0	12,750.0	20,866.3	12,750.0	76.4	84.1	90.00	-8,669.1	10.4	879.8	720.9	158.87	5.538			
21,400.0	12,750.0	20,966.3	12,750.0	77.3	85.1	90.00	-8,769.1	11.4	879.8	719.1	160.64	5.477			
21,500.0	12,750.0	21,066.3	12,750.0	78.1	86.0	90.00	-8,869.1	12.3	879.8	717.4	162.40	5.417			
21,600.0	12,750.0	21,166.3	12,750.0	78.9	87.0	90.00	-8,969.1	13.3	879.8	715.6	164.17	5.359			
21,700.0	12,750.0	21,266.3	12,750.0	79.8	87.9	90.00	-9,069.1	14.3	879.8	713.8	165.94	5.302			
21,800.0	12,750.0	21,366.3	12,750.0	80.6	88.9	90.00	-9,169.0	15.3	879.8	712.1	167.70	5.246			
21,900.0	12,750.0	21,466.3	12,750.0	81.4	89.8	90.00	-9,269.0	16.2	879.8	710.3	169.47	5.191			
22,000.0	12,750.0	21,566.3	12,750.0	82.3	90.8	90.00	-9,369.0	17.2	879.8	708.6	171.24	5.138			
22,100.0	12,750.0	21,666.3	12,750.0	83.1	91.7	90.00	-9,469.0	18.2	879.8	706.8	173.01	5.085			
22,200.0	12,750.0	21,766.3	12,750.0	83.9	92.7	90.00	-9,569.0	19.2	879.8	705.0	174.78	5.034			
22,300.0	12,750.0	21,866.3	12,750.0	84.8	93.7	90.00	-9,669.0	20.1	879.8	703.3	176.55	4.983			

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 806H - Slot BOATER FED COM 806H
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 806H	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)					
22,400.0	12,750.0	21,966.3	12,750.0	85.6	94.6	90.00	-9,769.0	21.1	879.8	701.5	178.33	4.934			
22,500.0	12,750.0	22,066.3	12,750.0	86.5	95.6	90.00	-9,869.0	22.1	879.8	699.7	180.10	4.885			
22,600.0	12,750.0	22,166.3	12,750.0	87.3	96.5	90.00	-9,969.0	23.1	879.8	698.0	181.87	4.838			
22,700.0	12,750.0	22,266.3	12,750.0	88.1	97.5	90.00	-10,069.0	24.0	879.8	696.2	183.64	4.791			
22,800.0	12,750.0	22,366.3	12,750.0	89.0	98.4	90.00	-10,169.0	25.0	879.8	694.4	185.42	4.745			
22,900.0	12,750.0	22,466.3	12,750.0	89.8	99.4	90.00	-10,269.0	26.0	879.8	692.6	187.19	4.700			
23,000.0	12,750.0	22,566.3	12,750.0	90.7	100.3	90.00	-10,369.0	27.0	879.8	690.9	188.97	4.656			
23,100.0	12,750.0	22,666.3	12,750.0	91.5	101.3	90.00	-10,469.0	27.9	879.9	689.1	190.74	4.613			
23,200.0	12,750.0	22,766.3	12,750.0	92.3	102.2	90.00	-10,569.0	28.9	879.9	687.3	192.52	4.570			
23,300.0	12,750.0	22,866.3	12,750.0	93.2	103.2	90.00	-10,669.0	29.9	879.9	685.6	194.30	4.528			
23,400.0	12,750.0	22,966.3	12,750.0	94.0	104.2	90.00	-10,769.0	30.9	879.9	683.8	196.07	4.487			
23,500.0	12,750.0	23,066.3	12,750.0	94.9	105.1	90.00	-10,869.0	31.8	879.9	682.0	197.85	4.447			
23,600.0	12,750.0	23,166.3	12,750.0	95.7	106.1	90.00	-10,969.0	32.8	879.9	680.2	199.63	4.408			
23,700.0	12,750.0	23,266.3	12,750.0	96.6	107.0	90.00	-11,069.0	33.8	879.9	678.5	201.41	4.369			
23,800.0	12,750.0	23,366.3	12,750.0	97.4	108.0	90.00	-11,169.0	34.8	879.9	676.7	203.18	4.330			
23,900.0	12,750.0	23,466.3	12,750.0	98.2	108.9	90.00	-11,268.9	35.7	879.9	674.9	204.96	4.293			
24,000.0	12,750.0	23,566.3	12,750.0	99.1	109.9	90.00	-11,368.9	36.7	879.9	673.2	206.74	4.256			
24,100.0	12,750.0	23,666.3	12,750.0	99.9	110.8	90.00	-11,468.9	37.7	879.9	671.4	208.52	4.220			
24,200.0	12,750.0	23,766.3	12,750.0	100.8	111.8	90.00	-11,568.9	38.6	879.9	669.6	210.30	4.184			
24,300.0	12,750.0	23,866.3	12,750.0	101.6	112.8	90.00	-11,668.9	39.6	879.9	667.8	212.08	4.149			
24,400.0	12,750.0	23,966.3	12,750.0	102.5	113.7	90.00	-11,768.9	40.6	879.9	666.1	213.86	4.114			
24,500.0	12,750.0	24,066.3	12,750.0	103.3	114.7	90.00	-11,868.9	41.6	879.9	664.3	215.65	4.080			
24,600.0	12,750.0	24,166.3	12,750.0	104.1	115.6	90.00	-11,968.9	42.5	879.9	662.5	217.43	4.047			
24,700.0	12,750.0	24,266.3	12,750.0	105.0	116.6	90.00	-12,068.9	43.5	879.9	660.7	219.21	4.014			
24,800.0	12,750.0	24,366.3	12,750.0	105.8	117.5	90.00	-12,168.9	44.5	879.9	658.9	220.99	3.982			
24,900.0	12,750.0	24,466.3	12,750.0	106.7	118.5	90.00	-12,268.9	45.5	879.9	657.2	222.77	3.950			
25,000.0	12,750.0	24,566.3	12,750.0	107.5	119.5	90.00	-12,368.9	46.4	879.9	655.4	224.56	3.919			
25,100.0	12,750.0	24,666.3	12,750.0	108.4	120.4	90.00	-12,468.9	47.4	880.0	653.6	226.34	3.888			
25,200.0	12,750.0	24,766.3	12,750.0	109.2	121.4	90.00	-12,568.9	48.4	880.0	651.8	228.12	3.857			
25,300.0	12,750.0	24,866.3	12,750.0	110.1	122.3	90.00	-12,668.9	49.4	880.0	650.1	229.90	3.828			
25,400.0	12,750.0	24,966.3	12,750.0	110.9	123.3	90.00	-12,768.9	50.3	880.0	648.3	231.69	3.798			
25,500.0	12,750.0	25,066.3	12,750.0	111.8	124.2	90.00	-12,868.9	51.3	880.0	646.5	233.47	3.769			
25,600.0	12,750.0	25,166.3	12,750.0	112.6	125.2	90.00	-12,968.9	52.3	880.0	644.7	235.26	3.740			
25,700.0	12,750.0	25,266.3	12,750.0	113.4	126.2	90.00	-13,068.9	53.3	880.0	642.9	237.04	3.712			
25,800.0	12,750.0	25,366.3	12,750.0	114.3	127.1	90.00	-13,168.9	54.2	880.0	641.2	238.83	3.685			
25,900.0	12,750.0	25,466.3	12,750.0	115.1	128.1	90.00	-13,268.9	55.2	880.0	639.4	240.61	3.657			
26,000.0	12,750.0	25,566.3	12,750.0	116.0	129.0	90.00	-13,368.8	56.2	880.0	637.6	242.40	3.630			
26,005.0	12,750.0	25,571.3	12,750.0	116.0	129.1	90.00	-13,373.9	56.2	880.0	637.5	242.49	3.629			
26,058.0	12,750.0	25,621.7	12,750.0	116.5	129.6	90.00	-13,424.2	56.7	880.0	636.6	243.39	3.616 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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 TB FEDERAL - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 138-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,100.0	12,750.0	17,374.0	12,401.8	66.5	53.7	-29.42	-8,285.3	1,082.8	918.2	851.9	66.36	13.837			
20,200.0	12,750.0	17,374.0	12,401.8	67.3	53.7	-29.42	-8,285.3	1,082.8	829.4	759.6	69.80	11.882			
20,300.0	12,750.0	17,374.0	12,401.8	68.1	53.7	-29.42	-8,285.3	1,082.8	743.3	669.2	74.09	10.032			
20,400.0	12,750.0	17,374.0	12,401.8	69.0	53.7	-29.42	-8,285.3	1,082.8	661.2	581.7	79.48	8.319			
20,500.0	12,750.0	17,374.0	12,401.8	69.8	53.7	-29.42	-8,285.3	1,082.8	584.7	498.5	86.13	6.788			
20,600.0	12,750.0	17,374.0	12,401.8	70.6	53.7	-29.42	-8,285.3	1,082.8	516.3	422.2	94.07	5.488			
20,700.0	12,750.0	17,374.0	12,401.8	71.4	53.7	-29.42	-8,285.3	1,082.8	459.5	356.8	102.74	4.473			
20,800.0	12,750.0	17,374.0	12,401.8	72.3	53.7	-29.42	-8,285.3	1,082.8	419.3	308.8	110.55	3.793			
20,900.0	12,750.0	17,374.0	12,401.8	73.1	53.7	-29.42	-8,285.3	1,082.8	400.7	285.7	114.93	3.486			
20,926.7	12,750.0	17,374.0	12,401.8	73.3	53.7	-29.42	-8,285.3	1,082.8	399.8	284.6	115.21	3.470			
21,000.0	12,750.0	17,305.6	12,401.0	73.9	53.1	-29.35	-8,353.7	1,083.4	400.4	285.4	115.03	3.481			
21,100.0	12,750.0	17,214.4	12,398.3	74.8	52.4	-29.15	-8,444.8	1,084.2	403.0	288.3	114.72	3.513			
21,200.0	12,750.0	17,110.5	12,394.3	75.6	51.5	-28.82	-8,548.6	1,084.8	406.1	291.8	114.35	3.552			
21,300.0	12,750.0	17,003.9	12,392.0	76.4	50.6	-28.53	-8,655.2	1,084.7	407.5	293.5	113.99	3.575			
21,400.0	12,750.0	16,904.8	12,390.3	77.3	49.7	-28.24	-8,754.3	1,084.2	408.3	294.6	113.67	3.592			
21,500.0	12,750.0	16,803.5	12,388.4	78.1	48.9	-27.98	-8,855.5	1,084.1	409.4	296.1	113.37	3.612			
21,600.0	12,750.0	16,699.6	12,387.5	78.9	48.0	-27.76	-8,959.5	1,083.9	409.7	296.6	113.07	3.623			
21,700.0	12,750.0	16,595.3	12,387.2	79.8	47.1	-27.49	-9,063.7	1,082.8	409.0	296.2	112.74	3.628			
21,800.0	12,750.0	16,497.3	12,387.3	80.6	46.3	-27.19	-9,161.7	1,081.4	407.8	295.3	112.49	3.625			
21,861.0	12,750.0	16,439.3	12,387.2	81.1	45.8	-27.10	-9,219.7	1,081.3	407.6	295.1	112.41	3.626			
21,900.0	12,750.0	16,402.6	12,387.1	81.4	45.5	-27.10	-9,256.5	1,081.7	407.7	295.3	112.40	3.627			
22,000.0	12,750.0	16,302.1	12,387.1	82.3	44.7	-27.29	-9,356.9	1,084.1	408.3	295.8	112.44	3.631			
22,100.0	12,750.0	16,201.1	12,388.0	83.1	43.9	-27.62	-9,457.8	1,087.4	408.6	296.0	112.59	3.629			
22,200.0	12,750.0	16,100.8	12,389.0	83.9	43.1	-27.98	-9,558.1	1,090.7	408.7	296.0	112.78	3.624			
22,300.0	12,750.0	15,999.8	12,390.8	84.8	42.3	-28.49	-9,659.0	1,094.9	408.7	295.6	113.09	3.614			
22,336.8	12,750.0	15,963.4	12,391.5	85.1	42.0	-28.72	-9,695.3	1,096.6	408.7	295.5	113.25	3.609			
22,400.0	12,750.0	15,901.6	12,392.8	85.6	41.5	-29.09	-9,757.1	1,099.6	408.8	295.3	113.52	3.601			
22,500.0	12,750.0	15,808.2	12,394.2	86.5	40.7	-29.79	-9,850.3	1,105.4	410.1	295.9	114.11	3.594			
22,600.0	12,750.0	15,704.1	12,395.3	87.3	39.9	-30.47	-9,954.2	1,111.5	411.5	296.9	114.58	3.592			
22,700.0	12,750.0	15,601.7	12,396.7	88.1	39.1	-31.03	-10,056.4	1,116.3	412.3	297.3	115.02	3.584			
22,800.0	12,750.0	15,499.8	12,398.9	89.0	38.4	-31.66	-10,158.2	1,121.3	412.5	297.0	115.53	3.571			
22,900.0	12,750.0	15,394.7	12,401.8	89.8	37.6	-32.34	-10,263.1	1,126.3	412.2	296.1	116.04	3.552			
23,000.0	12,750.0	15,286.1	12,406.3	90.7	36.8	-32.96	-10,371.5	1,129.8	409.9	293.5	116.43	3.520			
23,100.0	12,750.0	15,173.5	12,413.1	91.5	36.0	-33.60	-10,484.0	1,131.8	405.3	288.6	116.67	3.474			
23,200.0	12,750.0	15,072.9	12,421.7	92.3	35.2	-34.38	-10,584.2	1,133.6	398.6	281.2	117.41	3.395			
23,300.0	12,750.0	14,973.1	12,430.4	93.2	34.5	-35.24	-10,683.6	1,135.7	392.1	273.9	118.28	3.315			
23,400.0	12,750.0	14,873.0	12,439.3	94.0	33.9	-36.15	-10,783.2	1,137.9	385.6	266.4	119.21	3.235			
23,500.0	12,750.0	14,778.0	12,447.3	94.9	33.2	-37.02	-10,877.9	1,140.1	379.7	259.3	120.34	3.155			
23,600.0	12,750.0	14,694.9	12,451.5	95.7	32.7	-37.56	-10,960.9	1,142.2	376.6	255.0	121.60	3.097			
23,700.0	12,750.0	14,587.7	12,453.1	96.6	32.0	-37.70	-11,068.0	1,143.2	375.4	253.5	121.83	3.081			
23,800.0	12,750.0	14,486.0	12,454.5	97.4	31.4	-37.43	-11,169.7	1,140.9	372.3	250.4	121.91	3.054			
23,889.9	12,750.0	14,407.6	12,453.8	98.2	30.9	-37.01	-11,248.1	1,138.7	371.0	248.7	122.25	3.034			
23,900.0	12,750.0	14,398.6	12,453.5	98.2	30.9	-36.94	-11,257.0	1,138.5	371.0	248.7	122.26	3.034			
24,000.0	12,750.0	14,300.6	12,450.0	99.1	30.3	-36.14	-11,354.9	1,135.6	371.5	249.5	122.05	3.044			
24,100.0	12,750.0	14,207.0	12,446.2	99.9	29.8	-35.53	-11,448.5	1,134.3	373.4	251.3	122.08	3.058			
24,200.0	12,750.0	14,099.0	12,441.7	100.8	29.2	-34.65	-11,556.3	1,131.6	374.8	253.3	121.54	3.084			
24,300.0	12,750.0	13,995.7	12,437.7	101.6	28.7	-33.62	-11,659.5	1,127.1	375.0	254.0	120.97	3.100			
24,400.0	12,750.0	13,884.9	12,435.6	102.5	28.2	-32.68	-11,770.1	1,122.3	373.7	253.6	120.18	3.110			
24,500.0	12,750.0	13,774.6	12,438.0	103.3	27.7	-32.03	-11,880.2	1,116.8	368.6	249.1	119.56	3.083			
24,600.0	12,750.0	13,672.2	12,440.8	104.1	27.3	-31.22	-11,982.3	1,110.1	362.4	243.3	119.13	3.042			
24,700.0	12,750.0	13,566.0	12,444.0	105.0	26.9	-30.14	-12,088.2	1,101.3	355.1	236.9	118.22	3.004			

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 TB FEDERAL - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 138-r.5 MWD+IFR1													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	13,471.6	12,447.3	105.8	26.5	-29.13	-12,182.1	1,093.3	347.3	229.2	118.03	2.942	Normal Operations	
24,900.0	12,750.0	13,379.2	12,449.7	106.7	26.2	-28.35	-12,274.4	1,087.6	341.6	223.5	118.13	2.892	Normal Operations	
25,000.0	12,750.0	13,280.5	12,451.4	107.5	25.9	-27.66	-12,373.0	1,083.0	337.4	219.4	117.99	2.860	Normal Operations	
25,100.0	12,750.0	13,179.8	12,453.4	108.4	25.6	-26.98	-12,473.5	1,078.4	333.1	215.4	117.76	2.829	Normal Operations	
25,200.0	12,750.0	13,076.7	12,456.2	109.2	25.4	-26.33	-12,576.4	1,073.9	328.3	210.8	117.44	2.795	Normal Operations	
25,300.0	12,750.0	12,975.9	12,459.7	110.1	25.1	-25.51	-12,677.1	1,068.0	322.1	205.1	117.06	2.752	Normal Operations	
25,341.9	12,750.0	12,952.0	12,459.9	110.4	25.1	-25.26	-12,700.9	1,066.6	320.8	202.8	117.96	2.719	Normal Operations, CC, ES, SF	
25,400.0	12,750.0	12,911.9	12,457.9	110.9	25.0	-24.75	-12,740.9	1,064.7	322.1	203.8	118.33	2.722	Normal Operations	
25,500.0	12,750.0	12,857.0	12,450.6	111.8	24.9	-23.85	-12,795.2	1,063.0	333.5	215.2	118.27	2.820	Normal Operations	
25,600.0	12,750.0	12,789.1	12,434.7	112.6	24.8	-22.74	-12,861.2	1,063.4	355.5	238.5	117.04	3.038		
25,700.0	12,750.0	12,731.9	12,415.9	113.4	24.8	-21.98	-12,915.1	1,066.7	387.9	272.7	115.23	3.367		
25,800.0	12,750.0	12,668.0	12,389.1	114.3	24.8	-21.22	-12,972.8	1,072.4	429.5	316.1	113.45	3.786		
25,900.0	12,750.0	12,619.1	12,365.4	115.1	24.8	-20.67	-13,015.2	1,077.9	477.8	366.8	110.99	4.305		
26,000.0	12,750.0	12,574.0	12,342.0	116.0	24.9	-20.20	-13,053.4	1,083.2	531.3	422.9	108.38	4.902		
26,058.0	12,750.0	12,531.1	12,318.0	116.5	24.9	-19.69	-13,088.6	1,088.1	564.1	456.1	107.96	5.225		

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 806H - Slot BOATER FED COM 806H
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 806H	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		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)					
20,800.0	12,750.0	17,340.0	12,385.3	72.3	53.3	68.40	-8,275.4	-34.6	996.1	872.5	123.58	8.060			
20,900.0	12,750.0	17,324.7	12,386.2	73.1	53.2	68.44	-8,290.6	-34.4	990.4	866.1	124.27	7.970			
21,000.0	12,750.0	17,226.9	12,391.7	73.9	52.3	68.74	-8,388.2	-33.5	988.3	863.9	124.44	7.942			
21,100.0	12,750.0	17,125.0	12,395.6	74.8	51.4	68.94	-8,490.1	-31.8	986.3	861.7	124.60	7.916			
21,200.0	12,750.0	17,029.6	12,397.9	75.6	50.6	69.04	-8,585.4	-29.9	984.5	859.7	124.77	7.890			
21,300.0	12,750.0	16,925.7	12,399.6	76.4	49.6	69.10	-8,689.3	-27.5	982.6	857.7	124.95	7.864			
21,400.0	12,750.0	16,826.5	12,400.4	77.3	48.8	69.11	-8,788.4	-24.7	980.6	855.5	125.14	7.837			
21,500.0	12,750.0	16,726.2	12,400.5	78.1	47.9	69.07	-8,888.7	-21.7	978.7	853.4	125.34	7.809			
21,600.0	12,750.0	16,626.5	12,399.7	78.9	47.0	68.98	-8,988.3	-18.2	976.7	851.2	125.54	7.780			
21,700.0	12,750.0	16,535.6	12,398.3	79.8	46.2	68.86	-9,079.2	-15.2	975.0	849.3	125.77	7.752			
21,754.0	12,750.0	16,491.4	12,398.1	80.2	45.8	68.84	-9,123.4	-14.4	974.8	848.9	125.91	7.742 CC			
21,800.0	12,750.0	16,456.2	12,398.1	80.6	45.5	68.84	-9,158.6	-14.3	975.0	849.0	126.03	7.736			
21,900.0	12,750.0	16,380.0	12,398.4	81.4	44.9	68.91	-9,234.8	-15.8	977.5	851.3	126.27	7.741			
22,000.0	12,750.0	16,281.1	12,399.3	82.3	44.0	69.05	-9,333.6	-19.3	981.4	854.8	126.65	7.749			
22,100.0	12,750.0	16,168.2	12,401.1	83.1	43.1	69.23	-9,446.5	-22.2	984.2	857.1	127.12	7.742			
22,200.0	12,750.0	16,076.0	12,400.7	83.9	42.3	69.26	-9,538.6	-23.8	986.9	859.4	127.47	7.742			
22,300.0	12,750.0	15,989.1	12,398.9	84.8	41.6	69.22	-9,625.5	-25.8	990.6	862.8	127.79	7.752			
22,400.0	12,750.0	15,904.7	12,398.0	85.6	40.9	69.27	-9,709.8	-29.4	995.9	867.8	128.12	7.773			
23,000.0	12,750.0	15,190.1	12,430.2	90.7	35.2	71.28	-10,422.9	-36.5	998.0	865.8	132.14	7.552			
23,100.0	12,750.0	15,090.2	12,437.1	91.5	34.4	71.60	-10,522.5	-32.2	992.6	859.8	132.86	7.471			
23,200.0	12,750.0	14,996.3	12,442.4	92.3	33.7	71.83	-10,616.2	-28.0	987.5	853.9	133.59	7.392			
23,300.0	12,750.0	14,910.3	12,446.4	93.2	33.0	72.01	-10,702.1	-24.8	983.4	849.1	134.33	7.321			
23,400.0	12,750.0	14,824.1	12,448.5	94.0	32.4	72.10	-10,788.2	-22.3	980.9	845.8	135.02	7.264			
23,500.0	12,750.0	14,732.5	12,450.3	94.9	31.7	72.18	-10,879.8	-20.6	979.5	843.7	135.73	7.216			
23,600.0	12,750.0	14,641.2	12,451.8	95.7	31.1	72.26	-10,971.1	-19.5	978.8	842.3	136.44	7.174			
23,612.3	12,750.0	14,630.4	12,451.9	95.8	31.0	72.27	-10,981.8	-19.5	978.8	842.2	136.53	7.169			
23,700.0	12,750.0	14,544.4	12,452.9	96.6	30.4	72.34	-11,067.8	-19.3	979.1	841.9	137.18	7.137			
23,800.0	12,750.0	14,437.9	12,455.0	97.4	29.7	72.46	-11,174.3	-18.5	978.8	840.8	137.99	7.093			
23,900.0	12,750.0	14,333.2	12,456.2	98.2	29.0	72.52	-11,279.0	-17.2	978.1	839.3	138.78	7.048			
24,000.0	12,750.0	14,233.1	12,456.8	99.1	28.4	72.54	-11,379.1	-15.3	977.0	837.5	139.56	7.001			
24,100.0	12,750.0	14,135.0	12,456.7	99.9	27.8	72.52	-11,477.1	-13.4	976.2	835.8	140.34	6.956			
24,200.0	12,750.0	14,037.6	12,456.0	100.8	27.2	72.46	-11,574.5	-11.5	975.5	834.4	141.12	6.913			
24,300.0	12,750.0	13,940.9	12,454.0	101.6	26.7	72.33	-11,671.1	-9.6	975.1	833.3	141.87	6.873			
24,346.1	12,750.0	13,896.6	12,452.9	102.0	26.5	72.26	-11,715.5	-8.8	975.1	832.9	142.22	6.856			
24,400.0	12,750.0	13,844.7	12,451.6	102.5	26.2	72.18	-11,767.4	-7.9	975.2	832.5	142.63	6.837 ES			
24,500.0	12,750.0	13,762.0	12,448.7	103.3	25.8	72.02	-11,850.0	-7.0	976.1	832.8	143.32	6.811			
24,600.0	12,750.0	13,684.9	12,445.3	104.1	25.5	71.85	-11,927.0	-7.6	979.3	835.3	143.93	6.804 SF			
24,700.0	12,750.0	13,604.6	12,442.5	105.0	25.1	71.77	-12,007.2	-10.6	984.7	840.2	144.56	6.812			
24,800.0	12,750.0	13,507.4	12,440.4	105.8	24.8	71.76	-12,104.2	-15.9	991.5	846.1	145.42	6.818			
24,900.0	12,750.0	13,414.5	12,439.8	106.7	24.5	71.84	-12,197.0	-20.9	997.8	851.6	146.28	6.822			

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - DUO SONIC 29 FEDERAL #4H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 1149-r.5 MWD													Offset Well Error:	3.0 usft
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)				
10,100.0	10,036.0	13,533.7	10,977.2	16.7	48.3	-88.28	33.5	689.3	948.3	895.5	52.85	17.944		
10,200.0	10,136.0	13,532.9	10,977.2	16.7	48.3	-88.67	32.7	689.3	849.2	796.0	53.19	15.964		
10,300.0	10,236.0	13,532.2	10,977.2	16.8	48.3	-89.03	31.9	689.3	750.2	696.6	53.59	14.001		
10,400.0	10,336.0	13,531.5	10,977.2	16.9	48.3	-89.38	31.2	689.4	651.6	597.6	54.05	12.056		
10,500.0	10,436.0	13,530.8	10,977.2	16.9	48.3	-89.72	30.6	689.4	553.5	498.9	54.63	10.132		
10,600.0	10,536.0	13,530.1	10,977.2	17.0	48.3	-90.04	29.9	689.4	456.2	400.7	55.42	8.232		
10,700.0	10,636.0	13,529.5	10,977.2	17.1	48.3	-90.34	29.3	689.4	360.3	303.7	56.61	6.365		
10,800.0	10,736.0	13,528.9	10,977.2	17.1	48.3	-90.63	28.7	689.4	267.5	208.8	58.73	4.555		
10,900.0	10,836.0	13,528.4	10,977.2	17.2	48.3	-90.91	28.2	689.4	182.5	119.4	63.15	2.891 Normal Operations		
11,000.0	10,936.0	13,527.8	10,977.2	17.2	48.3	-91.18	27.6	689.4	122.7	51.9	70.87	1.732 Caution - Monitor Closely		
11,041.3	10,977.2	13,527.6	10,977.2	17.3	48.3	-91.29	27.4	689.4	115.6	43.7	71.86	1.608 Caution - Monitor Closely, CC, ES, SF		
11,100.0	11,036.0	13,527.3	10,977.2	17.3	48.2	-91.43	27.1	689.4	129.6	62.0	67.66	1.916 Caution - Monitor Closely		
11,200.0	11,136.0	13,526.8	10,977.2	17.4	48.2	-91.68	26.6	689.5	196.3	136.4	59.93	3.276		
11,300.0	11,236.0	13,526.3	10,977.2	17.4	48.2	-91.92	26.1	689.5	283.4	226.2	57.13	4.960		
11,400.0	11,336.0	13,525.9	10,977.2	17.5	48.2	-92.14	25.7	689.5	376.9	320.6	56.27	6.698		
11,500.0	11,436.0	13,525.4	10,977.2	17.6	48.2	-92.36	25.2	689.5	473.1	417.0	56.06	8.438		
11,600.0	11,536.0	13,525.0	10,977.2	17.6	48.2	-92.57	24.8	689.5	570.5	514.4	56.12	10.167		
11,700.0	11,636.0	13,524.6	10,977.2	17.7	48.2	-92.78	24.4	689.5	668.8	612.5	56.29	11.880		
11,800.0	11,736.0	13,524.2	10,977.2	17.8	48.2	-92.97	24.0	689.5	767.5	710.9	56.53	13.576		
11,900.0	11,836.0	13,523.8	10,977.3	17.8	48.2	-93.16	23.6	689.5	866.5	809.6	56.81	15.253		
12,000.0	11,936.0	13,523.5	10,977.3	17.9	48.2	-93.34	23.3	689.5	965.6	908.5	57.10	16.911		

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #602H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 99-Standard Keeper 104, 1235-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset 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)				
11,800.0	11,736.0	20,064.4	12,559.6	17.8	63.2	-95.92	-14.6	374.7	930.4	816.9	113.46	8.200		
11,900.0	11,836.0	20,062.3	12,559.7	17.8	63.2	-95.64	-12.5	374.6	843.1	729.4	113.70	7.416		
12,000.0	11,936.0	20,060.2	12,559.7	17.9	63.1	-95.36	-10.4	374.4	759.0	645.3	113.72	6.674		
12,100.0	12,036.0	20,058.1	12,559.8	18.0	63.1	-95.09	-8.4	374.3	679.2	565.9	113.37	5.991		
12,200.0	12,136.0	20,056.1	12,559.8	18.0	63.1	-94.82	-6.3	374.2	605.5	493.1	112.35	5.389		
12,300.0	12,236.0	20,054.1	12,559.9	18.1	63.1	-94.55	-4.3	374.1	540.2	430.0	110.22	4.901		
12,336.5	12,272.5	20,053.3	12,559.9	18.1	63.1	-94.45	-3.6	374.0	519.1	410.0	109.05	4.760		
12,350.0	12,285.9	20,053.2	12,559.9	18.1	63.1	87.17	-3.5	374.0	511.8	403.2	108.56	4.714		
12,375.0	12,310.9	20,054.0	12,559.9	18.1	63.1	88.89	-4.2	374.1	498.8	391.2	107.57	4.637		
12,400.0	12,335.8	20,055.9	12,559.8	18.1	63.1	90.30	-6.1	374.2	486.7	380.2	106.46	4.572		
12,425.0	12,360.4	20,059.0	12,559.8	18.1	63.1	91.38	-9.2	374.4	475.6	370.4	105.24	4.519		
12,450.0	12,384.9	20,063.2	12,559.7	18.1	63.2	92.13	-13.4	374.6	465.6	361.7	103.92	4.481		
12,475.0	12,409.0	20,068.6	12,559.5	18.1	63.2	92.58	-18.8	375.0	456.7	354.2	102.50	4.456		
12,500.0	12,432.8	20,075.1	12,559.4	18.1	63.2	92.72	-25.3	375.3	449.0	348.0	101.01	4.446 SF		
12,525.0	12,456.1	20,082.7	12,559.2	18.1	63.3	92.58	-32.9	375.8	442.6	343.1	99.46	4.450		
12,550.0	12,478.9	20,091.4	12,559.0	18.0	63.4	92.16	-41.6	376.2	437.3	339.4	97.89	4.467		
12,575.0	12,501.2	20,101.1	12,558.8	18.0	63.4	91.48	-51.3	376.7	433.3	337.0	96.33	4.498		
12,600.0	12,522.8	20,111.9	12,558.5	18.0	63.5	90.57	-62.0	377.2	430.5	335.7	94.80	4.541		
12,625.0	12,543.7	20,123.6	12,558.2	18.0	63.6	89.44	-73.7	377.8	428.7	335.4	93.34	4.593 ES		
12,650.0	12,563.9	20,139.0	12,557.8	18.0	63.7	87.83	-89.1	378.4	428.0	336.0	92.04	4.651		
12,654.8	12,567.7	20,139.0	12,557.8	18.0	63.7	87.84	-89.1	378.4	428.0	336.3	91.72	4.667 CC		
12,675.0	12,583.3	20,152.0	12,557.4	18.0	63.8	86.43	-102.1	379.0	428.3	337.5	90.77	4.719		
12,700.0	12,601.9	20,169.3	12,556.8	18.0	63.9	84.55	-119.3	379.7	429.3	339.6	89.71	4.786		
12,725.0	12,619.5	20,187.4	12,556.2	18.0	64.0	82.58	-137.5	380.5	431.0	342.2	88.78	4.854		
12,750.0	12,636.2	20,206.5	12,555.6	18.0	64.1	80.57	-156.5	381.5	433.1	345.2	87.99	4.923		
12,775.0	12,651.9	20,225.7	12,554.8	18.0	64.3	78.60	-175.7	382.4	435.7	348.4	87.33	4.989		
12,800.0	12,666.5	20,245.4	12,554.1	18.1	64.4	76.68	-195.3	383.5	438.6	351.8	86.80	5.053		
12,825.0	12,680.1	20,265.8	12,553.3	18.1	64.6	74.80	-215.7	384.5	441.7	355.3	86.40	5.112		
12,850.0	12,692.6	20,271.0	12,553.1	18.1	64.6	74.04	-220.9	384.8	445.1	359.2	85.90	5.182		
12,875.0	12,703.9	20,271.0	12,553.1	18.1	64.6	73.52	-220.9	384.8	449.5	364.2	85.31	5.269		
12,900.0	12,714.0	20,271.0	12,553.1	18.1	64.6	72.89	-220.9	384.8	454.9	370.2	84.70	5.371		
12,925.0	12,722.9	20,271.0	12,553.1	18.2	64.6	72.14	-220.9	384.8	461.2	377.2	84.03	5.488		
12,950.0	12,730.6	20,271.0	12,553.1	18.2	64.6	71.29	-220.9	384.8	468.4	385.1	83.30	5.622		
12,975.0	12,737.0	20,271.0	12,553.1	18.2	64.6	70.33	-220.9	384.8	476.3	393.8	82.50	5.774		
13,000.0	12,742.1	20,271.0	12,553.1	18.3	64.6	69.28	-220.9	384.8	485.1	403.5	81.62	5.943		
13,025.0	12,746.0	20,271.0	12,553.1	18.3	64.6	68.15	-220.9	384.8	494.5	413.8	80.66	6.131		
13,050.0	12,748.6	20,271.0	12,553.1	18.4	64.6	66.93	-220.9	384.8	504.5	424.9	79.62	6.337		
13,075.0	12,749.8	20,271.0	12,553.1	18.4	64.6	65.64	-220.9	384.8	515.2	436.7	78.50	6.563		
13,086.5	12,750.0	20,271.0	12,553.1	18.4	64.6	65.03	-220.9	384.8	520.2	442.3	77.96	6.673		
13,100.0	12,750.0	20,271.0	12,553.1	18.5	64.6	65.03	-220.9	384.8	526.3	449.0	77.31	6.808		
13,200.0	12,750.0	20,271.0	12,553.1	18.7	64.6	65.03	-220.9	384.8	579.5	507.2	72.37	8.008		
13,300.0	12,750.0	20,271.0	12,553.1	19.0	64.6	65.03	-220.9	384.8	644.0	576.3	67.68	9.515		
13,400.0	12,750.0	20,271.0	12,553.1	19.3	64.6	65.03	-220.9	384.8	716.6	653.0	63.60	11.268		
13,500.0	12,750.0	20,271.0	12,553.1	19.6	64.6	65.03	-220.9	384.8	795.2	735.0	60.20	13.210		
13,600.0	12,750.0	20,271.0	12,553.1	20.0	64.6	65.03	-220.9	384.8	878.2	820.7	57.43	15.292		
13,700.0	12,750.0	20,271.0	12,553.1	20.4	64.6	65.03	-220.9	384.8	964.4	909.2	55.19	17.473		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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 Reference 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	
12,000.0	11,936.0	19,831.2	12,313.2	17.9	59.9	-94.82	-46.3	-99.1	982.6	893.1	89.54	10.974		
12,100.0	12,036.0	19,821.2	12,314.2	18.0	59.8	-94.19	-36.3	-99.5	948.7	860.0	88.69	10.696		
12,200.0	12,136.0	19,811.8	12,315.1	18.0	59.7	-93.60	-27.0	-99.9	924.3	836.3	87.99	10.504		
12,300.0	12,236.0	19,803.0	12,316.0	18.1	59.7	-93.05	-18.2	-100.3	910.1	822.6	87.52	10.400		
12,336.5	12,272.5	19,800.0	12,316.3	18.1	59.6	-92.86	-15.2	-100.5	907.7	820.2	87.41	10.384		
12,350.0	12,285.9	19,799.0	12,316.3	18.1	59.6	87.83	-14.2	-100.5	907.1	819.7	87.38	10.381		
12,375.0	12,310.9	19,798.2	12,316.4	18.1	59.6	87.95	-13.4	-100.6	906.6	819.2	87.35	10.378		
12,383.7	12,319.6	19,798.2	12,316.4	18.1	59.6	87.95	-13.4	-100.6	906.5	819.2	87.35	10.378	CC, ES, SF	
12,400.0	12,335.8	19,798.5	12,316.4	18.1	59.6	87.92	-13.7	-100.5	906.6	819.3	87.35	10.379		
12,425.0	12,360.4	19,800.0	12,316.2	18.1	59.6	87.73	-15.2	-100.5	907.4	820.0	87.38	10.384		
12,450.0	12,384.9	19,802.6	12,316.0	18.1	59.7	87.41	-17.8	-100.4	908.8	821.3	87.45	10.392		
12,475.0	12,409.0	19,806.3	12,315.7	18.1	59.7	86.94	-21.4	-100.2	910.7	823.2	87.54	10.403		
12,500.0	12,432.8	19,811.0	12,315.2	18.1	59.7	86.34	-26.1	-100.0	913.3	825.6	87.67	10.418		
12,525.0	12,456.1	19,816.7	12,314.7	18.1	59.8	85.62	-31.8	-99.7	916.4	828.6	87.82	10.435		
12,550.0	12,478.9	19,823.4	12,314.0	18.0	59.8	84.78	-38.5	-99.5	920.1	832.1	88.00	10.456		
12,575.0	12,501.2	19,831.0	12,313.2	18.0	59.9	83.83	-46.1	-99.1	924.2	836.0	88.20	10.479		
12,600.0	12,522.8	19,839.6	12,312.3	18.0	59.9	82.79	-54.5	-98.8	928.7	840.3	88.42	10.504		
12,625.0	12,543.7	19,857.0	12,310.4	18.0	60.1	81.23	-71.9	-98.1	933.7	845.0	88.73	10.524		
12,650.0	12,563.9	19,857.0	12,310.4	18.0	60.1	80.59	-71.9	-98.1	939.0	850.1	88.89	10.563		
12,675.0	12,583.3	19,870.4	12,308.9	18.0	60.2	79.22	-85.2	-97.6	944.5	855.3	89.17	10.592		
12,700.0	12,601.9	19,882.4	12,307.5	18.0	60.2	77.93	-97.0	-97.2	950.3	860.8	89.45	10.623		
12,725.0	12,619.5	19,895.1	12,306.0	18.0	60.3	76.61	-109.7	-96.8	956.2	866.5	89.73	10.656		
12,750.0	12,636.2	19,908.6	12,304.3	18.0	60.4	75.27	-123.0	-96.4	962.2	872.2	90.02	10.689		
12,775.0	12,651.9	19,922.7	12,302.6	18.0	60.5	73.94	-137.1	-96.0	968.3	878.0	90.31	10.721		
12,800.0	12,666.5	19,937.6	12,300.6	18.1	60.7	72.63	-151.8	-95.6	974.4	883.7	90.61	10.754		
12,825.0	12,680.1	19,954.2	12,298.4	18.1	60.8	71.30	-168.2	-95.2	980.3	889.4	90.91	10.783		
12,850.0	12,692.6	19,974.0	12,295.8	18.1	60.9	69.94	-187.9	-94.8	986.2	894.9	91.25	10.808		
12,875.0	12,703.9	19,994.6	12,293.1	18.1	61.1	68.64	-208.3	-94.3	991.7	900.2	91.58	10.829		
12,900.0	12,714.0	20,007.0	12,291.4	18.1	61.2	67.67	-220.6	-94.0	997.0	905.2	91.80	10.861		

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - TELE DELUX 32 STATE 4H - OWB - AWP														Offset Site Error:	3.0 usft
Survey Program: 100-MWD - OWSG R1														Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)					
15,100.0	12,750.0	12,185.0	12,183.7	28.0	42.6	12.20	-3,229.2	714.5	961.4	901.1	60.25	15.957			
15,200.0	12,750.0	12,216.0	12,208.3	28.6	42.7	12.97	-3,247.9	712.3	882.9	822.8	60.15	14.680			
15,300.0	12,750.0	12,238.1	12,225.3	29.3	42.7	13.53	-3,262.0	710.9	807.0	747.1	59.89	13.474			
15,400.0	12,750.0	12,267.7	12,247.2	29.9	42.9	14.31	-3,281.8	709.2	734.4	674.7	59.72	12.297			
15,500.0	12,750.0	12,298.6	12,269.0	30.6	43.0	15.14	-3,303.6	707.5	665.8	606.2	59.55	11.179			
15,600.0	12,750.0	12,330.4	12,290.0	31.3	43.1	16.03	-3,327.4	705.7	602.1	542.7	59.41	10.134			
15,700.0	12,750.0	12,365.1	12,310.8	32.0	43.2	17.02	-3,355.1	703.7	544.8	485.4	59.37	9.177			
15,800.0	12,750.0	12,406.0	12,332.3	32.7	43.3	18.15	-3,389.8	701.6	495.0	435.5	59.50	8.320			
15,900.0	12,750.0	12,455.1	12,354.0	33.4	43.5	19.32	-3,433.8	700.1	453.4	393.5	59.85	7.576			
16,000.0	12,750.0	12,514.6	12,375.6	34.1	43.7	20.40	-3,489.2	700.3	419.1	358.8	60.37	6.943			
16,100.0	12,750.0	12,574.3	12,391.4	34.9	43.9	21.03	-3,546.7	702.2	393.3	332.4	60.97	6.452			
16,200.0	12,750.0	12,637.8	12,401.8	35.6	44.2	21.01	-3,609.2	706.9	375.9	314.3	61.58	6.104			
16,300.0	12,750.0	12,706.6	12,405.0	36.3	44.4	20.28	-3,677.5	713.8	368.1	305.9	62.15	5.923			
16,375.2	12,750.0	12,766.6	12,404.0	36.9	44.7	19.29	-3,737.1	720.8	366.6	304.1	62.46	5.868			
16,400.0	12,750.0	12,787.7	12,403.1	37.1	44.8	18.90	-3,758.0	723.3	366.7	304.2	62.55	5.863			
16,500.0	12,750.0	12,890.1	12,398.4	37.8	45.3	17.07	-3,859.6	735.2	367.8	305.1	62.66	5.870			
16,600.0	12,750.0	13,004.5	12,397.7	38.6	45.9	15.50	-3,973.4	746.5	365.8	303.1	62.68	5.836			
16,700.0	12,750.0	13,104.0	12,398.9	39.3	46.5	14.48	-4,072.6	754.5	362.8	299.8	63.01	5.758			
16,800.0	12,750.0	13,202.3	12,400.7	40.1	47.1	13.75	-4,170.7	760.7	359.7	296.3	63.43	5.671			
16,900.0	12,750.0	13,303.3	12,401.7	40.8	47.8	13.12	-4,271.5	766.0	357.7	293.9	63.85	5.603			
17,000.0	12,750.0	13,409.4	12,405.1	41.6	48.6	12.52	-4,377.5	771.6	353.6	289.4	64.20	5.508			
17,100.0	12,750.0	13,504.1	12,408.0	42.4	49.4	11.79	-4,471.9	777.7	349.5	284.8	64.75	5.398			
17,200.0	12,750.0	13,599.6	12,408.7	43.1	50.2	10.77	-4,567.1	785.1	347.4	282.2	65.27	5.323			
17,300.0	12,750.0	13,700.7	12,409.2	43.9	51.0	9.72	-4,667.9	792.6	345.8	280.1	65.72	5.262			
17,400.0	12,750.0	13,803.5	12,410.5	44.7	52.0	8.65	-4,770.4	800.4	343.5	277.3	66.14	5.193			
17,500.0	12,750.0	13,903.5	12,412.3	45.5	52.9	7.58	-4,870.1	808.0	340.7	274.1	66.66	5.112			
17,600.0	12,750.0	14,004.0	12,414.2	46.3	53.9	6.49	-4,970.3	815.8	338.1	270.9	67.20	5.031			
17,700.0	12,750.0	14,100.3	12,415.7	47.1	54.9	5.48	-5,066.3	822.9	335.8	268.0	67.87	4.948			
17,800.0	12,750.0	14,200.9	12,416.8	47.8	56.0	4.37	-5,166.7	830.4	334.2	265.8	68.48	4.881			
17,900.0	12,750.0	14,299.0	12,418.1	48.6	57.1	3.05	-5,264.3	839.2	332.4	263.2	69.20	4.803			
17,959.2	12,750.0	14,354.9	12,418.4	49.1	57.7	2.18	-5,320.0	844.8	331.8	262.1	69.71	4.759			
18,000.0	12,750.0	14,395.0	12,418.0	49.4	58.1	1.54	-5,359.8	848.9	332.1	262.0	70.04	4.741			
18,100.0	12,750.0	14,489.3	12,416.2	50.2	59.2	-0.02	-5,453.6	858.8	333.8	262.8	71.02	4.700			
18,200.0	12,750.0	14,592.0	12,414.5	51.0	60.5	-1.79	-5,555.7	870.2	335.7	263.8	71.89	4.670			
18,300.0	12,750.0	14,703.3	12,415.5	51.8	61.8	-3.71	-5,666.3	882.5	335.2	262.6	72.65	4.614			
18,400.0	12,750.0	14,803.4	12,418.2	52.6	63.0	-5.45	-5,765.7	893.4	333.4	259.5	73.83	4.515			
18,500.0	12,750.0	14,901.6	12,420.1	53.4	64.3	-6.89	-5,863.4	902.6	332.2	257.1	75.11	4.424			
18,600.0	12,750.0	15,001.0	12,422.1	54.2	65.5	-8.16	-5,962.5	910.7	331.2	254.8	76.38	4.337			
18,659.2	12,750.0	15,058.0	12,422.9	54.7	66.3	-8.88	-6,019.3	915.4	331.0	253.8	77.22	4.286 CC			
18,700.0	12,750.0	15,096.8	12,423.3	55.1	66.8	-9.37	-6,058.0	918.5	331.1	253.3	77.84	4.254			
18,800.0	12,750.0	15,194.7	12,423.2	55.9	68.0	-10.56	-6,155.5	926.5	332.4	253.1	79.29	4.192			
18,900.0	12,750.0	15,296.4	12,423.4	56.7	69.4	-11.66	-6,257.0	934.0	333.5	252.8	80.66	4.135			
19,000.0	12,750.0	15,397.8	12,423.8	57.5	70.7	-12.58	-6,358.1	940.4	334.2	252.2	82.02	4.074			
19,100.0	12,750.0	15,497.3	12,424.6	58.3	72.0	-13.60	-6,457.5	947.2	334.7	251.2	83.56	4.006			
19,200.0	12,750.0	15,594.8	12,425.2	59.1	73.4	-14.65	-6,554.7	954.4	335.8	250.5	85.27	3.938			
19,300.0	12,750.0	15,693.7	12,425.1	59.9	74.7	-15.74	-6,653.2	962.0	337.6	250.6	87.03	3.879			
19,400.0	12,750.0	15,795.3	12,425.2	60.7	76.1	-16.83	-6,754.6	969.7	339.4	250.6	88.78	3.823			
19,500.0	12,750.0	15,899.6	12,426.2	61.6	77.6	-17.94	-6,858.6	977.3	340.3	249.8	90.53	3.759			
19,600.0	12,750.0	16,004.6	12,429.0	62.4	79.1	-19.18	-6,963.3	985.2	339.9	247.4	92.45	3.676			
19,693.0	12,750.0	16,096.7	12,431.9	63.1	80.4	-20.24	-7,055.1	991.6	339.0	244.5	94.43	3.590			
19,700.0	12,750.0	16,100.0	12,432.0	63.2	80.4	-20.27	-7,058.4	991.9	338.9	244.3	94.68	3.580			

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 806H - Slot BOATER FED COM 806H
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 806H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - TELE DELUX 32 STATE 4H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-MWD - OWSG R1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)				
19,800.0	12,750.0	16,196.0	12,433.7	64.0	81.8	-21.29	-7,154.1	998.6	339.4	242.5	96.89	3.503		
19,900.0	12,750.0	16,291.0	12,433.3	64.8	83.2	-22.27	-7,248.8	1,006.0	342.4	243.2	99.16	3.453		
20,000.0	12,750.0	16,389.1	12,432.2	65.7	84.6	-23.34	-7,346.6	1,014.4	346.3	244.9	101.49	3.413		
20,100.0	12,750.0	16,490.4	12,431.9	66.5	86.1	-24.54	-7,447.5	1,023.4	349.8	245.9	103.92	3.366		
20,200.0	12,750.0	16,593.2	12,432.1	67.3	87.6	-25.70	-7,549.9	1,032.2	352.9	246.5	106.37	3.318		
20,300.0	12,750.0	16,702.9	12,434.0	68.1	89.2	-26.91	-7,659.3	1,040.7	354.4	245.6	108.73	3.259		
20,399.2	12,750.0	16,802.1	12,438.2	69.0	90.7	-28.03	-7,758.1	1,047.3	353.2	241.9	111.37	3.172		
20,400.0	12,750.0	16,802.7	12,438.2	69.0	90.7	-28.04	-7,758.8	1,047.3	353.2	241.8	111.40	3.171		
20,500.0	12,750.0	16,890.7	12,438.7	69.8	92.0	-28.82	-7,846.5	1,053.4	355.5	241.4	114.07	3.117 ES		
20,600.0	12,750.0	16,940.0	12,438.4	70.6	92.7	-29.21	-7,895.7	1,056.9	362.6	246.0	116.56	3.111 SF		
20,700.0	12,750.0	16,940.0	12,438.4	71.4	92.7	-29.21	-7,895.7	1,056.9	392.5	277.3	115.23	3.407		
20,800.0	12,750.0	16,940.0	12,438.4	72.3	92.7	-29.21	-7,895.7	1,056.9	443.5	332.8	110.75	4.005		
20,900.0	12,750.0	16,940.0	12,438.4	73.1	92.7	-29.21	-7,895.7	1,056.9	509.3	403.7	105.52	4.826		
21,000.0	12,750.0	16,940.0	12,438.4	73.9	92.7	-29.21	-7,895.7	1,056.9	584.8	484.0	100.75	5.804		
21,100.0	12,750.0	16,940.0	12,438.4	74.8	92.7	-29.21	-7,895.7	1,056.9	666.8	570.0	96.78	6.889		
21,200.0	12,750.0	16,940.0	12,438.4	75.6	92.7	-29.21	-7,895.7	1,056.9	753.1	659.6	93.60	8.047		
21,300.0	12,750.0	16,940.0	12,438.4	76.4	92.7	-29.21	-7,895.7	1,056.9	842.5	751.5	91.06	9.253		
21,400.0	12,750.0	16,940.0	12,438.4	77.3	92.7	-29.21	-7,895.7	1,056.9	934.1	845.0	89.03	10.492		

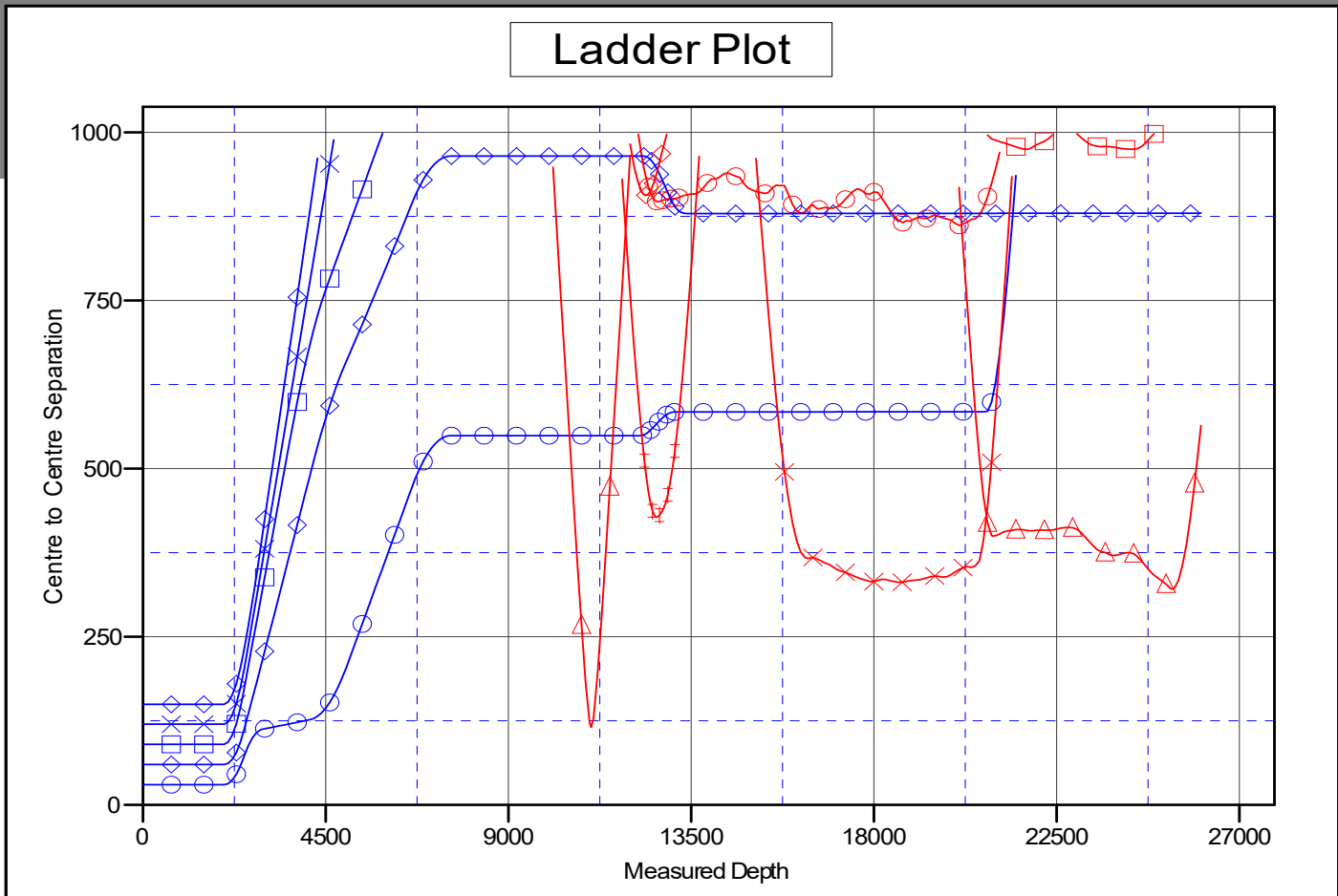
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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 806H - 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

- | | | |
|------------------------------------|---|--|
| AKUBRA FED COM 701H, OWB, AWP V0 | _BOATER FED COM 804H, OWB, PWP0 V0 | DUO SONIC 29 FEDERAL #4H OWB, AWP V0 |
| _BOATER FED COM 603H, OWB, PWP0 V0 | _BOATER FED COM 805H, OWB, PWP0 V0 | GREEN BERET FED COM #602H, OWB, AWP V0 |
| _BOATER FED COM 703H, OWB, PWP0 V0 | CAVE LION 5 TB FEDERAL OWB, AWP V0 | GREEN BERET FED COM #803H, OWB, AWP V0 |
| _BOATER FED COM 803H, OWB, PWP0 V0 | CAVE LION 5 TB FEDERAL 05H, OWB, AWP V0 | TELE DELUX 32 STATE 4H, OWB, AWP V0 |

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

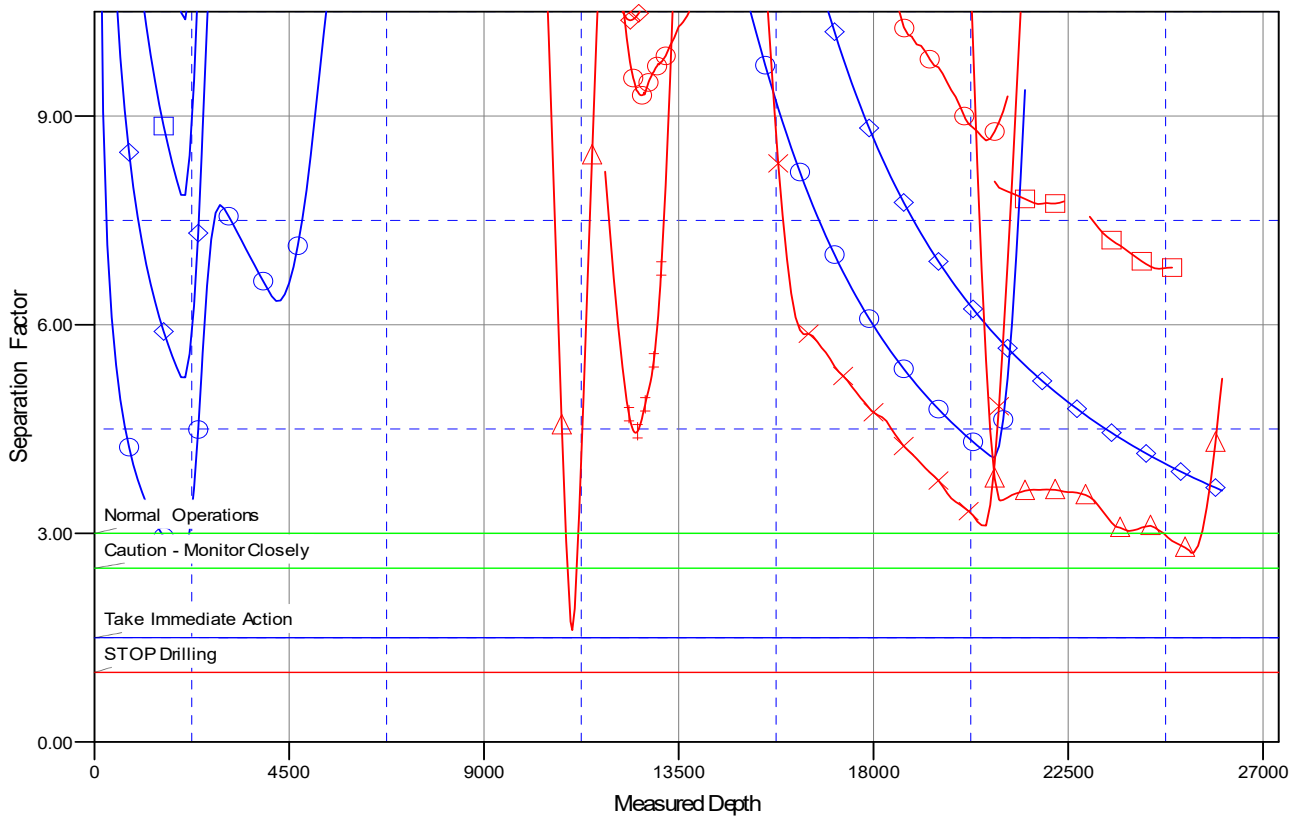
ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 806H - Slot BOATER FED COM 806H
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 806H	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 806H - 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

- AKUBRA FED COM 701H, OWB, AWP V0
- ✕ _BOATER FED COM 804H, OWB, PWP0 V0
- ▲ DUO SONIC 29 FEDERAL #4H, OWB, AWP V0
- _BOATER FED COM 803H, OWB, PWP0 V0
- ◆ _BOATER FED COM 805H, OWB, PWP0 V0
- GREEN BERET FED COM #602H, OWB, AWP V0
- _BOATER FED COM 703H, OWB, PWP0 V0
- CAVE LION 5 TB FEDERAL, OWB, AWP V0
- GREEN BERET FED COM #803H, OWB, AWP V0
- ◆ _BOATER FED COM 803H, OWB, PWP0 V0
- CAVE LION 5 TB FEDERAL 05H, OWB, AWP V0
- ✕ TELE DELUX 32 STATE 4H, OWB, AWP V0

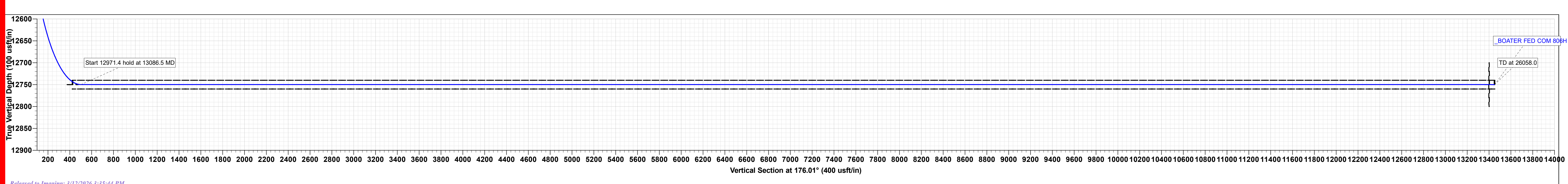
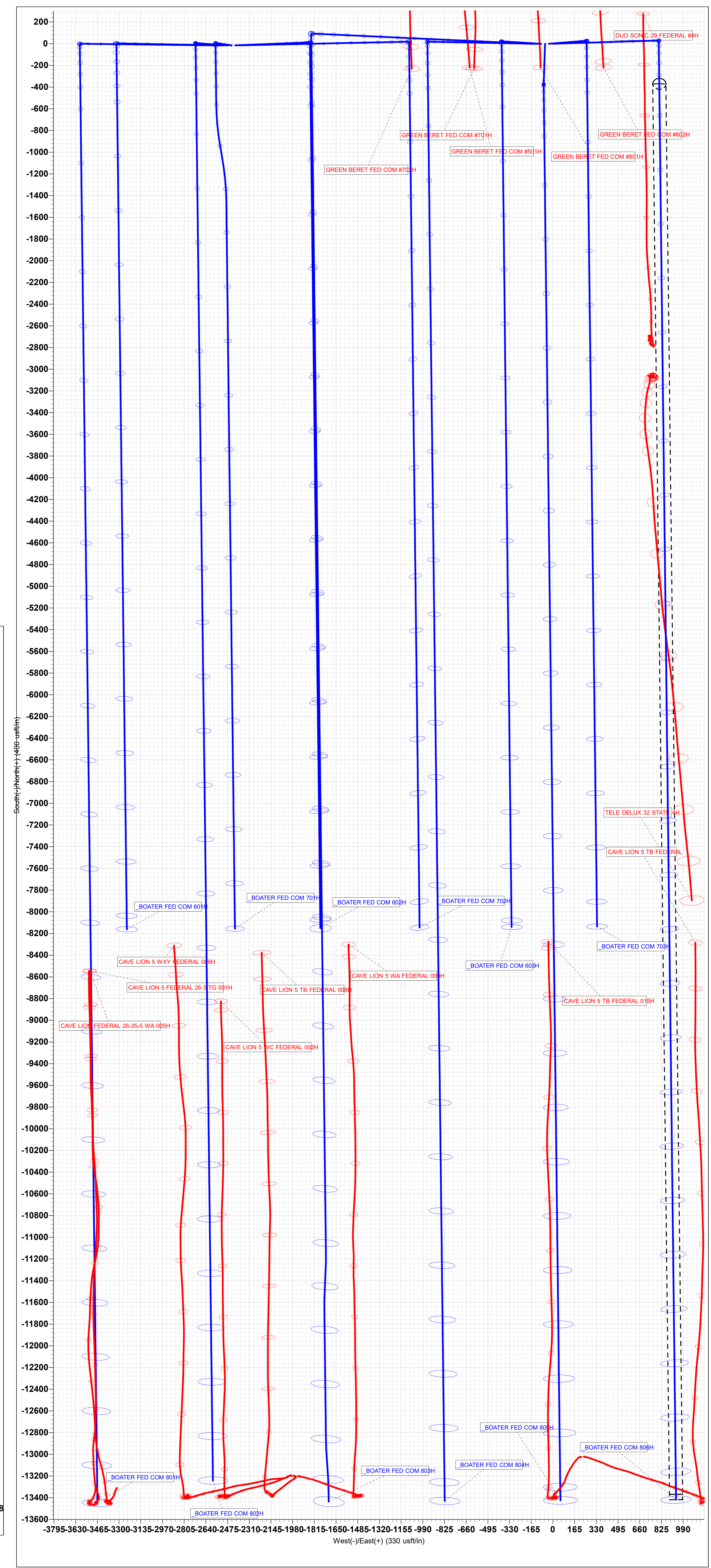
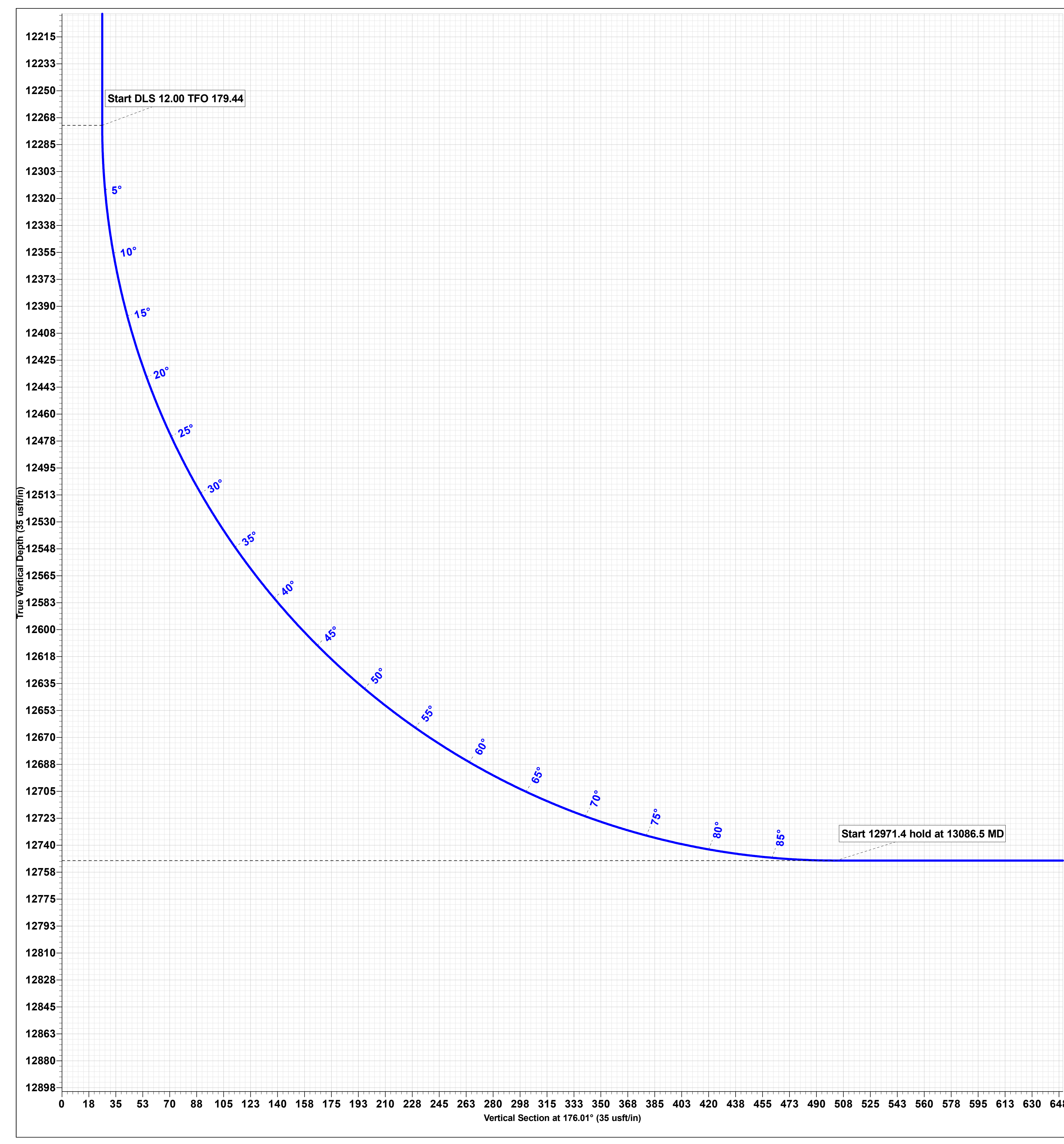
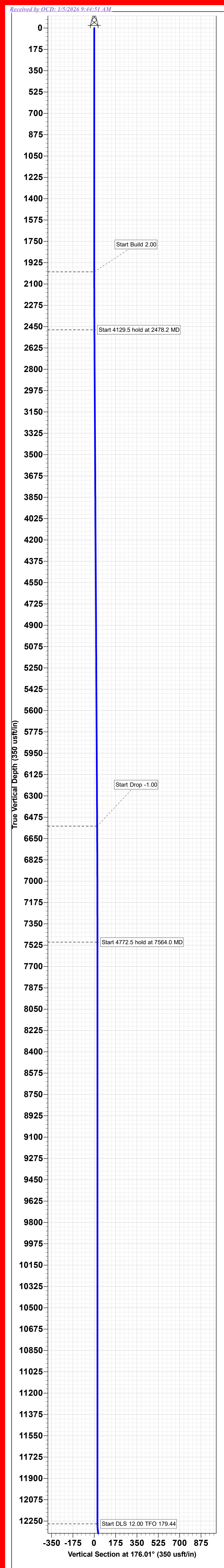
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: LEA COUNTY SOUTHEAST
 Site: BOATER FED COM PROJECT
 Well: BOATER FED COM 806H
 Wellbore: OWB
 Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
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
2478.2	9.56	87.87	2476.0	1.5	39.8	2.00	87.87	1.3
6607.7	9.56	87.87	6548.0	27.0	725.4	0.00	0.00	23.5
7564.0	0.00	0.00	7500.0	30.0	805.0	1.00	180.00	26.1
12336.5	0.00	0.00	12272.5	30.0	805.0	0.00	0.00	26.1
13086.5	90.00	179.44	12750.0	-447.4	809.7	12.00	179.44	502.7
26058.0	90.00	179.44	12750.0	-13418.2	936.7	0.00	0.00	13450.9



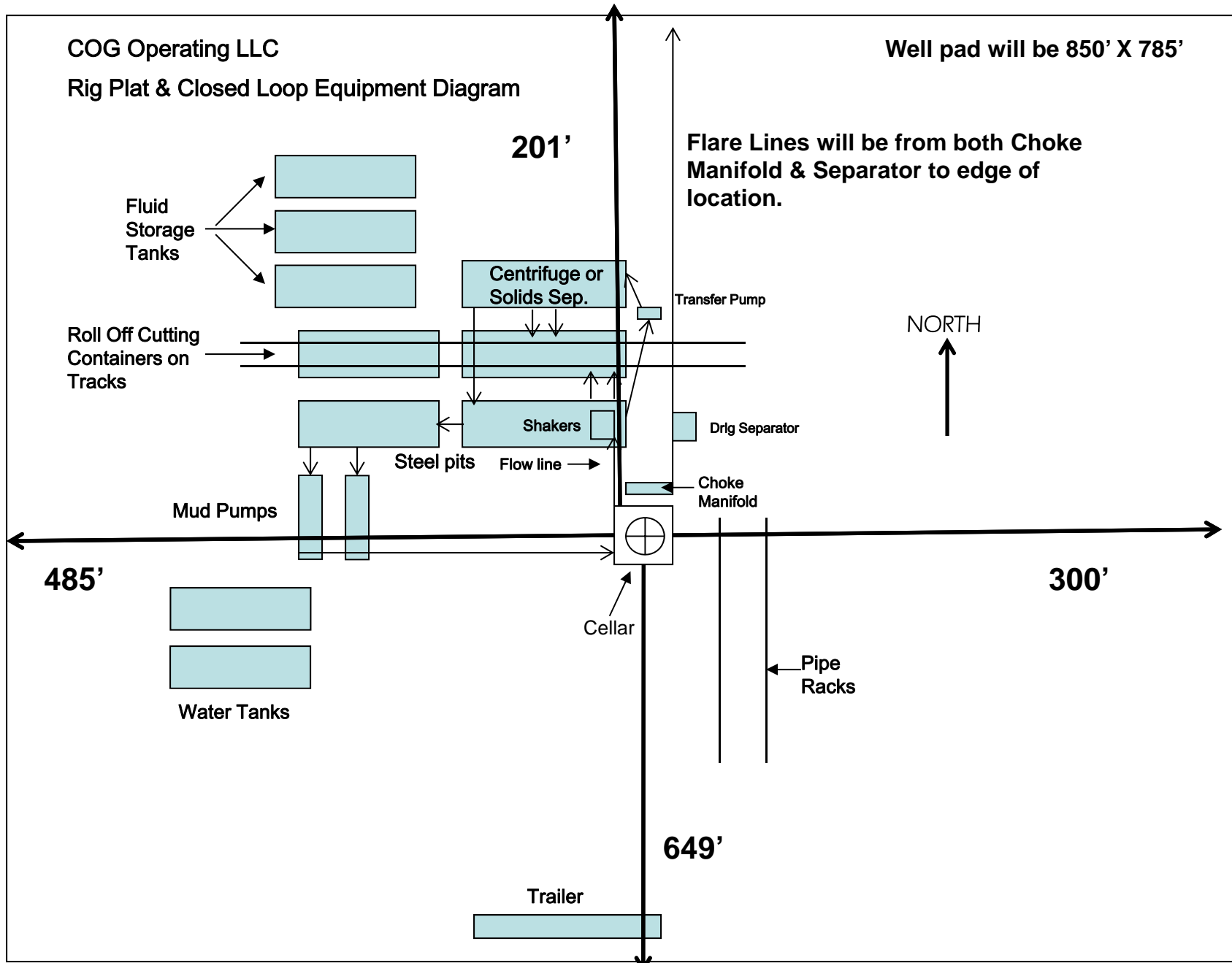


Exhibit 1

" 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

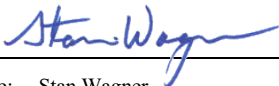
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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.

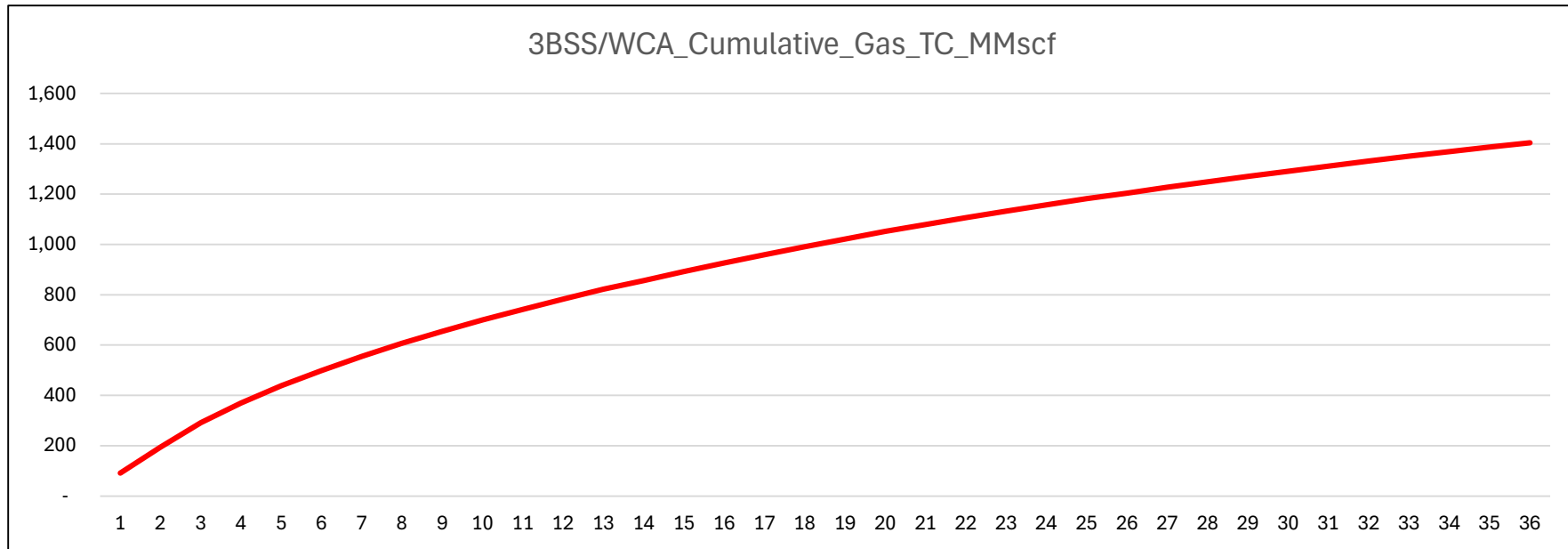
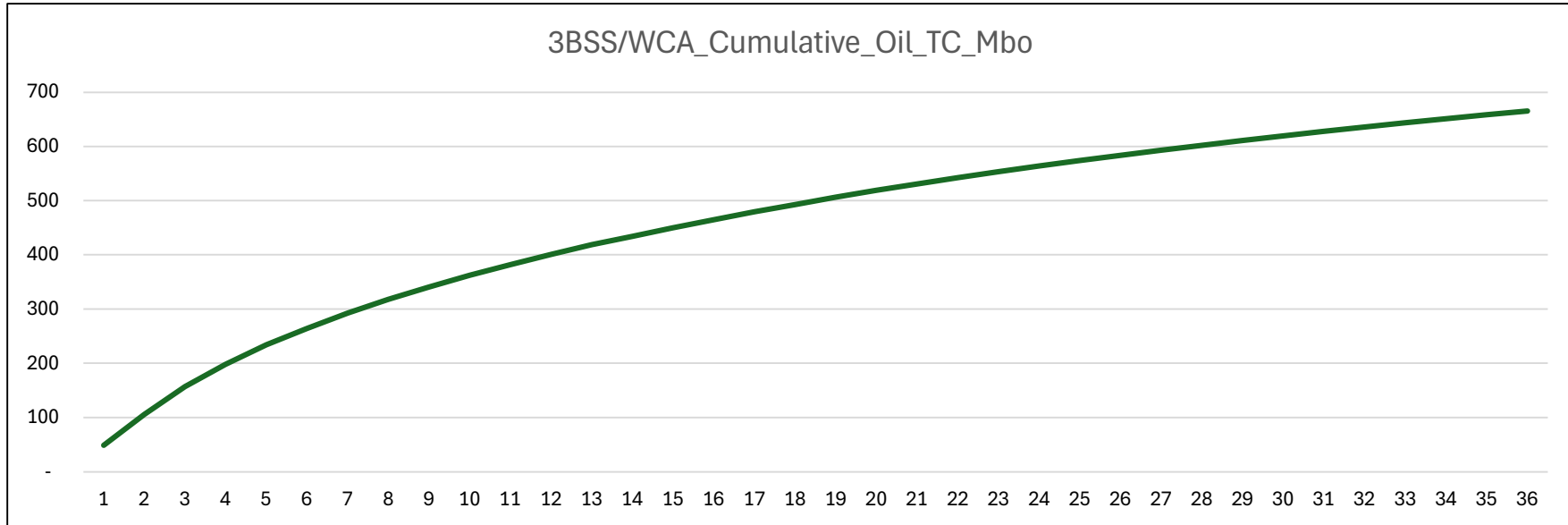
F. Measurement of vented and flared natural gas.

- 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 806H
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 539920

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539920
	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 539920

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539920
	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