

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-55675
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well 720		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SENW / 2365 FNL / 1410 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102125 / LONG: -103.393521 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2540 FSL / 2080 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101094 / LONG: -103.391356 (TVD: 12373 feet, MD: 12615 feet)

PPP: NENW / 1 FNL / 2081 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094112 / LONG: -103.391348 (TVD: 12380 feet, MD: 15255 feet)

BHL: SESW / 50 FSL / 2080 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.079748 / LONG: -103.39133 (TVD: 12380 feet, MD: 20378 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number 30-025-	Pool Code 97088	Pool Name WC-025 G-08 S2535340; Bone Spring
Property Code	Property Name BOATER FEDERAL COM	Well Number 602H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3279.1'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1410 FWL	32.102125°N	103.393521°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		50 FSL	2080 FWL	32.079748°N	103.391330°W	LEA

Dedicated Acres 240	Infill or Defining Well Defining	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1410 FWL	32.102125°N	103.393521°W	LEA

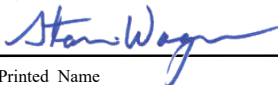
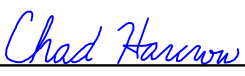
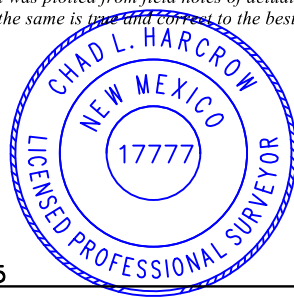
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	29	25-S	35-E		2540 FSL	2080 FWL	32.101094°N	103.391356°W	LEA

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		100 FSL	2080 FWL	32.079886°N	103.391330°W	LEA

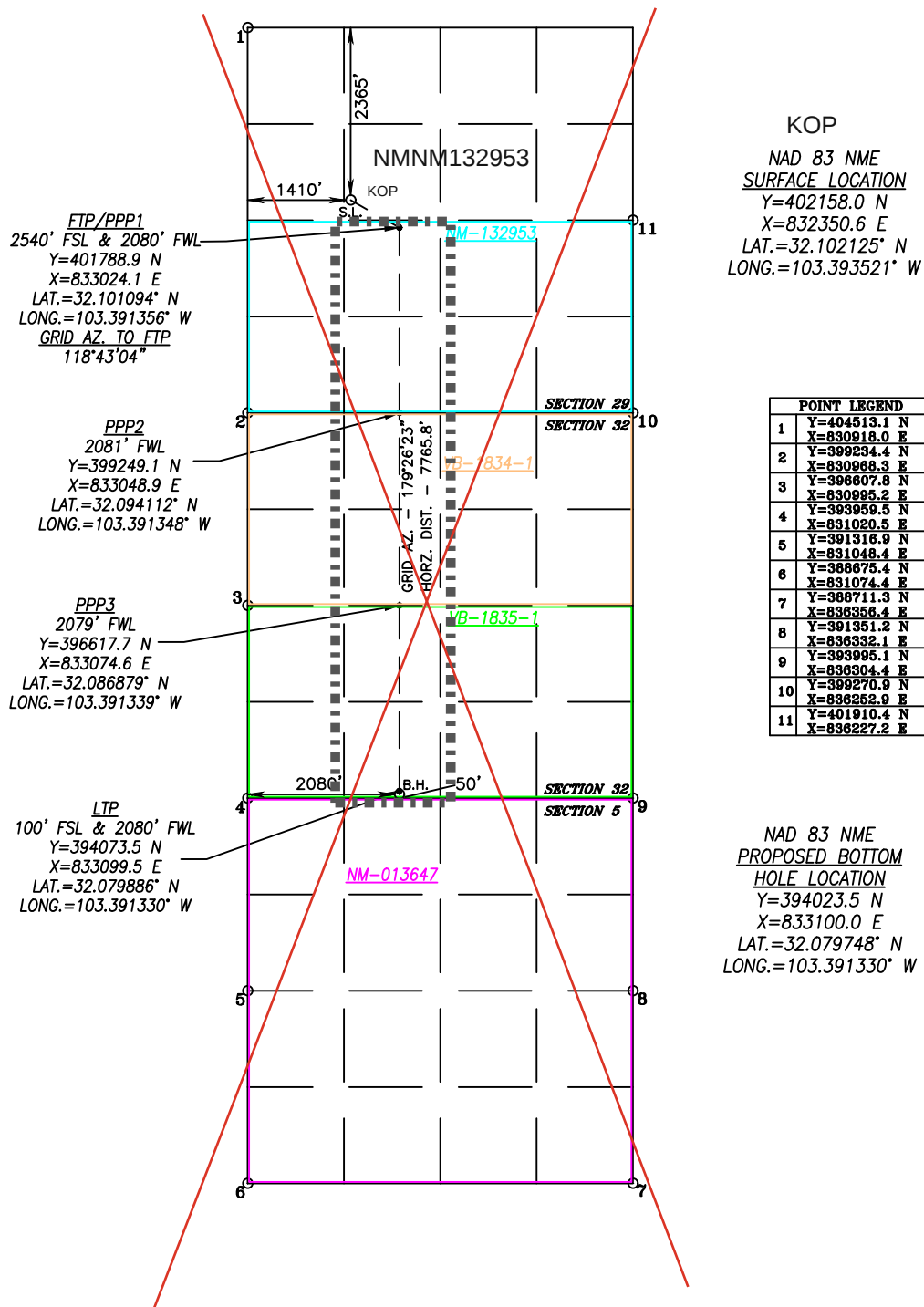
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3279.1'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature 	Date 7/7/25	Signature and Seal of Professional Surveyor  6/6/25 	
Printed Name Stan Wagner	Email Address	Certificate Number 17777	Date of Survey MAY 28, 2025
		W.O.#25-505	DRAWN BY: WN
		PAGE 1 OF 2	

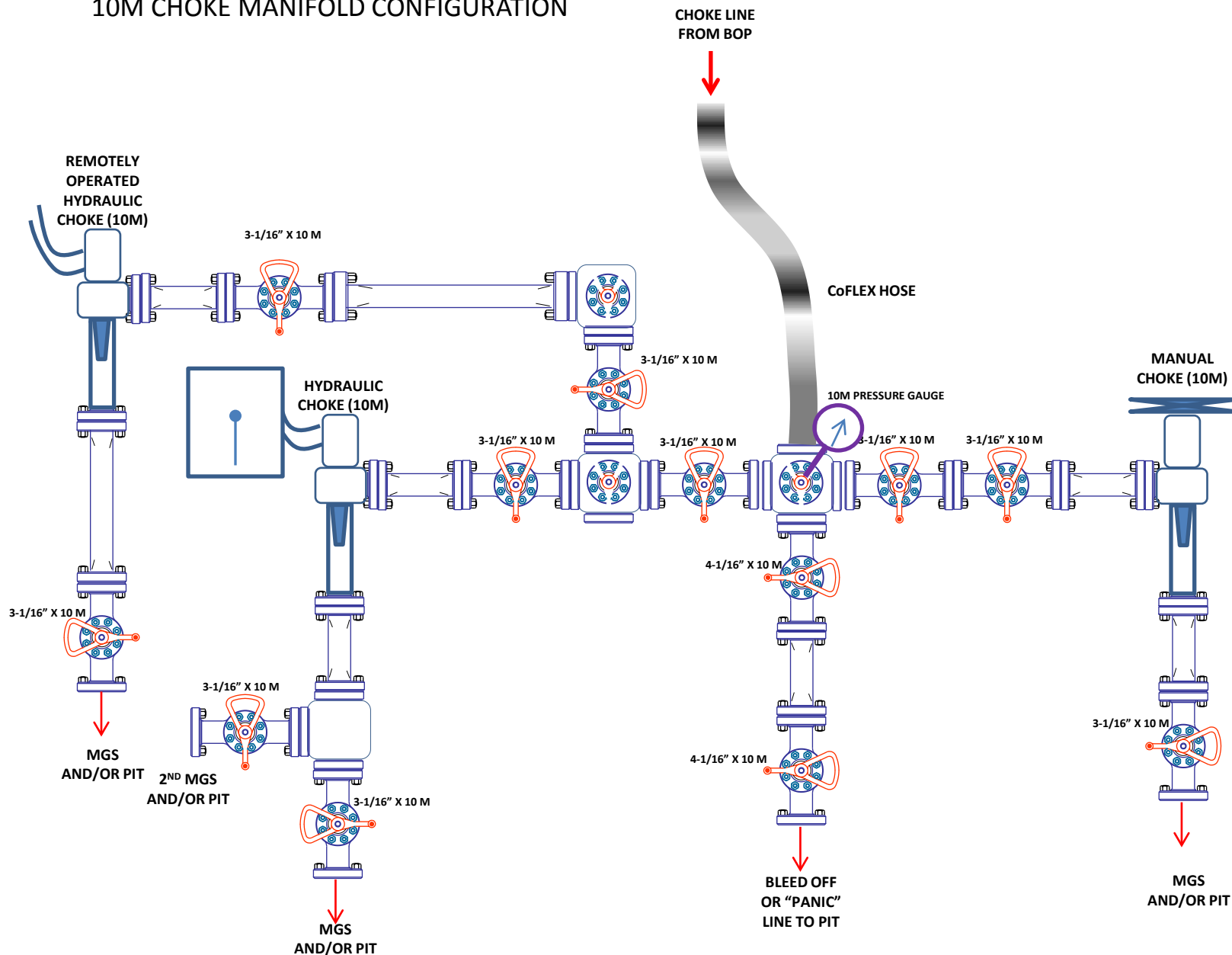
This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the 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.

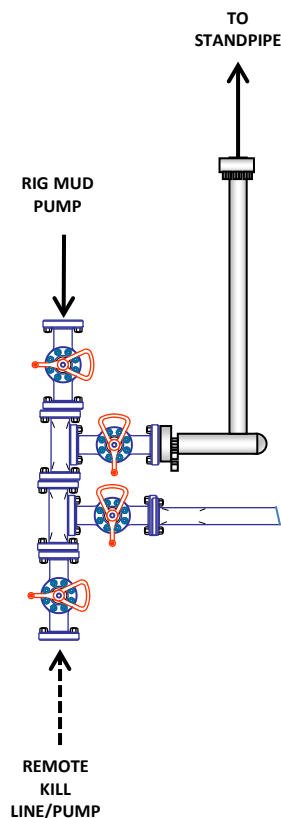
Dedicated acreage updated by Sundry, please disregard this document and reference Sundry at end of file.



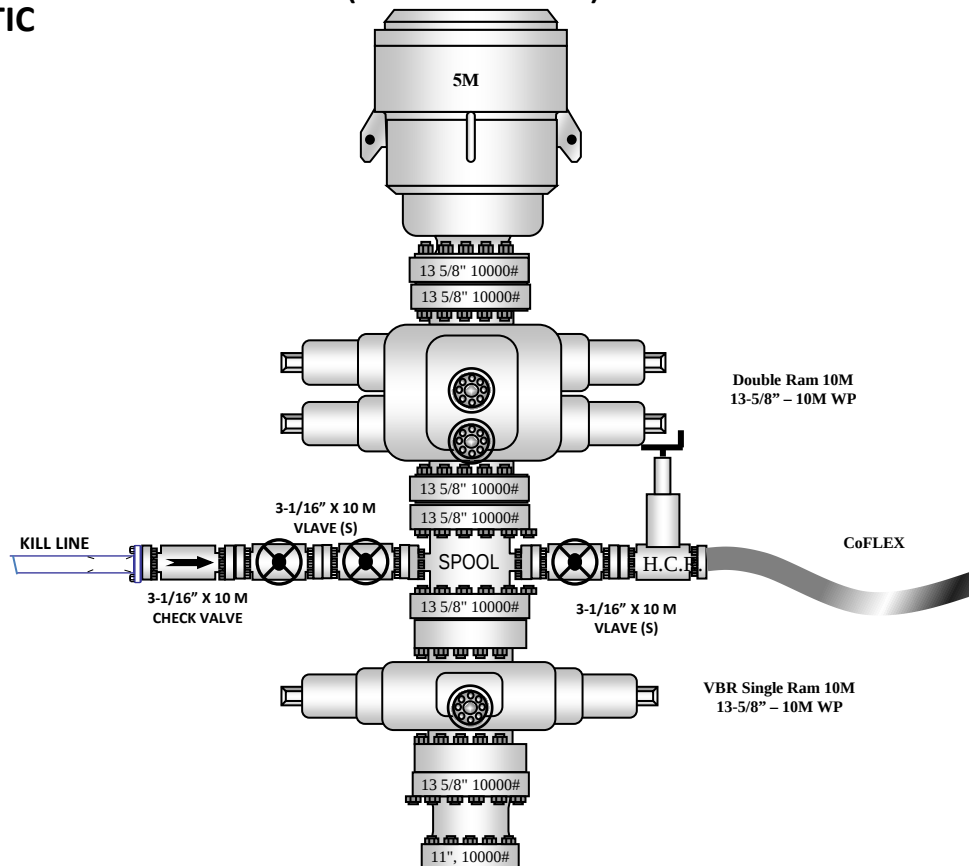
10M CHOKE MANIFOLD CONFIGURATION

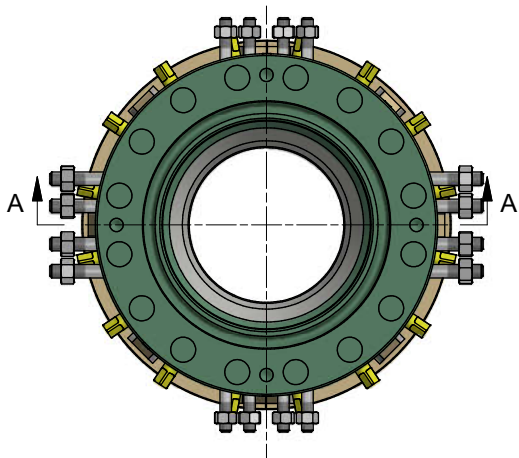


10M REMOTE KILL SCHEMATIC

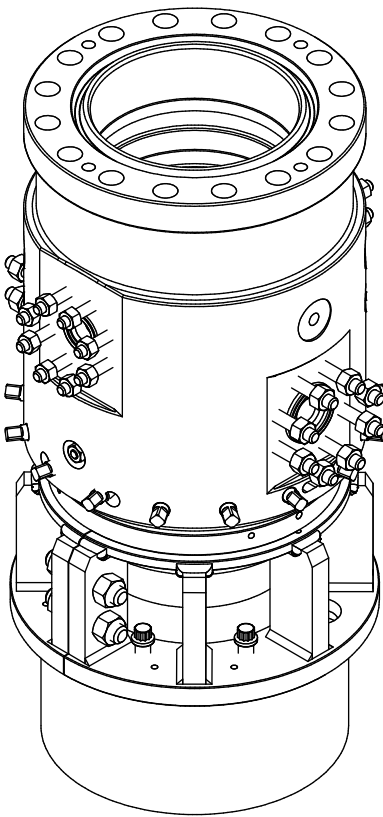


10M BOP Stack (5M Annular)

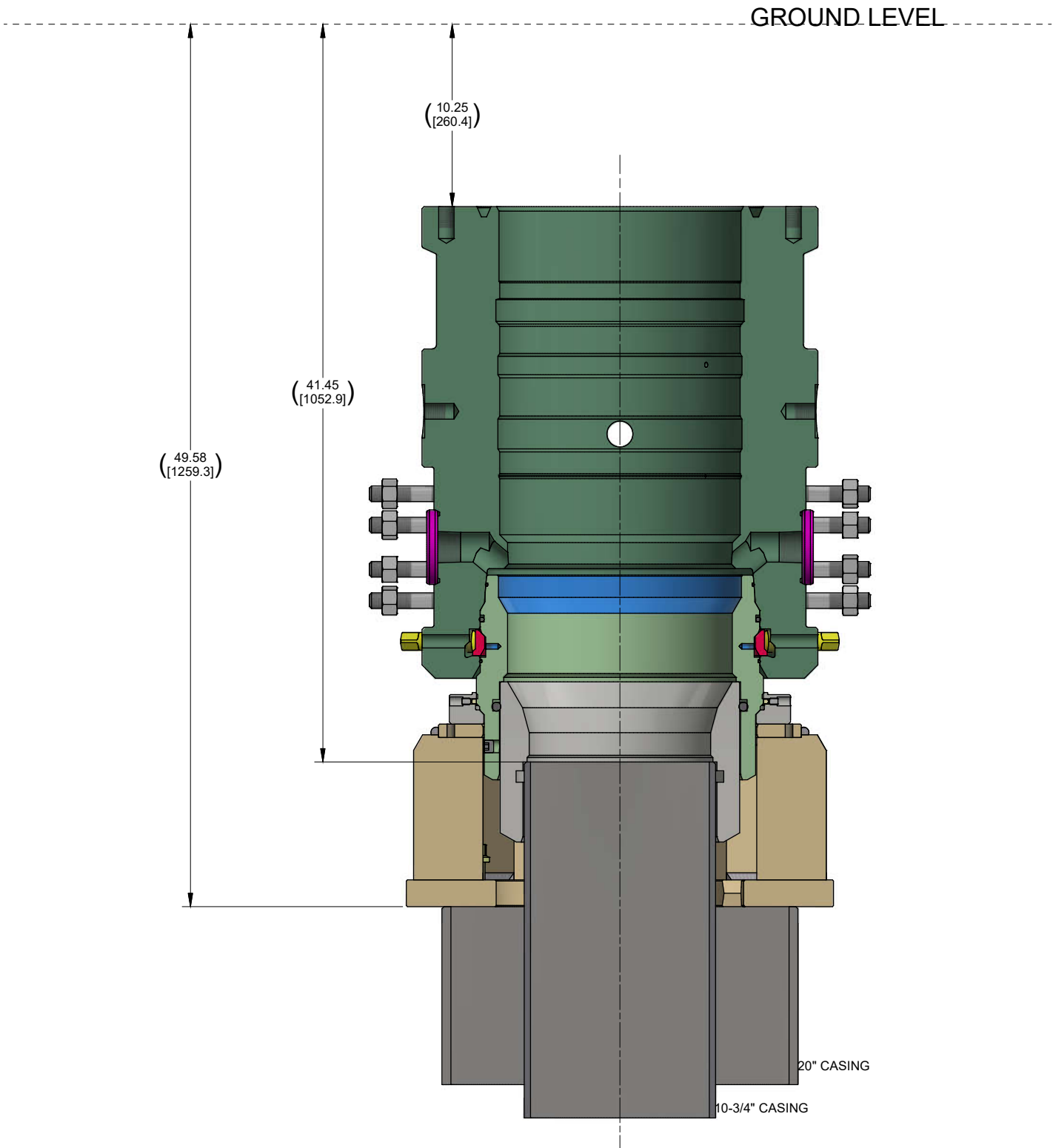




TOP VIEW



ISOMETRIC VIEW



SECTION A-A

CONFIDENTIAL						
SURFACE TREATMENT	DO NOT SCALE		 CAMERON A Schlumberger Company	SURFACE SYSTEMS		
MATERIAL & HEAT TREAT	DRAWN BY:	DATE	CONOCO ADAPT NST STACK-UP W/ 10-3/4" CASING 71			
	A. SKLENKA	8 Aug 22				
	CHECKED BY:	DATE				
	A. SKLENKA	8 Aug 22	71			
	APPROVED BY:	DATE				
	A. SKLENKA	8 Aug 22				
ESTIMATED WEIGHT:	2517.9 LBS INITIAL USE BM: 1142.1 KG IT # A. KOLINEK		SHEET 1 of 1	LO-096232-92		
			INVENTOR - D			

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1. Geologic Formations

TVD of Target:	12,380' EOL	Pilot hole depth:	N/A
MD at TD:	20,378'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	716	Water	
Top of Salt	875	Salt	
Base of Salt	5158	Salt	
Lamar	5278	Salt Water	
Bell Canyon	5283	Salt Water	
Cherry Canyon	6279	Oil/Gas	
Brushy Canyon	7960	Oil/Gas	
Bone Spring	9230	Oil/Gas	
1st Bone Spring Sand	10376	Oil/Gas	
2nd Bone Spring Sand	10907	Oil/Gas	
3rd Bone Spring Sand	12022	Target Oil/Gas	
Wolfcamp	12424	Not Penetrated	
Wolfcamp A	12545	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	725	10.75"	45.5	J55	BTC	6.30	8.09	21.67	24.13
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.50	1.05	2.98	3.01
8.750"	8200	11842	7.625"	29.7	P110-ICY	W513	2.89	1.58	3.04	1.82
6.75"	0	11642	5.5"	23	P110-CY	BTC	3.44	2.08	2.72	2.72
6.75"	11642	20,378	5.5"	23	P110-CY	W441	3.32	2.08	2.56	2.32
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

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

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3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1169	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	555	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	643	12.7	1.68	9.09	72	Lead: Class C
	835	14.5	1.18	5.26	19	Tail: Class H

Intermediate cement job to be performed offline.

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

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

Stage tool ~50' into Lamar if required.

Casing String	TOC	% Excess
Surface	0'	50% in OH
Int Stg 1	0'	50% in OH
Int Stg 2	0'	20% in OH
Production	11,342'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	391	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	643	12.7	1.68	9.09	72	Lead: Class C
	835	14.5	1.18	5.26	19	Tail: Class H

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

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

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

Casing String	TOC	% Excess
Surface	0'	50% in OH
BH Stg 1	0'	50% in OH
BH Stg 2	7,960'	122%
Production	11,342'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

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

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

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

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

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

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5. Mud Program

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

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

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

6. Logging and Testing Procedures

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

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

ConocoPhillips - Boater Federal Com 602H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8370 psi at 12380' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

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

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

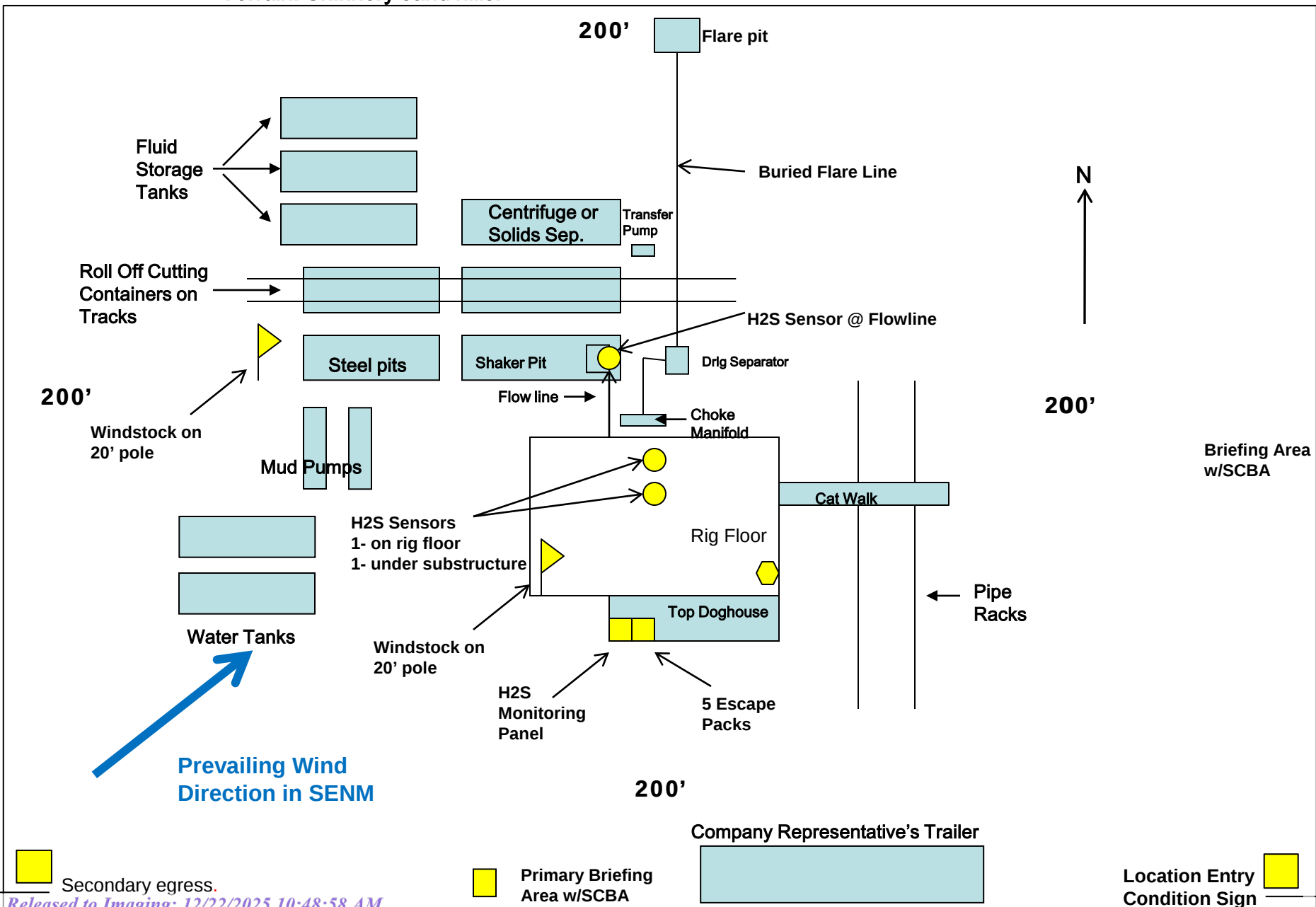
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

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

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



DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 602H - Slot BOATER FED COM 602H

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2024	4/23/2025	6.04	59.61	47,142.29280239

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	175.45

Plan Survey Tool Program	Date	4/23/2025			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	20,378.3 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,417.7	8.35	87.18	2,416.3	1.5	30.4	2.00	2.00	0.00	87.18	
5,703.8	8.35	87.18	5,667.5	25.0	507.3	0.00	0.00	0.00	0.00	
6,539.3	0.00	0.00	6,500.0	28.0	568.0	1.00	-1.00	0.00	180.00	
11,941.8	0.00	0.00	11,902.5	28.0	568.0	0.00	0.00	0.00	0.00	
12,691.8	90.00	179.44	12,380.0	-449.4	572.6	12.00	12.00	23.93	179.44	
20,378.3	90.00	179.44	12,380.0	-8,135.6	647.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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	87.18	2,100.0	0.1	1.7	0.1	2.00	2.00	0.00	
2,200.0	4.00	87.18	2,199.8	0.3	7.0	0.2	2.00	2.00	0.00	
2,300.0	6.00	87.18	2,299.5	0.8	15.7	0.5	2.00	2.00	0.00	
2,400.0	8.00	87.18	2,398.7	1.4	27.8	0.8	2.00	2.00	0.00	
2,417.7	8.35	87.18	2,416.3	1.5	30.4	0.9	2.00	2.00	0.00	
2,500.0	8.35	87.18	2,497.6	2.1	42.3	1.3	0.00	0.00	0.00	
2,600.0	8.35	87.18	2,596.6	2.8	56.8	1.7	0.00	0.00	0.00	
2,700.0	8.35	87.18	2,695.5	3.5	71.3	2.2	0.00	0.00	0.00	
2,800.0	8.35	87.18	2,794.5	4.2	85.8	2.6	0.00	0.00	0.00	
2,900.0	8.35	87.18	2,893.4	4.9	100.4	3.0	0.00	0.00	0.00	
3,000.0	8.35	87.18	2,992.3	5.7	114.9	3.5	0.00	0.00	0.00	
3,100.0	8.35	87.18	3,091.3	6.4	129.4	3.9	0.00	0.00	0.00	
3,200.0	8.35	87.18	3,190.2	7.1	143.9	4.3	0.00	0.00	0.00	
3,300.0	8.35	87.18	3,289.2	7.8	158.4	4.8	0.00	0.00	0.00	
3,400.0	8.35	87.18	3,388.1	8.5	172.9	5.2	0.00	0.00	0.00	
3,500.0	8.35	87.18	3,487.0	9.2	187.4	5.7	0.00	0.00	0.00	
3,600.0	8.35	87.18	3,586.0	10.0	201.9	6.1	0.00	0.00	0.00	
3,700.0	8.35	87.18	3,684.9	10.7	216.5	6.5	0.00	0.00	0.00	
3,800.0	8.35	87.18	3,783.9	11.4	231.0	7.0	0.00	0.00	0.00	
3,900.0	8.35	87.18	3,882.8	12.1	245.5	7.4	0.00	0.00	0.00	
4,000.0	8.35	87.18	3,981.7	12.8	260.0	7.8	0.00	0.00	0.00	
4,100.0	8.35	87.18	4,080.7	13.5	274.5	8.3	0.00	0.00	0.00	
4,200.0	8.35	87.18	4,179.6	14.2	289.0	8.7	0.00	0.00	0.00	
4,300.0	8.35	87.18	4,278.5	15.0	303.5	9.2	0.00	0.00	0.00	
4,400.0	8.35	87.18	4,377.5	15.7	318.0	9.6	0.00	0.00	0.00	
4,500.0	8.35	87.18	4,476.4	16.4	332.6	10.0	0.00	0.00	0.00	
4,600.0	8.35	87.18	4,575.4	17.1	347.1	10.5	0.00	0.00	0.00	
4,700.0	8.35	87.18	4,674.3	17.8	361.6	10.9	0.00	0.00	0.00	
4,800.0	8.35	87.18	4,773.2	18.5	376.1	11.4	0.00	0.00	0.00	
4,900.0	8.35	87.18	4,872.2	19.3	390.6	11.8	0.00	0.00	0.00	
5,000.0	8.35	87.18	4,971.1	20.0	405.1	12.2	0.00	0.00	0.00	
5,100.0	8.35	87.18	5,070.1	20.7	419.6	12.7	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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	8.35	87.18	5,169.0	21.4	434.1	13.1	0.00	0.00	0.00	
5,300.0	8.35	87.18	5,267.9	22.1	448.7	13.5	0.00	0.00	0.00	
5,400.0	8.35	87.18	5,366.9	22.8	463.2	14.0	0.00	0.00	0.00	
5,500.0	8.35	87.18	5,465.8	23.5	477.7	14.4	0.00	0.00	0.00	
5,600.0	8.35	87.18	5,564.7	24.3	492.2	14.9	0.00	0.00	0.00	
5,700.0	8.35	87.18	5,663.7	25.0	506.7	15.3	0.00	0.00	0.00	
5,703.8	8.35	87.18	5,667.5	25.0	507.3	15.3	0.00	0.00	0.00	
5,800.0	7.39	87.18	5,762.7	25.7	520.4	15.7	1.00	-1.00	0.00	
5,900.0	6.39	87.18	5,862.0	26.2	532.4	16.1	1.00	-1.00	0.00	
6,000.0	5.39	87.18	5,961.5	26.8	542.7	16.4	1.00	-1.00	0.00	
6,100.0	4.39	87.18	6,061.1	27.2	551.2	16.6	1.00	-1.00	0.00	
6,200.0	3.39	87.18	6,160.9	27.5	558.0	16.8	1.00	-1.00	0.00	
6,300.0	2.39	87.18	6,260.8	27.8	563.0	17.0	1.00	-1.00	0.00	
6,400.0	1.39	87.18	6,360.7	27.9	566.3	17.1	1.00	-1.00	0.00	
6,500.0	0.39	87.18	6,460.7	28.0	567.9	17.1	1.00	-1.00	0.00	
6,539.3	0.00	0.00	6,500.0	28.0	568.0	17.1	1.00	-1.00	0.00	
6,600.0	0.00	0.00	6,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,960.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,060.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,160.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,260.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,360.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,460.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,960.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,060.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,160.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,260.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,360.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,460.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,960.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,060.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,160.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,260.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,360.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,460.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,960.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,060.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,160.7	28.0	568.0	17.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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	10,260.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,360.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,460.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,960.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,060.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,160.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,260.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,360.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,460.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,560.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,660.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,760.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,860.7	28.0	568.0	17.1	0.00	0.00	0.00	
11,941.8	0.00	0.00	11,902.5	28.0	568.0	17.1	0.00	0.00	0.00	
12,000.0	6.98	179.44	11,960.5	24.5	568.0	20.7	12.00	12.00	0.00	
12,100.0	18.98	179.44	12,057.8	2.0	568.3	43.0	12.00	12.00	0.00	
12,200.0	30.98	179.44	12,148.3	-40.1	568.7	85.1	12.00	12.00	0.00	
12,300.0	42.98	179.44	12,228.0	-100.2	569.2	145.0	12.00	12.00	0.00	
12,400.0	54.98	179.44	12,293.5	-175.5	570.0	220.1	12.00	12.00	0.00	
12,500.0	66.98	179.44	12,342.0	-262.8	570.8	307.2	12.00	12.00	0.00	
12,600.0	78.98	179.44	12,371.2	-358.2	571.8	402.4	12.00	12.00	0.00	
12,691.8	90.00	179.44	12,380.0	-449.4	572.6	493.4	12.00	12.00	0.00	
12,700.0	90.00	179.44	12,380.0	-457.6	572.7	501.6	0.00	0.00	0.00	
12,800.0	90.00	179.44	12,380.0	-557.6	573.7	601.4	0.00	0.00	0.00	
12,900.0	90.00	179.44	12,380.0	-657.6	574.7	701.1	0.00	0.00	0.00	
13,000.0	90.00	179.44	12,380.0	-757.6	575.6	800.9	0.00	0.00	0.00	
13,100.0	90.00	179.44	12,380.0	-857.6	576.6	900.6	0.00	0.00	0.00	
13,200.0	90.00	179.44	12,380.0	-957.6	577.6	1,000.4	0.00	0.00	0.00	
13,300.0	90.00	179.44	12,380.0	-1,057.6	578.6	1,100.2	0.00	0.00	0.00	
13,400.0	90.00	179.44	12,380.0	-1,157.6	579.5	1,199.9	0.00	0.00	0.00	
13,500.0	90.00	179.44	12,380.0	-1,257.6	580.5	1,299.7	0.00	0.00	0.00	
13,600.0	90.00	179.44	12,380.0	-1,357.6	581.5	1,399.4	0.00	0.00	0.00	
13,700.0	90.00	179.44	12,380.0	-1,457.6	582.4	1,499.2	0.00	0.00	0.00	
13,800.0	90.00	179.44	12,380.0	-1,557.6	583.4	1,598.9	0.00	0.00	0.00	
13,900.0	90.00	179.44	12,380.0	-1,657.6	584.4	1,698.7	0.00	0.00	0.00	
14,000.0	90.00	179.44	12,380.0	-1,757.6	585.4	1,798.5	0.00	0.00	0.00	
14,100.0	90.00	179.44	12,380.0	-1,857.6	586.3	1,898.2	0.00	0.00	0.00	
14,200.0	90.00	179.44	12,380.0	-1,957.6	587.3	1,998.0	0.00	0.00	0.00	
14,300.0	90.00	179.44	12,380.0	-2,057.6	588.3	2,097.7	0.00	0.00	0.00	
14,400.0	90.00	179.44	12,380.0	-2,157.6	589.3	2,197.5	0.00	0.00	0.00	
14,500.0	90.00	179.44	12,380.0	-2,257.5	590.2	2,297.2	0.00	0.00	0.00	
14,600.0	90.00	179.44	12,380.0	-2,357.5	591.2	2,397.0	0.00	0.00	0.00	
14,700.0	90.00	179.44	12,380.0	-2,457.5	592.2	2,496.8	0.00	0.00	0.00	
14,800.0	90.00	179.44	12,380.0	-2,557.5	593.1	2,596.5	0.00	0.00	0.00	
14,900.0	90.00	179.44	12,380.0	-2,657.5	594.1	2,696.3	0.00	0.00	0.00	
15,000.0	90.00	179.44	12,380.0	-2,757.5	595.1	2,796.0	0.00	0.00	0.00	
15,100.0	90.00	179.44	12,380.0	-2,857.5	596.1	2,895.8	0.00	0.00	0.00	
15,200.0	90.00	179.44	12,380.0	-2,957.5	597.0	2,995.6	0.00	0.00	0.00	
15,300.0	90.00	179.44	12,380.0	-3,057.5	598.0	3,095.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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	12,380.0	-3,157.5	599.0	3,195.1	0.00	0.00	0.00
15,500.0	90.00	179.44	12,380.0	-3,257.5	600.0	3,294.8	0.00	0.00	0.00
15,600.0	90.00	179.44	12,380.0	-3,357.5	600.9	3,394.6	0.00	0.00	0.00
15,700.0	90.00	179.44	12,380.0	-3,457.5	601.9	3,494.3	0.00	0.00	0.00
15,800.0	90.00	179.44	12,380.0	-3,557.5	602.9	3,594.1	0.00	0.00	0.00
15,900.0	90.00	179.44	12,380.0	-3,657.5	603.8	3,693.9	0.00	0.00	0.00
16,000.0	90.00	179.44	12,380.0	-3,757.5	604.8	3,793.6	0.00	0.00	0.00
16,100.0	90.00	179.44	12,380.0	-3,857.5	605.8	3,893.4	0.00	0.00	0.00
16,200.0	90.00	179.44	12,380.0	-3,957.5	606.8	3,993.1	0.00	0.00	0.00
16,300.0	90.00	179.44	12,380.0	-4,057.5	607.7	4,092.9	0.00	0.00	0.00
16,400.0	90.00	179.44	12,380.0	-4,157.5	608.7	4,192.6	0.00	0.00	0.00
16,500.0	90.00	179.44	12,380.0	-4,257.5	609.7	4,292.4	0.00	0.00	0.00
16,600.0	90.00	179.44	12,380.0	-4,357.4	610.6	4,392.2	0.00	0.00	0.00
16,700.0	90.00	179.44	12,380.0	-4,457.4	611.6	4,491.9	0.00	0.00	0.00
16,800.0	90.00	179.44	12,380.0	-4,557.4	612.6	4,591.7	0.00	0.00	0.00
16,900.0	90.00	179.44	12,380.0	-4,657.4	613.6	4,691.4	0.00	0.00	0.00
17,000.0	90.00	179.44	12,380.0	-4,757.4	614.5	4,791.2	0.00	0.00	0.00
17,100.0	90.00	179.44	12,380.0	-4,857.4	615.5	4,890.9	0.00	0.00	0.00
17,200.0	90.00	179.44	12,380.0	-4,957.4	616.5	4,990.7	0.00	0.00	0.00
17,300.0	90.00	179.44	12,380.0	-5,057.4	617.5	5,090.5	0.00	0.00	0.00
17,400.0	90.00	179.44	12,380.0	-5,157.4	618.4	5,190.2	0.00	0.00	0.00
17,500.0	90.00	179.44	12,380.0	-5,257.4	619.4	5,290.0	0.00	0.00	0.00
17,600.0	90.00	179.44	12,380.0	-5,357.4	620.4	5,389.7	0.00	0.00	0.00
17,700.0	90.00	179.44	12,380.0	-5,457.4	621.3	5,489.5	0.00	0.00	0.00
17,800.0	90.00	179.44	12,380.0	-5,557.4	622.3	5,589.2	0.00	0.00	0.00
17,900.0	90.00	179.44	12,380.0	-5,657.4	623.3	5,689.0	0.00	0.00	0.00
18,000.0	90.00	179.44	12,380.0	-5,757.4	624.3	5,788.8	0.00	0.00	0.00
18,100.0	90.00	179.44	12,380.0	-5,857.4	625.2	5,888.5	0.00	0.00	0.00
18,200.0	90.00	179.44	12,380.0	-5,957.4	626.2	5,988.3	0.00	0.00	0.00
18,300.0	90.00	179.44	12,380.0	-6,057.4	627.2	6,088.0	0.00	0.00	0.00
18,400.0	90.00	179.44	12,380.0	-6,157.4	628.2	6,187.8	0.00	0.00	0.00
18,500.0	90.00	179.44	12,380.0	-6,257.4	629.1	6,287.5	0.00	0.00	0.00
18,600.0	90.00	179.44	12,380.0	-6,357.4	630.1	6,387.3	0.00	0.00	0.00
18,700.0	90.00	179.44	12,380.0	-6,457.3	631.1	6,487.1	0.00	0.00	0.00
18,800.0	90.00	179.44	12,380.0	-6,557.3	632.0	6,586.8	0.00	0.00	0.00
18,900.0	90.00	179.44	12,380.0	-6,657.3	633.0	6,686.6	0.00	0.00	0.00
19,000.0	90.00	179.44	12,380.0	-6,757.3	634.0	6,786.3	0.00	0.00	0.00
19,100.0	90.00	179.44	12,380.0	-6,857.3	635.0	6,886.1	0.00	0.00	0.00
19,200.0	90.00	179.44	12,380.0	-6,957.3	635.9	6,985.8	0.00	0.00	0.00
19,300.0	90.00	179.44	12,380.0	-7,057.3	636.9	7,085.6	0.00	0.00	0.00
19,400.0	90.00	179.44	12,380.0	-7,157.3	637.9	7,185.4	0.00	0.00	0.00
19,500.0	90.00	179.44	12,380.0	-7,257.3	638.9	7,285.1	0.00	0.00	0.00
19,600.0	90.00	179.44	12,380.0	-7,357.3	639.8	7,384.9	0.00	0.00	0.00
19,700.0	90.00	179.44	12,380.0	-7,457.3	640.8	7,484.6	0.00	0.00	0.00
19,800.0	90.00	179.44	12,380.0	-7,557.3	641.8	7,584.4	0.00	0.00	0.00
19,900.0	90.00	179.44	12,380.0	-7,657.3	642.7	7,684.1	0.00	0.00	0.00
20,000.0	90.00	179.44	12,380.0	-7,757.3	643.7	7,783.9	0.00	0.00	0.00
20,100.0	90.00	179.44	12,380.0	-7,857.3	644.7	7,883.7	0.00	0.00	0.00
20,200.0	90.00	179.44	12,380.0	-7,957.3	645.7	7,983.4	0.00	0.00	0.00
20,300.0	90.00	179.44	12,380.0	-8,057.3	646.6	8,083.2	0.00	0.00	0.00
20,378.3	90.00	179.44	12,380.0	-8,135.6	647.4	8,161.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP_BOATER FED COI	0.00	0.00	12,380.0	-372.6	571.8	401,730.24	791,837.03	32° 6' 3.478 N	103° 23' 27.211 W
- plan misses target center by 6.2usft at 12615.2usft MD (12373.8 TVD, -373.2 N, 571.9 E)									
- Circle (radius 50.0)									
LTP_BOATER FED COM	90.00	179.44	12,380.0	-8,085.5	646.9	394,017.30	791,912.11	32° 4' 47.150 N	103° 23' 27.122 W
- plan misses target center by 28.3usft at 20300.0usft MD (12380.0 TVD, -8057.3 N, 646.6 E)									
- Circle (radius 50.0)									
PBHL_BOATER FED C	0.00	359.44	12,380.0	-8,135.6	647.4	393,967.22	791,912.58	32° 4' 46.654 N	103° 23' 27.121 W
- plan hits target center									
- Rectangle (sides W100.0 H7,763.0 D20.0)									

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(usft)	(usft)	Name	(")	(")
	20,378.9	12,380.0	5-1/2" Production Casing	5-1/2	6

DELAWARE BASIN EAST

**LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 602H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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	4/23/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,378.3	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary					
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning
Site Name					
Offset Well - Wellbore - Design					
BOATER FED COM PROJECT					
_BOATER FED COM 601H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867 CC, ES
_BOATER FED COM 601H - OWB - PWP0	2,100.0	2,096.8	93.4	81.5	7.863 SF
_BOATER FED COM 603H - OWB - PWP0					Out of range
_BOATER FED COM 701H - OWB - PWP0	2,000.0	2,000.0	30.0	18.6	2.623 Normal Operations, CC, ES, SF
_BOATER FED COM 702H - OWB - PWP0	2,421.6	2,417.3	29.7	16.5	2.248 Caution - Monitor Closely, CC, ES, SF
_BOATER FED COM 703H - OWB - PWP0					Out of range
_BOATER FED COM 801H - OWB - PWP0	2,000.0	2,000.0	119.7	108.3	10.465 CC, ES
_BOATER FED COM 801H - OWB - PWP0	2,100.0	2,095.9	123.1	111.3	10.365 SF
_BOATER FED COM 802H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245 CC, ES, SF
_BOATER FED COM 803H - OWB - PWP0	11,941.8	12,110.4	81.7	44.2	2.179 Caution - Monitor Closely, CC, ES, SF
_BOATER FED COM 804H - OWB - PWP0	11,989.0	12,027.4	893.3	851.7	21.458 CC
_BOATER FED COM 804H - OWB - PWP0	20,378.9	20,784.9	967.4	823.7	6.734 ES, SF
_BOATER FED COM 805H - OWB - PWP0					Out of range
_BOATER FED COM 806H - OWB - PWP0					Out of range
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP					Out of range
CAVE LION 5 TB FEDERAL - OWB - AWP					Out of range
CAVE LION 5 TB FEDERAL 008H - OWB - AWP	20,378.9	17,261.0	510.6	370.9	3.656 CC, ES, SF
CAVE LION 5 TB FEDERAL 015H - OWB - AWP					Out of range
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	20,378.3	17,619.0	354.3	247.0	3.301 ES, SF
CAVE LION 5 WA FEDERAL 009H - OWB - AWP	20,378.9	17,619.0	354.1	247.4	3.319 CC
CAVE LION 5 WC FEDERAL 002H - OWB - AWP					Out of range
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP					Out of range
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP					Out of range
CAVE LION 5 FEDERAL (5H, 1H)					
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F					Out of range
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5					Out of range
CHARLIE MURPHY 6 FC (18H, 15H, 14H, 12H)					
CHARLIE MURPHY 6 WXY FC 18H (MRO) - CHARLIE M					Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
GREEN BERET FED COM #501H - OWB - AWP						Out of range
GREEN BERET FED COM #602H - OWB - AWP						Out of range
GREEN BERET FED COM #603H - OWB - AWP	12,435.0	19,944.8	147.9	55.9	1.607	Caution - Monitor Closely, CC
GREEN BERET FED COM #603H - OWB - AWP	12,450.0	19,953.0	148.2	55.9	1.605	Caution - Monitor Closely, ES, SF
GREEN BERET FED COM #701H - OWB - AWP						Out of range
GREEN BERET FED COM #702H - OWB - AWP	12,500.0	20,435.0	870.4	769.4	8.618	SF
GREEN BERET FED COM #702H - OWB - AWP	12,550.0	20,435.0	866.1	766.7	8.711	ES
GREEN BERET FED COM #702H - OWB - AWP	12,566.0	20,435.0	865.9	767.0	8.756	CC
GREEN BERET FED COM #703H - OWB - AWP	12,500.0	20,139.0	324.5	229.7	3.423	SF
GREEN BERET FED COM #703H - OWB - AWP	12,525.0	20,139.0	322.2	228.9	3.453	ES
GREEN BERET FED COM #703H - OWB - AWP	12,533.2	20,139.0	322.0	229.3	3.474	CC
GREEN BERET FED COM #704H - OWB - AWP	12,500.0	20,274.0	621.2	527.7	6.643	SF
GREEN BERET FED COM #704H - OWB - AWP	12,525.0	20,274.0	620.4	527.2	6.661	ES
GREEN BERET FED COM #704H - OWB - AWP	12,527.9	20,274.0	620.3	527.3	6.664	CC
GREEN BERET FED COM #705H - OWB - AWP						Out of range
GREEN BERET FED COM #801H - OWB - AWP						Out of range
GREEN BERET FED COM #802H - OWB - AWP						Out of range
TELE DELUX 32 STATE 4H - OWB - AWP						Out of range
PITCHBLENDE FEDERAL PROJECT						
SQUARE BILL FED COM #1H - OWB - AWP						Out of range
SQUARE BILL FED COM #21Y - OWB - AWP						Out of range

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error: 0.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.6	-90.0	90.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.6	-90.0	90.0	88.0	1.99	45.198	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.6	-90.0	90.0	86.7	3.31	27.178	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.6	-90.0	90.0	85.8	4.20	21.452	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.6	-90.0	90.0	85.1	4.91	18.323	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.6	-90.0	90.0	84.5	5.53	16.266	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.6	-90.0	90.0	83.9	6.09	14.778	
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.6	-90.0	90.0	83.4	6.60	13.634	
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.6	-90.0	90.0	82.9	7.08	12.718	
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.6	-90.0	90.0	82.5	7.52	11.962	
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.6	-90.0	90.0	82.1	7.95	11.324	
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.6	-90.0	90.0	81.6	8.35	10.776	
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.6	-90.0	90.0	81.3	8.74	10.298	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.6	-90.0	90.0	80.9	9.11	9.876	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.6	-90.0	90.0	80.5	9.47	9.500	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.6	-90.0	90.0	80.2	9.82	9.162	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.6	-90.0	90.0	79.8	10.16	8.856	
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.6	-90.0	90.0	79.5	10.49	8.577	
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.6	-90.0	90.0	79.2	10.82	8.321	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
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	2,096.8	2,096.8	5.8	5.8	-177.59	-0.6	-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	-177.62	-0.5	-96.5	103.7	91.4	12.31	8.424	
2,300.0	2,299.5	2,287.8	2,287.3	6.3	6.2	-177.65	-0.3	-104.4	120.7	108.0	12.75	9.465	
2,400.0	2,398.7	2,380.7	2,379.6	6.5	6.5	-177.68	0.0	-115.2	144.4	131.2	13.22	10.924	
2,417.7	2,416.3	2,396.9	2,395.7	6.5	6.5	-177.68	0.0	-117.4	149.2	136.0	13.28	11.242	
2,500.0	2,497.6	2,471.4	2,469.3	6.7	6.7	-177.71	0.3	-128.7	173.3	159.7	13.61	12.735	
2,600.0	2,596.6	2,560.3	2,556.7	6.9	7.0	-177.70	0.6	-144.6	205.3	191.3	14.04	14.625	
2,700.0	2,695.5	2,647.2	2,641.7	7.2	7.2	-177.67	1.1	-162.8	240.2	225.8	14.43	16.647	
2,800.0	2,794.5	2,740.0	2,732.1	7.5	7.4	-177.64	1.6	-183.7	276.7	261.8	14.90	18.569	
2,900.0	2,893.4	2,833.1	2,822.9	7.7	7.7	-177.62	2.0	-204.7	313.1	297.7	15.43	20.287	
3,000.0	2,992.3	2,926.3	2,913.6	8.0	8.0	-177.60	2.5	-225.7	349.5	333.5	16.00	21.849	
3,100.0	3,091.3	3,019.4	3,004.3	8.3	8.3	-177.58	3.0	-246.7	386.0	369.4	16.59	23.267	
3,200.0	3,190.2	3,112.5	3,095.0	8.7	8.6	-177.57	3.5	-267.6	422.4	405.2	17.20	24.553	
3,300.0	3,289.2	3,205.6	3,185.8	9.0	8.9	-177.56	4.0	-288.6	458.9	441.0	17.84	25.720	
3,400.0	3,388.1	3,298.8	3,276.5	9.3	9.2	-177.55	4.5	-309.6	495.3	476.8	18.50	26.778	
3,500.0	3,487.0	3,391.9	3,367.2	9.7	9.6	-177.54	5.0	-330.6	531.7	512.6	19.17	27.739	
3,600.0	3,586.0	3,485.0	3,457.9	10.0	9.9	-177.53	5.5	-351.6	568.2	548.3	19.86	28.612	
3,700.0	3,684.9	3,578.1	3,548.7	10.4	10.3	-177.53	6.0	-372.6	604.6	584.1	20.56	29.408	
3,800.0	3,783.9	3,671.2	3,639.4	10.8	10.7	-177.52	6.5	-393.6	641.1	619.8	21.27	30.133	
3,900.0	3,882.8	3,764.4	3,730.1	11.1	11.0	-177.52	6.9	-414.6	677.5	655.5	22.00	30.796	
4,000.0	3,981.7	3,857.5	3,820.8	11.5	11.4	-177.51	7.4	-435.6	713.9	691.2	22.74	31.402	
4,100.0	4,080.7	3,950.6	3,911.6	11.9	11.8	-177.51	7.9	-456.5	750.4	726.9	23.48	31.959	
4,200.0	4,179.6	4,043.7	4,002.3	12.3	12.2	-177.50	8.4	-477.5	786.8	762.6	24.23	32.469	
4,300.0	4,278.5	4,136.9	4,093.0	12.7	12.6	-177.50	8.9	-498.5	823.3	798.3	24.99	32.940	
4,400.0	4,377.5	4,230.0	4,183.8	13.0	13.0	-177.50	9.4	-519.5	859.7	833.9	25.76	33.373	
4,500.0	4,476.4	4,323.1	4,274.5	13.4	13.4	-177.49	9.9	-540.5	896.1	869.6	26.53	33.774	
4,600.0	4,575.4	4,416.2	4,365.2	13.8	13.8	-177.49	10.4	-561.5	932.6	905.3	27.31	34.144	
4,700.0	4,674.3	4,509.4	4,455.9	14.2	14.2	-177.49	10.9	-582.5	969.0	940.9	28.10	34.488	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.2	-30.0	30.0					
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.2	-30.0	30.0	28.0	1.99	15.066		
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.2	-30.0	30.0	26.7	3.31	9.059		
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.2	-30.0	30.0	25.8	4.20	7.151		
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.2	-30.0	30.0	25.1	4.91	6.108		
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.2	-30.0	30.0	24.5	5.53	5.422		
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.2	-30.0	30.0	23.9	6.09	4.926		
700.0	700.0	700.0	700.0	3.1	3.1	-90.40	-0.2	-30.0	30.0	23.4	6.60	4.545		
800.0	800.0	800.0	800.0	3.3	3.3	-90.40	-0.2	-30.0	30.0	22.9	7.08	4.239		
900.0	900.0	900.0	900.0	3.6	3.6	-90.40	-0.2	-30.0	30.0	22.5	7.52	3.987		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.40	-0.2	-30.0	30.0	22.1	7.95	3.775		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.40	-0.2	-30.0	30.0	21.6	8.35	3.592		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.40	-0.2	-30.0	30.0	21.3	8.74	3.433		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.40	-0.2	-30.0	30.0	20.9	9.11	3.292		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.40	-0.2	-30.0	30.0	20.5	9.47	3.167		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.40	-0.2	-30.0	30.0	20.2	9.82	3.054		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.40	-0.2	-30.0	30.0	19.8	10.16	2.952 Normal Operations		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.40	-0.2	-30.0	30.0	19.5	10.49	2.859 Normal Operations		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.40	-0.2	-30.0	30.0	19.2	10.82	2.774 Normal Operations		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.40	-0.2	-30.0	30.0	18.9	11.13	2.695 Normal Operations		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.40	-0.2	-30.0	30.0	18.6	11.44	2.623 Normal Operations, CC, ES, SF		
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	-177.71	-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	-178.03	-0.2	-30.0	37.0	24.8	12.19	3.032		
2,300.0	2,299.5	2,299.5	2,299.5	6.3	6.0	-178.40	-0.2	-30.0	45.7	33.1	12.58	3.631		
2,400.0	2,398.7	2,398.7	2,398.7	6.5	6.2	-178.73	-0.2	-30.0	57.9	44.9	12.99	4.456		
2,417.7	2,416.3	2,416.3	2,416.3	6.5	6.2	-178.79	-0.2	-30.0	60.4	47.4	13.03	4.634		
2,500.0	2,497.6	2,497.6	2,497.6	6.7	6.3	-178.99	-0.2	-30.0	72.3	59.0	13.31	5.433		
2,600.0	2,596.6	2,596.6	2,596.6	6.9	6.4	-179.16	-0.2	-30.0	86.9	73.2	13.68	6.349		
2,700.0	2,695.5	2,695.5	2,695.5	7.2	6.6	-179.28	-0.2	-30.0	101.4	87.3	14.07	7.209		
2,800.0	2,794.5	2,794.5	2,794.5	7.5	6.7	-179.37	-0.2	-30.0	115.9	101.5	14.47	8.013		
2,900.0	2,893.4	2,893.4	2,893.4	7.7	6.8	-179.44	-0.2	-30.0	130.5	115.6	14.89	8.764		
3,000.0	2,992.3	2,992.3	2,992.3	8.0	7.0	-179.49	-0.2	-30.0	145.0	129.7	15.32	9.465		
3,100.0	3,091.3	3,091.3	3,091.3	8.3	7.1	-179.54	-0.2	-30.0	159.5	143.8	15.76	10.120		
3,200.0	3,190.2	3,190.2	3,190.2	8.7	7.2	-179.58	-0.2	-30.0	174.0	157.8	16.22	10.731		
3,300.0	3,289.2	3,289.2	3,289.2	9.0	7.4	-179.61	-0.2	-30.0	188.6	171.9	16.69	11.301		
3,400.0	3,388.1	3,388.1	3,388.1	9.3	7.5	-179.64	-0.2	-30.0	203.1	185.9	17.16	11.833		
3,500.0	3,487.0	3,487.0	3,487.0	9.7	7.6	-179.66	-0.2	-30.0	217.6	200.0	17.65	12.330		
3,600.0	3,586.0	3,586.0	3,586.0	10.0	7.7	-179.68	-0.2	-30.0	232.2	214.0	18.15	12.794		
3,700.0	3,684.9	3,684.9	3,684.9	10.4	7.9	-179.70	-0.2	-30.0	246.7	228.0	18.65	13.228		
3,800.0	3,783.9	3,783.9	3,783.9	10.8	8.0	-179.72	-0.2	-30.0	261.2	242.1	19.16	13.634		
3,900.0	3,882.8	3,882.8	3,882.8	11.1	8.1	-179.73	-0.2	-30.0	275.8	256.1	19.68	14.014		
4,000.0	3,981.7	3,981.7	3,981.7	11.5	8.2	-179.75	-0.2	-30.0	290.3	270.1	20.20	14.371		
4,100.0	4,080.7	4,073.1	4,073.1	11.9	8.4	-179.72	0.0	-30.9	305.8	285.1	20.71	14.764		
4,200.0	4,179.6	4,161.9	4,161.8	12.3	8.5	-179.58	0.7	-34.5	324.3	303.1	21.20	15.299		
4,300.0	4,278.5	4,256.2	4,255.9	12.7	8.6	-179.35	1.8	-40.6	345.1	323.4	21.73	15.883		
4,400.0	4,377.5	4,354.0	4,353.4	13.0	8.8	-179.14	3.1	-47.0	366.1	343.8	22.28	16.434		
4,500.0	4,476.4	4,451.7	4,451.0	13.4	8.9	-178.95	4.3	-53.5	387.1	364.3	22.80	16.977		
4,600.0	4,575.4	4,549.5	4,548.5	13.8	9.0	-178.78	5.5	-60.0	408.1	384.7	23.33	17.491		
4,700.0	4,674.3	4,647.2	4,646.1	14.2	9.1	-178.63	6.8	-66.4	429.1	405.2	23.87	17.978		
4,800.0	4,773.2	4,745.0	4,743.6	14.6	9.2	-178.49	8.0	-72.9	450.1	425.7	24.41	18.440		
4,900.0	4,872.2	4,842.8	4,841.2	15.0	9.3	-178.36	9.2	-79.4	471.1	446.1	24.95	18.878		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
5,000.0	4,971.1	4,940.5	4,938.7	15.4	9.4	-178.25	10.5	-85.8	492.1	466.6	25.51	19.294		
5,100.0	5,070.1	5,038.3	5,036.2	15.8	9.5	-178.14	11.7	-92.3	513.1	487.1	26.06	19.689		
5,200.0	5,169.0	5,136.1	5,133.8	16.3	9.6	-178.05	13.0	-98.8	534.1	507.5	26.62	20.065		
5,300.0	5,267.9	5,233.8	5,231.3	16.7	9.7	-177.95	14.2	-105.2	555.1	528.0	27.18	20.423		
5,400.0	5,366.9	5,331.6	5,328.9	17.1	9.8	-177.87	15.4	-111.7	576.2	548.4	27.75	20.763		
5,500.0	5,465.8	5,429.4	5,426.4	17.5	9.9	-177.79	16.7	-118.2	597.2	568.9	28.32	21.087		
5,600.0	5,564.7	5,527.1	5,523.9	17.9	10.0	-177.72	17.9	-124.6	618.2	589.3	28.89	21.396		
5,700.0	5,663.7	5,624.9	5,621.5	18.3	10.2	-177.65	19.2	-131.1	639.2	609.7	29.47	21.689		
5,703.8	5,667.5	5,628.6	5,625.2	18.3	10.2	-177.65	19.2	-131.3	640.0	610.5	29.49	21.700		
5,800.0	5,762.7	5,723.4	5,719.8	18.7	10.3	-177.59	20.4	-137.6	659.4	629.4	30.04	21.953		
5,900.0	5,862.0	5,834.6	5,830.8	19.1	10.4	-177.54	21.6	-143.8	676.9	646.3	30.68	22.066		
6,000.0	5,961.5	5,946.8	5,942.9	19.5	10.5	-177.52	22.4	-147.9	690.8	659.5	31.30	22.072		
6,100.0	6,061.1	6,059.7	6,055.8	19.9	10.6	-177.53	22.8	-149.8	701.1	669.2	31.89	21.981		
6,200.0	6,160.9	6,164.8	6,160.9	20.2	10.7	-177.56	22.8	-150.0	708.0	675.6	32.42	21.839		
6,300.0	6,260.8	6,264.7	6,260.8	20.6	10.8	-177.57	22.8	-150.0	713.0	680.1	32.89	21.679		
6,400.0	6,360.7	6,364.6	6,360.7	20.9	10.9	-177.59	22.8	-150.0	716.3	683.0	33.33	21.494		
6,500.0	6,460.7	6,464.6	6,460.7	21.1	11.0	-177.59	22.8	-150.0	717.9	684.2	33.70	21.301		
6,539.3	6,500.0	6,503.9	6,500.0	21.2	11.1	-90.42	22.8	-150.0	718.0	684.2	33.78	21.256		
6,600.0	6,560.7	6,564.6	6,560.7	21.2	11.1	-90.42	22.8	-150.0	718.0	684.2	33.83	21.221		
6,700.0	6,660.7	6,664.6	6,660.7	21.2	11.2	-90.42	22.8	-150.0	718.0	684.1	33.95	21.150		
6,800.0	6,760.7	6,764.6	6,760.7	21.3	11.3	-90.42	22.8	-150.0	718.0	684.0	34.06	21.080		
6,900.0	6,860.7	6,864.6	6,860.7	21.3	11.4	-90.42	22.8	-150.0	718.0	683.8	34.18	21.010		
7,000.0	6,960.7	6,964.6	6,960.7	21.4	11.5	-90.42	22.8	-150.0	718.0	683.7	34.29	20.939		
7,100.0	7,060.7	7,064.6	7,060.7	21.4	11.6	-90.42	22.8	-150.0	718.0	683.6	34.41	20.870		
7,200.0	7,160.7	7,164.6	7,160.7	21.4	11.7	-90.42	22.8	-150.0	718.0	683.5	34.52	20.800		
7,300.0	7,260.7	7,264.6	7,260.7	21.5	11.8	-90.42	22.8	-150.0	718.0	683.4	34.64	20.731		
7,400.0	7,360.7	7,364.6	7,360.7	21.5	11.9	-90.42	22.8	-150.0	718.0	683.3	34.75	20.661		
7,500.0	7,460.7	7,464.6	7,460.7	21.6	12.0	-90.42	22.8	-150.0	718.0	683.2	34.87	20.592		
7,600.0	7,560.7	7,564.6	7,560.7	21.6	12.1	-90.42	22.8	-150.0	718.0	683.0	34.98	20.524		
7,700.0	7,660.7	7,664.6	7,660.7	21.7	12.2	-90.42	22.8	-150.0	718.0	682.9	35.10	20.455		
7,800.0	7,760.7	7,764.6	7,760.7	21.7	12.3	-90.42	22.8	-150.0	718.0	682.8	35.22	20.387		
7,900.0	7,860.7	7,864.6	7,860.7	21.8	12.3	-90.42	22.8	-150.0	718.0	682.7	35.34	20.319		
8,000.0	7,960.7	7,964.6	7,960.7	21.8	12.4	-90.42	22.8	-150.0	718.0	682.6	35.45	20.252		
8,100.0	8,060.7	8,064.6	8,060.7	21.8	12.5	-90.42	22.8	-150.0	718.0	682.4	35.57	20.184		
8,200.0	8,160.7	8,164.6	8,160.7	21.9	12.6	-90.42	22.8	-150.0	718.0	682.3	35.69	20.117		
8,300.0	8,260.7	8,264.6	8,260.7	21.9	12.7	-90.42	22.8	-150.0	718.0	682.2	35.81	20.050		
8,400.0	8,360.7	8,364.6	8,360.7	22.0	12.8	-90.42	22.8	-150.0	718.0	682.1	35.93	19.984		
8,500.0	8,460.7	8,464.6	8,460.7	22.0	12.9	-90.42	22.8	-150.0	718.0	682.0	36.05	19.917		
8,600.0	8,560.7	8,564.6	8,560.7	22.1	13.0	-90.42	22.8	-150.0	718.0	681.8	36.17	19.851		
8,700.0	8,660.7	8,664.6	8,660.7	22.1	13.1	-90.42	22.8	-150.0	718.0	681.7	36.29	19.785		
8,800.0	8,760.7	8,764.6	8,760.7	22.2	13.2	-90.42	22.8	-150.0	718.0	681.6	36.41	19.720		
8,900.0	8,860.7	8,864.6	8,860.7	22.2	13.3	-90.42	22.8	-150.0	718.0	681.5	36.53	19.655		
9,000.0	8,960.7	8,964.6	8,960.7	22.3	13.4	-90.42	22.8	-150.0	718.0	681.4	36.65	19.590		
9,100.0	9,060.7	9,064.6	9,060.7	22.3	13.4	-90.42	22.8	-150.0	718.0	681.2	36.77	19.525		
9,200.0	9,160.7	9,164.6	9,160.7	22.4	13.5	-90.42	22.8	-150.0	718.0	681.1	36.90	19.460		
9,300.0	9,260.7	9,264.6	9,260.7	22.4	13.6	-90.42	22.8	-150.0	718.0	681.0	37.02	19.396		
9,400.0	9,360.7	9,364.6	9,360.7	22.4	13.7	-90.42	22.8	-150.0	718.0	680.9	37.14	19.332		
9,500.0	9,460.7	9,464.6	9,460.7	22.5	13.8	-90.42	22.8	-150.0	718.0	680.8	37.26	19.268		
9,600.0	9,560.7	9,564.6	9,560.7	22.5	13.9	-90.42	22.8	-150.0	718.0	680.6	37.39	19.205		
9,700.0	9,660.7	9,664.6	9,660.7	22.6	14.0	-90.42	22.8	-150.0	718.0	680.5	37.51	19.142		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
9,800.0	9,760.7	9,764.6	9,760.7	22.6	14.1	-90.42	22.8	-150.0	718.0	680.4	37.63	19.079		
9,900.0	9,860.7	9,864.6	9,860.7	22.7	14.2	-90.42	22.8	-150.0	718.0	680.3	37.76	19.016		
10,000.0	9,960.7	9,964.6	9,960.7	22.7	14.3	-90.42	22.8	-150.0	718.0	680.1	37.88	18.954		
10,100.0	10,060.7	10,064.6	10,060.7	22.8	14.3	-90.42	22.8	-150.0	718.0	680.0	38.01	18.892		
10,200.0	10,160.7	10,164.6	10,160.7	22.8	14.4	-90.42	22.8	-150.0	718.0	679.9	38.13	18.830		
10,300.0	10,260.7	10,264.6	10,260.7	22.9	14.5	-90.42	22.8	-150.0	718.0	679.8	38.26	18.768		
10,400.0	10,360.7	10,364.6	10,360.7	22.9	14.6	-90.42	22.8	-150.0	718.0	679.6	38.38	18.707		
10,500.0	10,460.7	10,464.6	10,460.7	23.0	14.7	-90.42	22.8	-150.0	718.0	679.5	38.51	18.646		
10,600.0	10,560.7	10,564.6	10,560.7	23.0	14.8	-90.42	22.8	-150.0	718.0	679.4	38.63	18.585		
10,700.0	10,660.7	10,664.6	10,660.7	23.1	14.9	-90.42	22.8	-150.0	718.0	679.3	38.76	18.525		
10,800.0	10,760.7	10,764.6	10,760.7	23.1	15.0	-90.42	22.8	-150.0	718.0	679.1	38.89	18.465		
10,900.0	10,860.7	10,864.6	10,860.7	23.2	15.1	-90.42	22.8	-150.0	718.0	679.0	39.01	18.405		
11,000.0	10,960.7	10,964.6	10,960.7	23.2	15.2	-90.42	22.8	-150.0	718.0	678.9	39.14	18.345		
11,100.0	11,060.7	11,064.6	11,060.7	23.3	15.2	-90.42	22.8	-150.0	718.0	678.8	39.27	18.286		
11,200.0	11,160.7	11,164.6	11,160.7	23.3	15.3	-90.42	22.8	-150.0	718.0	678.6	39.39	18.226		
11,300.0	11,260.7	11,264.6	11,260.7	23.4	15.4	-90.42	22.8	-150.0	718.0	678.5	39.52	18.168		
11,400.0	11,360.7	11,364.6	11,360.7	23.4	15.5	-90.42	22.8	-150.0	718.0	678.4	39.65	18.109		
11,500.0	11,460.7	11,464.6	11,460.7	23.5	15.6	-90.42	22.8	-150.0	718.0	678.2	39.78	18.051		
11,600.0	11,560.7	11,564.6	11,560.7	23.5	15.7	-90.42	22.8	-150.0	718.0	678.1	39.91	17.993		
11,700.0	11,660.7	11,664.6	11,660.7	23.6	15.8	-90.42	22.8	-150.0	718.0	678.0	40.04	17.935		
11,800.0	11,760.7	11,764.6	11,760.7	23.6	15.9	-90.42	22.8	-150.0	718.0	677.9	40.16	17.877		
11,900.0	11,860.7	11,864.6	11,860.7	23.7	16.0	-90.42	22.8	-150.0	718.0	677.7	40.29	17.820		
11,941.8	11,902.5	11,906.4	11,902.5	23.7	16.0	-90.42	22.8	-150.0	718.0	677.7	40.34	17.800		
11,950.0	11,910.7	11,914.6	11,910.7	23.7	16.0	90.15	22.8	-150.0	718.0	677.7	40.34	17.798		
11,975.0	11,935.7	11,939.6	11,935.7	23.7	16.0	90.23	22.8	-150.0	718.0	677.7	40.36	17.792		
12,000.0	11,960.5	11,964.4	11,960.5	23.7	16.0	90.42	22.8	-150.0	718.0	677.7	40.37	17.788		
12,025.0	11,985.3	11,989.2	11,985.3	23.7	16.1	90.71	22.8	-150.0	718.1	677.7	40.38	17.784		
12,050.0	12,009.8	12,013.7	12,009.8	23.7	16.1	91.09	22.8	-150.0	718.2	677.8	40.38	17.783		
12,075.0	12,034.0	12,037.9	12,034.0	23.7	16.1	91.55	22.8	-150.0	718.3	677.9	40.39	17.785		
12,100.0	12,057.8	12,061.7	12,057.8	23.7	16.1	92.09	22.8	-150.0	718.6	678.2	40.39	17.790		
12,125.0	12,081.2	12,085.8	12,081.9	23.7	16.1	92.71	22.7	-150.0	718.9	678.5	40.39	17.799		
12,150.0	12,104.2	12,111.4	12,107.5	23.7	16.1	93.37	21.5	-150.0	719.4	679.1	40.39	17.814		
12,175.0	12,126.5	12,137.5	12,133.4	23.6	16.1	94.04	18.9	-150.0	720.1	679.7	40.38	17.833		
12,200.0	12,148.3	12,164.2	12,159.8	23.6	16.1	94.69	14.7	-149.9	720.8	680.4	40.38	17.851		
12,225.0	12,169.4	12,191.5	12,186.5	23.6	16.1	95.35	9.0	-149.9	721.6	681.2	40.38	17.870		
12,250.0	12,189.7	12,219.4	12,213.4	23.6	16.1	95.99	1.5	-149.8	722.5	682.1	40.39	17.887		
12,275.0	12,209.3	12,248.0	12,240.5	23.6	16.1	96.63	-7.7	-149.7	723.5	683.0	40.41	17.902		
12,300.0	12,228.0	12,277.3	12,267.6	23.6	16.0	97.27	-18.9	-149.6	724.5	684.1	40.45	17.913		
12,325.0	12,245.9	12,307.4	12,294.6	23.6	16.0	97.88	-32.0	-149.5	725.6	685.1	40.49	17.920		
12,350.0	12,262.8	12,338.2	12,321.3	23.7	16.0	98.49	-47.2	-149.3	726.8	686.2	40.55	17.920		
12,375.0	12,278.7	12,369.7	12,347.7	23.7	16.0	99.07	-64.5	-149.1	727.9	687.3	40.63	17.914		
12,400.0	12,293.5	12,402.1	12,373.5	23.7	16.0	99.64	-84.0	-149.0	729.1	688.4	40.73	17.901		
12,425.0	12,307.3	12,435.2	12,398.5	23.7	16.0	100.18	-105.8	-148.7	730.3	689.5	40.85	17.879		
12,450.0	12,320.0	12,469.1	12,422.4	23.7	16.0	100.70	-129.8	-148.5	731.5	690.5	40.98	17.848		
12,475.0	12,331.6	12,503.8	12,445.1	23.7	16.0	101.18	-156.1	-148.3	732.6	691.5	41.13	17.810		
12,500.0	12,342.0	12,539.3	12,466.2	23.7	16.1	101.62	-184.5	-148.0	733.6	692.3	41.30	17.765		
12,525.0	12,351.1	12,575.4	12,485.5	23.7	16.1	102.02	-215.1	-147.7	734.6	693.1	41.47	17.713		
12,550.0	12,359.1	12,612.2	12,502.7	23.8	16.1	102.38	-247.6	-147.4	735.5	693.8	41.65	17.657		
12,575.0	12,365.7	12,649.6	12,517.6	23.8	16.1	102.68	-281.9	-147.0	736.2	694.4	41.83	17.599		
12,600.0	12,371.2	12,687.5	12,529.9	23.8	16.1	102.93	-317.7	-146.7	736.9	694.9	42.01	17.540		
12,625.0	12,375.3	12,725.8	12,539.4	23.8	16.2	103.12	-354.8	-146.3	737.3	695.2	42.18	17.482		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:					Offset Well Error: 0.0 usft	
Measured Depth	Vertical Reference	Measured Depth	Vertical Offset	Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		No-Go Distance	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
12,650.0	12,378.1	12,764.3	12,545.9	23.9	16.2	103.25	-392.8	-145.9	737.7	695.3	42.33	17.427		
12,675.0	12,379.7	12,803.1	12,549.4	23.9	16.2	103.31	-431.4	-145.6	737.8	695.4	42.46	17.377		
12,691.8	12,380.0	12,829.2	12,550.0	23.9	16.2	103.32	-457.5	-145.3	737.8	695.3	42.54	17.346		
12,693.2	12,380.0	12,831.4	12,549.9	23.9	16.2	103.32	-459.6	-145.3	737.8	695.3	42.54	17.344		
12,700.0	12,380.0	12,836.4	12,550.0	23.9	16.2	103.32	-464.6	-145.2	737.8	695.3	42.57	17.332		
12,800.0	12,380.0	12,943.1	12,550.0	24.1	16.4	103.32	-571.3	-144.1	737.7	694.7	43.05	17.138		
12,900.0	12,380.0	13,076.4	12,550.0	24.3	16.7	103.40	-704.5	-138.4	734.6	690.9	43.66	16.825		
13,000.0	12,380.0	13,208.9	12,550.0	24.6	17.2	103.59	-836.5	-126.7	726.9	682.5	44.36	16.386		
13,100.0	12,380.0	13,327.7	12,550.0	24.9	17.6	103.86	-954.3	-111.2	715.1	670.0	45.13	15.847		
13,200.0	12,380.0	13,426.9	12,550.0	25.2	17.9	104.12	-1,052.5	-97.4	702.5	656.6	45.94	15.292		
13,300.0	12,380.0	13,500.0	12,550.0	25.5	18.2	104.30	-1,125.0	-87.9	691.1	644.3	46.78	14.774		
13,400.0	12,380.0	13,590.3	12,550.0	25.9	18.6	104.47	-1,214.8	-78.7	682.2	634.5	47.68	14.307		
13,500.0	12,380.0	13,671.4	12,550.0	26.3	19.0	104.58	-1,295.7	-72.8	676.2	627.6	48.58	13.918		
13,600.0	12,380.0	13,752.8	12,550.0	26.8	19.5	104.64	-1,377.0	-69.2	672.8	623.3	49.48	13.598		
13,700.0	12,380.0	13,839.7	12,550.0	27.3	19.9	104.65	-1,463.9	-67.8	672.1	621.7	50.40	13.335		
13,800.0	12,380.0	13,939.7	12,550.0	27.8	20.4	104.65	-1,563.9	-66.8	672.1	620.7	51.43	13.068		
13,900.0	12,380.0	14,039.7	12,550.0	28.3	21.0	104.65	-1,663.9	-65.9	672.1	619.6	52.50	12.802		
14,000.0	12,380.0	14,139.7	12,550.0	28.8	21.5	104.65	-1,763.9	-64.9	672.1	618.5	53.61	12.538		
14,100.0	12,380.0	14,239.7	12,550.0	29.4	22.1	104.65	-1,863.9	-63.9	672.1	617.4	54.75	12.276		
14,200.0	12,380.0	14,339.7	12,550.0	30.0	22.7	104.65	-1,963.9	-62.9	672.1	616.2	55.92	12.018		
14,300.0	12,380.0	14,439.7	12,550.0	30.6	23.3	104.65	-2,063.9	-61.9	672.1	615.0	57.13	11.765		
14,400.0	12,380.0	14,539.7	12,550.0	31.2	24.0	104.65	-2,163.9	-61.0	672.1	613.7	58.36	11.516		
14,500.0	12,380.0	14,639.7	12,550.0	31.9	24.6	104.65	-2,263.9	-60.0	672.1	612.5	59.63	11.272		
14,600.0	12,380.0	14,739.7	12,550.0	32.5	25.3	104.65	-2,363.9	-59.0	672.1	611.2	60.92	11.033		
14,700.0	12,380.0	14,839.7	12,550.0	33.2	25.9	104.65	-2,463.9	-58.0	672.1	609.9	62.23	10.801		
14,800.0	12,380.0	14,939.7	12,550.0	33.9	26.6	104.65	-2,563.9	-57.1	672.1	608.5	63.56	10.574		
14,900.0	12,380.0	15,039.7	12,550.0	34.6	27.3	104.65	-2,663.9	-56.1	672.1	607.2	64.92	10.353		
15,000.0	12,380.0	15,139.7	12,550.0	35.3	28.0	104.65	-2,763.9	-55.1	672.1	605.8	66.29	10.138		
15,100.0	12,380.0	15,239.7	12,550.0	36.0	28.7	104.65	-2,863.9	-54.1	672.1	604.4	67.69	9.929		
15,200.0	12,380.0	15,339.7	12,550.0	36.8	29.4	104.65	-2,963.9	-53.2	672.1	603.0	69.10	9.726		
15,300.0	12,380.0	15,439.7	12,550.0	37.5	30.2	104.65	-3,063.9	-52.2	672.1	601.5	70.53	9.529		
15,400.0	12,380.0	15,539.7	12,550.0	38.3	30.9	104.65	-3,163.9	-51.2	672.1	600.1	71.97	9.338		
15,500.0	12,380.0	15,639.7	12,550.0	39.0	31.6	104.65	-3,263.8	-50.2	672.1	598.6	73.43	9.153		
15,600.0	12,380.0	15,739.7	12,550.0	39.8	32.4	104.65	-3,363.8	-49.2	672.1	597.2	74.90	8.973		
15,700.0	12,380.0	15,839.7	12,550.0	40.6	33.1	104.65	-3,463.8	-48.3	672.1	595.7	76.38	8.799		
15,800.0	12,380.0	15,939.7	12,550.0	41.4	33.9	104.65	-3,563.8	-47.3	672.1	594.2	77.88	8.629		
15,900.0	12,380.0	16,039.7	12,550.0	42.2	34.6	104.65	-3,663.8	-46.3	672.0	592.7	79.39	8.465		
16,000.0	12,380.0	16,139.7	12,550.0	43.0	35.4	104.65	-3,763.8	-45.3	672.0	591.1	80.91	8.306		
16,100.0	12,380.0	16,239.7	12,550.0	43.8	36.2	104.65	-3,863.8	-44.4	672.0	589.6	82.43	8.152		
16,200.0	12,380.0	16,339.7	12,550.0	44.6	36.9	104.65	-3,963.8	-43.4	672.0	588.1	83.97	8.003		
16,300.0	12,380.0	16,439.7	12,550.0	45.4	37.7	104.65	-4,063.8	-42.4	672.0	586.5	85.52	7.858		
16,400.0	12,380.0	16,539.7	12,550.0	46.2	38.5	104.65	-4,163.8	-41.4	672.0	584.9	87.08	7.718		
16,500.0	12,380.0	16,639.7	12,550.0	47.1	39.3	104.65	-4,263.8	-40.5	672.0	583.4	88.64	7.581		
16,600.0	12,380.0	16,739.7	12,550.0	47.9	40.1	104.65	-4,363.8	-39.5	672.0	581.8	90.21	7.449		
16,700.0	12,380.0	16,839.7	12,550.0	48.8	40.8	104.65	-4,463.8	-38.5	672.0	580.2	91.79	7.321		
16,800.0	12,380.0	16,939.7	12,550.0	49.6	41.6	104.65	-4,563.8	-37.5	672.0	578.6	93.38	7.197		
16,900.0	12,380.0	17,039.7	12,550.0	50.5	42.4	104.65	-4,663.8	-36.5	672.0	577.0	94.97	7.076		
17,000.0	12,380.0	17,139.7	12,550.0	51.3	43.2	104.65	-4,763.8	-35.6	672.0	575.4	96.57	6.959		
17,100.0	12,380.0	17,239.7	12,550.0	52.2	44.0	104.65	-4,863.8	-34.6	672.0	573.8	98.18	6.845		
17,200.0	12,380.0	17,339.7	12,550.0	53.0	44.8	104.65	-4,963.8	-33.6	672.0	572.2	99.79	6.734		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:					Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
17,300.0	12,380.0	17,439.7	12,550.0	53.9	45.6	104.65	-5,063.8	-32.6	672.0	570.6	101.40	6.627		
17,400.0	12,380.0	17,539.7	12,550.0	54.8	46.4	104.65	-5,163.8	-31.7	672.0	569.0	103.02	6.523		
17,500.0	12,380.0	17,639.7	12,550.0	55.6	47.2	104.65	-5,263.8	-30.7	672.0	567.3	104.65	6.421		
17,600.0	12,380.0	17,739.7	12,550.0	56.5	48.1	104.65	-5,363.7	-29.7	672.0	565.7	106.28	6.323		
17,700.0	12,380.0	17,839.7	12,550.0	57.4	48.9	104.65	-5,463.7	-28.7	672.0	564.1	107.92	6.227		
17,800.0	12,380.0	17,939.7	12,550.0	58.3	49.7	104.65	-5,563.7	-27.8	672.0	562.4	109.56	6.133		
17,900.0	12,380.0	18,039.7	12,550.0	59.1	50.5	104.65	-5,663.7	-26.8	672.0	560.8	111.20	6.043		
18,000.0	12,380.0	18,139.7	12,550.0	60.0	51.3	104.65	-5,763.7	-25.8	672.0	559.1	112.85	5.955		
18,100.0	12,380.0	18,239.7	12,550.0	60.9	52.1	104.65	-5,863.7	-24.8	672.0	557.5	114.50	5.869		
18,200.0	12,380.0	18,339.7	12,550.0	61.8	52.9	104.65	-5,963.7	-23.9	672.0	555.8	116.16	5.785		
18,300.0	12,380.0	18,439.7	12,550.0	62.7	53.8	104.65	-6,063.7	-22.9	671.9	554.1	117.81	5.703		
18,400.0	12,380.0	18,539.7	12,550.0	63.6	54.6	104.65	-6,163.7	-21.9	671.9	552.5	119.48	5.624		
18,500.0	12,380.0	18,639.7	12,550.0	64.5	55.4	104.65	-6,263.7	-20.9	671.9	550.8	121.14	5.547		
18,600.0	12,380.0	18,739.7	12,550.0	65.4	56.2	104.66	-6,363.7	-19.9	671.9	549.1	122.81	5.471		
18,700.0	12,380.0	18,839.7	12,550.0	66.3	57.0	104.66	-6,463.7	-19.0	671.9	547.5	124.48	5.398		
18,800.0	12,380.0	18,939.7	12,550.0	67.2	57.9	104.66	-6,563.7	-18.0	671.9	545.8	126.15	5.326		
18,900.0	12,380.0	19,039.7	12,550.0	68.1	58.7	104.66	-6,663.7	-17.0	671.9	544.1	127.83	5.256		
19,000.0	12,380.0	19,139.7	12,550.0	69.0	59.5	104.66	-6,763.7	-16.0	671.9	542.4	129.51	5.188		
19,100.0	12,380.0	19,239.7	12,550.0	69.9	60.4	104.66	-6,863.7	-15.1	671.9	540.7	131.19	5.122		
19,200.0	12,380.0	19,339.7	12,550.0	70.8	61.2	104.66	-6,963.7	-14.1	671.9	539.0	132.87	5.057		
19,300.0	12,380.0	19,439.7	12,550.0	71.7	62.0	104.66	-7,063.7	-13.1	671.9	537.3	134.56	4.993		
19,400.0	12,380.0	19,539.7	12,550.0	72.6	62.8	104.66	-7,163.7	-12.1	671.9	535.7	136.25	4.931		
19,500.0	12,380.0	19,639.7	12,550.0	73.5	63.7	104.66	-7,263.7	-11.2	671.9	534.0	137.94	4.871		
19,600.0	12,380.0	19,739.7	12,550.0	74.5	64.5	104.66	-7,363.7	-10.2	671.9	532.3	139.63	4.812		
19,700.0	12,380.0	19,839.7	12,550.0	75.4	65.3	104.66	-7,463.6	-9.2	671.9	530.6	141.32	4.754		
19,800.0	12,380.0	19,939.7	12,550.0	76.3	66.2	104.66	-7,563.6	-8.2	671.9	528.9	143.02	4.698		
19,900.0	12,380.0	20,039.7	12,550.0	77.2	67.0	104.66	-7,663.6	-7.2	671.9	527.2	144.72	4.643		
20,000.0	12,380.0	20,139.7	12,550.0	78.1	67.8	104.66	-7,763.6	-6.3	671.9	525.5	146.42	4.589		
20,100.0	12,380.0	20,239.7	12,550.0	79.0	68.7	104.66	-7,863.6	-5.3	671.9	523.8	148.12	4.536		
20,200.0	12,380.0	20,339.7	12,550.0	80.0	69.5	104.66	-7,963.6	-4.3	671.9	522.0	149.82	4.484		
20,300.0	12,380.0	20,439.7	12,550.0	80.9	70.3	104.66	-8,063.6	-3.3	671.9	520.3	151.53	4.434		
20,375.9	12,380.0	20,515.7	12,550.0	81.6	71.0	104.66	-8,139.5	-2.6	671.9	519.0	152.82	4.396		
20,378.3	12,380.0	20,516.6	12,550.0	81.6	71.0	104.66	-8,140.4	-2.6	671.9	519.0	152.84	4.396		
20,378.9	12,380.0	20,516.6	12,550.0	81.6	71.0	104.66	-8,140.4	-2.6	671.9	519.0	152.84	4.396		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.2	30.0	30.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.2	30.0	30.0	28.0	1.99	15.066		
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.2	30.0	30.0	26.7	3.31	9.059		
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.2	30.0	30.0	25.8	4.20	7.151		
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.2	30.0	30.0	25.1	4.91	6.108		
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.2	30.0	30.0	24.5	5.53	5.422		
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.2	30.0	30.0	23.9	6.09	4.926		
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.2	30.0	30.0	23.4	6.60	4.545		
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.2	30.0	30.0	22.9	7.08	4.239		
900.0	900.0	900.0	900.0	3.6	3.6	89.60	0.2	30.0	30.0	22.5	7.52	3.987		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	0.2	30.0	30.0	22.1	7.95	3.775		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	0.2	30.0	30.0	21.6	8.35	3.592		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	0.2	30.0	30.0	21.3	8.74	3.433		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.2	30.0	30.0	20.9	9.11	3.292		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.2	30.0	30.0	20.5	9.47	3.167		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.2	30.0	30.0	20.2	9.82	3.054		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.2	30.0	30.0	19.8	10.16	2.952 Normal Operations		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.2	30.0	30.0	19.5	10.49	2.859 Normal Operations		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.2	30.0	30.0	19.2	10.82	2.774 Normal Operations		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.2	30.0	30.0	18.9	11.13	2.695 Normal Operations		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.2	30.0	30.0	18.6	11.44	2.622 Normal Operations		
2,100.0	2,100.0	2,099.0	2,098.9	5.8	5.8	2.50	0.3	31.7	30.0	18.1	11.89	2.523 Normal Operations		
2,200.0	2,199.8	2,197.9	2,197.8	6.0	6.0	2.73	0.4	36.8	29.9	17.6	12.30	2.433 Caution - Monitor Closely		
2,300.0	2,299.5	2,296.9	2,296.4	6.3	6.2	3.11	0.6	45.4	29.9	17.1	12.73	2.346 Caution - Monitor Closely		
2,400.0	2,398.7	2,395.9	2,394.6	6.5	6.4	3.65	0.9	57.3	29.7	16.6	13.16	2.260 Caution - Monitor Closely		
2,417.7	2,416.3	2,413.4	2,412.0	6.5	6.4	3.77	1.0	59.8	29.7	16.5	13.20	2.250 Caution - Monitor Closely		
2,421.6	2,420.1	2,417.3	2,415.8	6.6	6.5	3.79	1.0	60.3	29.7	16.5	13.22	2.248 Caution - Monitor Closely, CC, ES, SF		
2,500.0	2,497.6	2,494.8	2,492.4	6.7	6.6	4.19	1.3	72.6	30.8	17.3	13.50	2.279 Caution - Monitor Closely		
2,600.0	2,596.6	2,593.6	2,589.4	6.9	6.8	4.37	1.8	91.3	35.2	21.3	13.88	2.537 Normal Operations		
2,700.0	2,695.5	2,693.3	2,686.9	7.2	7.3	4.36	2.4	111.9	41.5	26.9	14.63	2.836 Normal Operations		
2,800.0	2,794.5	2,793.1	2,784.6	7.5	7.5	4.35	2.9	132.6	47.8	32.8	15.06	3.174		
2,900.0	2,893.4	2,892.9	2,882.2	7.7	7.6	4.35	3.5	153.3	54.1	38.6	15.48	3.495		
3,000.0	2,992.3	2,992.7	2,979.8	8.0	7.7	4.35	4.0	174.0	60.4	44.5	15.92	3.795		
3,100.0	3,091.3	3,092.5	3,077.5	8.3	7.9	4.35	4.5	194.6	66.7	50.4	16.38	4.074		
3,200.0	3,190.2	3,192.3	3,175.1	8.7	8.0	4.34	5.1	215.3	73.0	56.2	16.85	4.334		
3,300.0	3,289.2	3,292.1	3,272.7	9.0	8.2	4.34	5.6	236.0	79.3	62.0	17.34	4.576		
3,400.0	3,388.1	3,391.9	3,370.4	9.3	8.3	4.34	6.2	256.7	85.7	67.8	17.84	4.801		
3,500.0	3,487.0	3,491.7	3,468.0	9.7	8.5	4.34	6.7	277.4	92.0	73.6	18.36	5.010		
3,600.0	3,586.0	3,591.5	3,565.6	10.0	8.6	4.34	7.3	298.0	98.3	79.4	18.88	5.205		
3,700.0	3,684.9	3,691.3	3,663.3	10.4	8.8	4.34	7.8	318.7	104.6	85.2	19.41	5.387		
3,800.0	3,783.9	3,791.1	3,760.9	10.8	8.9	4.34	8.4	339.4	110.9	90.9	19.96	5.556		
3,900.0	3,882.8	3,890.9	3,858.5	11.1	9.1	4.34	8.9	360.1	117.2	96.7	20.51	5.714		
4,000.0	3,981.7	3,990.7	3,956.2	11.5	9.3	4.34	9.4	380.8	123.5	102.4	21.07	5.861		
4,100.0	4,080.7	4,090.6	4,053.8	11.9	9.4	4.34	10.0	401.5	129.8	108.2	21.64	5.998		
4,200.0	4,179.6	4,190.4	4,151.4	12.3	9.6	4.34	10.5	422.1	136.1	113.9	22.21	6.127		
4,300.0	4,278.5	4,290.2	4,249.1	12.7	9.8	4.33	11.1	442.8	142.4	119.6	22.80	6.248		
4,400.0	4,377.5	4,390.0	4,346.7	13.0	10.0	4.33	11.6	463.5	148.7	125.3	23.38	6.361		
4,500.0	4,476.4	4,489.8	4,444.3	13.4	10.1	4.33	12.2	484.2	155.0	131.1	23.97	6.467		
4,600.0	4,575.4	4,589.6	4,542.0	13.8	10.3	4.33	12.7	504.9	161.3	136.8	24.57	6.566		
4,700.0	4,674.3	4,689.4	4,639.6	14.2	10.5	4.33	13.2	525.5	167.7	142.5	25.17	6.660		
4,800.0	4,773.2	4,789.2	4,737.2	14.6	10.7	4.33	13.8	546.2	174.0	148.2	25.78	6.748		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: Reference		0-r.5 MWD+IFR1+SAG+FDIR					Rule Assigned:							Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
4,900.0	4,872.2	4,889.0	4,834.9	15.0	10.9	4.33	14.3	566.9	180.3	153.9	26.39	6.831			
5,000.0	4,971.1	4,988.8	4,932.5	15.4	11.0	4.33	14.9	587.6	186.6	159.6	27.00	6.909			
5,100.0	5,070.1	5,088.6	5,030.1	15.8	11.2	4.33	15.4	608.3	192.9	165.3	27.62	6.983			
5,200.0	5,169.0	5,188.4	5,127.8	16.3	11.4	4.33	16.0	628.9	199.2	170.9	28.24	7.053			
5,300.0	5,267.9	5,288.2	5,225.4	16.7	11.6	4.33	16.5	649.6	205.5	176.6	28.86	7.120			
5,400.0	5,366.9	5,388.0	5,323.0	17.1	11.8	4.33	17.1	670.3	211.8	182.3	29.49	7.182			
5,500.0	5,465.8	5,487.8	5,420.7	17.5	12.0	4.33	17.6	691.0	218.1	188.0	30.12	7.242			
5,600.0	5,564.7	5,587.6	5,518.3	17.9	12.2	4.33	18.1	711.7	224.4	193.7	30.75	7.299			
5,700.0	5,663.7	5,687.4	5,615.9	18.3	12.4	4.33	18.7	732.3	230.7	199.3	31.38	7.352			
5,703.8	5,667.5	5,691.2	5,619.7	18.3	12.4	4.33	18.7	733.1	231.0	199.6	31.41	7.354			
5,800.0	5,762.7	5,787.1	5,713.5	18.7	12.5	4.32	19.2	753.0	237.8	205.8	32.01	7.430			
5,900.0	5,862.0	5,886.7	5,810.9	19.1	12.7	4.28	19.8	773.7	246.7	214.0	32.63	7.560			
6,000.0	5,961.5	5,986.2	5,908.2	19.5	12.9	4.22	20.3	794.3	257.3	224.0	33.23	7.741			
6,100.0	6,061.1	6,085.4	6,005.3	19.9	13.1	4.14	20.9	814.8	269.6	235.7	33.82	7.971			
6,200.0	6,160.9	6,184.4	6,102.2	20.2	13.3	4.04	21.4	835.3	283.6	249.2	34.38	8.248			
6,300.0	6,260.8	6,283.1	6,198.8	20.6	13.5	3.93	21.9	855.8	299.3	264.4	34.92	8.572			
6,400.0	6,360.7	6,381.6	6,295.1	20.9	13.7	3.81	22.5	876.2	316.8	281.4	35.42	8.944			
6,500.0	6,460.7	6,479.7	6,391.1	21.1	13.9	3.69	23.0	896.5	336.0	300.1	35.87	9.368			
6,539.3	6,500.0	6,518.2	6,428.7	21.2	14.0	90.81	23.2	904.5	344.0	308.0	35.98	9.562			
6,600.0	6,560.7	6,577.6	6,486.8	21.2	14.1	90.73	23.5	916.8	356.6	320.5	36.09	9.880			
6,700.0	6,660.7	6,675.4	6,582.5	21.2	14.3	90.61	24.1	937.1	377.3	341.0	36.30	10.395			
6,800.0	6,760.7	6,773.3	6,678.2	21.3	14.5	90.50	24.6	957.4	398.0	361.5	36.50	10.904			
6,900.0	6,860.7	6,871.1	6,773.9	21.3	14.7	90.40	25.1	977.6	418.7	382.0	36.71	11.407			
7,000.0	6,960.7	6,968.9	6,869.6	21.4	14.9	90.31	25.7	997.9	439.5	402.5	36.92	11.904			
7,100.0	7,060.7	7,066.7	6,965.3	21.4	15.1	90.23	26.2	1,018.2	460.2	423.0	37.13	12.394			
7,200.0	7,160.7	7,164.6	7,061.0	21.4	15.3	90.15	26.7	1,038.5	480.9	443.6	37.34	12.879			
7,300.0	7,260.7	7,262.4	7,156.7	21.5	15.5	90.08	27.3	1,058.7	501.6	464.1	37.55	13.358			
7,400.0	7,360.7	7,360.2	7,252.4	21.5	15.7	90.02	27.8	1,079.0	522.3	484.6	37.77	13.830			
7,500.0	7,460.7	7,458.1	7,348.2	21.6	15.9	89.96	28.3	1,099.3	543.1	505.1	37.98	14.297			
7,600.0	7,560.7	7,555.9	7,443.9	21.6	16.1	89.91	28.9	1,119.5	563.8	525.6	38.20	14.758			
7,700.0	7,660.7	7,653.7	7,539.6	21.7	16.3	89.86	29.4	1,139.8	584.5	546.1	38.42	15.213			
7,800.0	7,760.7	7,751.5	7,635.3	21.7	16.5	89.81	29.9	1,160.1	605.2	566.6	38.64	15.662			
7,900.0	7,860.7	7,849.4	7,731.0	21.8	16.7	89.77	30.5	1,180.4	626.0	587.1	38.87	16.105			
8,000.0	7,960.7	7,949.1	7,828.5	21.8	16.9	89.73	31.0	1,201.0	646.7	607.6	39.09	16.545			
8,100.0	8,060.7	8,059.8	7,937.1	21.8	17.1	89.69	31.6	1,222.6	666.2	626.8	39.34	16.933			
8,200.0	8,160.7	8,171.4	8,047.0	21.9	17.3	89.65	32.1	1,242.2	683.7	644.2	39.59	17.270			
8,300.0	8,260.7	8,283.7	8,157.9	21.9	17.5	89.62	32.6	1,259.8	699.4	659.6	39.83	17.559			
8,400.0	8,360.7	8,396.7	8,269.8	22.0	17.8	89.60	33.0	1,275.3	713.1	673.1	40.06	17.801			
8,500.0	8,460.7	8,510.3	8,382.6	22.0	18.0	89.58	33.3	1,288.6	724.9	684.6	40.28	17.998			
8,600.0	8,560.7	8,624.3	8,496.1	22.1	18.2	89.56	33.6	1,299.8	734.7	694.2	40.48	18.149			
8,700.0	8,660.7	8,738.8	8,610.2	22.1	18.4	89.55	33.9	1,308.7	742.5	701.8	40.67	18.257			
8,800.0	8,760.7	8,853.5	8,724.7	22.2	18.5	89.54	34.0	1,315.4	748.3	707.4	40.84	18.321			
8,900.0	8,860.7	8,968.5	8,839.6	22.2	18.7	89.53	34.1	1,319.8	752.1	711.1	41.00	18.344			
9,000.0	8,960.7	9,083.6	8,954.7	22.3	18.9	89.53	34.2	1,321.8	753.9	712.7	41.13	18.329			
9,100.0	9,060.7	9,189.6	9,060.7	22.3	18.9	89.53	34.2	1,322.0	754.0	712.8	41.21	18.298			
9,200.0	9,160.7	9,289.6	9,160.7	22.4	19.0	89.53	34.2	1,322.0	754.0	712.7	41.30	18.258			
9,300.0	9,260.7	9,389.6	9,260.7	22.4	19.0	89.53	34.2	1,322.0	754.0	712.6	41.39	18.217			
9,400.0	9,360.7	9,489.6	9,360.7	22.4	19.1	89.53	34.2	1,322.0	754.0	712.5	41.49	18.176			
9,500.0	9,460.7	9,589.6	9,460.7	22.5	19.1	89.53	34.2	1,322.0	754.0	712.4	41.58	18.135			
9,600.0	9,560.7	9,689.6	9,560.7	22.5	19.2	89.53	34.2	1,322.0	754.0	712.4	41.67	18.094			

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
9,700.0	9,660.7	9,789.6	9,660.7	22.6	19.2	89.53	34.2	1,322.0	754.0	712.3	41.77	18.053	
9,800.0	9,760.7	9,889.6	9,760.7	22.6	19.2	89.53	34.2	1,322.0	754.0	712.2	41.86	18.012	
9,900.0	9,860.7	9,989.6	9,860.7	22.7	19.3	89.53	34.2	1,322.0	754.0	712.1	41.96	17.971	
10,000.0	9,960.7	10,089.6	9,960.7	22.7	19.3	89.53	34.2	1,322.0	754.0	712.0	42.05	17.930	
10,100.0	10,060.7	10,189.6	10,060.7	22.8	19.4	89.53	34.2	1,322.0	754.0	711.9	42.15	17.889	
10,200.0	10,160.7	10,289.6	10,160.7	22.8	19.4	89.53	34.2	1,322.0	754.0	711.8	42.25	17.848	
10,300.0	10,260.7	10,389.6	10,260.7	22.9	19.5	89.53	34.2	1,322.0	754.0	711.7	42.34	17.808	
10,400.0	10,360.7	10,489.6	10,360.7	22.9	19.5	89.53	34.2	1,322.0	754.0	711.6	42.44	17.767	
10,500.0	10,460.7	10,589.6	10,460.7	23.0	19.6	89.53	34.2	1,322.0	754.0	711.5	42.54	17.726	
10,600.0	10,560.7	10,689.6	10,560.7	23.0	19.6	89.53	34.2	1,322.0	754.0	711.4	42.64	17.685	
10,700.0	10,660.7	10,789.6	10,660.7	23.1	19.7	89.53	34.2	1,322.0	754.0	711.3	42.73	17.644	
10,800.0	10,760.7	10,889.6	10,760.7	23.1	19.7	89.53	34.2	1,322.0	754.0	711.2	42.83	17.604	
10,900.0	10,860.7	10,989.6	10,860.7	23.2	19.8	89.53	34.2	1,322.0	754.0	711.1	42.93	17.563	
11,000.0	10,960.7	11,089.6	10,960.7	23.2	19.8	89.53	34.2	1,322.0	754.0	711.0	43.03	17.522	
11,100.0	11,060.7	11,189.6	11,060.7	23.3	19.9	89.53	34.2	1,322.0	754.0	710.9	43.13	17.482	
11,200.0	11,160.7	11,289.6	11,160.7	23.3	19.9	89.53	34.2	1,322.0	754.0	710.8	43.23	17.441	
11,300.0	11,260.7	11,389.6	11,260.7	23.4	20.0	89.53	34.2	1,322.0	754.0	710.7	43.33	17.401	
11,400.0	11,360.7	11,489.6	11,360.7	23.4	20.1	89.53	34.2	1,322.0	754.0	710.6	43.43	17.360	
11,500.0	11,460.7	11,589.6	11,460.7	23.5	20.1	89.53	34.2	1,322.0	754.0	710.5	43.54	17.320	
11,600.0	11,560.7	11,689.6	11,560.7	23.5	20.2	89.53	34.2	1,322.0	754.0	710.4	43.64	17.279	
11,700.0	11,660.7	11,789.6	11,660.7	23.6	20.2	89.53	34.2	1,322.0	754.0	710.3	43.74	17.239	
11,800.0	11,760.7	11,889.6	11,760.7	23.6	20.3	89.53	34.2	1,322.0	754.0	710.2	43.84	17.199	
11,900.0	11,860.7	11,989.6	11,860.7	23.7	20.3	89.53	34.2	1,322.0	754.0	710.1	43.95	17.158	
11,941.8	11,902.5	12,031.4	11,902.5	23.7	20.3	89.53	34.2	1,322.0	754.0	710.0	43.98	17.145	
11,950.0	11,910.7	12,039.6	11,910.7	23.7	20.3	-89.92	34.2	1,322.0	754.0	710.0	43.98	17.143	
11,974.6	11,935.2	12,064.1	11,935.2	23.7	20.4	-90.00	34.2	1,322.0	754.0	710.0	43.99	17.139	
11,975.0	11,935.7	12,064.5	11,935.7	23.7	20.4	-90.00	34.2	1,322.0	754.0	710.0	43.99	17.139	
12,000.0	11,960.5	12,089.4	11,960.5	23.7	20.4	-90.18	34.2	1,322.0	754.0	710.0	44.01	17.135	
12,025.0	11,985.3	12,114.1	11,985.3	23.7	20.4	-90.46	34.2	1,322.0	754.0	710.0	44.02	17.131	
12,050.0	12,009.8	12,138.6	12,009.8	23.7	20.4	-90.82	34.2	1,322.0	754.1	710.1	44.03	17.128	
12,075.0	12,034.0	12,162.8	12,034.0	23.7	20.4	-91.27	34.2	1,322.0	754.2	710.2	44.04	17.127	
12,100.0	12,057.8	12,186.7	12,057.8	23.7	20.4	-91.78	34.2	1,322.0	754.4	710.4	44.04	17.129	
12,125.0	12,081.2	12,210.8	12,081.9	23.7	20.4	-92.38	34.1	1,322.0	754.8	710.7	44.04	17.138	
12,150.0	12,104.2	12,236.1	12,107.2	23.7	20.4	-93.01	32.9	1,322.0	755.2	711.2	44.02	17.155	
12,175.0	12,126.5	12,262.1	12,133.0	23.6	20.4	-93.64	30.4	1,322.0	755.8	711.8	44.00	17.177	
12,200.0	12,148.3	12,288.5	12,159.2	23.6	20.4	-94.27	26.3	1,322.1	756.4	712.4	43.97	17.204	
12,225.0	12,169.4	12,315.6	12,185.7	23.6	20.4	-94.89	20.6	1,322.1	757.2	713.2	43.93	17.235	
12,250.0	12,189.7	12,343.4	12,212.4	23.6	20.4	-95.51	13.3	1,322.2	758.0	714.1	43.89	17.269	
12,275.0	12,209.3	12,371.7	12,239.3	23.6	20.4	-96.12	4.1	1,322.3	758.9	715.0	43.85	17.306	
12,300.0	12,228.0	12,400.8	12,266.2	23.6	20.4	-96.73	-6.8	1,322.4	759.9	716.1	43.81	17.344	
12,325.0	12,245.9	12,430.6	12,293.0	23.6	20.4	-97.32	-19.8	1,322.5	760.9	717.1	43.78	17.382	
12,350.0	12,262.8	12,461.1	12,319.6	23.7	20.4	-97.90	-34.7	1,322.7	762.0	718.3	43.74	17.420	
12,375.0	12,278.7	12,492.4	12,345.9	23.7	20.4	-98.47	-51.8	1,322.8	763.1	719.4	43.72	17.455	
12,400.0	12,293.5	12,524.5	12,371.5	23.7	20.4	-99.01	-71.0	1,323.0	764.2	720.5	43.70	17.488	
12,425.0	12,307.3	12,557.4	12,396.4	23.7	20.4	-99.54	-92.5	1,323.2	765.4	721.7	43.70	17.516	
12,450.0	12,320.0	12,591.0	12,420.3	23.7	20.4	-100.04	-116.2	1,323.5	766.5	722.8	43.70	17.539	
12,475.0	12,331.6	12,625.5	12,443.0	23.7	20.4	-100.51	-142.1	1,323.7	767.6	723.9	43.72	17.557	
12,500.0	12,342.0	12,660.7	12,464.2	23.7	20.4	-100.95	-170.2	1,324.0	768.6	724.9	43.75	17.569	
12,525.0	12,351.1	12,696.6	12,483.6	23.7	20.5	-101.34	-200.4	1,324.3	769.6	725.8	43.79	17.575	
12,550.0	12,359.1	12,733.2	12,501.0	23.8	20.5	-101.70	-232.6	1,324.6	770.4	726.6	43.84	17.576	
12,575.0	12,365.7	12,770.4	12,516.1	23.8	20.5	-102.01	-266.5	1,324.9	771.2	727.3	43.89	17.571	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,600.0	12,371.2	12,808.1	12,528.6	23.8	20.6	-102.26	-302.1	1,325.3	771.8	727.9	43.95	17.563		
12,625.0	12,375.3	12,846.3	12,538.4	23.8	20.7	-102.46	-339.0	1,325.6	772.4	728.3	44.01	17.551		
12,650.0	12,378.1	12,884.8	12,545.3	23.9	20.7	-102.60	-376.8	1,326.0	772.7	728.7	44.06	17.536		
12,675.0	12,379.7	12,923.5	12,549.1	23.9	20.8	-102.69	-415.3	1,326.4	772.9	728.8	44.12	17.520		
12,691.8	12,380.0	12,949.6	12,550.0	23.9	20.9	-102.70	-441.4	1,326.7	773.0	728.8	44.15	17.508		
12,700.0	12,380.0	12,958.4	12,550.0	23.9	20.9	-102.70	-450.3	1,326.7	773.0	728.8	44.16	17.503		
12,800.0	12,380.0	13,058.4	12,550.0	24.1	21.2	-102.70	-550.3	1,327.7	773.0	728.6	44.34	17.432		
12,900.0	12,380.0	13,158.4	12,550.0	24.3	21.5	-102.70	-650.2	1,328.7	773.0	728.4	44.59	17.334		
13,000.0	12,380.0	13,258.4	12,550.0	24.6	21.8	-102.70	-750.2	1,329.7	773.0	728.1	44.92	17.210		
13,100.0	12,380.0	13,358.4	12,550.0	24.9	22.1	-102.70	-850.2	1,330.6	773.0	727.7	45.31	17.062		
13,200.0	12,380.0	13,458.4	12,550.0	25.2	22.5	-102.70	-950.2	1,331.6	773.0	727.2	45.76	16.892		
13,300.0	12,380.0	13,558.4	12,550.0	25.5	22.9	-102.70	-1,050.2	1,332.6	773.0	726.7	46.28	16.702		
13,400.0	12,380.0	13,658.4	12,550.0	25.9	23.3	-102.70	-1,150.2	1,333.6	773.0	726.1	46.87	16.494		
13,500.0	12,380.0	13,758.4	12,550.0	26.3	23.7	-102.70	-1,250.2	1,334.6	773.0	725.5	47.51	16.271		
13,600.0	12,380.0	13,858.4	12,550.0	26.8	24.2	-102.70	-1,350.2	1,335.5	773.0	724.8	48.21	16.034		
13,700.0	12,380.0	13,958.4	12,550.0	27.3	24.6	-102.70	-1,450.2	1,336.5	773.0	724.1	48.97	15.787		
13,800.0	12,380.0	14,058.4	12,550.0	27.8	25.1	-102.70	-1,550.2	1,337.5	773.0	723.3	49.78	15.530		
13,900.0	12,380.0	14,158.4	12,550.0	28.3	25.6	-102.70	-1,650.2	1,338.5	773.0	722.4	50.64	15.267		
14,000.0	12,380.0	14,258.4	12,550.0	28.8	26.1	-102.70	-1,750.2	1,339.4	773.0	721.5	51.54	14.998		
14,100.0	12,380.0	14,358.4	12,550.0	29.4	26.7	-102.70	-1,850.2	1,340.4	773.0	720.6	52.49	14.727		
14,200.0	12,380.0	14,458.4	12,550.0	30.0	27.2	-102.70	-1,950.2	1,341.4	773.1	719.6	53.49	14.453		
14,300.0	12,380.0	14,558.4	12,550.0	30.6	27.8	-102.70	-2,050.2	1,342.4	773.1	718.5	54.52	14.179		
14,400.0	12,380.0	14,658.4	12,550.0	31.2	28.4	-102.70	-2,150.2	1,343.4	773.1	717.5	55.59	13.906		
14,500.0	12,380.0	14,758.4	12,550.0	31.9	28.9	-102.70	-2,250.2	1,344.3	773.1	716.4	56.70	13.634		
14,600.0	12,380.0	14,858.4	12,550.0	32.5	29.5	-102.70	-2,350.2	1,345.3	773.1	715.2	57.84	13.365		
14,700.0	12,380.0	14,958.4	12,550.0	33.2	30.1	-102.70	-2,450.2	1,346.3	773.1	714.1	59.02	13.099		
14,800.0	12,380.0	15,058.4	12,550.0	33.9	30.8	-102.70	-2,550.2	1,347.3	773.1	712.9	60.22	12.838		
14,900.0	12,380.0	15,158.4	12,550.0	34.6	31.4	-102.70	-2,650.2	1,348.2	773.1	711.6	61.45	12.580		
15,000.0	12,380.0	15,258.4	12,550.0	35.3	32.0	-102.70	-2,750.1	1,349.2	773.1	710.4	62.71	12.328		
15,100.0	12,380.0	15,358.4	12,550.0	36.0	32.7	-102.70	-2,850.1	1,350.2	773.1	709.1	63.99	12.081		
15,200.0	12,380.0	15,458.4	12,550.0	36.8	33.3	-102.70	-2,950.1	1,351.2	773.1	707.8	65.30	11.839		
15,300.0	12,380.0	15,558.4	12,550.0	37.5	34.0	-102.70	-3,050.1	1,352.2	773.1	706.5	66.63	11.604		
15,400.0	12,380.0	15,658.4	12,550.0	38.3	34.7	-102.70	-3,150.1	1,353.1	773.1	705.1	67.98	11.373		
15,500.0	12,380.0	15,758.4	12,550.0	39.0	35.4	-102.70	-3,250.1	1,354.1	773.1	703.8	69.34	11.149		
15,600.0	12,380.0	15,858.4	12,550.0	39.8	36.0	-102.70	-3,350.1	1,355.1	773.1	702.4	70.73	10.930		
15,700.0	12,380.0	15,958.4	12,550.0	40.6	36.7	-102.70	-3,450.1	1,356.1	773.1	701.0	72.14	10.718		
15,800.0	12,380.0	16,058.4	12,550.0	41.4	37.4	-102.70	-3,550.1	1,357.0	773.1	699.6	73.56	10.511		
15,900.0	12,380.0	16,158.4	12,550.0	42.2	38.2	-102.70	-3,650.1	1,358.0	773.1	698.1	74.99	10.310		
16,000.0	12,380.0	16,258.4	12,550.0	43.0	38.9	-102.70	-3,750.1	1,359.0	773.1	696.7	76.44	10.114		
16,100.0	12,380.0	16,358.4	12,550.0	43.8	39.6	-102.70	-3,850.1	1,360.0	773.2	695.2	77.91	9.924		
16,200.0	12,380.0	16,458.4	12,550.0	44.6	40.3	-102.70	-3,950.1	1,361.0	773.2	693.8	79.38	9.740		
16,300.0	12,380.0	16,558.4	12,550.0	45.4	41.0	-102.70	-4,050.1	1,361.9	773.2	692.3	80.87	9.560		
16,400.0	12,380.0	16,658.4	12,550.0	46.2	41.8	-102.70	-4,150.1	1,362.9	773.2	690.8	82.37	9.386		
16,500.0	12,380.0	16,758.4	12,550.0	47.1	42.5	-102.70	-4,250.1	1,363.9	773.2	689.3	83.88	9.217		
16,600.0	12,380.0	16,858.4	12,550.0	47.9	43.3	-102.70	-4,350.1	1,364.9	773.2	687.8	85.41	9.053		
16,700.0	12,380.0	16,958.4	12,550.0	48.8	44.0	-102.70	-4,450.1	1,365.8	773.2	686.2	86.94	8.893		
16,800.0	12,380.0	17,058.4	12,550.0	49.6	44.7	-102.70	-4,550.1	1,366.8	773.2	684.7	88.48	8.739		
16,900.0	12,380.0	17,158.4	12,550.0	50.5	45.5	-102.70	-4,650.1	1,367.8	773.2	683.2	90.03	8.588		
17,000.0	12,380.0	17,258.4	12,550.0	51.3	46.3	-102.70	-4,750.1	1,368.8	773.2	681.6	91.59	8.442		
17,100.0	12,380.0	17,358.4	12,550.0	52.2	47.0	-102.70	-4,850.0	1,369.8	773.2	680.0	93.15	8.300		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR				Rule Assigned:									Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)			
17,200.0	12,380.0	17,458.4	12,550.0	53.0	47.8	-102.70	-4,950.0	1,370.7	773.2	678.5	94.73	8.162		
17,300.0	12,380.0	17,558.4	12,550.0	53.9	48.6	-102.70	-5,050.0	1,371.7	773.2	676.9	96.31	8.029		
17,400.0	12,380.0	17,658.4	12,550.0	54.8	49.3	-102.70	-5,150.0	1,372.7	773.2	675.3	97.90	7.898		
17,500.0	12,380.0	17,758.4	12,550.0	55.6	50.1	-102.70	-5,250.0	1,373.7	773.2	673.7	99.49	7.772		
17,600.0	12,380.0	17,858.4	12,550.0	56.5	50.9	-102.70	-5,350.0	1,374.6	773.2	672.1	101.09	7.649		
17,700.0	12,380.0	17,958.4	12,550.0	57.4	51.7	-102.70	-5,450.0	1,375.6	773.2	670.5	102.70	7.529		
17,800.0	12,380.0	18,058.4	12,550.0	58.3	52.4	-102.70	-5,550.0	1,376.6	773.2	668.9	104.31	7.413		
17,900.0	12,380.0	18,158.4	12,550.0	59.1	53.2	-102.70	-5,650.0	1,377.6	773.2	667.3	105.92	7.300		
18,000.0	12,380.0	18,258.4	12,550.0	60.0	54.0	-102.70	-5,750.0	1,378.6	773.2	665.7	107.55	7.190		
18,100.0	12,380.0	18,358.4	12,550.0	60.9	54.8	-102.70	-5,850.0	1,379.5	773.3	664.1	109.17	7.083		
18,200.0	12,380.0	18,458.4	12,550.0	61.8	55.6	-102.70	-5,950.0	1,380.5	773.3	662.5	110.81	6.979		
18,300.0	12,380.0	18,558.4	12,550.0	62.7	56.4	-102.70	-6,050.0	1,381.5	773.3	660.8	112.44	6.877		
18,400.0	12,380.0	18,658.4	12,550.0	63.6	57.2	-102.70	-6,150.0	1,382.5	773.3	659.2	114.08	6.778		
18,500.0	12,380.0	18,758.4	12,550.0	64.5	58.0	-102.70	-6,250.0	1,383.4	773.3	657.5	115.73	6.682		
18,600.0	12,380.0	18,858.4	12,550.0	65.4	58.8	-102.70	-6,350.0	1,384.4	773.3	655.9	117.38	6.588		
18,700.0	12,380.0	18,958.4	12,550.0	66.3	59.6	-102.70	-6,450.0	1,385.4	773.3	654.3	119.03	6.497		
18,800.0	12,380.0	19,058.4	12,550.0	67.2	60.4	-102.70	-6,550.0	1,386.4	773.3	652.6	120.68	6.408		
18,900.0	12,380.0	19,158.4	12,550.0	68.1	61.2	-102.70	-6,650.0	1,387.4	773.3	651.0	122.34	6.321		
19,000.0	12,380.0	19,258.4	12,550.0	69.0	62.0	-102.70	-6,750.0	1,388.3	773.3	649.3	124.01	6.236		
19,100.0	12,380.0	19,358.4	12,550.0	69.9	62.8	-102.70	-6,850.0	1,389.3	773.3	647.6	125.67	6.153		
19,200.0	12,380.0	19,458.4	12,550.0	70.8	63.6	-102.70	-6,949.9	1,390.3	773.3	646.0	127.34	6.073		
19,300.0	12,380.0	19,558.4	12,550.0	71.7	64.4	-102.70	-7,049.9	1,391.3	773.3	644.3	129.01	5.994		
19,400.0	12,380.0	19,658.4	12,550.0	72.6	65.2	-102.70	-7,149.9	1,392.2	773.3	642.6	130.69	5.917		
19,500.0	12,380.0	19,758.4	12,550.0	73.5	66.0	-102.70	-7,249.9	1,393.2	773.3	641.0	132.36	5.842		
19,600.0	12,380.0	19,858.4	12,550.0	74.5	66.8	-102.70	-7,349.9	1,394.2	773.3	639.3	134.04	5.769		
19,700.0	12,380.0	19,958.4	12,550.0	75.4	67.6	-102.70	-7,449.9	1,395.2	773.3	637.6	135.73	5.698		
19,800.0	12,380.0	20,058.4	12,550.0	76.3	68.4	-102.70	-7,549.9	1,396.2	773.3	635.9	137.41	5.628		
19,900.0	12,380.0	20,158.4	12,550.0	77.2	69.3	-102.70	-7,649.9	1,397.1	773.3	634.2	139.10	5.560		
20,000.0	12,380.0	20,258.4	12,550.0	78.1	70.1	-102.70	-7,749.9	1,398.1	773.4	632.6	140.79	5.493		
20,100.0	12,380.0	20,358.4	12,550.0	79.0	70.9	-102.70	-7,849.9	1,399.1	773.4	630.9	142.48	5.428		
20,200.0	12,380.0	20,458.4	12,550.0	80.0	71.7	-102.70	-7,949.9	1,400.1	773.4	629.2	144.17	5.364		
20,300.0	12,380.0	20,558.4	12,550.0	80.9	72.5	-102.70	-8,049.9	1,401.0	773.4	627.5	145.87	5.302		
20,378.3	12,380.0	20,636.7	12,550.0	81.6	73.2	-102.70	-8,128.2	1,401.8	773.4	626.2	147.20	5.254		
20,378.9	12,380.0	20,637.3	12,550.0	81.6	73.2	-102.70	-8,128.8	1,401.8	773.4	626.2	147.20	5.254		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.39	-0.8	-119.7	119.7					
100.0	100.0	100.0	100.0	0.8	0.8	-90.39	-0.8	-119.7	119.7	117.7	1.99	60.123		
200.0	200.0	200.0	200.0	1.4	1.4	-90.39	-0.8	-119.7	119.7	116.4	3.31	36.152		
300.0	300.0	300.0	300.0	1.9	1.9	-90.39	-0.8	-119.7	119.7	115.5	4.20	28.536		
400.0	400.0	400.0	400.0	2.2	2.2	-90.39	-0.8	-119.7	119.7	114.8	4.91	24.373		
500.0	500.0	500.0	500.0	2.6	2.6	-90.39	-0.8	-119.7	119.7	114.2	5.53	21.637		
600.0	600.0	600.0	600.0	2.8	2.8	-90.39	-0.8	-119.7	119.7	113.6	6.09	19.657		
700.0	700.0	700.0	700.0	3.1	3.1	-90.39	-0.8	-119.7	119.7	113.1	6.60	18.136		
800.0	800.0	800.0	800.0	3.3	3.3	-90.39	-0.8	-119.7	119.7	112.6	7.08	16.918		
900.0	900.0	900.0	900.0	3.6	3.6	-90.39	-0.8	-119.7	119.7	112.2	7.52	15.912		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.39	-0.8	-119.7	119.7	111.8	7.95	15.064		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.39	-0.8	-119.7	119.7	111.4	8.35	14.335		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.39	-0.8	-119.7	119.7	111.0	8.74	13.699		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.39	-0.8	-119.7	119.7	110.6	9.11	13.138		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.39	-0.8	-119.7	119.7	110.2	9.47	12.638		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.39	-0.8	-119.7	119.7	109.9	9.82	12.188		
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.39	-0.8	-119.7	119.7	109.6	10.16	11.781		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.39	-0.8	-119.7	119.7	109.2	10.49	11.409		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.39	-0.8	-119.7	119.7	108.9	10.82	11.069		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.39	-0.8	-119.7	119.7	108.6	11.13	10.756		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.39	-0.8	-119.7	119.7	108.3	11.44	10.465 CC, ES		
2,100.0	2,100.0	2,095.9	2,095.9	5.8	5.8	-177.59	-0.8	-121.3	123.1	111.3	11.88	10.365 SF		
2,200.0	2,199.8	2,191.1	2,191.0	6.0	6.0	-177.62	-0.7	-126.1	133.4	121.1	12.29	10.849		
2,300.0	2,299.5	2,285.0	2,284.5	6.3	6.2	-177.67	-0.6	-133.9	150.3	137.6	12.70	11.831		
2,400.0	2,398.7	2,377.0	2,375.9	6.5	6.4	-177.72	-0.5	-144.5	173.8	160.7	13.12	13.252		
2,417.7	2,416.3	2,393.1	2,391.8	6.5	6.4	-177.73	-0.4	-146.6	178.7	165.5	13.17	13.570		
2,500.0	2,497.6	2,466.8	2,464.8	6.7	6.6	-177.77	-0.3	-157.7	202.7	189.2	13.45	15.073		
2,600.0	2,596.6	2,554.9	2,551.5	6.9	6.7	-177.79	0.0	-173.3	234.5	220.7	13.79	17.002		
2,700.0	2,695.5	2,641.1	2,635.8	7.2	6.9	-177.79	0.3	-191.2	269.2	255.1	14.14	19.036		
2,800.0	2,794.5	2,725.4	2,717.7	7.5	7.1	-177.78	0.6	-211.1	306.7	292.2	14.49	21.159		
2,900.0	2,893.4	2,807.6	2,796.9	7.7	7.3	-177.76	0.9	-232.8	346.8	332.0	14.85	23.362		
3,000.0	2,992.3	2,887.7	2,873.6	8.0	7.4	-177.73	1.2	-256.1	389.6	374.4	15.20	25.634		
3,100.0	3,091.3	2,966.0	2,947.8	8.3	7.5	-177.70	1.6	-281.0	434.8	419.3	15.49	28.068		
3,200.0	3,190.2	3,054.7	3,031.5	8.7	7.6	-177.67	2.0	-310.3	481.1	465.2	15.89	30.273		
3,300.0	3,289.2	3,143.3	3,115.1	9.0	7.8	-177.65	2.5	-339.5	527.5	511.2	16.33	32.299		
3,400.0	3,388.1	3,231.9	3,198.8	9.3	7.9	-177.62	2.9	-368.8	573.8	557.1	16.78	34.192		
3,500.0	3,487.0	3,320.5	3,282.4	9.7	8.0	-177.61	3.4	-398.0	620.2	602.9	17.25	35.960		
3,600.0	3,586.0	3,409.1	3,366.1	10.0	8.2	-177.59	3.8	-427.2	666.5	648.8	17.72	37.612		
3,700.0	3,684.9	3,497.7	3,449.7	10.4	8.3	-177.58	4.2	-456.5	712.9	694.7	18.21	39.154		
3,800.0	3,783.9	3,586.3	3,533.4	10.8	8.5	-177.56	4.7	-485.7	759.2	740.5	18.70	40.595		
3,900.0	3,882.8	3,674.9	3,617.0	11.1	8.6	-177.55	5.1	-515.0	805.6	786.4	19.21	41.942		
4,000.0	3,981.7	3,763.5	3,700.7	11.5	8.8	-177.54	5.6	-544.2	851.9	832.2	19.72	43.203		
4,100.0	4,080.7	3,852.2	3,784.3	11.9	8.9	-177.54	6.0	-573.4	898.3	878.0	20.24	44.383		
4,200.0	4,179.6	3,940.8	3,868.0	12.3	9.1	-177.53	6.4	-602.7	944.6	923.8	20.77	45.488		
4,300.0	4,278.5	4,029.4	3,951.6	12.7	9.3	-177.52	6.9	-631.9	991.0	969.7	21.30	46.524		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	No-Go	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(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, SF		
2,100.0	2,100.0	2,097.8	2,097.8	5.8	5.8	-177.49	-0.3	-61.7	63.4	51.6	11.88	5.339		
2,200.0	2,199.8	2,195.0	2,194.8	6.0	6.0	-177.29	0.2	-66.6	73.7	61.4	12.30	5.995		
2,300.0	2,299.5	2,290.8	2,290.3	6.3	6.2	-177.04	0.9	-74.7	90.8	78.1	12.72	7.142		
2,400.0	2,398.7	2,384.6	2,383.4	6.5	6.4	-176.81	1.9	-85.7	114.5	101.4	13.13	8.721		
2,417.7	2,416.3	2,400.0	2,398.7	6.5	6.4	-176.78	2.1	-87.8	119.4	106.3	13.17	9.067		
2,500.0	2,497.6	2,477.2	2,475.0	6.7	6.5	-176.63	3.2	-99.4	143.5	130.1	13.38	10.727		
2,600.0	2,596.6	2,572.6	2,569.2	6.9	6.6	-176.48	4.5	-114.5	173.5	159.7	13.71	12.652		
2,700.0	2,695.5	2,668.0	2,663.4	7.2	6.7	-176.38	5.9	-129.5	203.4	189.3	14.08	14.446		
2,800.0	2,794.5	2,763.4	2,757.6	7.5	6.9	-176.30	7.3	-144.5	233.3	218.9	14.47	16.126		
2,900.0	2,893.4	2,858.8	2,851.8	7.7	7.0	-176.24	8.6	-159.6	263.3	248.4	14.88	17.696		
3,000.0	2,992.3	2,954.3	2,946.0	8.0	7.1	-176.19	10.0	-174.6	293.2	277.9	15.30	19.160		
3,100.0	3,091.3	3,049.7	3,040.2	8.3	7.3	-176.15	11.4	-189.7	323.2	307.4	15.74	20.525		
3,200.0	3,190.2	3,145.1	3,134.5	8.7	7.4	-176.12	12.7	-204.7	353.1	336.9	16.20	21.796		
3,300.0	3,289.2	3,240.5	3,228.7	9.0	7.6	-176.09	14.1	-219.8	383.0	366.4	16.67	22.976		
3,400.0	3,388.1	3,338.3	3,325.2	9.3	7.7	-176.07	15.5	-235.1	412.9	395.7	17.17	24.047		
3,500.0	3,487.0	3,441.8	3,427.7	9.7	7.9	-176.06	16.8	-249.9	441.4	423.7	17.71	24.928		
3,600.0	3,586.0	3,546.4	3,531.5	10.0	8.1	-176.07	18.0	-263.0	468.2	450.0	18.26	25.642		
3,700.0	3,684.9	3,652.1	3,636.5	10.4	8.2	-176.10	19.1	-274.3	493.2	474.4	18.82	26.209		
3,800.0	3,783.9	3,758.7	3,742.7	10.8	8.4	-176.14	19.9	-283.8	516.5	497.1	19.39	26.641		
3,900.0	3,882.8	3,866.3	3,850.0	11.1	8.5	-176.20	20.6	-291.3	537.9	517.9	19.96	26.952		
4,000.0	3,981.7	3,974.7	3,958.3	11.5	8.7	-176.26	21.1	-296.9	557.5	536.9	20.53	27.152		
4,100.0	4,080.7	4,083.9	4,067.4	11.9	8.9	-176.34	21.4	-300.5	575.2	554.1	21.11	27.253		
4,200.0	4,179.6	4,193.7	4,177.3	12.3	9.0	-176.43	21.6	-302.0	591.0	569.4	21.67	27.270		
4,300.0	4,278.5	4,295.0	4,278.5	12.7	9.1	-176.51	21.6	-302.0	605.6	583.4	22.19	27.291		
4,400.0	4,377.5	4,394.0	4,377.5	13.0	9.2	-176.60	21.6	-302.0	620.1	597.4	22.71	27.304		
4,500.0	4,476.4	4,492.9	4,476.4	13.4	9.3	-176.67	21.6	-302.0	634.6	611.3	23.24	27.310		
4,600.0	4,575.4	4,591.8	4,575.4	13.8	9.4	-176.75	21.6	-302.0	649.1	625.3	23.77	27.310		
4,700.0	4,674.3	4,690.8	4,674.3	14.2	9.5	-176.82	21.6	-302.0	663.6	639.3	24.30	27.306		
4,800.0	4,773.2	4,789.7	4,773.2	14.6	9.6	-176.89	21.6	-302.0	678.1	653.3	24.84	27.297		
4,900.0	4,872.2	4,888.7	4,872.2	15.0	9.7	-176.95	21.6	-302.0	692.6	667.2	25.38	27.285		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
5,000.0	4,971.1	4,987.6	4,971.1	15.4	9.8	-177.02	21.6	-302.0	707.1	681.2	25.93	27.269		
5,100.0	5,070.1	5,086.5	5,070.1	15.8	9.9	-177.08	21.6	-302.0	721.6	695.2	26.48	27.250		
5,200.0	5,169.0	5,185.5	5,169.0	16.3	9.9	-177.13	21.6	-302.0	736.1	709.1	27.04	27.229		
5,300.0	5,267.9	5,284.4	5,267.9	16.7	10.0	-177.19	21.6	-302.0	750.7	723.1	27.59	27.206		
5,400.0	5,366.9	5,383.3	5,366.9	17.1	10.1	-177.24	21.6	-302.0	765.2	737.0	28.15	27.181		
5,500.0	5,465.8	5,482.3	5,465.8	17.5	10.2	-177.29	21.6	-302.0	779.7	751.0	28.71	27.155		
5,600.0	5,564.7	5,581.2	5,564.7	17.9	10.3	-177.34	21.6	-302.0	794.2	764.9	29.28	27.127		
5,700.0	5,663.7	5,680.1	5,663.7	18.3	10.4	-177.39	21.6	-302.0	808.7	778.9	29.85	27.096		
5,703.8	5,667.5	5,683.9	5,667.5	18.3	10.4	-177.39	21.6	-302.0	809.3	779.4	29.87	27.095		
5,800.0	5,762.7	5,779.2	5,762.7	18.7	10.5	-177.44	21.6	-302.0	822.4	792.0	30.41	27.048		
5,900.0	5,862.0	5,878.5	5,862.0	19.1	10.6	-177.48	21.6	-302.0	834.4	803.5	30.96	26.955		
6,000.0	5,961.5	5,978.0	5,961.5	19.5	10.7	-177.52	21.6	-302.0	844.7	813.2	31.49	26.822		
6,100.0	6,061.1	6,077.6	6,061.1	19.9	10.8	-177.55	21.6	-302.0	853.2	821.2	32.01	26.654		
6,200.0	6,160.9	6,177.4	6,160.9	20.2	10.9	-177.57	21.6	-302.0	860.0	827.5	32.51	26.454		
6,300.0	6,260.8	6,277.2	6,260.8	20.6	11.0	-177.58	21.6	-302.0	865.0	832.1	32.98	26.230		
6,400.0	6,360.7	6,377.2	6,360.7	20.9	11.1	-177.60	21.6	-302.0	868.3	834.9	33.41	25.988		
6,500.0	6,460.7	6,477.2	6,460.7	21.1	11.2	-177.60	21.6	-302.0	869.9	836.1	33.79	25.747		
6,539.3	6,500.0	6,516.5	6,500.0	21.2	11.2	-90.42	21.6	-302.0	870.0	836.2	33.86	25.693		
6,600.0	6,560.7	6,577.2	6,560.7	21.2	11.2	-90.42	21.6	-302.0	870.0	836.1	33.92	25.652		
6,700.0	6,660.7	6,677.2	6,660.7	21.2	11.3	-90.42	21.6	-302.0	870.0	836.0	34.03	25.567		
6,800.0	6,760.7	6,777.2	6,760.7	21.3	11.4	-90.42	21.6	-302.0	870.0	835.9	34.14	25.483		
6,900.0	6,860.7	6,877.2	6,860.7	21.3	11.5	-90.42	21.6	-302.0	870.0	835.8	34.25	25.400		
7,000.0	6,960.7	6,977.2	6,960.7	21.4	11.6	-90.42	21.6	-302.0	870.0	835.7	34.37	25.316		
7,100.0	7,060.7	7,077.2	7,060.7	21.4	11.7	-90.42	21.6	-302.0	870.0	835.5	34.48	25.233		
7,200.0	7,160.7	7,177.2	7,160.7	21.4	11.8	-90.42	21.6	-302.0	870.0	835.4	34.59	25.150		
7,300.0	7,260.7	7,277.2	7,260.7	21.5	11.9	-90.42	21.6	-302.0	870.0	835.3	34.71	25.067		
7,400.0	7,360.7	7,377.2	7,360.7	21.5	12.0	-90.42	21.6	-302.0	870.0	835.2	34.82	24.985		
7,500.0	7,460.7	7,477.2	7,460.7	21.6	12.1	-90.42	21.6	-302.0	870.0	835.1	34.94	24.903		
7,600.0	7,560.7	7,577.2	7,560.7	21.6	12.2	-90.42	21.6	-302.0	870.0	835.0	35.05	24.821		
7,700.0	7,660.7	7,677.2	7,660.7	21.7	12.2	-90.42	21.6	-302.0	870.0	834.9	35.17	24.739		
7,800.0	7,760.7	7,777.2	7,760.7	21.7	12.3	-90.42	21.6	-302.0	870.0	834.7	35.28	24.658		
7,900.0	7,860.7	7,877.2	7,860.7	21.8	12.4	-90.42	21.6	-302.0	870.0	834.6	35.40	24.577		
8,000.0	7,960.7	7,977.2	7,960.7	21.8	12.5	-90.42	21.6	-302.0	870.0	834.5	35.52	24.496		
8,100.0	8,060.7	8,077.2	8,060.7	21.8	12.6	-90.42	21.6	-302.0	870.0	834.4	35.63	24.416		
8,200.0	8,160.7	8,177.2	8,160.7	21.9	12.7	-90.42	21.6	-302.0	870.0	834.3	35.75	24.336		
8,300.0	8,260.7	8,277.2	8,260.7	21.9	12.8	-90.42	21.6	-302.0	870.0	834.2	35.87	24.256		
8,400.0	8,360.7	8,377.2	8,360.7	22.0	12.9	-90.42	21.6	-302.0	870.0	834.0	35.99	24.177		
8,500.0	8,460.7	8,477.2	8,460.7	22.0	13.0	-90.42	21.6	-302.0	870.0	833.9	36.10	24.097		
8,600.0	8,560.7	8,577.2	8,560.7	22.1	13.1	-90.42	21.6	-302.0	870.0	833.8	36.22	24.018		
8,700.0	8,660.7	8,677.2	8,660.7	22.1	13.1	-90.42	21.6	-302.0	870.0	833.7	36.34	23.940		
8,800.0	8,760.7	8,777.2	8,760.7	22.2	13.2	-90.42	21.6	-302.0	870.0	833.6	36.46	23.861		
8,900.0	8,860.7	8,877.2	8,860.7	22.2	13.3	-90.42	21.6	-302.0	870.0	833.4	36.58	23.783		
9,000.0	8,960.7	8,977.2	8,960.7	22.3	13.4	-90.42	21.6	-302.0	870.0	833.3	36.70	23.706		
9,100.0	9,060.7	9,077.2	9,060.7	22.3	13.5	-90.42	21.6	-302.0	870.0	833.2	36.82	23.628		
9,200.0	9,160.7	9,177.2	9,160.7	22.4	13.6	-90.42	21.6	-302.0	870.0	833.1	36.94	23.551		
9,300.0	9,260.7	9,277.2	9,260.7	22.4	13.7	-90.42	21.6	-302.0	870.0	833.0	37.06	23.474		
9,400.0	9,360.7	9,377.2	9,360.7	22.4	13.8	-90.42	21.6	-302.0	870.0	832.8	37.18	23.398		
9,500.0	9,460.7	9,477.2	9,460.7	22.5	13.9	-90.42	21.6	-302.0	870.0	832.7	37.31	23.321		
9,600.0	9,560.7	9,577.2	9,560.7	22.5	13.9	-90.42	21.6	-302.0	870.0	832.6	37.43	23.245		
9,700.0	9,660.7	9,677.2	9,660.7	22.6	14.0	-90.42	21.6	-302.0	870.0	832.5	37.55	23.170		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
9,800.0	9,760.7	9,777.2	9,760.7	22.6	14.1	-90.42	21.6	-302.0	870.0	832.4	37.67	23.095		
9,900.0	9,860.7	9,877.2	9,860.7	22.7	14.2	-90.42	21.6	-302.0	870.0	832.2	37.79	23.020		
10,000.0	9,960.7	9,977.2	9,960.7	22.7	14.3	-90.42	21.6	-302.0	870.0	832.1	37.92	22.945		
10,100.0	10,060.7	10,077.2	10,060.7	22.8	14.4	-90.42	21.6	-302.0	870.0	832.0	38.04	22.871		
10,200.0	10,160.7	10,177.2	10,160.7	22.8	14.5	-90.42	21.6	-302.0	870.0	831.9	38.16	22.796		
10,300.0	10,260.7	10,277.2	10,260.7	22.9	14.6	-90.42	21.6	-302.0	870.0	831.7	38.29	22.723		
10,400.0	10,360.7	10,377.2	10,360.7	22.9	14.7	-90.42	21.6	-302.0	870.0	831.6	38.41	22.649		
10,500.0	10,460.7	10,477.2	10,460.7	23.0	14.7	-90.42	21.6	-302.0	870.0	831.5	38.54	22.576		
10,600.0	10,560.7	10,577.2	10,560.7	23.0	14.8	-90.42	21.6	-302.0	870.0	831.4	38.66	22.503		
10,700.0	10,660.7	10,677.2	10,660.7	23.1	14.9	-90.42	21.6	-302.0	870.0	831.2	38.79	22.431		
10,800.0	10,760.7	10,777.2	10,760.7	23.1	15.0	-90.42	21.6	-302.0	870.0	831.1	38.91	22.359		
10,900.0	10,860.7	10,877.2	10,860.7	23.2	15.1	-90.42	21.6	-302.0	870.0	831.0	39.04	22.287		
11,000.0	10,960.7	10,977.2	10,960.7	23.2	15.2	-90.42	21.6	-302.0	870.0	830.9	39.16	22.215		
11,100.0	11,060.7	11,077.2	11,060.7	23.3	15.3	-90.42	21.6	-302.0	870.0	830.7	39.29	22.144		
11,200.0	11,160.7	11,177.2	11,160.7	23.3	15.4	-90.42	21.6	-302.0	870.0	830.6	39.42	22.073		
11,300.0	11,260.7	11,277.2	11,260.7	23.4	15.4	-90.42	21.6	-302.0	870.0	830.5	39.54	22.002		
11,400.0	11,360.7	11,377.2	11,360.7	23.4	15.5	-90.42	21.6	-302.0	870.0	830.4	39.67	21.932		
11,500.0	11,460.7	11,477.2	11,460.7	23.5	15.6	-90.42	21.6	-302.0	870.0	830.2	39.80	21.862		
11,600.0	11,560.7	11,577.2	11,560.7	23.5	15.7	-90.42	21.6	-302.0	870.0	830.1	39.92	21.792		
11,700.0	11,660.7	11,677.2	11,660.7	23.6	15.8	-90.42	21.6	-302.0	870.0	830.0	40.05	21.723		
11,800.0	11,760.7	11,777.2	11,760.7	23.6	15.9	-90.42	21.6	-302.0	870.0	829.8	40.18	21.654		
11,900.0	11,860.7	11,877.2	11,860.7	23.7	16.0	-90.42	21.6	-302.0	870.0	829.7	40.31	21.585		
11,941.8	11,902.5	11,919.0	11,902.5	23.7	16.0	-90.42	21.6	-302.0	870.0	829.7	40.35	21.562		
11,950.0	11,910.7	11,927.2	11,910.7	23.7	16.0	90.14	21.6	-302.0	870.0	829.7	40.36	21.559		
11,975.0	11,935.7	11,952.1	11,935.7	23.7	16.0	90.21	21.6	-302.0	870.0	829.7	40.37	21.552		
12,000.0	11,960.5	11,977.0	11,960.5	23.7	16.0	90.36	21.6	-302.0	870.0	829.7	40.38	21.546		
12,025.0	11,985.3	12,001.7	11,985.3	23.7	16.1	90.60	21.6	-302.0	870.1	829.7	40.39	21.542		
12,050.0	12,009.8	12,026.2	12,009.8	23.7	16.1	90.91	21.6	-302.0	870.1	829.7	40.40	21.539		
12,075.0	12,034.0	12,050.4	12,034.0	23.7	16.1	91.30	21.6	-302.0	870.3	829.9	40.41	21.538		
12,100.0	12,057.8	12,074.3	12,057.8	23.7	16.1	91.74	21.6	-302.0	870.5	830.1	40.41	21.539		
12,125.0	12,081.2	12,097.7	12,081.2	23.7	16.2	92.24	21.6	-302.0	870.8	830.4	40.42	21.543		
12,150.0	12,104.2	12,120.6	12,104.2	23.7	16.2	92.79	21.6	-302.0	871.3	830.8	40.43	21.552		
12,175.0	12,126.5	12,143.0	12,126.5	23.6	16.2	93.36	21.6	-302.0	871.9	831.5	40.43	21.565		
12,200.0	12,148.3	12,164.8	12,148.3	23.6	16.2	93.96	21.6	-302.0	872.8	832.4	40.44	21.585		
12,225.0	12,169.4	12,185.8	12,169.4	23.6	16.2	94.55	21.6	-302.0	874.0	833.6	40.44	21.612		
12,250.0	12,189.7	12,206.2	12,189.7	23.6	16.2	95.15	21.6	-302.0	875.5	835.1	40.44	21.649		
12,275.0	12,209.3	12,225.8	12,209.3	23.6	16.3	95.72	21.6	-302.0	877.4	837.0	40.44	21.696		
12,300.0	12,228.0	12,244.5	12,228.0	23.6	16.3	96.25	21.6	-302.0	879.7	839.3	40.44	21.755		
12,325.0	12,245.9	12,262.3	12,245.9	23.6	16.3	96.73	21.6	-302.0	882.5	842.0	40.43	21.827		
12,350.0	12,262.8	12,279.2	12,262.8	23.7	16.3	97.14	21.6	-302.0	885.7	845.3	40.42	21.914		
12,375.0	12,278.7	12,299.0	12,282.6	23.7	16.3	97.67	21.5	-302.0	889.5	849.1	40.41	22.012		
12,400.0	12,293.5	12,325.9	12,309.3	23.7	16.3	98.50	20.2	-302.0	893.8	853.4	40.42	22.114		
12,425.0	12,307.3	12,354.8	12,338.2	23.7	16.3	99.38	17.0	-302.0	898.4	857.9	40.44	22.216		
12,450.0	12,320.0	12,386.5	12,369.4	23.7	16.3	100.33	11.6	-301.9	903.3	862.8	40.49	22.310		
12,475.0	12,331.6	12,421.6	12,403.4	23.7	16.3	101.37	3.3	-301.8	908.6	868.0	40.58	22.387		
12,500.0	12,342.0	12,460.9	12,440.7	23.7	16.2	102.54	-9.0	-301.7	914.0	873.3	40.74	22.436		
12,525.0	12,351.1	12,494.3	12,471.5	23.7	16.2	103.35	-22.0	-301.6	919.6	878.7	40.89	22.492		
12,550.0	12,359.1	12,544.2	12,515.7	23.8	16.2	104.79	-45.1	-301.3	925.2	884.0	41.21	22.450		
12,575.0	12,365.7	12,617.5	12,575.7	23.8	16.2	106.97	-87.1	-300.9	930.7	888.8	41.84	22.246		
12,600.0	12,371.2	12,688.5	12,627.0	23.8	16.2	108.74	-136.0	-300.4	935.7	893.2	42.50	22.018		
12,625.0	12,375.3	12,771.9	12,677.2	23.8	16.2	110.50	-202.5	-299.8	940.0	896.7	43.29	21.714		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
12,650.0	12,378.1	12,868.0	12,719.7	23.9	16.3	112.00	-288.6	-298.9	943.3	899.2	44.10	21.387		
12,675.0	12,379.7	12,974.4	12,745.6	23.9	16.4	112.90	-391.5	-297.9	945.1	900.3	44.73	21.128		
12,691.8	12,380.0	13,035.8	12,749.9	23.9	16.4	113.04	-452.7	-297.3	945.3	900.4	44.92	21.043		
12,700.0	12,380.0	13,049.4	12,750.0	23.9	16.5	113.04	-466.3	-297.1	945.3	900.4	44.97	21.023		
12,800.0	12,380.0	13,149.4	12,750.0	24.1	16.6	113.04	-566.3	-296.2	945.3	899.8	45.48	20.787		
12,900.0	12,380.0	13,249.4	12,750.0	24.3	16.8	113.04	-666.3	-295.2	945.3	899.2	46.05	20.529		
13,000.0	12,380.0	13,349.4	12,750.0	24.6	17.1	113.04	-766.3	-294.2	945.3	898.6	46.67	20.253		
13,100.0	12,380.0	13,449.4	12,750.0	24.9	17.4	113.04	-866.3	-293.2	945.2	897.9	47.36	19.960		
13,200.0	12,380.0	13,549.4	12,750.0	25.2	17.8	113.04	-966.3	-292.2	945.2	897.1	48.09	19.654		
13,300.0	12,380.0	13,649.4	12,750.0	25.5	18.1	113.04	-1,066.3	-291.2	945.2	896.3	48.88	19.337		
13,400.0	12,380.0	13,749.4	12,750.0	25.9	18.6	113.05	-1,166.2	-290.2	945.2	895.5	49.72	19.012		
13,500.0	12,380.0	13,849.4	12,750.0	26.3	19.0	113.05	-1,266.2	-289.2	945.2	894.6	50.60	18.680		
13,600.0	12,380.0	13,949.4	12,750.0	26.8	19.5	113.05	-1,366.2	-288.2	945.1	893.6	51.52	18.345		
13,700.0	12,380.0	14,049.4	12,750.0	27.3	20.0	113.05	-1,466.2	-287.2	945.1	892.6	52.49	18.007		
13,800.0	12,380.0	14,149.4	12,750.0	27.8	20.5	113.05	-1,566.2	-286.2	945.1	891.6	53.49	17.668		
13,900.0	12,380.0	14,249.4	12,750.0	28.3	21.0	113.05	-1,666.2	-285.2	945.1	890.5	54.53	17.330		
14,000.0	12,380.0	14,349.4	12,750.0	28.8	21.6	113.05	-1,766.2	-284.2	945.1	889.4	55.61	16.994		
14,100.0	12,380.0	14,449.4	12,750.0	29.4	22.2	113.05	-1,866.2	-283.2	945.0	888.3	56.72	16.662		
14,200.0	12,380.0	14,549.4	12,750.0	30.0	22.8	113.05	-1,966.2	-282.2	945.0	887.2	57.86	16.333		
14,300.0	12,380.0	14,649.4	12,750.0	30.6	23.4	113.05	-2,066.2	-281.2	945.0	886.0	59.03	16.010		
14,400.0	12,380.0	14,749.4	12,750.0	31.2	24.0	113.05	-2,166.2	-280.2	945.0	884.8	60.22	15.691		
14,500.0	12,380.0	14,849.4	12,750.0	31.9	24.6	113.05	-2,266.2	-279.2	945.0	883.5	61.44	15.379		
14,600.0	12,380.0	14,949.4	12,750.0	32.5	25.3	113.05	-2,366.2	-278.2	944.9	882.2	62.69	15.073		
14,700.0	12,380.0	15,049.4	12,750.0	33.2	26.0	113.05	-2,466.2	-277.2	944.9	881.0	63.96	14.774		
14,800.0	12,380.0	15,149.4	12,750.0	33.9	26.7	113.05	-2,566.2	-276.3	944.9	879.6	65.25	14.481		
14,900.0	12,380.0	15,249.4	12,750.0	34.6	27.3	113.05	-2,666.2	-275.3	944.9	878.3	66.56	14.196		
15,000.0	12,380.0	15,349.4	12,750.0	35.3	28.0	113.05	-2,766.2	-274.3	944.9	877.0	67.89	13.918		
15,100.0	12,380.0	15,449.4	12,750.0	36.0	28.7	113.05	-2,866.2	-273.3	944.8	875.6	69.24	13.647		
15,200.0	12,380.0	15,549.4	12,750.0	36.8	29.5	113.05	-2,966.2	-272.3	944.8	874.2	70.60	13.383		
15,300.0	12,380.0	15,649.4	12,750.0	37.5	30.2	113.05	-3,066.2	-271.3	944.8	872.8	71.98	13.126		
15,400.0	12,380.0	15,749.4	12,750.0	38.3	30.9	113.06	-3,166.2	-270.3	944.8	871.4	73.37	12.876		
15,500.0	12,380.0	15,849.4	12,750.0	39.0	31.7	113.06	-3,266.1	-269.3	944.7	870.0	74.78	12.633		
15,600.0	12,380.0	15,949.4	12,750.0	39.8	32.4	113.06	-3,366.1	-268.3	944.7	868.5	76.20	12.397		
15,700.0	12,380.0	16,049.4	12,750.0	40.6	33.1	113.06	-3,466.1	-267.3	944.7	867.1	77.64	12.168		
15,800.0	12,380.0	16,149.4	12,750.0	41.4	33.9	113.06	-3,566.1	-266.3	944.7	865.6	79.09	11.945		
15,900.0	12,380.0	16,249.4	12,750.0	42.2	34.7	113.06	-3,666.1	-265.3	944.7	864.1	80.54	11.729		
16,000.0	12,380.0	16,349.4	12,750.0	43.0	35.4	113.06	-3,766.1	-264.3	944.6	862.6	82.01	11.518		
16,100.0	12,380.0	16,449.4	12,750.0	43.8	36.2	113.06	-3,866.1	-263.3	944.6	861.1	83.49	11.314		
16,200.0	12,380.0	16,549.4	12,750.0	44.6	37.0	113.06	-3,966.1	-262.3	944.6	859.6	84.98	11.116		
16,300.0	12,380.0	16,649.4	12,750.0	45.4	37.7	113.06	-4,066.1	-261.3	944.6	858.1	86.48	10.923		
16,400.0	12,380.0	16,749.4	12,750.0	46.2	38.5	113.06	-4,166.1	-260.3	944.6	856.6	87.98	10.736		
16,500.0	12,380.0	16,849.4	12,750.0	47.1	39.3	113.06	-4,266.1	-259.3	944.5	855.0	89.50	10.554		
16,600.0	12,380.0	16,949.4	12,750.0	47.9	40.1	113.06	-4,366.1	-258.3	944.5	853.5	91.02	10.377		
16,700.0	12,380.0	17,049.4	12,750.0	48.8	40.9	113.06	-4,466.1	-257.4	944.5	852.0	92.55	10.206		
16,800.0	12,380.0	17,149.4	12,750.0	49.6	41.7	113.06	-4,566.1	-256.4	944.5	850.4	94.08	10.039		
16,900.0	12,380.0	17,249.4	12,750.0	50.5	42.4	113.06	-4,666.1	-255.4	944.5	848.8	95.63	9.877		
17,000.0	12,380.0	17,349.4	12,750.0	51.3	43.2	113.06	-4,766.1	-254.4	944.4	847.3	97.18	9.719		
17,100.0	12,380.0	17,449.4	12,750.0	52.2	44.0	113.06	-4,866.1	-253.4	944.4	845.7	98.73	9.566		
17,200.0	12,380.0	17,549.4	12,750.0	53.0	44.8	113.06	-4,966.1	-252.4	944.4	844.1	100.29	9.416		
17,300.0	12,380.0	17,649.4	12,750.0	53.9	45.6	113.06	-5,066.1	-251.4	944.4	842.5	101.86	9.271		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
17,400.0	12,380.0	17,749.4	12,750.0	54.8	46.4	113.07	-5,166.1	-250.4	944.4	840.9	103.43	9.130	
17,500.0	12,380.0	17,849.4	12,750.0	55.6	47.3	113.07	-5,266.0	-249.4	944.3	839.3	105.01	8.993	
17,600.0	12,380.0	17,949.4	12,750.0	56.5	48.1	113.07	-5,366.0	-248.4	944.3	837.7	106.59	8.859	
17,700.0	12,380.0	18,049.4	12,750.0	57.4	48.9	113.07	-5,466.0	-247.4	944.3	836.1	108.17	8.729	
17,800.0	12,380.0	18,149.4	12,750.0	58.3	49.7	113.07	-5,566.0	-246.4	944.3	834.5	109.77	8.603	
17,900.0	12,380.0	18,249.4	12,750.0	59.1	50.5	113.07	-5,666.0	-245.4	944.2	832.9	111.36	8.479	
18,000.0	12,380.0	18,349.4	12,750.0	60.0	51.3	113.07	-5,766.0	-244.4	944.2	831.3	112.96	8.359	
18,100.0	12,380.0	18,449.4	12,750.0	60.9	52.1	113.07	-5,866.0	-243.4	944.2	829.6	114.56	8.242	
18,200.0	12,380.0	18,549.4	12,750.0	61.8	52.9	113.07	-5,966.0	-242.4	944.2	828.0	116.17	8.128	
18,300.0	12,380.0	18,649.4	12,750.0	62.7	53.8	113.07	-6,066.0	-241.4	944.2	826.4	117.78	8.017	
18,400.0	12,380.0	18,749.4	12,750.0	63.6	54.6	113.07	-6,166.0	-240.4	944.1	824.8	119.39	7.908	
18,500.0	12,380.0	18,849.4	12,750.0	64.5	55.4	113.07	-6,266.0	-239.4	944.1	823.1	121.01	7.802	
18,600.0	12,380.0	18,949.4	12,750.0	65.4	56.2	113.07	-6,366.0	-238.5	944.1	821.5	122.63	7.699	
18,700.0	12,380.0	19,049.4	12,750.0	66.3	57.0	113.07	-6,466.0	-237.5	944.1	819.8	124.25	7.598	
18,800.0	12,380.0	19,149.4	12,750.0	67.2	57.9	113.07	-6,566.0	-236.5	944.1	818.2	125.87	7.500	
18,900.0	12,380.0	19,249.4	12,750.0	68.1	58.7	113.07	-6,666.0	-235.5	944.0	816.5	127.50	7.404	
19,000.0	12,380.0	19,349.4	12,750.0	69.0	59.5	113.07	-6,766.0	-234.5	944.0	814.9	129.13	7.310	
19,100.0	12,380.0	19,449.4	12,750.0	69.9	60.4	113.07	-6,866.0	-233.5	944.0	813.2	130.77	7.219	
19,200.0	12,380.0	19,549.4	12,750.0	70.8	61.2	113.07	-6,966.0	-232.5	944.0	811.6	132.40	7.130	
19,300.0	12,380.0	19,649.4	12,750.0	71.7	62.0	113.07	-7,066.0	-231.5	944.0	809.9	134.04	7.042	
19,400.0	12,380.0	19,749.4	12,750.0	72.6	62.8	113.08	-7,166.0	-230.5	943.9	808.3	135.68	6.957	
19,500.0	12,380.0	19,849.4	12,750.0	73.5	63.7	113.08	-7,265.9	-229.5	943.9	806.6	137.32	6.874	
19,600.0	12,380.0	19,949.4	12,750.0	74.5	64.5	113.08	-7,365.9	-228.5	943.9	804.9	138.97	6.792	
19,700.0	12,380.0	20,049.4	12,750.0	75.4	65.3	113.08	-7,465.9	-227.5	943.9	803.3	140.62	6.712	
19,800.0	12,380.0	20,149.4	12,750.0	76.3	66.2	113.08	-7,565.9	-226.5	943.9	801.6	142.26	6.634	
19,900.0	12,380.0	20,249.4	12,750.0	77.2	67.0	113.08	-7,665.9	-225.5	943.8	799.9	143.92	6.558	
20,000.0	12,380.0	20,349.4	12,750.0	78.1	67.8	113.08	-7,765.9	-224.5	943.8	798.2	145.57	6.484	
20,100.0	12,380.0	20,449.4	12,750.0	79.0	68.7	113.08	-7,865.9	-223.5	943.8	796.6	147.22	6.411	
20,200.0	12,380.0	20,549.4	12,750.0	80.0	69.5	113.08	-7,965.9	-222.5	943.8	794.9	148.88	6.339	
20,300.0	12,380.0	20,649.4	12,750.0	80.9	70.3	113.08	-8,065.9	-221.5	943.8	793.2	150.54	6.269	
20,378.3	12,380.0	20,727.7	12,750.0	81.6	71.0	113.08	-8,144.2	-220.8	943.7	791.9	151.84	6.216	
20,378.9	12,380.0	20,728.3	12,750.0	81.6	71.0	113.08	-8,144.8	-220.8	943.7	791.9	151.84	6.215	

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 602H - Slot BOATER FED COM 602H
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 602H	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)			
5,400.0	5,366.9	5,724.3	5,616.4	17.1	12.5	0.44	62.5	1,408.0	978.0	949.0	29.00	33.727	
5,500.0	5,465.8	5,816.2	5,705.3	17.5	12.7	0.30	63.8	1,384.5	938.7	909.1	29.59	31.723	
5,600.0	5,564.7	5,908.2	5,794.1	17.9	12.9	0.14	65.1	1,360.9	899.4	869.3	30.19	29.796	
5,700.0	5,663.7	6,000.1	5,883.0	18.3	13.1	-0.04	66.4	1,337.4	860.2	829.4	30.79	27.939	
5,703.8	5,667.5	6,003.6	5,886.4	18.3	13.1	-0.04	66.5	1,336.5	858.7	827.9	30.81	27.869	
5,800.0	5,762.7	6,092.3	5,972.2	18.7	13.3	-0.22	67.7	1,313.8	821.6	790.3	31.38	26.183	
5,900.0	5,862.0	6,185.2	6,061.9	19.1	13.5	-0.43	69.1	1,290.0	784.7	752.8	31.97	24.547	
6,000.0	5,961.5	6,278.8	6,152.4	19.5	13.7	-0.65	70.4	1,266.1	749.5	716.9	32.55	23.028	
6,100.0	6,061.1	6,372.9	6,243.3	19.9	13.9	-0.89	71.8	1,242.0	715.9	682.7	33.11	21.618	
6,200.0	6,160.9	6,467.6	6,334.9	20.2	14.1	-1.16	73.1	1,217.8	683.9	650.2	33.66	20.315	
6,300.0	6,260.8	6,562.8	6,427.0	20.6	14.3	-1.44	74.5	1,193.4	653.6	619.4	34.19	19.115	
6,400.0	6,360.7	6,658.6	6,519.5	20.9	14.5	-1.74	75.9	1,168.9	625.0	590.3	34.70	18.015	
6,500.0	6,460.7	6,754.9	6,612.6	21.1	14.7	-2.07	77.3	1,144.3	598.1	563.0	35.14	17.019	
6,539.3	6,500.0	6,792.8	6,649.2	21.2	14.8	84.97	77.8	1,134.6	588.0	552.8	35.26	16.677	
6,600.0	6,560.7	6,851.5	6,706.0	21.2	14.9	84.75	78.7	1,119.6	572.6	537.2	35.38	16.183	
6,700.0	6,660.7	6,948.1	6,799.4	21.2	15.1	84.36	80.1	1,094.8	547.3	511.6	35.61	15.368	
6,800.0	6,760.7	7,044.8	6,892.8	21.3	15.3	83.92	81.5	1,070.1	521.9	486.1	35.84	14.564	
6,900.0	6,860.7	7,141.5	6,986.2	21.3	15.6	83.45	82.8	1,045.4	496.6	460.6	36.06	13.771	
7,000.0	6,960.7	7,238.1	7,079.7	21.4	15.8	82.92	84.2	1,020.6	471.4	435.1	36.29	12.989	
7,100.0	7,060.7	7,334.8	7,173.1	21.4	16.0	82.33	85.6	995.9	446.1	409.6	36.51	12.219	
7,200.0	7,160.7	7,431.4	7,266.5	21.4	16.2	81.67	87.0	971.1	421.0	384.2	36.74	11.459	
7,300.0	7,260.7	7,528.1	7,360.0	21.5	16.4	80.93	88.4	946.4	395.9	358.9	36.96	10.712	
7,400.0	7,360.7	7,624.8	7,453.4	21.5	16.6	80.09	89.8	921.7	370.8	333.6	37.17	9.976	
7,500.0	7,460.7	7,721.4	7,546.8	21.6	16.9	79.13	91.2	896.9	345.9	308.5	37.38	9.252	
7,600.0	7,560.7	7,818.1	7,640.3	21.6	17.1	78.01	92.6	872.2	321.0	283.4	37.58	8.542	
7,700.0	7,660.7	7,914.7	7,733.7	21.7	17.3	76.72	94.0	847.5	296.3	258.5	37.77	7.845	
7,800.0	7,760.7	8,011.4	7,827.1	21.7	17.5	75.19	95.4	822.7	271.7	233.8	37.94	7.163	
7,900.0	7,860.7	8,108.1	7,920.6	21.8	17.7	73.36	96.8	798.0	247.4	209.3	38.08	6.497	
8,000.0	7,960.7	8,204.7	8,014.0	21.8	17.9	71.13	98.2	773.3	223.4	185.2	38.19	5.850	
8,100.0	8,060.7	8,300.0	8,106.2	21.8	18.1	68.49	99.5	749.4	200.2	162.0	38.26	5.233	
8,200.0	8,160.7	8,393.3	8,196.9	21.9	18.4	65.48	100.7	727.5	179.0	140.6	38.33	4.669	
8,300.0	8,260.7	8,488.4	8,289.7	21.9	18.6	61.94	101.9	706.6	159.8	121.5	38.28	4.173	
8,400.0	8,360.7	8,584.2	8,383.5	22.0	18.8	57.83	103.0	687.2	142.7	104.6	38.11	3.744	
8,500.0	8,460.7	8,680.7	8,478.2	22.0	19.0	53.11	104.0	669.2	127.8	90.0	37.79	3.382	
8,600.0	8,560.7	8,777.7	8,573.8	22.1	19.2	47.78	104.9	652.8	115.2	77.9	37.33	3.087	
8,700.0	8,660.7	8,875.2	8,670.3	22.1	19.3	41.93	105.8	637.9	105.0	68.2	36.74	2.857 Normal Operations	
8,800.0	8,760.7	8,973.3	8,767.4	22.2	19.5	35.74	106.5	624.5	97.0	60.9	36.07	2.688 Normal Operations	
8,900.0	8,860.7	9,071.8	8,865.2	22.2	19.7	29.49	107.2	612.8	91.1	55.7	35.41	2.572 Normal Operations	
9,000.0	8,960.7	9,170.6	8,963.5	22.3	19.9	23.50	107.7	602.7	87.0	52.2	34.86	2.496 Caution - Monitor Closely	
9,100.0	9,060.7	9,269.8	9,062.4	22.3	20.0	18.13	108.2	594.3	84.4	50.0	34.47	2.450 Caution - Monitor Closely	
9,200.0	9,160.7	9,369.3	9,161.6	22.4	20.2	13.63	108.6	587.5	82.9	48.7	34.25	2.421 Caution - Monitor Closely	
9,300.0	9,260.7	9,468.9	9,261.1	22.4	20.4	10.18	108.9	582.5	82.2	48.0	34.18	2.404 Caution - Monitor Closely	
9,400.0	9,360.7	9,568.7	9,360.9	22.4	20.5	7.89	109.1	579.2	81.8	47.6	34.22	2.392 Caution - Monitor Closely	
9,500.0	9,460.7	9,668.6	9,460.7	22.5	20.6	6.81	109.2	577.7	81.7	47.4	34.32	2.381 Caution - Monitor Closely	
9,554.5	9,515.2	9,723.1	9,515.2	22.5	20.6	6.71	109.2	577.6	81.7	47.3	34.39	2.376 Caution - Monitor Closely	
9,600.0	9,560.7	9,768.6	9,560.7	22.5	20.7	6.71	109.2	577.6	81.7	47.3	34.45	2.372 Caution - Monitor Closely	
9,700.0	9,660.7	9,868.6	9,660.7	22.6	20.7	6.71	109.2	577.6	81.7	47.1	34.57	2.364 Caution - Monitor Closely	
9,800.0	9,760.7	9,968.6	9,760.7	22.6	20.7	6.71	109.2	577.6	81.7	47.0	34.70	2.355 Caution - Monitor Closely	
9,900.0	9,860.7	10,068.6	9,860.7	22.7	20.8	6.71	109.2	577.6	81.7	46.9	34.83	2.346 Caution - Monitor Closely	
10,000.0	9,960.7	10,168.6	9,960.7	22.7	20.8	6.71	109.2	577.6	81.7	46.8	34.96	2.338 Caution - Monitor Closely	
10,100.0	10,060.7	10,268.6	10,060.7	22.8	20.9	6.71	109.2	577.6	81.7	46.6	35.09	2.329 Caution - Monitor Closely	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
10,200.0	10,160.7	10,368.6	10,160.7	22.8	20.9	6.71	109.2	577.6	81.7	46.5	35.22	2.320	Caution - Monitor Closely	
10,300.0	10,260.7	10,468.6	10,260.7	22.9	21.0	6.71	109.2	577.6	81.7	46.4	35.35	2.312	Caution - Monitor Closely	
10,400.0	10,360.7	10,568.6	10,360.7	22.9	21.0	6.71	109.2	577.6	81.7	46.2	35.48	2.303	Caution - Monitor Closely	
10,500.0	10,460.7	10,668.6	10,460.7	23.0	21.1	6.71	109.2	577.6	81.7	46.1	35.61	2.295	Caution - Monitor Closely	
10,600.0	10,560.7	10,768.6	10,560.7	23.0	21.1	6.71	109.2	577.6	81.7	46.0	35.74	2.287	Caution - Monitor Closely	
10,700.0	10,660.7	10,868.6	10,660.7	23.1	21.2	6.71	109.2	577.6	81.7	45.9	35.87	2.278	Caution - Monitor Closely	
10,800.0	10,760.7	10,968.6	10,760.7	23.1	21.2	6.71	109.2	577.6	81.7	45.7	36.00	2.270	Caution - Monitor Closely	
10,900.0	10,860.7	11,068.6	10,860.7	23.2	21.3	6.71	109.2	577.6	81.7	45.6	36.13	2.262	Caution - Monitor Closely	
11,000.0	10,960.7	11,168.6	10,960.7	23.2	21.3	6.71	109.2	577.6	81.7	45.5	36.26	2.254	Caution - Monitor Closely	
11,100.0	11,060.7	11,268.6	11,060.7	23.3	21.3	6.71	109.2	577.6	81.7	45.3	36.39	2.245	Caution - Monitor Closely	
11,200.0	11,160.7	11,368.6	11,160.7	23.3	21.4	6.71	109.2	577.6	81.7	45.2	36.52	2.237	Caution - Monitor Closely	
11,300.0	11,260.7	11,468.6	11,260.7	23.4	21.4	6.71	109.2	577.6	81.7	45.1	36.66	2.229	Caution - Monitor Closely	
11,400.0	11,360.7	11,568.6	11,360.7	23.4	21.5	6.71	109.2	577.6	81.7	44.9	36.79	2.221	Caution - Monitor Closely	
11,500.0	11,460.7	11,668.6	11,460.7	23.5	21.5	6.71	109.2	577.6	81.7	44.8	36.92	2.213	Caution - Monitor Closely	
11,600.0	11,560.7	11,768.6	11,560.7	23.5	21.6	6.71	109.2	577.6	81.7	44.7	37.05	2.205	Caution - Monitor Closely	
11,700.0	11,660.7	11,868.6	11,660.7	23.6	21.6	6.71	109.2	577.6	81.7	44.5	37.19	2.198	Caution - Monitor Closely	
11,800.0	11,760.7	11,968.6	11,760.7	23.6	21.7	6.71	109.2	577.6	81.7	44.4	37.32	2.190	Caution - Monitor Closely	
11,900.0	11,860.7	12,068.6	11,860.7	23.7	21.7	6.71	109.2	577.6	81.7	44.3	37.45	2.182	Caution - Monitor Closely	
11,941.8	11,902.5	12,110.4	11,902.5	23.7	21.8	6.71	109.2	577.6	81.7	44.2	37.50	2.179	Caution - Monitor Closely, CC, ES, SF	
11,950.0	11,910.7	12,118.6	11,910.7	23.7	21.8	-172.74	109.2	577.6	81.8	44.3	37.50	2.181	Caution - Monitor Closely	
11,975.0	11,935.7	12,143.6	11,935.7	23.7	21.8	-172.82	109.2	577.6	82.9	45.4	37.51	2.209	Caution - Monitor Closely	
12,000.0	11,960.5	12,168.5	11,960.5	23.7	21.8	-172.98	109.2	577.6	85.2	47.7	37.50	2.273	Caution - Monitor Closely	
12,025.0	11,985.3	12,193.2	11,985.3	23.7	21.8	-173.22	109.2	577.6	88.9	51.4	37.50	2.371	Caution - Monitor Closely	
12,050.0	12,009.8	12,217.7	12,009.8	23.7	21.8	-173.51	109.2	577.6	93.8	56.3	37.49	2.503	Normal Operations	
12,075.0	12,034.0	12,241.9	12,034.0	23.7	21.8	-173.83	109.2	577.6	100.1	62.6	37.49	2.669	Normal Operations	
12,100.0	12,057.8	12,265.7	12,057.8	23.7	21.8	-174.17	109.2	577.6	107.5	70.0	37.49	2.868	Normal Operations	
12,125.0	12,081.2	12,289.1	12,081.2	23.7	21.8	-174.50	109.2	577.6	116.2	78.7	37.49	3.100		
12,150.0	12,104.2	12,312.1	12,104.2	23.7	21.9	-174.82	109.2	577.6	126.2	88.7	37.50	3.364		
12,175.0	12,126.5	12,334.4	12,126.5	23.6	21.9	-175.11	109.2	577.6	137.3	99.8	37.51	3.660		
12,200.0	12,148.3	12,356.2	12,148.3	23.6	21.9	-175.38	109.2	577.6	149.5	112.0	37.52	3.985		
12,225.0	12,169.4	12,377.3	12,169.4	23.6	21.9	-175.62	109.2	577.6	162.9	125.4	37.54	4.340		
12,250.0	12,189.7	12,397.6	12,189.7	23.6	21.9	-175.82	109.2	577.6	177.4	139.9	37.56	4.723		
12,275.0	12,209.3	12,417.2	12,209.3	23.6	21.9	-175.99	109.2	577.6	193.0	155.4	37.58	5.134		
12,300.0	12,228.0	12,435.9	12,228.0	23.6	21.9	-176.14	109.2	577.6	209.5	171.9	37.60	5.571		
12,325.0	12,245.9	12,453.8	12,245.9	23.6	21.9	-176.25	109.2	577.6	227.0	189.4	37.63	6.032		
12,350.0	12,262.8	12,470.7	12,262.8	23.7	21.9	-176.32	109.2	577.6	245.4	207.7	37.65	6.517		
12,375.0	12,278.7	12,494.2	12,288.3	23.7	21.9	-176.49	109.0	577.6	264.6	226.9	37.65	7.027		
12,400.0	12,293.5	12,532.3	12,324.2	23.7	21.9	-176.83	106.3	577.6	283.6	245.8	37.77	7.509		
12,425.0	12,307.3	12,575.8	12,367.2	23.7	21.9	-177.15	99.7	577.6	302.1	263.9	38.21	7.906		
12,450.0	12,320.0	12,626.4	12,416.3	23.7	21.9	-177.45	87.0	577.8	319.8	280.7	39.11	8.177		
12,475.0	12,331.6	12,686.3	12,472.1	23.7	21.9	-177.72	65.4	578.0	336.3	295.7	40.64	8.275		
12,500.0	12,342.0	12,743.0	12,521.9	23.7	21.9	-177.91	38.7	578.3	351.2	308.9	42.27	8.307		
12,525.0	12,351.1	12,844.3	12,602.2	23.7	21.9	-178.18	-22.9	578.9	363.7	317.6	46.18	7.876		
12,550.0	12,359.1	12,946.0	12,667.7	23.8	21.9	-178.33	-100.4	579.6	373.0	323.1	49.96	7.467		
12,575.0	12,365.7	13,042.4	12,713.3	23.8	22.1	-178.40	-185.1	580.5	378.1	325.2	52.92	7.146		
12,600.0	12,371.2	13,166.4	12,745.5	23.8	22.3	-178.42	-304.5	581.7	378.3	322.6	55.68	6.794		
12,625.0	12,375.3	13,244.9	12,750.0	23.8	22.5	-178.39	-382.7	582.4	374.8	318.4	56.45	6.640		
12,650.0	12,378.1	13,269.7	12,750.0	23.9	22.6	-178.38	-407.6	582.7	372.0	315.5	56.51	6.583		
12,675.0	12,379.7	13,294.7	12,750.0	23.9	22.6	-178.38	-432.5	582.9	370.4	313.9	56.57	6.548		
12,691.8	12,380.0	13,311.5	12,750.0	23.9	22.7	-178.38	-449.3	583.1	370.1	313.5	56.61	6.539		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
12,691.8	12,380.0	13,311.5	12,750.0	23.9	22.7	-178.38	-449.3	583.1	370.1	313.5	56.61	6.539	
12,700.0	12,380.0	13,319.7	12,750.0	23.9	22.7	-178.38	-457.5	583.2	370.1	313.5	56.63	6.536	
12,800.0	12,380.0	13,419.7	12,750.0	24.1	23.0	-178.38	-557.5	584.2	370.1	313.3	56.89	6.506	
12,900.0	12,380.0	13,519.7	12,750.0	24.3	23.3	-178.37	-657.5	585.2	370.1	313.0	57.18	6.474	
13,000.0	12,380.0	13,619.7	12,750.0	24.6	23.7	-178.37	-757.5	586.2	370.1	312.7	57.49	6.439	
13,100.0	12,380.0	13,719.7	12,750.0	24.9	24.0	-178.37	-857.5	587.2	370.1	312.3	57.83	6.401	
13,200.0	12,380.0	13,819.7	12,750.0	25.2	24.4	-178.36	-957.5	588.2	370.1	312.0	58.19	6.361	
13,300.0	12,380.0	13,919.7	12,750.0	25.5	24.8	-178.36	-1,057.5	589.2	370.1	311.6	58.58	6.318	
13,400.0	12,380.0	14,019.7	12,750.0	25.9	25.2	-178.36	-1,157.5	590.2	370.1	311.2	59.00	6.274	
13,500.0	12,380.0	14,119.7	12,750.0	26.3	25.6	-178.35	-1,257.5	591.1	370.1	310.7	59.44	6.228	
13,600.0	12,380.0	14,219.7	12,750.0	26.8	26.0	-178.35	-1,357.5	592.1	370.1	310.3	59.90	6.180	
13,700.0	12,380.0	14,319.7	12,750.0	27.3	26.5	-178.35	-1,457.5	593.1	370.1	309.8	60.38	6.130	
13,800.0	12,380.0	14,419.7	12,750.0	27.8	26.9	-178.34	-1,557.5	594.1	370.1	309.3	60.89	6.079	
13,900.0	12,380.0	14,519.7	12,750.0	28.3	27.4	-178.34	-1,657.5	595.1	370.2	308.7	61.42	6.026	
14,000.0	12,380.0	14,619.7	12,750.0	28.8	27.9	-178.33	-1,757.5	596.1	370.2	308.2	61.98	5.973	
14,100.0	12,380.0	14,719.7	12,750.0	29.4	28.4	-178.33	-1,857.5	597.1	370.2	307.6	62.55	5.918	
14,200.0	12,380.0	14,819.7	12,750.0	30.0	28.9	-178.33	-1,957.5	598.1	370.2	307.0	63.14	5.862	
14,300.0	12,380.0	14,919.7	12,750.0	30.6	29.5	-178.32	-2,057.4	599.1	370.2	306.4	63.75	5.806	
14,400.0	12,380.0	15,019.7	12,750.0	31.2	30.0	-178.32	-2,157.4	600.1	370.2	305.8	64.39	5.749	
14,500.0	12,380.0	15,119.7	12,750.0	31.9	30.6	-178.32	-2,257.4	601.1	370.2	305.1	65.04	5.691	
14,600.0	12,380.0	15,219.7	12,750.0	32.5	31.2	-178.31	-2,357.4	602.1	370.2	304.4	65.71	5.633	
14,700.0	12,380.0	15,319.7	12,750.0	33.2	31.7	-178.31	-2,457.4	603.1	370.2	303.8	66.39	5.575	
14,800.0	12,380.0	15,419.7	12,750.0	33.9	32.3	-178.31	-2,557.4	604.1	370.2	303.1	67.09	5.517	
14,900.0	12,380.0	15,519.7	12,750.0	34.6	32.9	-178.30	-2,657.4	605.1	370.2	302.3	67.81	5.458	
15,000.0	12,380.0	15,619.7	12,750.0	35.3	33.6	-178.30	-2,757.4	606.1	370.2	301.6	68.55	5.400	
15,100.0	12,380.0	15,719.7	12,750.0	36.0	34.2	-178.30	-2,857.4	607.1	370.2	300.9	69.30	5.341	
15,200.0	12,380.0	15,819.7	12,750.0	36.8	34.8	-178.29	-2,957.4	608.1	370.2	300.1	70.07	5.283	
15,300.0	12,380.0	15,919.7	12,750.0	37.5	35.5	-178.29	-3,057.4	609.1	370.2	299.3	70.85	5.225	
15,400.0	12,380.0	16,019.7	12,750.0	38.3	36.1	-178.29	-3,157.4	610.0	370.2	298.5	71.64	5.167	
15,500.0	12,380.0	16,119.7	12,750.0	39.0	36.8	-178.28	-3,257.4	611.0	370.2	297.7	72.45	5.109	
15,600.0	12,380.0	16,219.7	12,750.0	39.8	37.4	-178.28	-3,357.4	612.0	370.2	296.9	73.27	5.052	
15,700.0	12,380.0	16,319.7	12,750.0	40.6	38.1	-178.28	-3,457.4	613.0	370.2	296.1	74.10	4.995	
15,800.0	12,380.0	16,419.7	12,750.0	41.4	38.8	-178.27	-3,557.4	614.0	370.2	295.2	74.95	4.939	
15,900.0	12,380.0	16,519.7	12,750.0	42.2	39.5	-178.27	-3,657.4	615.0	370.2	294.4	75.80	4.883	
16,000.0	12,380.0	16,619.7	12,750.0	43.0	40.2	-178.27	-3,757.4	616.0	370.2	293.5	76.67	4.828	
16,100.0	12,380.0	16,719.7	12,750.0	43.8	40.9	-178.26	-3,857.4	617.0	370.2	292.6	77.55	4.773	
16,200.0	12,380.0	16,819.7	12,750.0	44.6	41.6	-178.26	-3,957.4	618.0	370.2	291.7	78.44	4.719	
16,300.0	12,380.0	16,919.7	12,750.0	45.4	42.3	-178.26	-4,057.3	619.0	370.2	290.8	79.34	4.665	
16,400.0	12,380.0	17,019.7	12,750.0	46.2	43.0	-178.25	-4,157.3	620.0	370.2	289.9	80.25	4.612	
16,500.0	12,380.0	17,119.7	12,750.0	47.1	43.7	-178.25	-4,257.3	621.0	370.2	289.0	81.17	4.560	
16,600.0	12,380.0	17,219.7	12,750.0	47.9	44.5	-178.24	-4,357.3	622.0	370.2	288.1	82.10	4.509	
16,700.0	12,380.0	17,319.7	12,750.0	48.8	45.2	-178.24	-4,457.3	623.0	370.2	287.1	83.04	4.458	
16,800.0	12,380.0	17,419.7	12,750.0	49.6	45.9	-178.24	-4,557.3	624.0	370.2	286.2	83.98	4.407	
16,900.0	12,380.0	17,519.7	12,750.0	50.5	46.7	-178.23	-4,657.3	625.0	370.2	285.2	84.94	4.358	
17,000.0	12,380.0	17,619.7	12,750.0	51.3	47.4	-178.23	-4,757.3	626.0	370.2	284.3	85.90	4.309	
17,100.0	12,380.0	17,719.7	12,750.0	52.2	48.1	-178.23	-4,857.3	627.0	370.2	283.3	86.87	4.261	
17,200.0	12,380.0	17,819.7	12,750.0	53.0	48.9	-178.22	-4,957.3	628.0	370.2	282.3	87.85	4.213	
17,300.0	12,380.0	17,919.7	12,750.0	53.9	49.7	-178.22	-5,057.3	628.9	370.2	281.3	88.84	4.167	
17,400.0	12,380.0	18,019.7	12,750.0	54.8	50.4	-178.22	-5,157.3	629.9	370.2	280.3	89.83	4.121	
17,500.0	12,380.0	18,119.7	12,750.0	55.6	51.2	-178.21	-5,257.3	630.9	370.2	279.3	90.83	4.075	
17,600.0	12,380.0	18,219.7	12,750.0	56.5	51.9	-178.21	-5,357.3	631.9	370.2	278.3	91.83	4.031	

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 602H - Slot BOATER FED COM 602H
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 602H	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		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
17,700.0	12,380.0	18,319.7	12,750.0	57.4	52.7	-178.21	-5,457.3	632.9	370.2	277.3	92.85	3.987	
17,800.0	12,380.0	18,419.7	12,750.0	58.3	53.5	-178.20	-5,557.3	633.9	370.2	276.3	93.87	3.944	
17,900.0	12,380.0	18,519.7	12,750.0	59.1	54.2	-178.20	-5,657.3	634.9	370.2	275.3	94.89	3.901	
18,000.0	12,380.0	18,619.7	12,750.0	60.0	55.0	-178.20	-5,757.3	635.9	370.2	274.2	95.92	3.859	
18,100.0	12,380.0	18,719.7	12,750.0	60.9	55.8	-178.19	-5,857.3	636.9	370.2	273.2	96.96	3.818	
18,200.0	12,380.0	18,819.7	12,750.0	61.8	56.6	-178.19	-5,957.3	637.9	370.2	272.2	98.00	3.777	
18,300.0	12,380.0	18,919.7	12,750.0	62.7	57.3	-178.19	-6,057.2	638.9	370.2	271.1	99.04	3.737	
18,400.0	12,380.0	19,019.7	12,750.0	63.6	58.1	-178.18	-6,157.2	639.9	370.2	270.1	100.10	3.698	
18,500.0	12,380.0	19,119.7	12,750.0	64.5	58.9	-178.18	-6,257.2	640.9	370.2	269.0	101.15	3.659	
18,600.0	12,380.0	19,219.7	12,750.0	65.4	59.7	-178.18	-6,357.2	641.9	370.2	267.9	102.21	3.621	
18,700.0	12,380.0	19,319.7	12,750.0	66.3	60.5	-178.17	-6,457.2	642.9	370.2	266.9	103.28	3.584	
18,800.0	12,380.0	19,419.7	12,750.0	67.2	61.3	-178.17	-6,557.2	643.9	370.2	265.8	104.35	3.547	
18,900.0	12,380.0	19,519.7	12,750.0	68.1	62.1	-178.17	-6,657.2	644.9	370.2	264.7	105.42	3.511	
19,000.0	12,380.0	19,619.7	12,750.0	69.0	62.9	-178.16	-6,757.2	645.9	370.2	263.7	106.50	3.476	
19,100.0	12,380.0	19,719.7	12,750.0	69.9	63.6	-178.16	-6,857.2	646.9	370.2	262.6	107.59	3.441	
19,200.0	12,380.0	19,819.7	12,750.0	70.8	64.4	-178.16	-6,957.2	647.9	370.2	261.5	108.67	3.406	
19,300.0	12,380.0	19,919.7	12,750.0	71.7	65.2	-178.15	-7,057.2	648.8	370.2	260.4	109.76	3.372	
19,400.0	12,380.0	20,019.7	12,750.0	72.6	66.0	-178.15	-7,157.2	649.8	370.2	259.3	110.86	3.339	
19,500.0	12,380.0	20,119.7	12,750.0	73.5	66.8	-178.14	-7,257.2	650.8	370.2	258.2	111.96	3.306	
19,600.0	12,380.0	20,219.7	12,750.0	74.5	67.6	-178.14	-7,357.2	651.8	370.2	257.1	113.06	3.274	
19,700.0	12,380.0	20,319.7	12,750.0	75.4	68.5	-178.14	-7,457.2	652.8	370.2	256.0	114.16	3.242	
19,800.0	12,380.0	20,419.7	12,750.0	76.3	69.3	-178.13	-7,557.2	653.8	370.2	254.9	115.27	3.211	
19,900.0	12,380.0	20,519.7	12,750.0	77.2	70.1	-178.13	-7,657.2	654.8	370.2	253.8	116.38	3.181	
20,000.0	12,380.0	20,619.7	12,750.0	78.1	70.9	-178.13	-7,757.2	655.8	370.2	252.7	117.50	3.150	
20,100.0	12,380.0	20,719.7	12,750.0	79.0	71.7	-178.12	-7,857.2	656.8	370.2	251.6	118.61	3.121	
20,200.0	12,380.0	20,819.7	12,750.0	80.0	72.5	-178.12	-7,957.2	657.8	370.2	250.4	119.73	3.092	
20,300.0	12,380.0	20,919.7	12,750.0	80.9	73.3	-178.12	-8,057.2	658.8	370.2	249.3	120.86	3.063	
20,378.3	12,380.0	20,998.0	12,750.0	81.6	73.9	-178.11	-8,135.5	659.6	370.2	248.4	121.74	3.041	
20,378.9	12,380.0	20,998.5	12,750.0	81.6	73.9	-178.11	-8,136.0	659.6	370.2	248.4	121.74	3.041	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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)			
6,000.0	5,961.5	6,189.8	6,115.6	19.5	13.0	2.52	32.7	1,529.9	999.2	966.6	32.61	30.642	
6,100.0	6,061.1	6,272.8	6,197.7	19.9	13.1	2.51	33.0	1,517.7	976.1	942.9	33.22	29.380	
6,200.0	6,160.9	6,356.7	6,280.8	20.2	13.3	2.50	33.3	1,506.6	956.2	922.4	33.82	28.274	
6,300.0	6,260.8	6,441.2	6,364.8	20.6	13.4	2.48	33.5	1,496.6	939.4	905.0	34.38	27.319	
6,400.0	6,360.7	6,526.5	6,449.6	20.9	13.6	2.47	33.7	1,487.8	925.7	890.8	34.91	26.516	
6,500.0	6,460.7	6,612.1	6,534.9	21.1	13.7	2.45	33.9	1,480.2	915.3	880.0	35.38	25.874	
6,539.3	6,500.0	6,645.9	6,568.6	21.2	13.8	89.62	34.0	1,477.5	912.1	876.6	35.49	25.700	
6,600.0	6,560.7	6,700.0	6,622.6	21.2	13.9	89.62	34.1	1,473.7	907.8	872.2	35.60	25.499	
6,700.0	6,660.7	6,784.4	6,706.8	21.2	14.0	89.61	34.2	1,468.8	902.0	866.2	35.81	25.188	
6,800.0	6,760.7	6,870.8	6,793.1	21.3	14.1	89.60	34.3	1,465.0	897.6	861.6	36.00	24.932	
6,900.0	6,860.7	6,957.2	6,879.5	21.3	14.3	89.60	34.3	1,462.5	894.8	858.6	36.18	24.729	
7,000.0	6,960.7	7,043.7	6,966.0	21.4	14.4	89.59	34.4	1,461.4	893.4	857.1	36.34	24.588	
7,054.9	7,015.6	7,093.3	7,015.6	21.4	14.4	89.59	34.4	1,461.3	893.3	856.9	36.40	24.543	
7,100.0	7,060.7	7,138.4	7,060.7	21.4	14.4	89.59	34.4	1,461.3	893.3	856.9	36.44	24.514	
7,200.0	7,160.7	7,238.4	7,160.7	21.4	14.5	89.59	34.4	1,461.3	893.3	856.8	36.54	24.447	
7,300.0	7,260.7	7,338.4	7,260.7	21.5	14.6	89.59	34.4	1,461.3	893.3	856.7	36.64	24.381	
7,400.0	7,360.7	7,438.4	7,360.7	21.5	14.6	89.59	34.4	1,461.3	893.3	856.6	36.74	24.316	
7,500.0	7,460.7	7,538.4	7,460.7	21.6	14.7	89.59	34.4	1,461.3	893.3	856.5	36.84	24.251	
7,600.0	7,560.7	7,638.4	7,560.7	21.6	14.7	89.59	34.4	1,461.3	893.3	856.4	36.93	24.186	
7,700.0	7,660.7	7,738.4	7,660.7	21.7	14.8	89.59	34.4	1,461.3	893.3	856.3	37.03	24.121	
7,800.0	7,760.7	7,838.4	7,760.7	21.7	14.9	89.59	34.4	1,461.3	893.3	856.2	37.13	24.056	
7,900.0	7,860.7	7,938.4	7,860.7	21.8	14.9	89.59	34.4	1,461.3	893.3	856.1	37.23	23.991	
8,000.0	7,960.7	8,038.4	7,960.7	21.8	15.0	89.59	34.4	1,461.3	893.3	856.0	37.34	23.926	
8,100.0	8,060.7	8,138.4	8,060.7	21.8	15.0	89.59	34.4	1,461.3	893.3	855.9	37.44	23.862	
8,200.0	8,160.7	8,238.4	8,160.7	21.9	15.1	89.59	34.4	1,461.3	893.3	855.8	37.54	23.797	
8,300.0	8,260.7	8,338.4	8,260.7	21.9	15.2	89.59	34.4	1,461.3	893.3	855.7	37.64	23.732	
8,400.0	8,360.7	8,438.4	8,360.7	22.0	15.2	89.59	34.4	1,461.3	893.3	855.5	37.74	23.668	
8,500.0	8,460.7	8,538.4	8,460.7	22.0	15.3	89.59	34.4	1,461.3	893.3	855.4	37.85	23.604	
8,600.0	8,560.7	8,638.4	8,560.7	22.1	15.4	89.59	34.4	1,461.3	893.3	855.3	37.95	23.539	
8,700.0	8,660.7	8,738.4	8,660.7	22.1	15.4	89.59	34.4	1,461.3	893.3	855.2	38.05	23.475	
8,800.0	8,760.7	8,838.4	8,760.7	22.2	15.5	89.59	34.4	1,461.3	893.3	855.1	38.16	23.411	
8,900.0	8,860.7	8,938.4	8,860.7	22.2	15.6	89.59	34.4	1,461.3	893.3	855.0	38.26	23.347	
9,000.0	8,960.7	9,038.4	8,960.7	22.3	15.6	89.59	34.4	1,461.3	893.3	854.9	38.37	23.283	
9,100.0	9,060.7	9,138.4	9,060.7	22.3	15.7	89.59	34.4	1,461.3	893.3	854.8	38.47	23.219	
9,200.0	9,160.7	9,238.4	9,160.7	22.4	15.7	89.59	34.4	1,461.3	893.3	854.7	38.58	23.156	
9,300.0	9,260.7	9,338.4	9,260.7	22.4	15.8	89.59	34.4	1,461.3	893.3	854.6	38.68	23.092	
9,400.0	9,360.7	9,438.4	9,360.7	22.4	15.9	89.59	34.4	1,461.3	893.3	854.5	38.79	23.029	
9,500.0	9,460.7	9,538.4	9,460.7	22.5	15.9	89.59	34.4	1,461.3	893.3	854.4	38.90	22.966	
9,600.0	9,560.7	9,638.4	9,560.7	22.5	16.0	89.59	34.4	1,461.3	893.3	854.3	39.00	22.902	
9,700.0	9,660.7	9,738.4	9,660.7	22.6	16.1	89.59	34.4	1,461.3	893.3	854.2	39.11	22.839	
9,800.0	9,760.7	9,838.4	9,760.7	22.6	16.1	89.59	34.4	1,461.3	893.3	854.1	39.22	22.777	
9,900.0	9,860.7	9,938.4	9,860.7	22.7	16.2	89.59	34.4	1,461.3	893.3	854.0	39.33	22.714	
10,000.0	9,960.7	10,038.4	9,960.7	22.7	16.3	89.59	34.4	1,461.3	893.3	853.9	39.44	22.651	
10,100.0	10,060.7	10,138.4	10,060.7	22.8	16.3	89.59	34.4	1,461.3	893.3	853.7	39.55	22.589	
10,200.0	10,160.7	10,238.4	10,160.7	22.8	16.4	89.59	34.4	1,461.3	893.3	853.6	39.66	22.526	
10,300.0	10,260.7	10,338.4	10,260.7	22.9	16.5	89.59	34.4	1,461.3	893.3	853.5	39.77	22.464	
10,400.0	10,360.7	10,438.4	10,360.7	22.9	16.5	89.59	34.4	1,461.3	893.3	853.4	39.88	22.402	
10,500.0	10,460.7	10,538.4	10,460.7	23.0	16.6	89.59	34.4	1,461.3	893.3	853.3	39.99	22.340	
10,600.0	10,560.7	10,638.4	10,560.7	23.0	16.7	89.59	34.4	1,461.3	893.3	853.2	40.10	22.278	
10,700.0	10,660.7	10,738.4	10,660.7	23.1	16.7	89.59	34.4	1,461.3	893.3	853.1	40.21	22.217	
10,800.0	10,760.7	10,838.4	10,760.7	23.1	16.8	89.59	34.4	1,461.3	893.3	853.0	40.32	22.155	

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 602H - Slot BOATER FED COM 602H
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 602H	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		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
10,900.0	10,860.7	10,938.4	10,860.7	23.2	16.9	89.59	34.4	1,461.3	893.3	852.9	40.43	22.094		
11,000.0	10,960.7	11,038.4	10,960.7	23.2	16.9	89.59	34.4	1,461.3	893.3	852.7	40.54	22.033		
11,100.0	11,060.7	11,138.4	11,060.7	23.3	17.0	89.59	34.4	1,461.3	893.3	852.6	40.66	21.972		
11,200.0	11,160.7	11,238.4	11,160.7	23.3	17.1	89.59	34.4	1,461.3	893.3	852.5	40.77	21.911		
11,300.0	11,260.7	11,338.4	11,260.7	23.4	17.1	89.59	34.4	1,461.3	893.3	852.4	40.88	21.851		
11,400.0	11,360.7	11,438.4	11,360.7	23.4	17.2	89.59	34.4	1,461.3	893.3	852.3	41.00	21.790		
11,500.0	11,460.7	11,538.4	11,460.7	23.5	17.3	89.59	34.4	1,461.3	893.3	852.2	41.11	21.730		
11,600.0	11,560.7	11,638.4	11,560.7	23.5	17.3	89.59	34.4	1,461.3	893.3	852.1	41.22	21.670		
11,700.0	11,660.7	11,738.4	11,660.7	23.6	17.4	89.59	34.4	1,461.3	893.3	852.0	41.34	21.610		
11,800.0	11,760.7	11,838.4	11,760.7	23.6	17.5	89.59	34.4	1,461.3	893.3	851.8	41.45	21.550		
11,900.0	11,860.7	11,938.4	11,860.7	23.7	17.5	89.59	34.4	1,461.3	893.3	851.7	41.57	21.490		
11,941.8	11,902.5	11,980.2	11,902.5	23.7	17.6	89.59	34.4	1,461.3	893.3	851.7	41.61	21.470		
11,950.0	11,910.7	11,988.4	11,910.7	23.7	17.6	-89.85	34.4	1,461.3	893.3	851.7	41.61	21.468		
11,975.0	11,935.7	12,013.4	11,935.7	23.7	17.6	-89.92	34.4	1,461.3	893.3	851.7	41.62	21.461		
11,989.0	11,949.6	12,027.4	11,949.6	23.7	17.6	-90.00	34.4	1,461.3	893.3	851.7	41.63	21.458 CC		
12,000.0	11,960.5	12,038.3	11,960.5	23.7	17.6	-90.08	34.4	1,461.3	893.3	851.7	41.63	21.456		
12,025.0	11,985.3	12,063.0	11,985.3	23.7	17.6	-90.31	34.4	1,461.3	893.3	851.7	41.64	21.451		
12,050.0	12,009.8	12,087.5	12,009.8	23.7	17.6	-90.62	34.4	1,461.3	893.3	851.7	41.65	21.448		
12,075.0	12,034.0	12,111.7	12,034.0	23.7	17.7	-90.99	34.4	1,461.3	893.4	851.8	41.66	21.448		
12,100.0	12,057.8	12,135.5	12,057.8	23.7	17.7	-91.43	34.4	1,461.3	893.6	851.9	41.66	21.450		
12,125.0	12,081.2	12,158.9	12,081.2	23.7	17.7	-91.93	34.4	1,461.3	893.9	852.2	41.66	21.458		
12,150.0	12,104.2	12,181.9	12,104.2	23.7	17.7	-92.46	34.4	1,461.3	894.3	852.6	41.65	21.471		
12,175.0	12,126.5	12,204.2	12,126.5	23.6	17.7	-93.03	34.4	1,461.3	894.9	853.2	41.64	21.492		
12,200.0	12,148.3	12,226.0	12,148.3	23.6	17.7	-93.61	34.4	1,461.3	895.7	854.1	41.62	21.521		
12,225.0	12,169.4	12,247.1	12,169.4	23.6	17.8	-94.21	34.4	1,461.3	896.8	855.2	41.59	21.560		
12,250.0	12,189.7	12,267.4	12,189.7	23.6	17.8	-94.79	34.4	1,461.3	898.2	856.6	41.56	21.611		
12,275.0	12,209.3	12,287.0	12,209.3	23.6	17.8	-95.36	34.4	1,461.3	899.9	858.4	41.52	21.675		
12,300.0	12,228.0	12,305.7	12,228.0	23.6	17.8	-95.88	34.4	1,461.3	902.1	860.6	41.47	21.754		
12,325.0	12,245.9	12,323.6	12,245.9	23.6	17.8	-96.36	34.4	1,461.3	904.7	863.3	41.40	21.850		
12,350.0	12,262.8	12,340.5	12,262.8	23.7	17.8	-96.78	34.4	1,461.3	907.8	866.5	41.33	21.963		
12,375.0	12,278.7	12,360.1	12,282.4	23.7	17.8	-97.30	34.3	1,461.3	911.4	870.2	41.24	22.101		
12,400.0	12,293.5	12,386.5	12,308.7	23.7	17.8	-98.10	33.0	1,461.3	915.5	874.4	41.12	22.265		
12,425.0	12,307.3	12,414.9	12,337.0	23.7	17.8	-98.94	30.0	1,461.3	919.9	878.9	40.99	22.444		
12,450.0	12,320.0	12,445.9	12,367.5	23.7	17.8	-99.85	24.8	1,461.4	924.6	883.8	40.86	22.632		
12,475.0	12,331.6	12,480.1	12,400.8	23.7	17.8	-100.84	16.8	1,461.4	929.7	889.0	40.74	22.821		
12,500.0	12,342.0	12,518.3	12,437.1	23.7	17.8	-101.94	5.1	1,461.6	935.0	894.3	40.65	23.003		
12,525.0	12,351.1	12,561.6	12,477.0	23.7	17.7	-103.18	-11.7	1,461.7	940.4	899.8	40.60	23.162		
12,550.0	12,359.1	12,611.4	12,520.8	23.8	17.7	-104.59	-35.3	1,462.0	945.9	905.3	40.63	23.280		
12,575.0	12,365.7	12,669.4	12,568.5	23.8	17.7	-106.16	-68.4	1,462.3	951.3	910.5	40.77	23.331		
12,600.0	12,371.2	12,737.7	12,618.8	23.8	17.7	-107.87	-114.4	1,462.7	956.3	915.3	41.07	23.288		
12,625.0	12,375.3	12,818.0	12,669.0	23.8	17.7	-109.61	-177.0	1,463.3	960.8	919.2	41.53	23.136		
12,650.0	12,378.1	12,893.2	12,705.7	23.9	17.8	-110.83	-242.5	1,464.0	964.2	922.2	41.99	22.965		
12,675.0	12,379.7	13,015.5	12,742.5	23.9	18.0	-112.22	-358.9	1,465.1	966.4	923.6	42.76	22.599		
12,691.8	12,380.0	13,089.6	12,749.8	23.9	18.1	-112.49	-432.4	1,465.8	966.9	923.8	43.11	22.427		
12,700.0	12,380.0	13,106.0	12,750.0	23.9	18.1	-112.50	-448.9	1,466.0	966.9	923.8	43.16	22.401		
12,800.0	12,380.0	13,206.0	12,750.0	24.1	18.4	-112.50	-548.9	1,467.0	966.9	923.6	43.35	22.305		
12,900.0	12,380.0	13,306.0	12,750.0	24.3	18.7	-112.50	-648.9	1,468.0	966.9	923.3	43.60	22.175		
13,000.0	12,380.0	13,406.0	12,750.0	24.6	19.0	-112.50	-748.9	1,468.9	966.9	923.0	43.93	22.012		
13,100.0	12,380.0	13,506.0	12,750.0	24.9	19.3	-112.50	-848.9	1,469.9	966.9	922.6	44.32	21.820		
13,200.0	12,380.0	13,606.0	12,750.0	25.2	19.7	-112.50	-948.9	1,470.9	966.9	922.2	44.77	21.599		

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 602H - Slot BOATER FED COM 602H
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 602H	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		Offset Wellbore Centre		Distance		No-Go		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor		
13,300.0	12,380.0	13,706.0	12,750.0	25.5	20.1	-112.50	-1,048.9	1,471.9	967.0	921.7	45.28	21.353		
13,400.0	12,380.0	13,806.0	12,750.0	25.9	20.5	-112.50	-1,148.8	1,472.9	967.0	921.1	45.86	21.085		
13,500.0	12,380.0	13,906.0	12,750.0	26.3	20.9	-112.50	-1,248.8	1,473.8	967.0	920.5	46.49	20.798		
13,600.0	12,380.0	14,006.0	12,750.0	26.8	21.4	-112.50	-1,348.8	1,474.8	967.0	919.8	47.18	20.494		
13,700.0	12,380.0	14,106.0	12,750.0	27.3	21.9	-112.50	-1,448.8	1,475.8	967.0	919.1	47.92	20.177		
13,800.0	12,380.0	14,206.0	12,750.0	27.8	22.4	-112.50	-1,548.8	1,476.8	967.0	918.3	48.72	19.849		
13,900.0	12,380.0	14,306.0	12,750.0	28.3	22.9	-112.50	-1,648.8	1,477.8	967.0	917.4	49.56	19.512		
14,000.0	12,380.0	14,406.0	12,750.0	28.8	23.4	-112.50	-1,748.8	1,478.7	967.0	916.6	50.45	19.168		
14,100.0	12,380.0	14,506.0	12,750.0	29.4	24.0	-112.50	-1,848.8	1,479.7	967.0	915.6	51.38	18.821		
14,200.0	12,380.0	14,606.0	12,750.0	30.0	24.6	-112.50	-1,948.8	1,480.7	967.0	914.7	52.35	18.472		
14,300.0	12,380.0	14,706.0	12,750.0	30.6	25.1	-112.50	-2,048.8	1,481.7	967.0	913.7	53.36	18.122		
14,400.0	12,380.0	14,806.0	12,750.0	31.2	25.7	-112.50	-2,148.8	1,482.7	967.0	912.6	54.41	17.773		
14,500.0	12,380.0	14,906.0	12,750.0	31.9	26.4	-112.50	-2,248.8	1,483.6	967.0	911.5	55.49	17.427		
14,600.0	12,380.0	15,006.0	12,750.0	32.5	27.0	-112.50	-2,348.8	1,484.6	967.0	910.4	56.61	17.083		
14,700.0	12,380.0	15,106.0	12,750.0	33.2	27.6	-112.50	-2,448.8	1,485.6	967.0	909.3	57.75	16.745		
14,800.0	12,380.0	15,206.0	12,750.0	33.9	28.3	-112.50	-2,548.8	1,486.6	967.0	908.1	58.93	16.411		
14,900.0	12,380.0	15,306.0	12,750.0	34.6	28.9	-112.49	-2,648.8	1,487.6	967.1	906.9	60.13	16.083		
15,000.0	12,380.0	15,406.0	12,750.0	35.3	29.6	-112.49	-2,748.8	1,488.5	967.1	905.7	61.36	15.762		
15,100.0	12,380.0	15,506.0	12,750.0	36.0	30.3	-112.49	-2,848.8	1,489.5	967.1	904.5	62.61	15.447		
15,200.0	12,380.0	15,606.0	12,750.0	36.8	31.0	-112.49	-2,948.8	1,490.5	967.1	903.2	63.88	15.139		
15,300.0	12,380.0	15,706.0	12,750.0	37.5	31.7	-112.49	-3,048.8	1,491.5	967.1	901.9	65.18	14.838		
15,400.0	12,380.0	15,806.0	12,750.0	38.3	32.4	-112.49	-3,148.8	1,492.4	967.1	900.6	66.49	14.545		
15,500.0	12,380.0	15,906.0	12,750.0	39.0	33.1	-112.49	-3,248.7	1,493.4	967.1	899.3	67.83	14.259		
15,600.0	12,380.0	16,006.0	12,750.0	39.8	33.8	-112.49	-3,348.7	1,494.4	967.1	897.9	69.18	13.980		
15,700.0	12,380.0	16,106.0	12,750.0	40.6	34.6	-112.49	-3,448.7	1,495.4	967.1	896.6	70.55	13.709		
15,800.0	12,380.0	16,206.0	12,750.0	41.4	35.3	-112.49	-3,548.7	1,496.4	967.1	895.2	71.93	13.445		
15,900.0	12,380.0	16,306.0	12,750.0	42.2	36.0	-112.49	-3,648.7	1,497.3	967.1	893.8	73.33	13.189		
16,000.0	12,380.0	16,406.0	12,750.0	43.0	36.8	-112.49	-3,748.7	1,498.3	967.1	892.4	74.74	12.939		
16,100.0	12,380.0	16,506.0	12,750.0	43.8	37.5	-112.49	-3,848.7	1,499.3	967.1	891.0	76.17	12.697		
16,200.0	12,380.0	16,606.0	12,750.0	44.6	38.3	-112.49	-3,948.7	1,500.3	967.1	889.5	77.61	12.462		
16,300.0	12,380.0	16,706.0	12,750.0	45.4	39.0	-112.49	-4,048.7	1,501.3	967.1	888.1	79.06	12.233		
16,400.0	12,380.0	16,806.0	12,750.0	46.2	39.8	-112.49	-4,148.7	1,502.2	967.2	886.6	80.52	12.011		
16,500.0	12,380.0	16,906.0	12,750.0	47.1	40.5	-112.49	-4,248.7	1,503.2	967.2	885.2	81.99	11.796		
16,600.0	12,380.0	17,006.0	12,750.0	47.9	41.3	-112.49	-4,348.7	1,504.2	967.2	883.7	83.48	11.586		
16,700.0	12,380.0	17,106.0	12,750.0	48.8	42.1	-112.49	-4,448.7	1,505.2	967.2	882.2	84.97	11.383		
16,800.0	12,380.0	17,206.0	12,750.0	49.6	42.9	-112.49	-4,548.7	1,506.2	967.2	880.7	86.47	11.185		
16,900.0	12,380.0	17,306.0	12,750.0	50.5	43.6	-112.49	-4,648.7	1,507.1	967.2	879.2	87.98	10.993		
17,000.0	12,380.0	17,406.0	12,750.0	51.3	44.4	-112.49	-4,748.7	1,508.1	967.2	877.7	89.50	10.807		
17,100.0	12,380.0	17,506.0	12,750.0	52.2	45.2	-112.49	-4,848.7	1,509.1	967.2	876.2	91.02	10.626		
17,200.0	12,380.0	17,606.0	12,750.0	53.0	46.0	-112.49	-4,948.7	1,510.1	967.2	874.6	92.56	10.450		
17,300.0	12,380.0	17,706.0	12,750.0	53.9	46.8	-112.49	-5,048.7	1,511.1	967.2	873.1	94.10	10.279		
17,400.0	12,380.0	17,806.0	12,750.0	54.8	47.6	-112.49	-5,148.7	1,512.0	967.2	871.6	95.64	10.113		
17,500.0	12,380.0	17,906.0	12,750.0	55.6	48.4	-112.49	-5,248.6	1,513.0	967.2	870.0	97.19	9.951		
17,600.0	12,380.0	18,006.0	12,750.0	56.5	49.2	-112.49	-5,348.6	1,514.0	967.2	868.5	98.75	9.794		
17,700.0	12,380.0	18,106.0	12,750.0	57.4	50.0	-112.49	-5,448.6	1,515.0	967.2	866.9	100.32	9.642		
17,800.0	12,380.0	18,206.0	12,750.0	58.3	50.8	-112.49	-5,548.6	1,516.0	967.2	865.4	101.89	9.493		
17,900.0	12,380.0	18,306.0	12,750.0	59.1	51.6	-112.49	-5,648.6	1,516.9	967.2	863.8	103.46	9.349		
18,000.0	12,380.0	18,406.0	12,750.0	60.0	52.4	-112.49	-5,748.6	1,517.9	967.3	862.2	105.04	9.208		
18,100.0	12,380.0	18,506.0	12,750.0	60.9	53.2	-112.49	-5,848.6	1,518.9	967.3	860.6	106.63	9.071		
18,200.0	12,380.0	18,606.0	12,750.0	61.8	54.0	-112.49	-5,948.6	1,519.9	967.3	859.0	108.22	8.938		
18,300.0	12,380.0	18,706.0	12,750.0	62.7	54.8	-112.49	-6,048.6	1,520.9	967.3	857.5	109.81	8.809		

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 804H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)		
18,400.0	12,380.0	18,806.0	12,750.0	63.6	55.6	-112.49	-6,148.6	1,521.8	967.3	855.9	111.41	8.682	
18,500.0	12,380.0	18,906.0	12,750.0	64.5	56.4	-112.49	-6,248.6	1,522.8	967.3	854.3	113.01	8.559	
18,600.0	12,380.0	19,006.0	12,750.0	65.4	57.2	-112.49	-6,348.6	1,523.8	967.3	852.7	114.61	8.440	
18,700.0	12,380.0	19,106.0	12,750.0	66.3	58.0	-112.49	-6,448.6	1,524.8	967.3	851.1	116.22	8.323	
18,800.0	12,380.0	19,206.0	12,750.0	67.2	58.8	-112.49	-6,548.6	1,525.7	967.3	849.5	117.84	8.209	
18,900.0	12,380.0	19,306.0	12,750.0	68.1	59.7	-112.49	-6,648.6	1,526.7	967.3	847.9	119.45	8.098	
19,000.0	12,380.0	19,406.0	12,750.0	69.0	60.5	-112.49	-6,748.6	1,527.7	967.3	846.2	121.07	7.990	
19,100.0	12,380.0	19,506.0	12,750.0	69.9	61.3	-112.49	-6,848.6	1,528.7	967.3	844.6	122.69	7.884	
19,200.0	12,380.0	19,606.0	12,750.0	70.8	62.1	-112.49	-6,948.6	1,529.7	967.3	843.0	124.32	7.781	
19,300.0	12,380.0	19,706.0	12,750.0	71.7	62.9	-112.49	-7,048.6	1,530.6	967.3	841.4	125.95	7.680	
19,400.0	12,380.0	19,806.0	12,750.0	72.6	63.8	-112.49	-7,148.6	1,531.6	967.3	839.8	127.58	7.582	
19,500.0	12,380.0	19,906.0	12,750.0	73.5	64.6	-112.49	-7,248.6	1,532.6	967.3	838.1	129.21	7.486	
19,600.0	12,380.0	20,006.0	12,750.0	74.5	65.4	-112.49	-7,348.5	1,533.6	967.4	836.5	130.85	7.393	
19,700.0	12,380.0	20,106.0	12,750.0	75.4	66.2	-112.49	-7,448.5	1,534.6	967.4	834.9	132.49	7.302	
19,800.0	12,380.0	20,206.0	12,750.0	76.3	67.1	-112.49	-7,548.5	1,535.5	967.4	833.2	134.13	7.212	
19,900.0	12,380.0	20,306.0	12,750.0	77.2	67.9	-112.49	-7,648.5	1,536.5	967.4	831.6	135.77	7.125	
20,000.0	12,380.0	20,406.0	12,750.0	78.1	68.7	-112.49	-7,748.5	1,537.5	967.4	830.0	137.42	7.040	
20,100.0	12,380.0	20,506.0	12,750.0	79.0	69.5	-112.49	-7,848.5	1,538.5	967.4	828.3	139.06	6.956	
20,200.0	12,380.0	20,606.0	12,750.0	80.0	70.4	-112.49	-7,948.5	1,539.5	967.4	826.7	140.71	6.875	
20,300.0	12,380.0	20,706.0	12,750.0	80.9	71.2	-112.49	-8,048.5	1,540.4	967.4	825.0	142.37	6.795	
20,378.3	12,380.0	20,784.3	12,750.0	81.6	71.8	-112.49	-8,126.9	1,541.2	967.4	823.7	143.66	6.734	
20,378.9	12,380.0	20,784.9	12,750.0	81.6	71.8	-112.49	-8,127.4	1,541.2	967.4	823.7	143.67	6.734 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 TB FEDERAL 008H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+HFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)			
19,800.0	12,380.0	17,261.0	12,480.3	76.3	68.6	102.59	-8,362.0	200.6	923.2	838.1	85.10	10.849	
19,900.0	12,380.0	17,261.0	12,480.3	77.2	68.6	102.59	-8,362.0	200.6	838.0	746.4	91.60	9.148	
20,000.0	12,380.0	17,261.0	12,480.3	78.1	68.6	102.59	-8,362.0	200.6	756.4	657.0	99.34	7.614	
20,100.0	12,380.0	17,261.0	12,480.3	79.0	68.6	102.59	-8,362.0	200.6	679.7	571.3	108.47	6.266	
20,200.0	12,380.0	17,261.0	12,480.3	80.0	68.6	102.59	-8,362.0	200.6	609.9	490.9	118.95	5.127	
20,300.0	12,380.0	17,261.0	12,480.3	80.9	68.6	102.59	-8,362.0	200.6	549.4	419.1	130.33	4.216	
20,378.3	12,380.0	17,261.0	12,480.3	81.6	68.6	102.59	-8,362.0	200.6	510.8	371.7	139.09	3.673	
20,378.9	12,380.0	17,261.0	12,480.3	81.6	68.6	102.59	-8,362.0	200.6	510.6	370.9	139.67	3.656 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WA FEDERAL 009H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)			
19,600.0	12,380.0	17,619.0	12,619.5	74.5	52.4	-138.43	-8,285.3	861.3	983.7	929.0	54.64	18.003	
19,700.0	12,380.0	17,619.0	12,619.5	75.4	52.4	-138.43	-8,285.3	861.3	889.7	832.7	57.03	15.601	
19,800.0	12,380.0	17,619.0	12,619.5	76.3	52.4	-138.43	-8,285.3	861.3	797.2	737.1	60.11	13.263	
19,900.0	12,380.0	17,619.0	12,619.5	77.2	52.4	-138.43	-8,285.3	861.3	706.8	642.6	64.15	11.017	
20,000.0	12,380.0	17,619.0	12,619.5	78.1	52.4	-138.43	-8,285.3	861.3	619.3	549.8	69.51	8.909	
20,100.0	12,380.0	17,619.0	12,619.5	79.0	52.4	-138.43	-8,285.3	861.3	536.2	459.5	76.66	6.994	
20,200.0	12,380.0	17,619.0	12,619.5	80.0	52.4	-138.43	-8,285.3	861.3	459.8	373.8	86.04	5.345	
20,300.0	12,380.0	17,619.0	12,619.5	80.9	52.4	-138.43	-8,285.3	861.3	394.2	296.6	97.64	4.038	
20,378.3	12,380.0	17,619.0	12,619.5	81.6	52.4	-138.43	-8,285.3	861.3	354.3	247.0	107.31	3.301 ES, SF	
20,378.9	12,380.0	17,619.0	12,619.5	81.6	52.4	-138.43	-8,285.3	861.3	354.1	247.4	106.68	3.319 CC	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #603H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11546-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,400.0	11,360.7	19,706.9	12,294.7	23.4	59.6	-92.47	21.0	406.7	947.9	850.3	97.61	9.711	
11,500.0	11,460.7	19,707.3	12,294.7	23.5	59.6	-92.59	20.7	406.7	849.5	751.8	97.74	8.692	
11,600.0	11,560.7	19,707.6	12,294.7	23.5	59.6	-92.71	20.4	406.8	751.6	653.7	97.85	7.681	
11,700.0	11,660.7	19,707.9	12,294.7	23.6	59.6	-92.82	20.0	406.8	654.2	556.3	97.93	6.681	
11,800.0	11,760.7	19,708.2	12,294.7	23.6	59.6	-92.94	19.7	406.8	557.9	459.9	97.96	5.695	
11,900.0	11,860.7	19,708.5	12,294.7	23.7	59.6	-93.05	19.4	406.8	463.1	365.2	97.86	4.732	
11,941.8	11,902.5	19,708.7	12,294.7	23.7	59.6	-93.09	19.3	406.8	424.1	326.4	97.76	4.338	
11,950.0	11,910.7	19,708.8	12,294.7	23.7	59.6	89.79	19.2	406.8	416.6	318.8	97.74	4.262	
11,975.0	11,935.7	19,710.0	12,294.7	23.7	59.6	96.25	18.0	406.9	393.6	296.0	97.66	4.031	
12,000.0	11,960.5	19,712.6	12,294.7	23.7	59.6	101.64	15.4	407.1	371.0	273.5	97.56	3.803	
12,025.0	11,985.3	19,716.5	12,294.7	23.7	59.7	105.97	11.5	407.3	348.9	251.4	97.45	3.580	
12,050.0	12,009.8	19,721.8	12,294.7	23.7	59.7	109.29	6.2	407.6	327.2	229.9	97.31	3.362	
12,075.0	12,034.0	19,728.3	12,294.7	23.7	59.8	111.71	-0.3	408.0	306.2	209.0	97.15	3.152	
12,100.0	12,057.8	19,736.2	12,294.8	23.7	59.8	113.32	-8.2	408.5	285.9	189.0	96.94	2.950 Normal Operations	
12,125.0	12,081.2	19,745.2	12,294.8	23.7	59.9	114.23	-17.1	409.1	266.6	169.9	96.68	2.757 Normal Operations	
12,150.0	12,104.2	19,755.2	12,294.8	23.7	60.0	114.51	-27.2	409.8	248.2	151.9	96.36	2.576 Normal Operations	
12,175.0	12,126.5	19,766.5	12,294.8	23.6	60.0	114.16	-38.4	410.5	231.0	135.1	95.97	2.407 Caution - Monitor Closely	
12,200.0	12,148.3	19,778.9	12,294.8	23.6	60.1	113.22	-50.8	411.4	215.2	119.7	95.51	2.253 Caution - Monitor Closely	
12,225.0	12,169.4	19,792.5	12,294.8	23.6	60.2	111.72	-64.4	412.3	200.8	105.8	94.98	2.114 Caution - Monitor Closely	
12,250.0	12,189.7	19,807.2	12,294.8	23.6	60.4	109.66	-79.1	413.4	188.1	93.7	94.39	1.992 Caution - Monitor Closely	
12,275.0	12,209.3	19,823.0	12,294.8	23.6	60.5	107.08	-94.8	414.5	177.0	83.2	93.77	1.888 Caution - Monitor Closely	
12,300.0	12,228.0	19,839.7	12,294.9	23.6	60.6	104.03	-111.5	415.7	167.8	74.6	93.16	1.801 Caution - Monitor Closely	
12,325.0	12,245.9	19,857.2	12,295.0	23.6	60.7	100.61	-128.9	417.1	160.5	67.9	92.61	1.733 Caution - Monitor Closely	
12,350.0	12,262.8	19,875.7	12,295.1	23.7	60.9	96.80	-147.3	418.5	155.0	62.8	92.18	1.681 Caution - Monitor Closely	
12,375.0	12,278.7	19,895.1	12,295.3	23.7	61.0	92.71	-166.6	419.9	151.2	59.3	91.92	1.645 Caution - Monitor Closely	
12,400.0	12,293.5	19,915.3	12,295.5	23.7	61.2	88.45	-186.8	421.5	149.0	57.1	91.85	1.622 Caution - Monitor Closely	
12,425.0	12,307.3	19,936.2	12,295.8	23.7	61.3	84.16	-207.7	423.1	148.0	56.1	91.95	1.610 Caution - Monitor Closely	
12,435.0	12,312.6	19,944.8	12,295.9	23.7	61.4	82.46	-216.2	423.7	147.9	55.9	92.04	1.607 Caution - Monitor Closely, CC	
12,450.0	12,320.0	19,953.0	12,296.0	23.7	61.5	80.86	-224.4	424.3	148.2	55.9	92.31	1.605 Caution - Monitor Closely, ES, SF	
12,475.0	12,331.6	19,953.0	12,296.0	23.7	61.5	80.48	-224.4	424.3	151.4	59.2	92.18	1.642 Caution - Monitor Closely	
12,500.0	12,342.0	19,953.0	12,296.0	23.7	61.5	79.62	-224.4	424.3	158.3	67.6	90.69	1.745 Caution - Monitor Closely	
12,525.0	12,351.1	19,953.0	12,296.0	23.7	61.5	78.31	-224.4	424.3	168.4	80.3	88.15	1.911 Caution - Monitor Closely	
12,550.0	12,359.1	19,953.0	12,296.0	23.8	61.5	76.56	-224.4	424.3	181.3	96.3	84.95	2.134 Caution - Monitor Closely	
12,575.0	12,365.7	19,953.0	12,296.0	23.8	61.5	74.38	-224.4	424.3	196.2	114.8	81.46	2.409 Caution - Monitor Closely	
12,600.0	12,371.2	19,953.0	12,296.0	23.8	61.5	71.83	-224.4	424.3	212.8	134.9	77.92	2.731 Normal Operations	
12,625.0	12,375.3	19,953.0	12,296.0	23.8	61.5	68.95	-224.4	424.3	230.7	156.2	74.48	3.097	
12,650.0	12,378.1	19,953.0	12,296.0	23.9	61.5	65.80	-224.4	424.3	249.4	178.3	71.19	3.504	
12,675.0	12,379.7	19,953.0	12,296.0	23.9	61.5	62.44	-224.4	424.3	268.9	200.8	68.10	3.949	
12,691.8	12,380.0	19,953.0	12,296.0	23.9	61.5	60.11	-224.4	424.3	282.3	216.2	66.14	4.268	
12,700.0	12,380.0	19,953.0	12,296.0	23.9	61.5	60.11	-224.4	424.3	288.9	223.7	65.22	4.430	
12,800.0	12,380.0	19,953.0	12,296.0	24.1	61.5	60.11	-224.4	424.3	374.7	318.0	56.69	6.610	
12,900.0	12,380.0	19,953.0	12,296.0	24.3	61.5	60.11	-224.4	424.3	466.2	414.6	51.59	9.036	
13,000.0	12,380.0	19,953.0	12,296.0	24.6	61.5	60.11	-224.4	424.3	560.6	512.2	48.43	11.575	
13,100.0	12,380.0	19,953.0	12,296.0	24.9	61.5	60.11	-224.4	424.3	656.7	610.3	46.38	14.160	
13,200.0	12,380.0	19,953.0	12,296.0	25.2	61.5	60.11	-224.4	424.3	753.8	708.8	44.98	16.758	
13,300.0	12,380.0	19,953.0	12,296.0	25.5	61.5	60.11	-224.4	424.3	851.5	807.5	43.99	19.356	
13,400.0	12,380.0	19,953.0	12,296.0	25.9	61.5	60.11	-224.4	424.3	949.7	906.5	43.28	21.946	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:		GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #702H - OWB - AWP										Offset Site Error:		3.0 usft	
Survey Program:		99-Standard Keeper 104, 1233-r.5 MWD+IFR1+MS										Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:		Distance		Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	No-Go	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Distance	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)				
12,150.0	12,104.2	20,181.4	12,731.0	23.7	59.9	-111.85	37.7	1,334.1	991.1	889.0	102.10	9.707			
12,175.0	12,126.5	20,192.5	12,731.5	23.6	60.0	-113.00	26.6	1,334.5	977.6	875.7	101.94	9.590			
12,200.0	12,148.3	20,204.7	12,732.1	23.6	60.1	-113.97	14.5	1,334.9	964.9	863.1	101.78	9.480			
12,225.0	12,169.4	20,217.9	12,732.8	23.6	60.2	-114.78	1.2	1,335.4	952.9	851.3	101.62	9.377			
12,250.0	12,189.7	20,232.3	12,733.5	23.6	60.3	-115.44	-13.1	1,335.9	941.8	840.3	101.47	9.281			
12,275.0	12,209.3	20,249.8	12,734.5	23.6	60.4	-115.87	-30.6	1,336.4	931.4	830.0	101.40	9.185			
12,300.0	12,228.0	20,268.3	12,735.4	23.6	60.6	-116.19	-49.0	1,337.0	921.7	820.4	101.34	9.096			
12,325.0	12,245.9	20,287.6	12,736.4	23.6	60.7	-116.41	-68.4	1,337.7	912.8	811.6	101.28	9.013			
12,350.0	12,262.8	20,307.8	12,737.3	23.7	60.8	-116.55	-88.5	1,338.4	904.7	803.5	101.23	8.937			
12,375.0	12,278.7	20,329.1	12,738.3	23.7	61.0	-116.61	-109.7	1,339.1	897.3	796.1	101.21	8.866			
12,400.0	12,293.5	20,352.9	12,739.2	23.7	61.2	-116.55	-133.5	1,339.9	890.6	789.3	101.26	8.795			
12,425.0	12,307.3	20,377.4	12,740.1	23.7	61.3	-116.44	-158.0	1,340.6	884.5	783.2	101.32	8.730			
12,450.0	12,320.0	20,399.3	12,740.8	23.7	61.5	-116.39	-179.9	1,341.3	879.1	777.8	101.30	8.679			
12,475.0	12,331.6	20,421.8	12,741.6	23.7	61.6	-116.31	-202.4	1,342.0	874.4	773.1	101.30	8.632			
12,500.0	12,342.0	20,435.0	12,742.0	23.7	61.7	-116.43	-215.5	1,342.4	870.4	769.4	101.00	8.618 SF			
12,525.0	12,351.1	20,435.0	12,742.0	23.7	61.7	-116.73	-215.5	1,342.4	867.6	767.4	100.24	8.656			
12,550.0	12,359.1	20,435.0	12,742.0	23.8	61.7	-116.89	-215.5	1,342.4	866.1	766.7	99.43	8.711 ES			
12,566.0	12,363.5	20,435.0	12,742.0	23.8	61.7	-116.92	-215.5	1,342.4	865.9	767.0	98.89	8.756 CC			
12,575.0	12,365.7	20,435.0	12,742.0	23.8	61.7	-116.91	-215.5	1,342.4	866.0	767.4	98.57	8.785			
12,600.0	12,371.2	20,435.0	12,742.0	23.8	61.7	-116.79	-215.5	1,342.4	867.1	769.4	97.68	8.877			
12,625.0	12,375.3	20,435.0	12,742.0	23.8	61.7	-116.53	-215.5	1,342.4	869.5	772.8	96.75	8.987			
12,650.0	12,378.1	20,435.0	12,742.0	23.9	61.7	-116.12	-215.5	1,342.4	873.2	777.4	95.78	9.117			
12,675.0	12,379.7	20,435.0	12,742.0	23.9	61.7	-115.58	-215.5	1,342.4	878.2	783.4	94.80	9.264			
12,691.8	12,380.0	20,435.0	12,742.0	23.9	61.7	-115.12	-215.5	1,342.4	882.3	788.1	94.12	9.373			
12,700.0	12,380.0	20,435.0	12,742.0	23.9	61.7	-115.12	-215.5	1,342.4	884.4	790.6	93.79	9.429			
12,800.0	12,380.0	20,435.0	12,742.0	24.1	61.7	-115.12	-215.5	1,342.4	916.0	826.5	89.46	10.240			
12,900.0	12,380.0	20,435.0	12,742.0	24.3	61.7	-115.12	-215.5	1,342.4	957.1	872.3	84.82	11.283			

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #703H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	100-Standard Keeper 104, 12076-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:								Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Factor
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Distance		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
11,700.0	11,660.7	19,886.0	12,559.2	23.6	59.6	89.14	31.6	810.5	930.7	833.1	97.61	9.535	
11,800.0	11,760.7	19,886.9	12,559.2	23.6	59.6	89.33	30.8	810.5	834.6	736.9	97.63	8.548	
11,900.0	11,860.7	19,887.3	12,559.2	23.7	59.6	89.44	30.4	810.5	739.4	641.9	97.58	7.578	
11,941.8	11,902.5	19,887.5	12,559.2	23.7	59.6	89.47	30.2	810.5	700.1	602.5	97.53	7.178	
11,950.0	11,910.7	19,887.7	12,559.2	23.7	59.6	-92.57	30.0	810.5	692.4	594.9	97.52	7.100	
11,975.0	11,935.7	19,890.4	12,559.2	23.7	59.6	-99.69	27.3	810.5	669.1	571.5	97.52	6.861	
12,000.0	11,960.5	19,896.0	12,559.2	23.7	59.7	-105.59	21.7	810.5	645.9	548.4	97.55	6.622	
12,025.0	11,985.3	19,904.1	12,559.2	23.7	59.7	-110.39	13.6	810.5	623.0	525.4	97.59	6.384	
12,050.0	12,009.8	19,914.3	12,559.0	23.7	59.8	-114.23	3.4	810.5	600.4	502.8	97.65	6.149	
12,075.0	12,034.0	19,926.4	12,558.7	23.7	59.9	-117.26	-8.7	810.4	578.2	480.5	97.71	5.918	
12,100.0	12,057.8	19,940.1	12,558.2	23.7	60.0	-119.63	-22.4	810.2	556.3	458.6	97.76	5.691	
12,125.0	12,081.2	19,955.3	12,557.5	23.7	60.1	-121.46	-37.5	809.8	534.9	437.1	97.80	5.469	
12,150.0	12,104.2	19,955.6	12,557.6	23.7	60.1	-125.21	-37.9	809.9	514.2	416.5	97.65	5.265	
12,175.0	12,126.5	19,964.8	12,557.3	23.6	60.2	-127.22	-47.1	809.7	494.0	396.5	97.58	5.063	
12,200.0	12,148.3	19,975.2	12,557.0	23.6	60.3	-128.80	-57.5	809.5	474.7	377.2	97.50	4.868	
12,225.0	12,169.4	19,986.8	12,556.6	23.6	60.4	-130.00	-69.0	809.3	456.1	358.7	97.42	4.682	
12,250.0	12,189.7	19,999.5	12,556.3	23.6	60.4	-130.88	-81.7	809.0	438.4	341.1	97.33	4.504	
12,275.0	12,209.3	20,013.3	12,556.0	23.6	60.5	-131.49	-95.5	808.7	421.6	324.4	97.23	4.336	
12,300.0	12,228.0	20,028.1	12,555.7	23.6	60.7	-131.86	-110.4	808.4	405.8	308.7	97.13	4.178	
12,325.0	12,245.9	20,035.0	12,555.6	23.6	60.7	-132.83	-117.2	808.3	391.2	294.3	96.84	4.039	
12,350.0	12,262.8	20,053.1	12,555.5	23.7	60.8	-132.68	-135.3	808.1	377.6	280.9	96.75	3.903	
12,375.0	12,278.7	20,065.8	12,555.7	23.7	60.9	-132.89	-148.0	808.1	365.5	269.0	96.50	3.787	
12,400.0	12,293.5	20,080.0	12,556.1	23.7	61.0	-132.88	-162.2	808.2	354.8	258.6	96.25	3.686	
12,425.0	12,307.3	20,101.3	12,556.9	23.7	61.2	-132.32	-183.5	808.6	345.4	249.2	96.20	3.590	
12,450.0	12,320.0	20,123.3	12,557.7	23.7	61.3	-131.71	-205.5	808.9	336.9	240.8	96.16	3.504	
12,475.0	12,331.6	20,139.0	12,558.3	23.7	61.5	-131.47	-221.2	809.1	329.6	233.7	95.89	3.437	
12,500.0	12,342.0	20,139.0	12,558.3	23.7	61.5	-131.94	-221.2	809.1	324.5	229.7	94.81	3.423 SF	
12,525.0	12,351.1	20,139.0	12,558.3	23.7	61.5	-132.15	-221.2	809.1	322.2	228.9	93.30	3.453 ES	
12,533.2	12,353.9	20,139.0	12,558.3	23.8	61.5	-132.16	-221.2	809.1	322.0	229.3	92.70	3.474 CC	
12,550.0	12,359.1	20,139.0	12,558.3	23.8	61.5	-132.10	-221.2	809.1	322.7	231.3	91.37	3.531	
12,575.0	12,365.7	20,139.0	12,558.3	23.8	61.5	-131.81	-221.2	809.1	325.9	236.8	89.08	3.659	
12,600.0	12,371.2	20,139.0	12,558.3	23.8	61.5	-131.26	-221.2	809.1	331.9	245.4	86.51	3.836	
12,625.0	12,375.3	20,139.0	12,558.3	23.8	61.5	-130.43	-221.2	809.1	340.4	256.6	83.78	4.063	
12,650.0	12,378.1	20,139.0	12,558.3	23.9	61.5	-129.32	-221.2	809.1	351.2	270.2	80.98	4.337	
12,675.0	12,379.7	20,139.0	12,558.3	23.9	61.5	-127.90	-221.2	809.1	364.2	286.0	78.22	4.656	
12,691.8	12,380.0	20,139.0	12,558.3	23.9	61.5	-126.76	-221.2	809.1	373.9	297.5	76.43	4.893	
12,700.0	12,380.0	20,139.0	12,558.3	23.9	61.5	-126.76	-221.2	809.1	378.9	303.4	75.57	5.014	
12,800.0	12,380.0	20,139.0	12,558.3	24.1	61.5	-126.76	-221.2	809.1	447.7	381.5	66.17	6.766	
12,900.0	12,380.0	20,139.0	12,558.3	24.3	61.5	-126.76	-221.2	809.1	526.6	467.5	59.01	8.924	
13,000.0	12,380.0	20,139.0	12,558.3	24.6	61.5	-126.76	-221.2	809.1	611.6	557.8	53.82	11.365	
13,100.0	12,380.0	20,139.0	12,558.3	24.9	61.5	-126.76	-221.2	809.1	700.7	650.6	50.10	13.984	
13,200.0	12,380.0	20,139.0	12,558.3	25.2	61.5	-126.76	-221.2	809.1	792.3	744.9	47.43	16.706	
13,300.0	12,380.0	20,139.0	12,558.3	25.5	61.5	-126.76	-221.2	809.1	885.8	840.3	45.48	19.477	
13,400.0	12,380.0	20,139.0	12,558.3	25.9	61.5	-126.76	-221.2	809.1	980.5	936.5	44.04	22.264	

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 602H - Slot BOATER FED COM 602H
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 602H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #704H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-Standard Keeper 104, 11959-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,800.0	11,760.7	20,047.7	12,543.8	23.6	59.6	-92.89	-1.8	-20.9	980.3	883.4	96.85	10.121	
11,900.0	11,860.7	20,045.0	12,543.9	23.7	59.5	-92.63	1.0	-20.9	902.4	806.1	96.32	9.369	
11,941.8	11,902.5	20,043.8	12,543.9	23.7	59.5	-92.52	2.1	-20.9	871.2	775.1	96.05	9.071	
11,950.0	11,910.7	20,043.7	12,543.9	23.7	59.5	89.12	2.3	-20.9	865.2	769.2	95.99	9.013	
11,975.0	11,935.7	20,044.0	12,543.9	23.7	59.5	92.25	1.9	-20.9	847.0	751.2	95.81	8.841	
12,000.0	11,960.5	20,045.6	12,543.9	23.7	59.6	95.11	0.3	-20.9	829.3	733.7	95.64	8.671	
12,025.0	11,985.3	20,048.5	12,543.8	23.7	59.6	97.69	-2.5	-20.9	812.0	716.6	95.46	8.506	
12,050.0	12,009.8	20,052.6	12,543.7	23.7	59.6	99.98	-6.6	-20.8	795.3	700.0	95.29	8.345	
12,075.0	12,034.0	20,058.0	12,543.5	23.7	59.6	101.99	-12.0	-20.8	779.1	684.0	95.12	8.190	
12,100.0	12,057.8	20,064.6	12,543.3	23.7	59.7	103.72	-18.7	-20.7	763.6	668.6	94.96	8.041	
12,125.0	12,081.2	20,072.5	12,543.1	23.7	59.8	105.18	-26.6	-20.6	748.7	653.9	94.80	7.898	
12,150.0	12,104.2	20,081.7	12,542.9	23.7	59.8	106.39	-35.7	-20.5	734.6	640.0	94.65	7.761	
12,175.0	12,126.5	20,092.0	12,542.7	23.6	59.9	107.37	-46.0	-20.3	721.3	626.8	94.51	7.632	
12,200.0	12,148.3	20,103.6	12,542.4	23.6	60.0	108.13	-57.6	-20.1	708.7	614.4	94.38	7.510	
12,225.0	12,169.4	20,116.3	12,542.1	23.6	60.1	108.69	-70.3	-20.0	697.0	602.8	94.26	7.395	
12,250.0	12,189.7	20,130.1	12,541.8	23.6	60.2	109.07	-84.1	-19.7	686.1	592.0	94.15	7.287	
12,275.0	12,209.3	20,145.7	12,541.5	23.6	60.3	109.24	-99.7	-19.5	676.1	582.0	94.07	7.186	
12,300.0	12,228.0	20,162.3	12,541.1	23.6	60.4	109.28	-116.3	-19.3	666.8	572.8	94.01	7.093	
12,325.0	12,245.9	20,179.8	12,540.7	23.6	60.6	109.19	-133.8	-19.0	658.4	564.4	93.97	7.006	
12,350.0	12,262.8	20,198.2	12,540.3	23.7	60.7	109.00	-152.2	-18.7	650.7	556.7	93.94	6.926	
12,375.0	12,278.7	20,217.4	12,539.8	23.7	60.8	108.72	-171.3	-18.4	643.7	549.8	93.94	6.853	
12,400.0	12,293.5	20,237.1	12,539.3	23.7	61.0	108.39	-191.0	-18.1	637.5	543.6	93.95	6.786	
12,425.0	12,307.3	20,257.5	12,538.7	23.7	61.1	108.01	-211.5	-17.8	632.0	538.1	93.99	6.725	
12,450.0	12,320.0	20,274.0	12,538.3	23.7	61.3	107.80	-227.9	-17.5	627.2	533.2	94.00	6.673	
12,475.0	12,331.6	20,274.0	12,538.3	23.7	61.3	108.22	-227.9	-17.5	623.5	529.7	93.79	6.648	
12,500.0	12,342.0	20,274.0	12,538.3	23.7	61.3	108.48	-227.9	-17.5	621.2	527.7	93.51	6.643 SF	
12,525.0	12,351.1	20,274.0	12,538.3	23.7	61.3	108.58	-227.9	-17.5	620.4	527.2	93.14	6.661 ES	
12,527.9	12,352.1	20,274.0	12,538.3	23.7	61.3	108.58	-227.9	-17.5	620.3	527.3	93.09	6.664 CC	
12,550.0	12,359.1	20,274.0	12,538.3	23.8	61.3	108.52	-227.9	-17.5	620.9	528.2	92.67	6.700	
12,575.0	12,365.7	20,274.0	12,538.3	23.8	61.3	108.30	-227.9	-17.5	622.9	530.8	92.11	6.762	
12,600.0	12,371.2	20,274.0	12,538.3	23.8	61.3	107.91	-227.9	-17.5	626.2	534.8	91.45	6.847	
12,625.0	12,375.3	20,274.0	12,538.3	23.8	61.3	107.36	-227.9	-17.5	631.0	540.2	90.71	6.956	
12,650.0	12,378.1	20,274.0	12,538.3	23.9	61.3	106.64	-227.9	-17.5	637.0	547.1	89.88	7.088	
12,675.0	12,379.7	20,274.0	12,538.3	23.9	61.3	105.76	-227.9	-17.5	644.3	555.4	88.98	7.242	
12,691.8	12,380.0	20,274.0	12,538.3	23.9	61.3	105.07	-227.9	-17.5	650.0	561.6	88.34	7.358	
12,700.0	12,380.0	20,274.0	12,538.3	23.9	61.3	105.07	-227.9	-17.5	652.9	564.8	88.01	7.418	
12,800.0	12,380.0	20,274.0	12,538.3	24.1	61.3	105.07	-227.9	-17.5	695.2	611.5	83.68	8.308	
12,900.0	12,380.0	20,274.0	12,538.3	24.3	61.3	105.07	-227.9	-17.5	748.6	669.6	78.99	9.478	
13,000.0	12,380.0	20,274.0	12,538.3	24.6	61.3	105.07	-227.9	-17.5	810.8	736.5	74.38	10.901	
13,100.0	12,380.0	20,274.0	12,538.3	24.9	61.3	105.07	-227.9	-17.5	880.1	810.0	70.13	12.550	
13,200.0	12,380.0	20,274.0	12,538.3	25.2	61.3	105.07	-227.9	-17.5	954.8	888.5	66.33	14.395	

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

ConocoPhillips

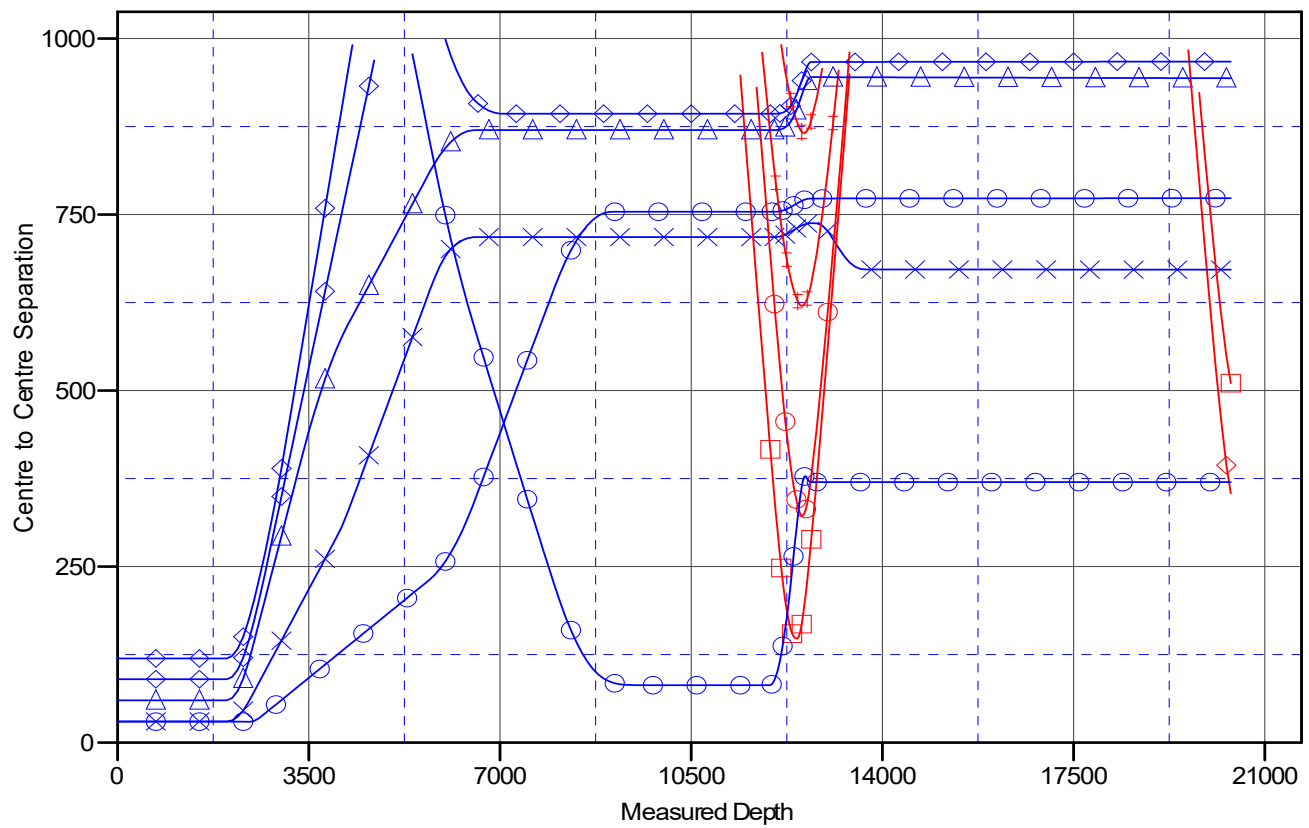
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 602H - Slot BOATER FED COM 602H
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 602H	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 602H - Slot BOATER FED COM
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.50°

Ladder Plot



LEGEND

_BOATER FED COM 601H, OWB, PWP0 V0	GREEN BERET FED COM #706H, OWB, AWP V0	_BOATER FED COM 802H, OWB, PWP0 V0
CAVE LION S/WA FEDERAL 009H, OWB, AWP V0	GREEN BERET FED COM #708H, OWB, AWP V0	_BOATER FED COM 803H, OWB, PWP0 V0
_BOATER FED COM 801H, OWB, PWP0 V0	GREEN BERET FED COM #720H, OWB, AWP V0	_BOATER FED COM 804H, OWB, PWP0 V0
_BOATER FED COM 701H, OWB, PWP0 V0	GREEN BERET FED COM #620H, OWB, AWP V0	
CAVE LION S/TB FEDERAL 008H, OWB, AWP V0	_BOATER FED COM 702H, OWB, PWP0 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 602H - Slot BOATER FED COM 602H
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 602H	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

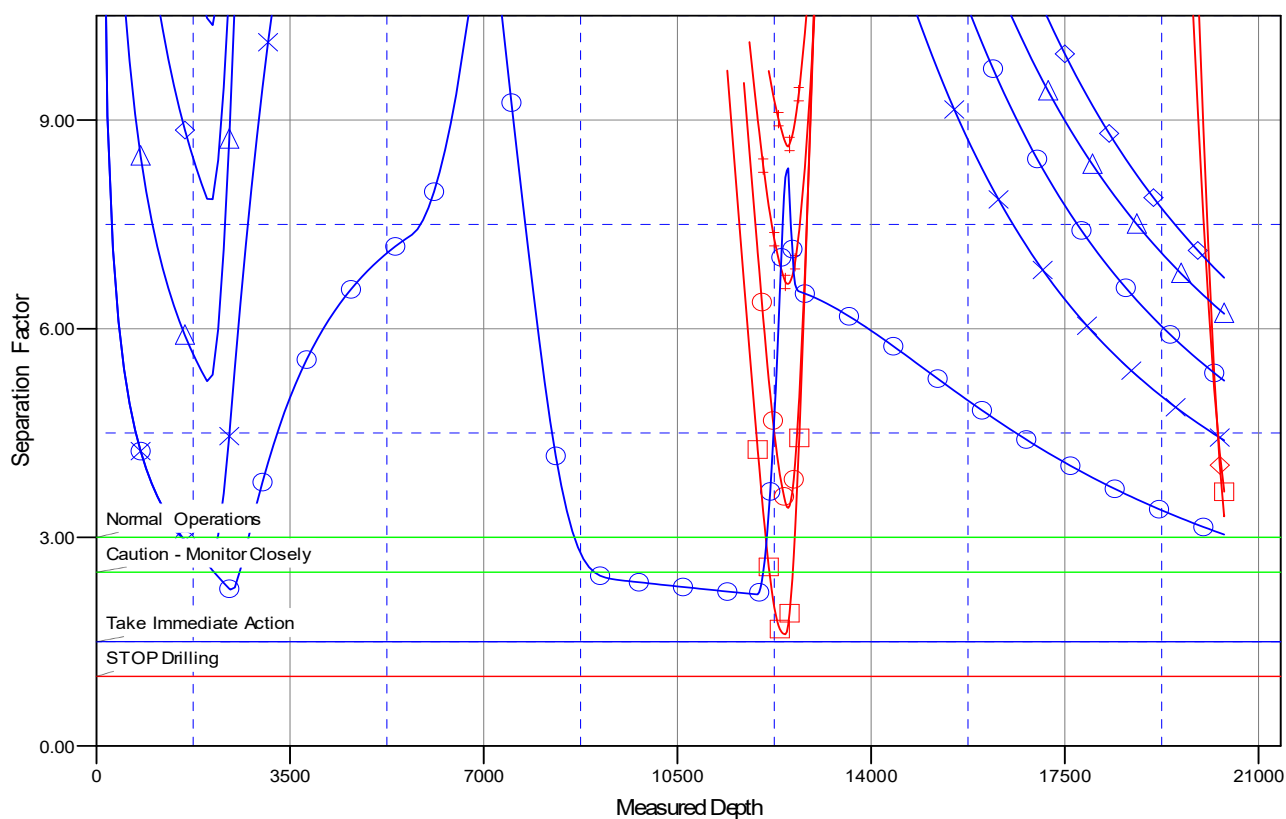
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 602H - Slot BOATER FED COM

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

Grid Convergence at Surface is: 0.50°

Separation Factor Plot



LEGEND

_BOATER FED COM 601H, OWB, PWP0 V0	GREEN BERET FED COM #708H, OWB, AWP V0	_BOATER FED COM 602H, OWB, PWP0 V0
CAVE LION 5 TB FEDERAL 008H, OWB, AWP V0	GREEN BERET FED COM #709H, OWB, AWP V0	_BOATER FED COM 603H, OWB, PWP0 V0
_BOATER FED COM 604H, OWB, PWP0 V0	GREEN BERET FED COM #710H, OWB, AWP V0	_BOATER FED COM 604H, OWB, PWP0 V0
_BOATER FED COM 605H, OWB, PWP0 V0	GREEN BERET FED COM #628H, OWB, AWP V0	
_BOATER FED COM 606H, OWB, PWP0 V0	_BOATER FED COM 702H, OWB, PWP0 V0	

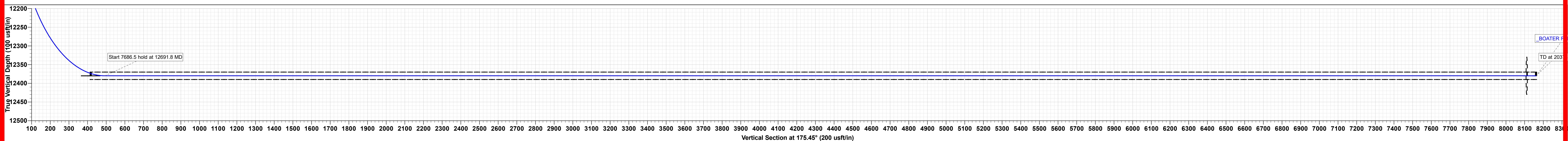
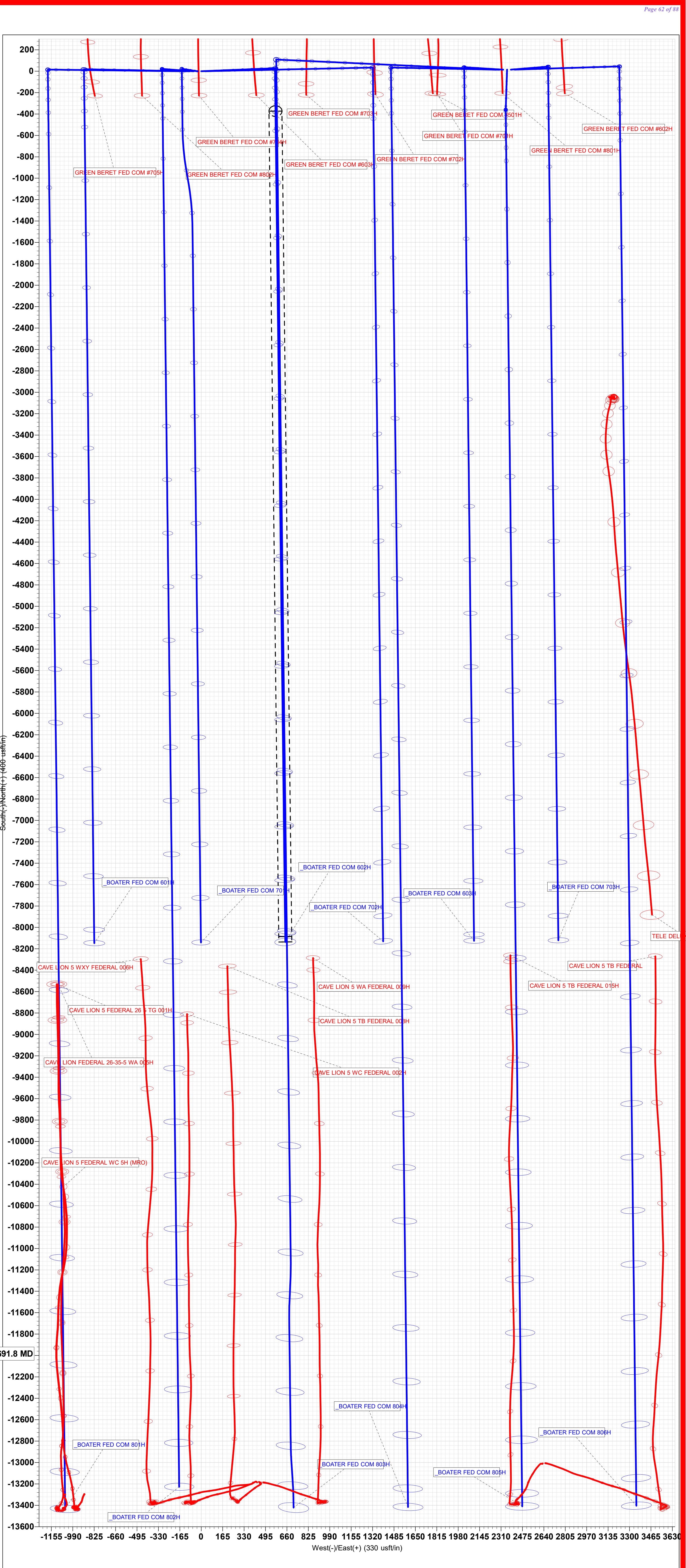
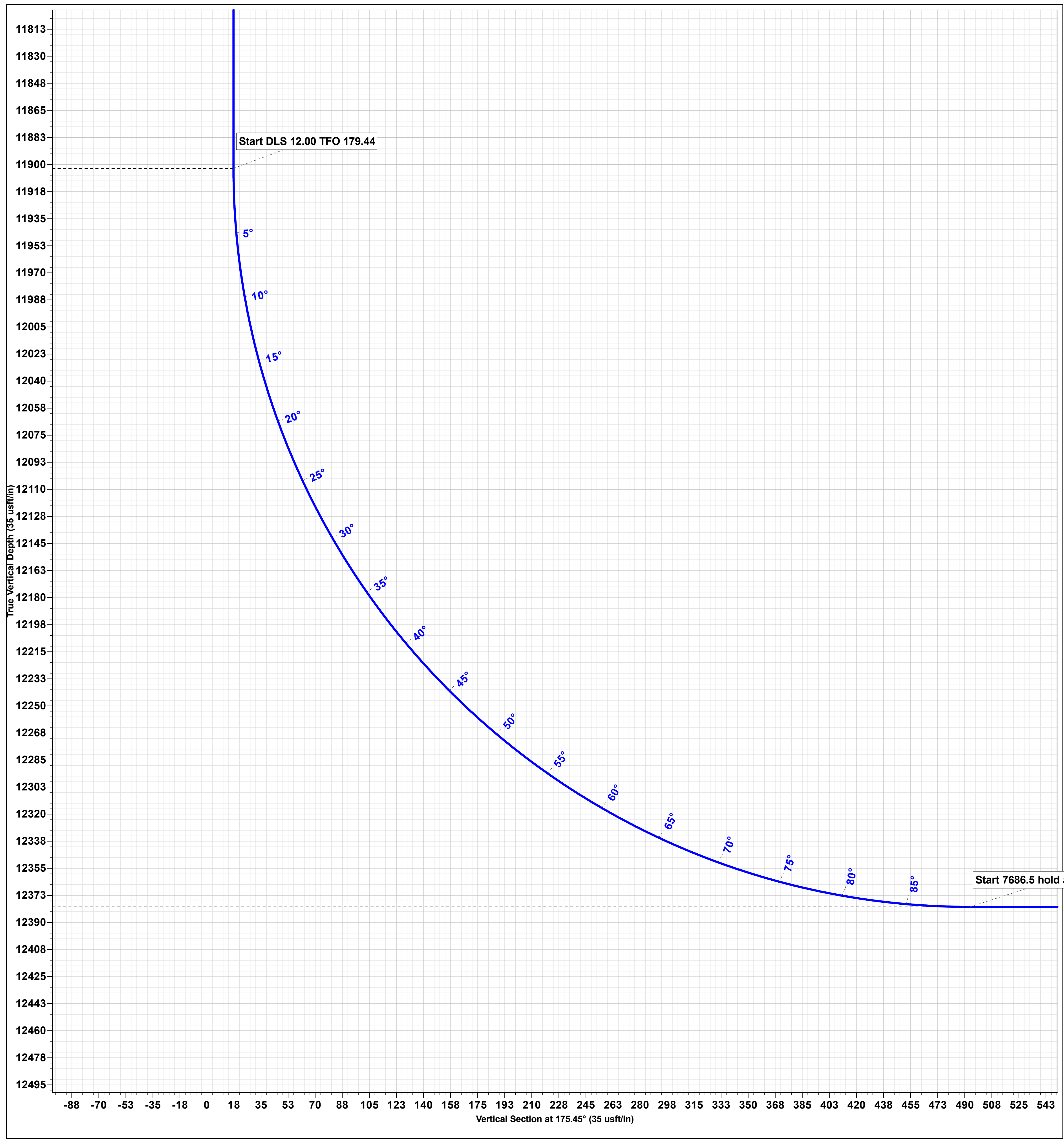
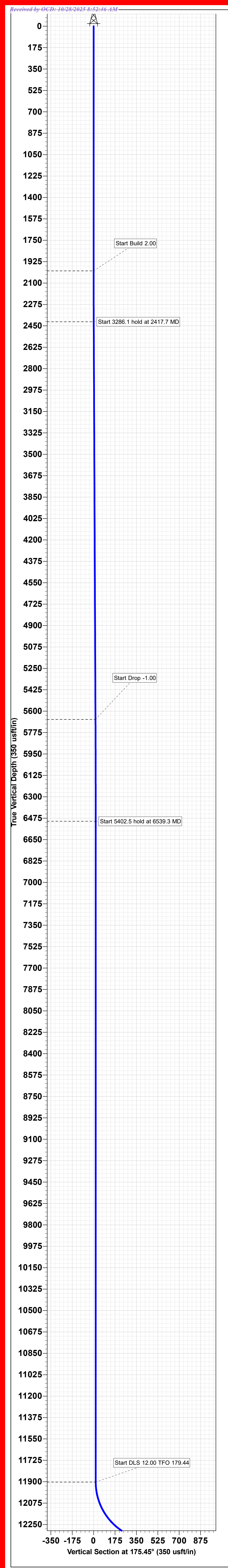
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: LEA COUNTY SOUTHEAST
Site: BOATER FED COM PROJECT
Well: BOATER FED COM 602H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0
2417.7	8.35	87.18	2416.3	1.5	30.4	2.00	87.18	0.9
5703.8	8.35	87.18	5667.5	25.0	507.3	0.00	0.00	15.3
6539.3	0.00	0.00	6500.0	28.0	568.0	1.00	180.00	17.1
11941.8	0.00	0.00	11902.5	28.0	568.0	0.00	0.00	17.1
12691.8	90.00	179.44	12380.0	-449.4	572.6	12.00	179.44	493.4
20378.3	90.00	179.44	12380.0	-8135.6	647.4	0.00	0.00	8161.3



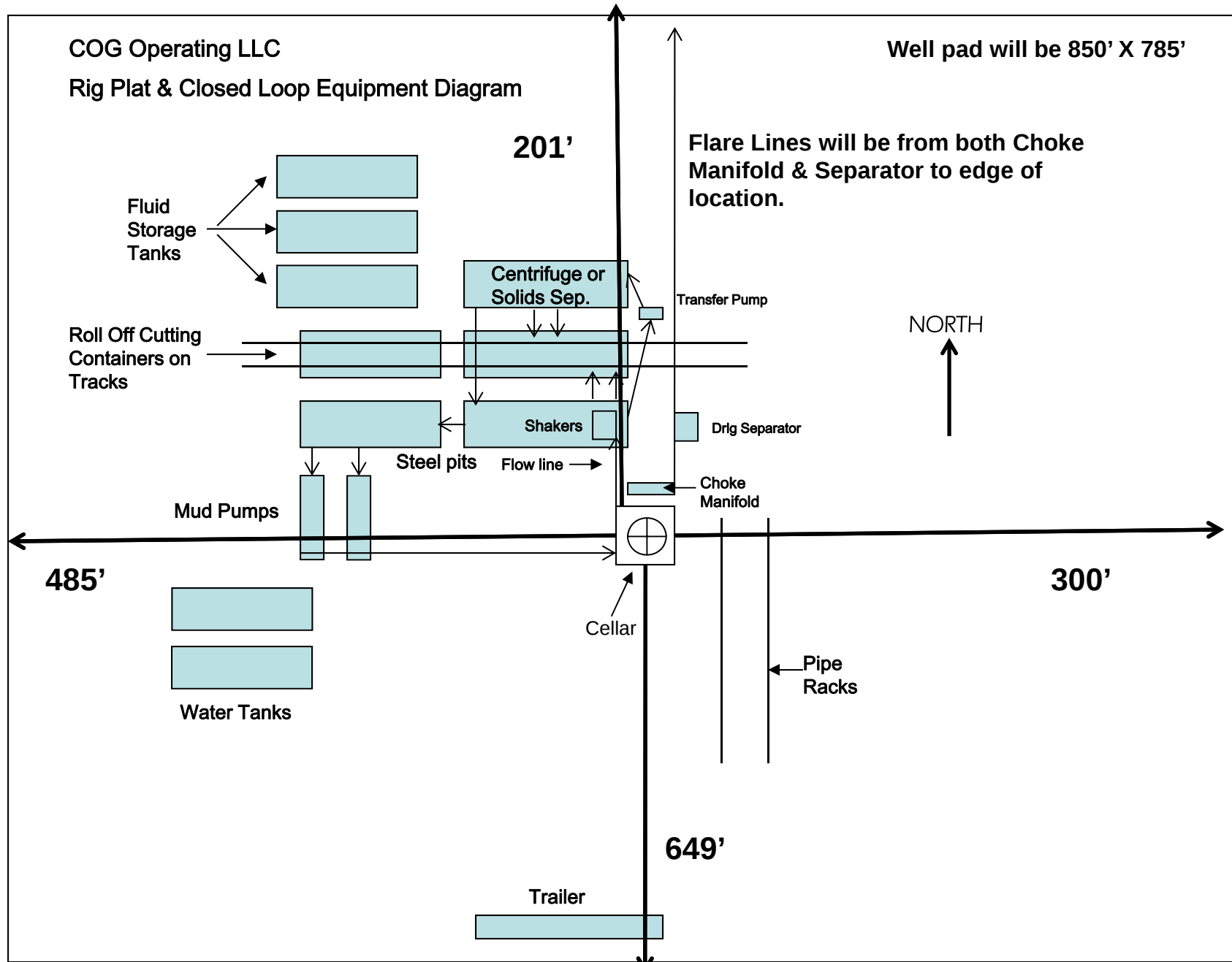


Exhibit 1

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 07/14/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan **EFFECTIVE APRIL 1, 2022**

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

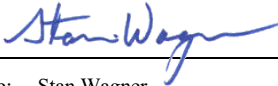
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 07/14/2025
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

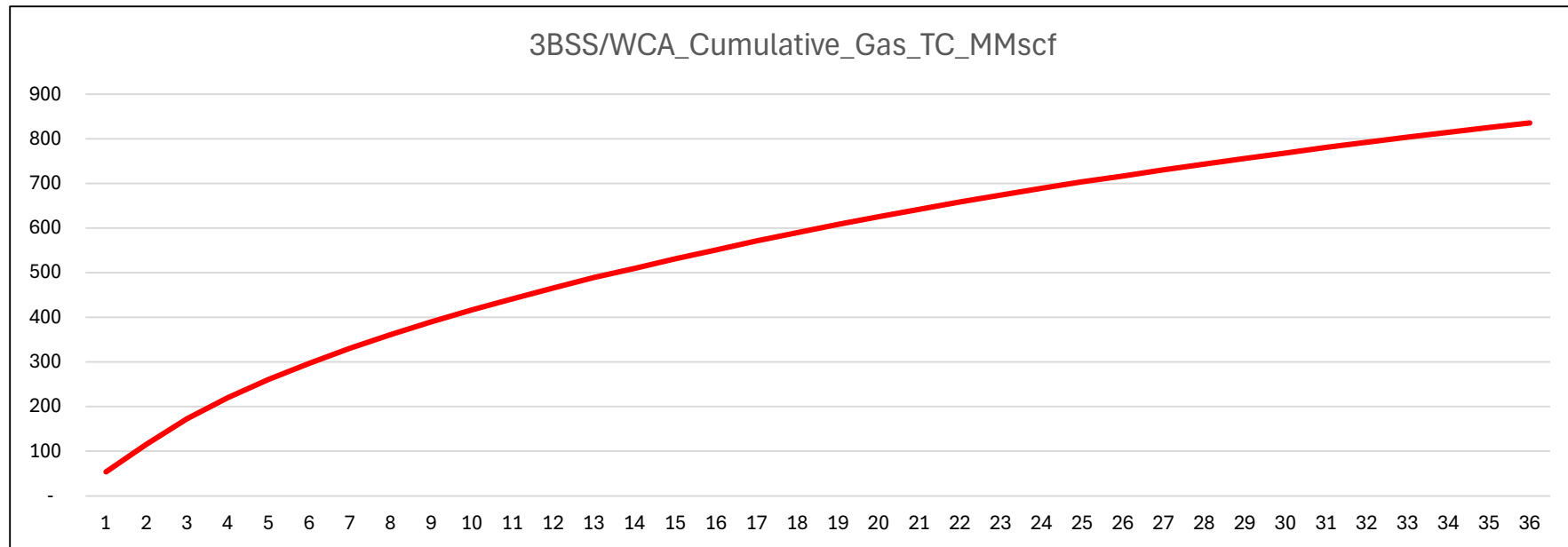
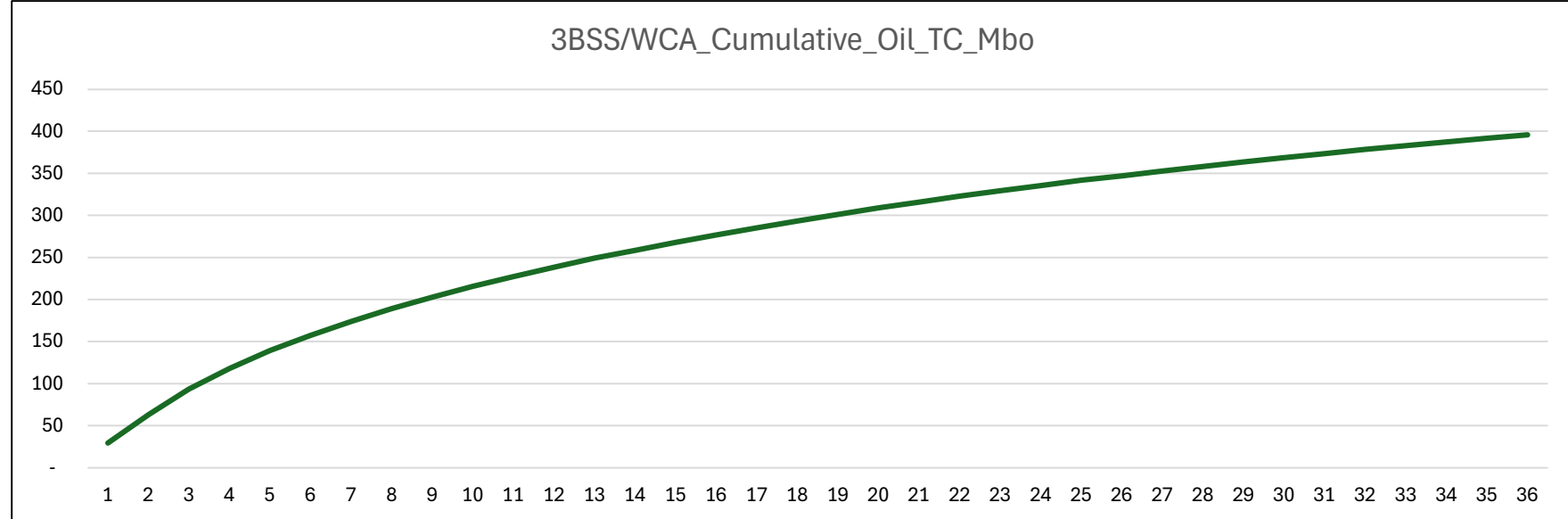
- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize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

Waste Minimization Plan

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

- (1) The anticipated initial oil production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (2) The anticipated initial oil-well gas production rate from the oil well and the anticipated production decline over the first 3 years of production.
 - a. See attached Anticipated Production & Decline Curve
- (3) Certification that the operator has a valid, executed gas sales contract to sell to a purchaser 100 percent of the produced oil-well gas, less gas anticipated for use on-lease pursuant to 43 CFR subpart 3178.
 - a. See attached NMOCD – Natural Gas Management Plan
- (4) Any other information demonstrating the operator's plans to avoid the waste of gas production from any source, including, as appropriate, from pneumatic equipment, storage tanks, and leaks.
 - a. This location will comply with NSPS OOOOb which will include reduced associated gas flaring, non-emitting pneumatic equipment, storage tanks that are controlled and a rigorous leak detection and repair program. In addition, this facility complies with 20.2.50 NMAC (Ozone Precursor Pollutants) which also imposes standards on pneumatic equipment, tank controls, and leak detection and repair. Finally, this facility must comply with 19.15.27 NMAC (Venting and Flaring of Natural Gas) which significantly reduces instances of flaring.

Anticipated Production Decline Curve



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 602H
LOCATION:	Section 29, T.25 S., R.35 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The **10-3/4** inch surface casing shall be set at approximately **1225 feet per BLM Geologist** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature

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

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

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

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

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

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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

Contingency Squeeze:

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

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

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

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

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **10-3/4 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

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

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

BOPE Break Testing Variance

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

Casing Clearance:

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

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

Offline Cementing:

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 10/9/2025

Well Name: BOATER FEDERAL COM	Well Location: T25S / R35E / SEC 29 / SENW / 32.102125 / -103.393521	County or Parish/State: LEA / NM
Well Number: 602H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM132953	Unit or CA Name:	Unit or CA Number:
US Well Number:	Operator: COG OPERATING LLC	

Notice of Intent

Sundry ID: 2879626

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 10/21/2025	Time Sundry Submitted: 12:41
Date proposed operation will begin: 10/21/2025	

Procedure Description: COG Operating requests a change to our approved APD for this well to reflect a change in dedicated acres to 720. Change from 240 ac TO: 720 ac.

NOI Attachments

Procedure Description

Boater_Federal_Com_602H_Signed_C_102_Revised_Acres_10_7_25_20251021124050.pdf

Well Name: BOATER FEDERAL COM

Well Location: T25S / R35E / SEC 29 /
SENW / 32.102125 / -103.393521

County or Parish/State: LEA /
NM

Well Number: 602H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM132953

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: COG OPERATING LLC

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STAN WAGNER

Signed on: OCT 21, 2025 12:40 PM

Name: COG OPERATING LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLAND

State: TX

Phone: (432) 253-9685

Email address: STAN.S.WAGNER@CONOCOPHILLIPS.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: CWALLS@BLM.GOV

Disposition: Accepted

Disposition Date: 10/27/2025

Signature: Chris Walls

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

2. Name of Operator

3a. Address 3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)

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

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

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.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: SENW / 2365 FNL / 1410 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102125 / LONG: -103.393521 (TVD: 0 feet, MD: 0 feet)

PPP: NESW / 2540 FSL / 2080 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101094 / LONG: -103.391356 (TVD: 12373 feet, MD: 12615 feet)

PPP: NENW / 1 FNL / 2081 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094112 / LONG: -103.391348 (TVD: 12380 feet, MD: 15255 feet)

BHL: SESW / 50 FSL / 2080 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.079748 / LONG: -103.39133 (TVD: 12380 feet, MD: 20378 feet)

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

WELL LOCATION INFORMATION

API Number 30-025- 55675	Pool Code 97088	Pool Name WC-025 G-08 S253534O; Bone Spring
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 602H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3279.1'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1410 FWL	32.102125°N	103.393521°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		50 FSL	2080 FWL	32.079748°N	103.391330°W	LEA

Dedicated Acres 720	Infill or Defining Well Infill	Defining Well API Pooling Order/NSP	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers. Pending			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1410 FWL	32.102125°N	103.393521°W	LEA

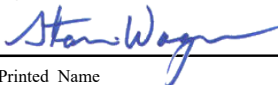
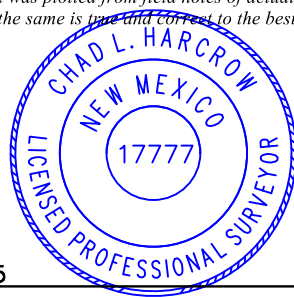
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
K	29	25-S	35-E		2540 FSL	2080 FWL	32.101094°N	103.391356°W	LEA

Last Take Point (LTP)

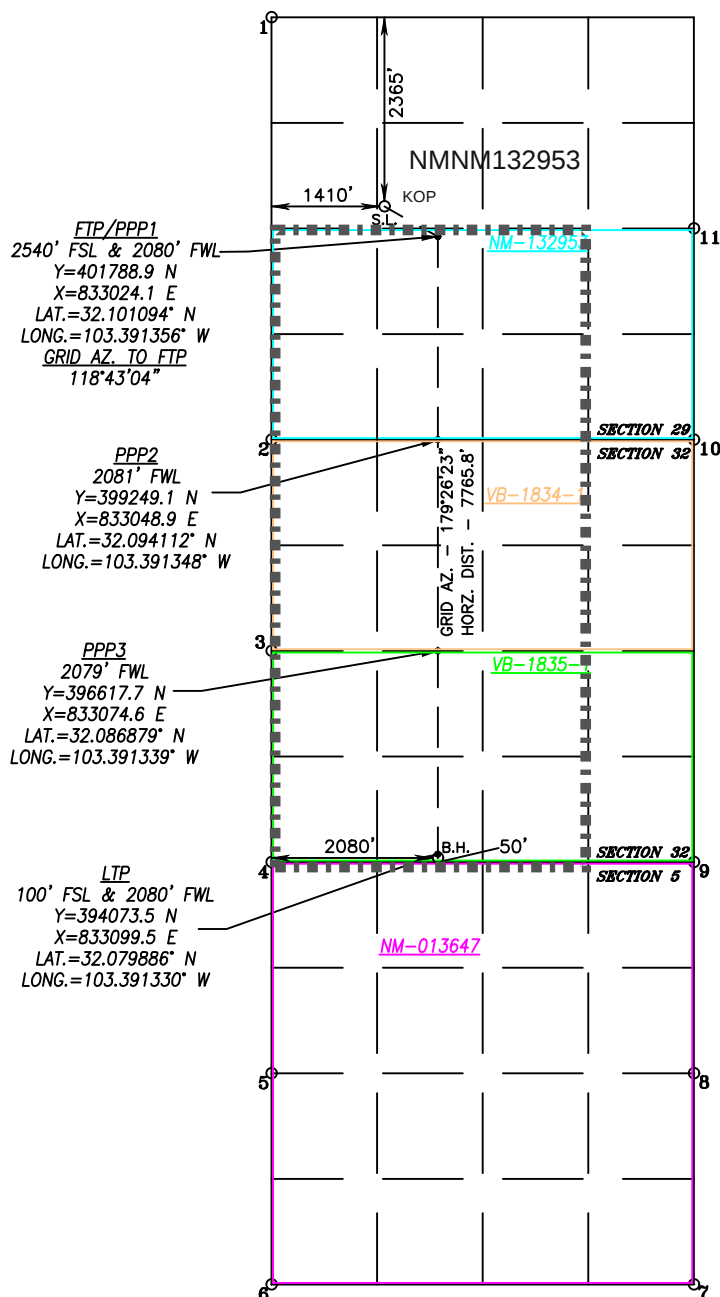
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
N	32	25-S	35-E		100 FSL	2080 FWL	32.079886°N	103.391330°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation: 3279.1'
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
Signature 	Date 10/7/25	 Signature and Seal of Professional Surveyor Chad Harcrow 6/6/25	
Printed Name Stan Wagner	Email Address	Certificate Number 17777	Date of Survey MAY 28, 2025 W.O.#25-505 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.



KOP
NAD 83 NME
SURFACE LOCATION
Y=402158.0 N
X=832350.6 E
LAT.=32.102125° N
LONG.=103.393521° W

POINT LEGEND	
1	Y=404513.1 N X=830918.0 E
2	Y=399234.4 N X=830968.3 E
3	Y=396607.8 N X=830995.2 E
4	Y=393959.5 N X=831020.5 E
5	Y=391316.9 N X=831046.4 E
6	Y=388675.4 N X=831074.4 E
7	Y=386711.3 N X=836356.4 E
8	Y=391351.2 N X=836332.1 E
9	Y=393995.1 N X=836304.4 E
10	Y=399270.9 N X=836252.9 E
11	Y=401910.4 N X=836227.2 E

NAD 83 NME
PROPOSED BOTTOM
HOLE LOCATION
Y=394023.5 N
X=833100.0 E
LAT.=32.079748° N
LONG.=103.391330° W

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 520508

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 520508
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☒	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Santa Fe, NM 87505

CONDITIONS

Action 520508

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 520508
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/28/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/28/2025
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	12/22/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/22/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	12/22/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/22/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/22/2025