

Form 3160-3
(October 2024)

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

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

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. <b style="color: red; font-size: 1.2em;">30-025-56040
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SENW / 2365 FNL / 1350 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 33.102125 / LONG: -103.393714 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2540 FSL / 1210 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101098 / LONG: -103.394166 (TVD: 12743 feet, MD: 12962 feet)

PPP: NWNW / 1 FNL / 1211 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.094116 / LONG: -103.394155 (TVD: 12750 feet, MD: 15600 feet)

BHL: SWSW / 50 FSL / 1210 FWL / TWSP: 26S / RANGE: 35E / SECTION: 5 / LAT: 32.065228 / LONG: -103.394113 (TVD: 12750 feet, MD: 26147 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: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled
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WELL LOCATION INFORMATION

API Number 30-025- 56040	Pool Code 98117	Pool Name WC-025 G-09 S2633504N; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3279.9'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1350 FWL	32.102125°N	103.393714°W	LEA

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	5	26-S	35-E		50 FSL	1210 FWL	32.065228°N	103.394113°W	LEA

Dedicated Acres 640	Infill or Defining Well Infill	Defining Well API Pending 804H	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
F	29	25-S	35-E		2365 FNL	1350 FWL	32.102125°N	103.393714°W	LEA

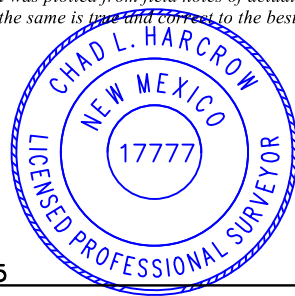
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	29	25-S	35-E		2540 FSL	1210 FWL	32.101098°N	103.394166°W	LEA

Last Take Point (LTP)

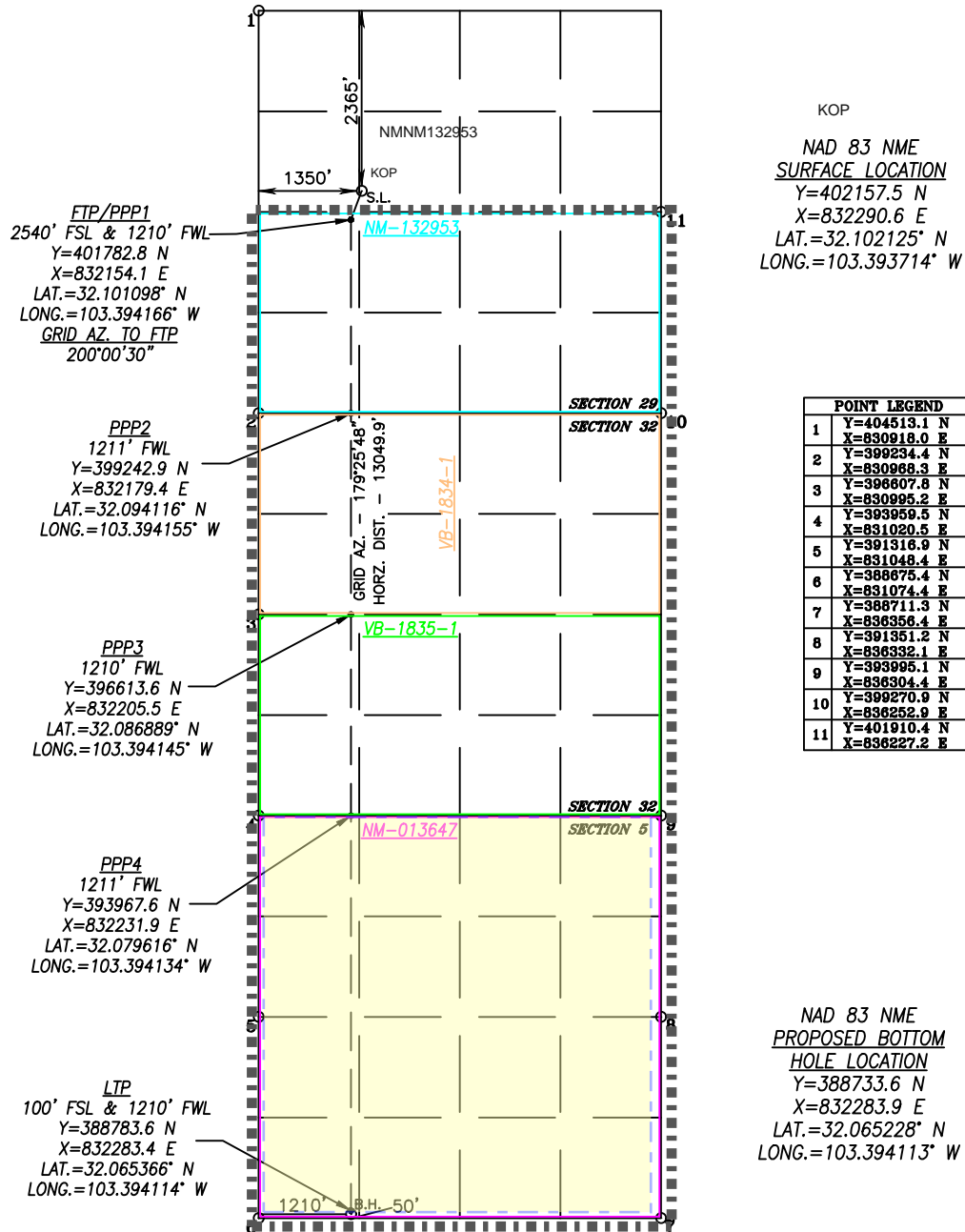
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
M	5	26-S	35-E		100 FSL	1210 FWL	32.065366°N	103.394114°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3279.9'
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<p>OPERATOR CERTIFICATIONS</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: right;">  </div> <p style="text-align: right;"><i>Chad Harcrow</i> 6/6/25</p>	
Signature <i>Stan Wagner</i>	Date 7/7/25	Signature and Seal of Professional Surveyor
Printed Name Stan Wagner	Email Address	Certificate Number 17777
		Date of Survey MAY 28, 2025
		W.O.#25-503 DRAWN BY: WN PAGE 1 OF 2

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

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



C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024			
		Submittal Type: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Initial Submittal</td> </tr> <tr> <td><input type="checkbox"/> Amended Report</td> </tr> <tr> <td><input type="checkbox"/> As Drilled</td> </tr> </table>	<input checked="" type="checkbox"/> Initial Submittal	<input type="checkbox"/> Amended Report	<input type="checkbox"/> As Drilled
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WELL LOCATION INFORMATION

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Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 802H
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Surface Location

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Dedicated Acres 960	Infill or Defining Well Infill	Defining Well API Pending 804H	Overlapping Spacing Unit (Y/N) Yes	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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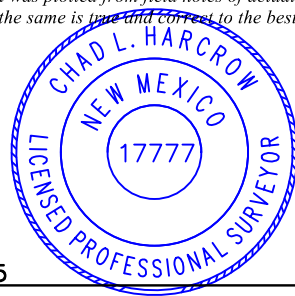
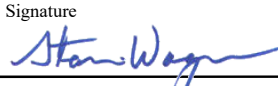
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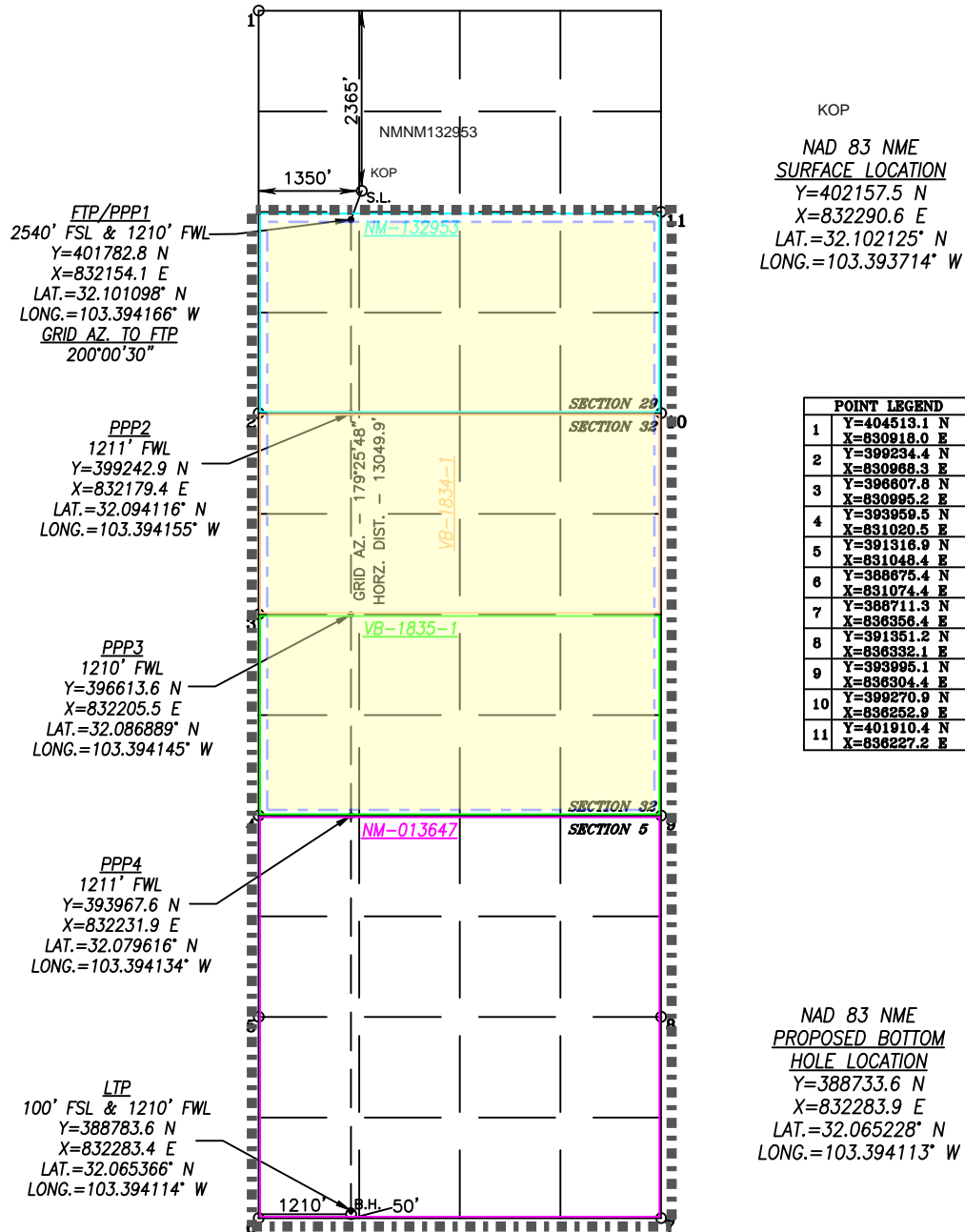
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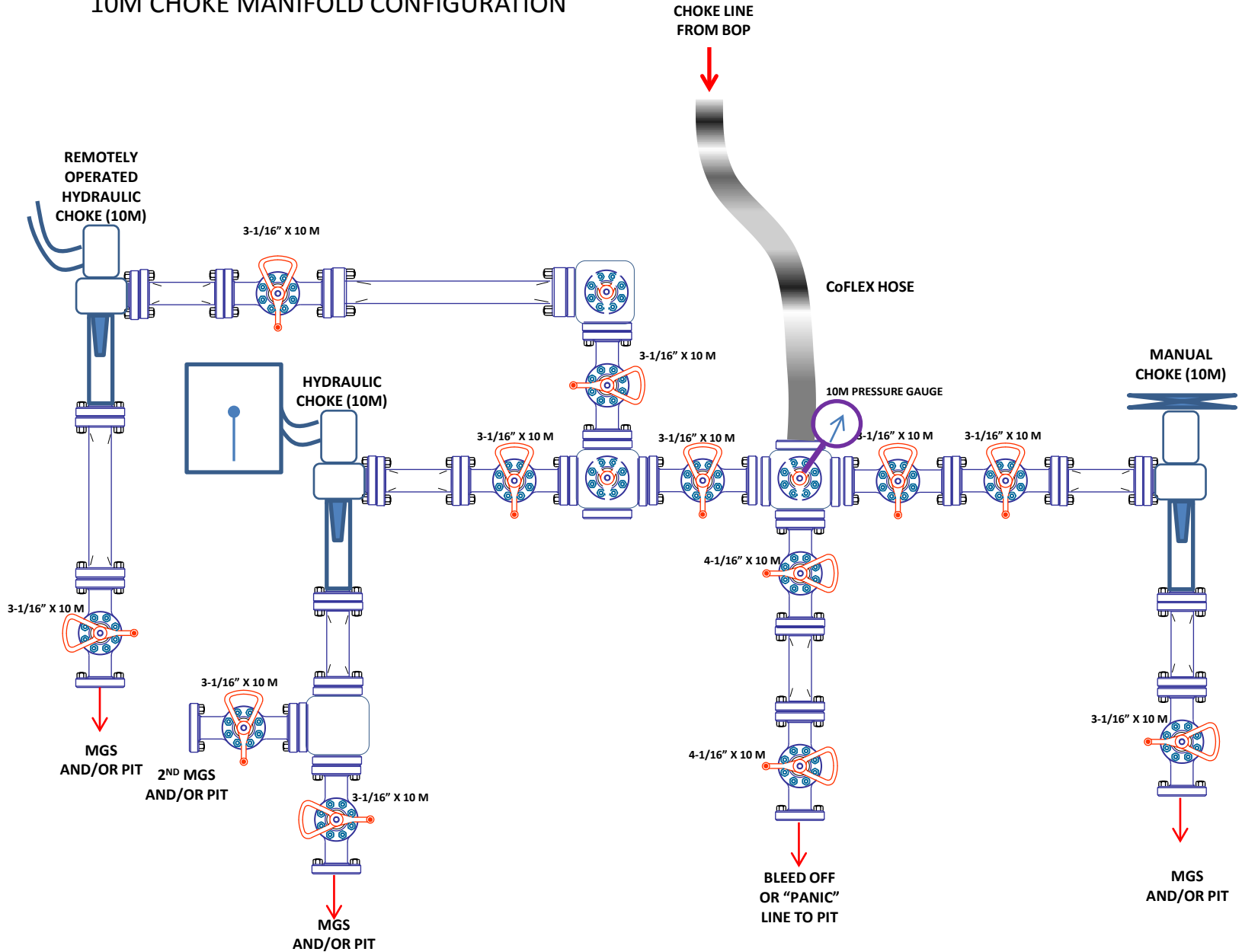
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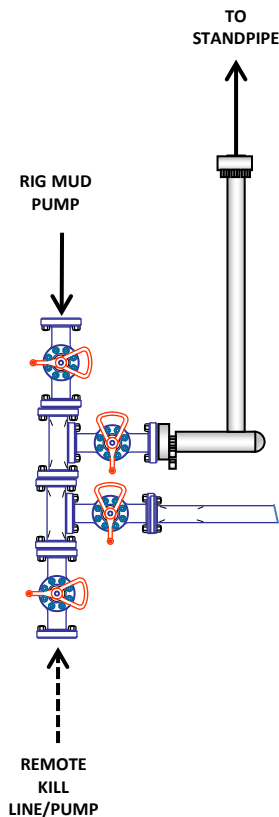
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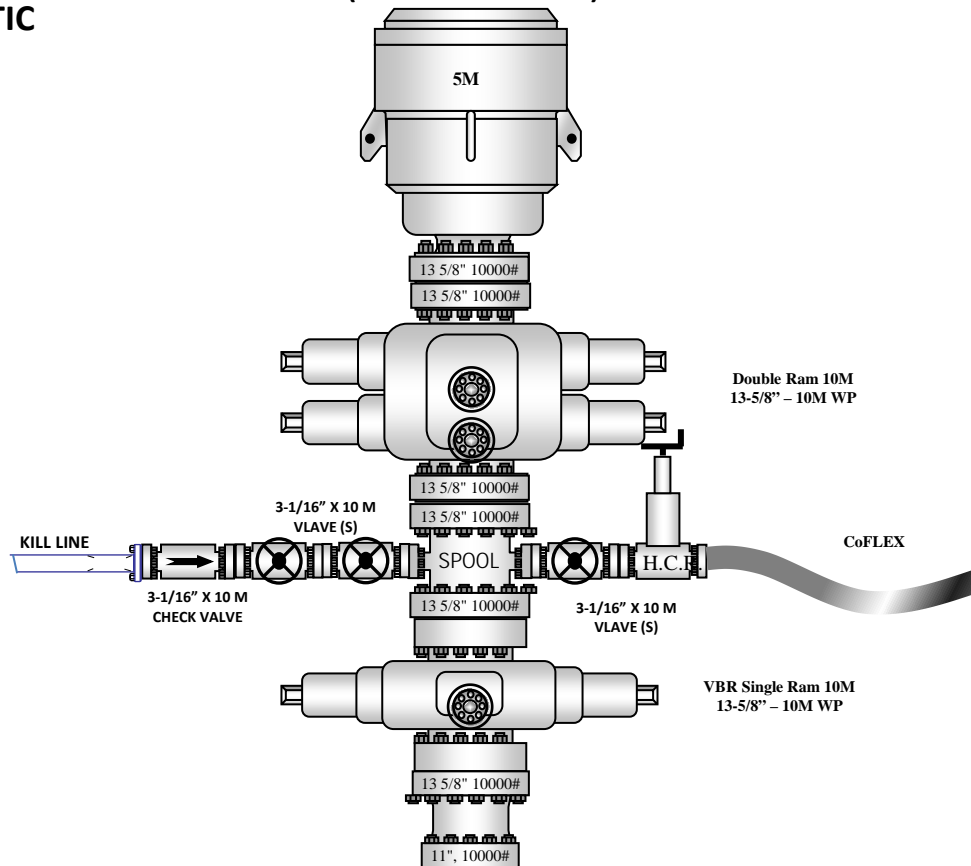
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



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1. Geologic Formations

TVD of Target:	12,750' EOL	Pilot hole depth:	N/A
MD at TD:	25,810'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	717	Water	
Top of Salt	876	Salt	
Base of Salt	5159	Salt	
Lamar	5279	Salt Water	
Bell Canyon	5283	Salt Water	
Cherry Canyon	6279	Oil/Gas	
Brushy Canyon	7961	Oil/Gas	
Bone Spring	9231	Oil/Gas	
1st Bone Spring Sand	10376	Oil/Gas	
2nd Bone Spring Sand	10908	Oil/Gas	
3rd Bone Spring Sand	12022	Oil/Gas	
Wolfcamp	12426	Oil/Gas	
Wolfcamp A	12546	Oil/Gas	
Wolfcamp B	12774	Target Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	726	10.75"	45.5	J55	BTC	6.29	8.08	21.65	24.10
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.44	1.02	2.98	3.01
8.750"	8200	12189	7.625"	29.7	P110-ICY	W513	2.81	1.54	2.95	1.77
6.75"	0	11989	5.5"	23	P110-CY	BTC	3.34	2.01	2.64	2.64
6.75"	11989	25,810	5.5"	23	P110-CY	W441	3.23	2.01	2.49	2.26
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

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

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1189	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	662	12.7	1.68	9.09	72	Lead: Class C
	1321	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	11,689'	35% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hrs)	Slurry Description
Surf.	203	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	434	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	662	12.7	1.68	9.09	72	Lead: Class C
	1321	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	7,961'	121%
Production	11,689'	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	
			Pipe Ram	x	5000psi
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	2500psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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

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

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

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5. Mud Program

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

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

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

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

Additional logs planned	Interval
N	Resistivity
N	Density
N	CBL
Y	Mud log
N	PEX

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8620 psi at 12750' TVD
Abnormal Temperature	NO 180 Deg. F.

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

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

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

8. Other Facets of Operation

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

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

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

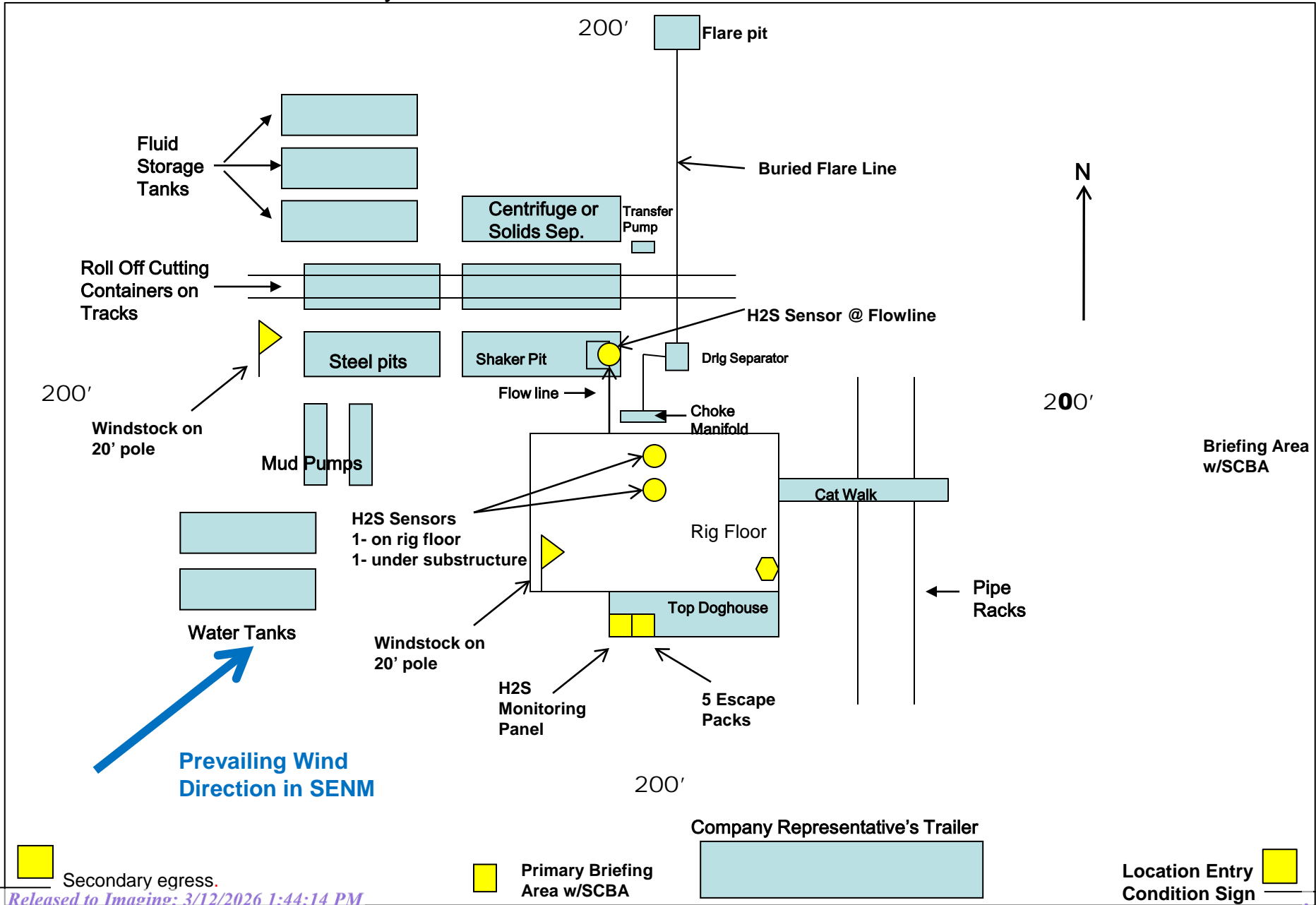
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

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

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

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



DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 802H - Slot BOATER FED COM 802H

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	LEA COUNTY SOUTHEAST		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	BOATER FED COM PROJECT				
Site Position:		Northing:	398,922.70 usft	Latitude:	32° 5' 35.657 N
From:	Map	Easting:	792,291.08 usft	Longitude:	103° 23' 22.218 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "		

Well	_BOATER FED COM 802H - Slot BOATER FED COM 802H					
Well Position	+N/-S	0.0 usft	Northing:	402,102.41 usft	Latitude:	32° 6' 7.215 N
	+E/-W	0.0 usft	Easting:	791,205.19 usft	Longitude:	103° 23' 34.518 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,220.0 usft
Grid Convergence:	0.50 °					

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2024	4/23/2025	(°)	(°)	(nT)
			6.04	59.61	47,142.33853839

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	180.48

Plan Survey Tool Program	Date	4/24/2025			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1	0.0	25,810.0 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR		
			ISCWSA MWD + IFR1 + SAG		

ConocoPhillips

Planning Report

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Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	North Reference:	Grid
Well:	_BOATER FED COM 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,455.5	9.11	275.19	2,453.6	3.3	-36.0	2.00	2.00	0.00	275.19	
3,305.4	9.11	275.19	3,292.7	15.5	-170.0	0.00	0.00	0.00	0.00	
4,216.5	0.00	0.00	4,200.0	22.0	-242.0	1.00	-1.00	0.00	180.00	
12,289.0	0.00	0.00	12,272.5	22.0	-242.0	0.00	0.00	0.00	0.00	
13,039.0	90.00	179.43	12,750.0	-455.4	-237.3	12.00	12.00	0.00	179.43	
25,810.0	90.00	179.43	12,750.0	-13,225.8	-110.2	0.00	0.00	0.00	0.00	

ConocoPhillips Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	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	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	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	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	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	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	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	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	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	0.00
1,900.0	0.00	0.00	1,900.0	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	0.0	0.00	0.00	0.00	0.00
2,100.0	2.00	275.19	2,100.0	0.2	-1.7	-0.1	2.00	2.00	0.00	0.00
2,200.0	4.00	275.19	2,199.8	0.6	-6.9	-0.6	2.00	2.00	0.00	0.00
2,300.0	6.00	275.19	2,299.5	1.4	-15.6	-1.3	2.00	2.00	0.00	0.00
2,400.0	8.00	275.19	2,398.7	2.5	-27.8	-2.3	2.00	2.00	0.00	0.00
2,455.5	9.11	275.19	2,453.6	3.3	-36.0	-3.0	2.00	2.00	0.00	0.00
2,500.0	9.11	275.19	2,497.5	3.9	-43.0	-3.6	0.00	0.00	0.00	0.00
2,600.0	9.11	275.19	2,596.3	5.3	-58.8	-4.9	0.00	0.00	0.00	0.00
2,700.0	9.11	275.19	2,695.0	6.8	-74.5	-6.2	0.00	0.00	0.00	0.00
2,800.0	9.11	275.19	2,793.7	8.2	-90.3	-7.5	0.00	0.00	0.00	0.00
2,900.0	9.11	275.19	2,892.5	9.6	-106.1	-8.8	0.00	0.00	0.00	0.00
3,000.0	9.11	275.19	2,991.2	11.1	-121.9	-10.1	0.00	0.00	0.00	0.00
3,100.0	9.11	275.19	3,090.0	12.5	-137.6	-11.4	0.00	0.00	0.00	0.00
3,200.0	9.11	275.19	3,188.7	13.9	-153.4	-12.7	0.00	0.00	0.00	0.00
3,300.0	9.11	275.19	3,287.4	15.4	-169.2	-14.0	0.00	0.00	0.00	0.00
3,305.4	9.11	275.19	3,292.7	15.5	-170.0	-14.0	0.00	0.00	0.00	0.00
3,400.0	8.16	275.19	3,386.3	16.7	-184.2	-15.2	1.00	-1.00	0.00	0.00
3,500.0	7.16	275.19	3,485.4	17.9	-197.4	-16.3	1.00	-1.00	0.00	0.00
3,600.0	6.16	275.19	3,584.7	19.0	-209.0	-17.3	1.00	-1.00	0.00	0.00
3,700.0	5.16	275.19	3,684.2	19.9	-218.8	-18.1	1.00	-1.00	0.00	0.00
3,800.0	4.16	275.19	3,783.9	20.6	-226.9	-18.7	1.00	-1.00	0.00	0.00
3,900.0	3.16	275.19	3,883.7	21.2	-233.3	-19.3	1.00	-1.00	0.00	0.00
4,000.0	2.16	275.19	3,983.6	21.6	-237.9	-19.6	1.00	-1.00	0.00	0.00
4,100.0	1.16	275.19	4,083.5	21.9	-240.8	-19.9	1.00	-1.00	0.00	0.00
4,200.0	0.16	275.19	4,183.5	22.0	-242.0	-20.0	1.00	-1.00	0.00	0.00
4,216.5	0.00	0.00	4,200.0	22.0	-242.0	-20.0	1.00	-1.00	0.00	0.00
4,300.0	0.00	0.00	4,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,400.0	0.00	0.00	4,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,500.0	0.00	0.00	4,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,600.0	0.00	0.00	4,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,700.0	0.00	0.00	4,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,800.0	0.00	0.00	4,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00
4,900.0	0.00	0.00	4,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB @ 3252.0usft
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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)	
5,000.0	0.00	0.00	4,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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	10,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,283.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,383.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,483.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,583.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,683.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,783.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,883.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,983.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
12,100.0	0.00	0.00	12,083.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,183.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
12,289.0	0.00	0.00	12,272.5	22.0	-242.0	-20.0	0.00	0.00	0.00	
12,300.0	1.32	179.43	12,283.5	21.9	-242.0	-19.9	12.00	12.00	0.00	
12,400.0	13.32	179.43	12,382.5	9.2	-241.9	-7.1	12.00	12.00	0.00	
12,500.0	25.32	179.43	12,476.7	-23.9	-241.5	25.9	12.00	12.00	0.00	
12,600.0	37.32	179.43	12,562.0	-75.8	-241.0	77.8	12.00	12.00	0.00	
12,700.0	49.32	179.43	12,634.6	-144.2	-240.3	146.2	12.00	12.00	0.00	
12,800.0	61.32	179.43	12,691.4	-226.3	-239.5	228.3	12.00	12.00	0.00	
12,900.0	73.32	179.43	12,729.9	-318.4	-238.6	320.4	12.00	12.00	0.00	
13,000.0	85.32	179.43	12,748.4	-416.5	-237.6	418.5	12.00	12.00	0.00	
13,039.0	90.00	179.43	12,750.0	-455.4	-237.3	457.4	12.00	12.00	0.00	
13,100.0	90.00	179.43	12,750.0	-516.5	-236.6	518.4	0.00	0.00	0.00	
13,200.0	90.00	179.43	12,750.0	-616.5	-235.6	618.4	0.00	0.00	0.00	
13,300.0	90.00	179.43	12,750.0	-716.5	-234.7	718.4	0.00	0.00	0.00	
13,400.0	90.00	179.43	12,750.0	-816.4	-233.7	818.4	0.00	0.00	0.00	
13,500.0	90.00	179.43	12,750.0	-916.4	-232.7	918.4	0.00	0.00	0.00	
13,600.0	90.00	179.43	12,750.0	-1,016.4	-231.7	1,018.3	0.00	0.00	0.00	
13,700.0	90.00	179.43	12,750.0	-1,116.4	-230.7	1,118.3	0.00	0.00	0.00	
13,800.0	90.00	179.43	12,750.0	-1,216.4	-229.7	1,218.3	0.00	0.00	0.00	
13,900.0	90.00	179.43	12,750.0	-1,316.4	-228.7	1,318.3	0.00	0.00	0.00	
14,000.0	90.00	179.43	12,750.0	-1,416.4	-227.7	1,418.3	0.00	0.00	0.00	
14,100.0	90.00	179.43	12,750.0	-1,516.4	-226.7	1,518.3	0.00	0.00	0.00	
14,200.0	90.00	179.43	12,750.0	-1,616.4	-225.7	1,618.2	0.00	0.00	0.00	
14,300.0	90.00	179.43	12,750.0	-1,716.4	-224.7	1,718.2	0.00	0.00	0.00	
14,400.0	90.00	179.43	12,750.0	-1,816.4	-223.7	1,818.2	0.00	0.00	0.00	
14,500.0	90.00	179.43	12,750.0	-1,916.4	-222.7	1,918.2	0.00	0.00	0.00	
14,600.0	90.00	179.43	12,750.0	-2,016.4	-221.7	2,018.2	0.00	0.00	0.00	
14,700.0	90.00	179.43	12,750.0	-2,116.4	-220.7	2,118.2	0.00	0.00	0.00	
14,800.0	90.00	179.43	12,750.0	-2,216.4	-219.7	2,218.1	0.00	0.00	0.00	
14,900.0	90.00	179.43	12,750.0	-2,316.4	-218.7	2,318.1	0.00	0.00	0.00	
15,000.0	90.00	179.43	12,750.0	-2,416.4	-217.7	2,418.1	0.00	0.00	0.00	
15,100.0	90.00	179.43	12,750.0	-2,516.4	-216.7	2,518.1	0.00	0.00	0.00	
15,200.0	90.00	179.43	12,750.0	-2,616.4	-215.8	2,618.1	0.00	0.00	0.00	
15,300.0	90.00	179.43	12,750.0	-2,716.4	-214.8	2,718.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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	179.43	12,750.0	-2,816.4	-213.8	2,818.0	0.00	0.00	0.00	
15,500.0	90.00	179.43	12,750.0	-2,916.3	-212.8	2,918.0	0.00	0.00	0.00	
15,600.0	90.00	179.43	12,750.0	-3,016.3	-211.8	3,018.0	0.00	0.00	0.00	
15,700.0	90.00	179.43	12,750.0	-3,116.3	-210.8	3,118.0	0.00	0.00	0.00	
15,800.0	90.00	179.43	12,750.0	-3,216.3	-209.8	3,218.0	0.00	0.00	0.00	
15,900.0	90.00	179.43	12,750.0	-3,316.3	-208.8	3,318.0	0.00	0.00	0.00	
16,000.0	90.00	179.43	12,750.0	-3,416.3	-207.8	3,417.9	0.00	0.00	0.00	
16,100.0	90.00	179.43	12,750.0	-3,516.3	-206.8	3,517.9	0.00	0.00	0.00	
16,200.0	90.00	179.43	12,750.0	-3,616.3	-205.8	3,617.9	0.00	0.00	0.00	
16,300.0	90.00	179.43	12,750.0	-3,716.3	-204.8	3,717.9	0.00	0.00	0.00	
16,400.0	90.00	179.43	12,750.0	-3,816.3	-203.8	3,817.9	0.00	0.00	0.00	
16,500.0	90.00	179.43	12,750.0	-3,916.3	-202.8	3,917.8	0.00	0.00	0.00	
16,600.0	90.00	179.43	12,750.0	-4,016.3	-201.8	4,017.8	0.00	0.00	0.00	
16,700.0	90.00	179.43	12,750.0	-4,116.3	-200.8	4,117.8	0.00	0.00	0.00	
16,800.0	90.00	179.43	12,750.0	-4,216.3	-199.8	4,217.8	0.00	0.00	0.00	
16,900.0	90.00	179.43	12,750.0	-4,316.3	-198.8	4,317.8	0.00	0.00	0.00	
17,000.0	90.00	179.43	12,750.0	-4,416.3	-197.8	4,417.8	0.00	0.00	0.00	
17,100.0	90.00	179.43	12,750.0	-4,516.3	-196.9	4,517.7	0.00	0.00	0.00	
17,200.0	90.00	179.43	12,750.0	-4,616.3	-195.9	4,617.7	0.00	0.00	0.00	
17,300.0	90.00	179.43	12,750.0	-4,716.3	-194.9	4,717.7	0.00	0.00	0.00	
17,400.0	90.00	179.43	12,750.0	-4,816.3	-193.9	4,817.7	0.00	0.00	0.00	
17,500.0	90.00	179.43	12,750.0	-4,916.2	-192.9	4,917.7	0.00	0.00	0.00	
17,600.0	90.00	179.43	12,750.0	-5,016.2	-191.9	5,017.7	0.00	0.00	0.00	
17,700.0	90.00	179.43	12,750.0	-5,116.2	-190.9	5,117.6	0.00	0.00	0.00	
17,800.0	90.00	179.43	12,750.0	-5,216.2	-189.9	5,217.6	0.00	0.00	0.00	
17,900.0	90.00	179.43	12,750.0	-5,316.2	-188.9	5,317.6	0.00	0.00	0.00	
18,000.0	90.00	179.43	12,750.0	-5,416.2	-187.9	5,417.6	0.00	0.00	0.00	
18,100.0	90.00	179.43	12,750.0	-5,516.2	-186.9	5,517.6	0.00	0.00	0.00	
18,200.0	90.00	179.43	12,750.0	-5,616.2	-185.9	5,617.6	0.00	0.00	0.00	
18,300.0	90.00	179.43	12,750.0	-5,716.2	-184.9	5,717.5	0.00	0.00	0.00	
18,400.0	90.00	179.43	12,750.0	-5,816.2	-183.9	5,817.5	0.00	0.00	0.00	
18,500.0	90.00	179.43	12,750.0	-5,916.2	-182.9	5,917.5	0.00	0.00	0.00	
18,600.0	90.00	179.43	12,750.0	-6,016.2	-181.9	6,017.5	0.00	0.00	0.00	
18,700.0	90.00	179.43	12,750.0	-6,116.2	-180.9	6,117.5	0.00	0.00	0.00	
18,800.0	90.00	179.43	12,750.0	-6,216.2	-179.9	6,217.5	0.00	0.00	0.00	
18,900.0	90.00	179.43	12,750.0	-6,316.2	-178.9	6,317.4	0.00	0.00	0.00	
19,000.0	90.00	179.43	12,750.0	-6,416.2	-177.9	6,417.4	0.00	0.00	0.00	
19,100.0	90.00	179.43	12,750.0	-6,516.2	-177.0	6,517.4	0.00	0.00	0.00	
19,200.0	90.00	179.43	12,750.0	-6,616.2	-176.0	6,617.4	0.00	0.00	0.00	
19,300.0	90.00	179.43	12,750.0	-6,716.2	-175.0	6,717.4	0.00	0.00	0.00	
19,400.0	90.00	179.43	12,750.0	-6,816.2	-174.0	6,817.4	0.00	0.00	0.00	
19,500.0	90.00	179.43	12,750.0	-6,916.1	-173.0	6,917.3	0.00	0.00	0.00	
19,600.0	90.00	179.43	12,750.0	-7,016.1	-172.0	7,017.3	0.00	0.00	0.00	
19,700.0	90.00	179.43	12,750.0	-7,116.1	-171.0	7,117.3	0.00	0.00	0.00	
19,800.0	90.00	179.43	12,750.0	-7,216.1	-170.0	7,217.3	0.00	0.00	0.00	
19,900.0	90.00	179.43	12,750.0	-7,316.1	-169.0	7,317.3	0.00	0.00	0.00	
20,000.0	90.00	179.43	12,750.0	-7,416.1	-168.0	7,417.3	0.00	0.00	0.00	
20,100.0	90.00	179.43	12,750.0	-7,516.1	-167.0	7,517.2	0.00	0.00	0.00	
20,200.0	90.00	179.43	12,750.0	-7,616.1	-166.0	7,617.2	0.00	0.00	0.00	
20,300.0	90.00	179.43	12,750.0	-7,716.1	-165.0	7,717.2	0.00	0.00	0.00	
20,400.0	90.00	179.43	12,750.0	-7,816.1	-164.0	7,817.2	0.00	0.00	0.00	
20,500.0	90.00	179.43	12,750.0	-7,916.1	-163.0	7,917.2	0.00	0.00	0.00	
20,600.0	90.00	179.43	12,750.0	-8,016.1	-162.0	8,017.2	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,700.0	90.00	179.43	12,750.0	-8,116.1	-161.0	8,117.1	0.00	0.00	0.00	
20,800.0	90.00	179.43	12,750.0	-8,216.1	-160.0	8,217.1	0.00	0.00	0.00	
20,900.0	90.00	179.43	12,750.0	-8,316.1	-159.0	8,317.1	0.00	0.00	0.00	
21,000.0	90.00	179.43	12,750.0	-8,416.1	-158.1	8,417.1	0.00	0.00	0.00	
21,100.0	90.00	179.43	12,750.0	-8,516.1	-157.1	8,517.1	0.00	0.00	0.00	
21,200.0	90.00	179.43	12,750.0	-8,616.1	-156.1	8,617.1	0.00	0.00	0.00	
21,300.0	90.00	179.43	12,750.0	-8,716.1	-155.1	8,717.0	0.00	0.00	0.00	
21,400.0	90.00	179.43	12,750.0	-8,816.1	-154.1	8,817.0	0.00	0.00	0.00	
21,500.0	90.00	179.43	12,750.0	-8,916.0	-153.1	8,917.0	0.00	0.00	0.00	
21,600.0	90.00	179.43	12,750.0	-9,016.0	-152.1	9,017.0	0.00	0.00	0.00	
21,700.0	90.00	179.43	12,750.0	-9,116.0	-151.1	9,117.0	0.00	0.00	0.00	
21,800.0	90.00	179.43	12,750.0	-9,216.0	-150.1	9,217.0	0.00	0.00	0.00	
21,900.0	90.00	179.43	12,750.0	-9,316.0	-149.1	9,316.9	0.00	0.00	0.00	
22,000.0	90.00	179.43	12,750.0	-9,416.0	-148.1	9,416.9	0.00	0.00	0.00	
22,100.0	90.00	179.43	12,750.0	-9,516.0	-147.1	9,516.9	0.00	0.00	0.00	
22,200.0	90.00	179.43	12,750.0	-9,616.0	-146.1	9,616.9	0.00	0.00	0.00	
22,300.0	90.00	179.43	12,750.0	-9,716.0	-145.1	9,716.9	0.00	0.00	0.00	
22,400.0	90.00	179.43	12,750.0	-9,816.0	-144.1	9,816.9	0.00	0.00	0.00	
22,500.0	90.00	179.43	12,750.0	-9,916.0	-143.1	9,916.8	0.00	0.00	0.00	
22,600.0	90.00	179.43	12,750.0	-10,016.0	-142.1	10,016.8	0.00	0.00	0.00	
22,700.0	90.00	179.43	12,750.0	-10,116.0	-141.1	10,116.8	0.00	0.00	0.00	
22,800.0	90.00	179.43	12,750.0	-10,216.0	-140.1	10,216.8	0.00	0.00	0.00	
22,900.0	90.00	179.43	12,750.0	-10,316.0	-139.2	10,316.8	0.00	0.00	0.00	
23,000.0	90.00	179.43	12,750.0	-10,416.0	-138.2	10,416.8	0.00	0.00	0.00	
23,100.0	90.00	179.43	12,750.0	-10,516.0	-137.2	10,516.7	0.00	0.00	0.00	
23,200.0	90.00	179.43	12,750.0	-10,616.0	-136.2	10,616.7	0.00	0.00	0.00	
23,300.0	90.00	179.43	12,750.0	-10,716.0	-135.2	10,716.7	0.00	0.00	0.00	
23,400.0	90.00	179.43	12,750.0	-10,816.0	-134.2	10,816.7	0.00	0.00	0.00	
23,500.0	90.00	179.43	12,750.0	-10,915.9	-133.2	10,916.7	0.00	0.00	0.00	
23,600.0	90.00	179.43	12,750.0	-11,015.9	-132.2	11,016.7	0.00	0.00	0.00	
23,700.0	90.00	179.43	12,750.0	-11,115.9	-131.2	11,116.6	0.00	0.00	0.00	
23,800.0	90.00	179.43	12,750.0	-11,215.9	-130.2	11,216.6	0.00	0.00	0.00	
23,900.0	90.00	179.43	12,750.0	-11,315.9	-129.2	11,316.6	0.00	0.00	0.00	
24,000.0	90.00	179.43	12,750.0	-11,415.9	-128.2	11,416.6	0.00	0.00	0.00	
24,100.0	90.00	179.43	12,750.0	-11,515.9	-127.2	11,516.6	0.00	0.00	0.00	
24,200.0	90.00	179.43	12,750.0	-11,615.9	-126.2	11,616.6	0.00	0.00	0.00	
24,300.0	90.00	179.43	12,750.0	-11,715.9	-125.2	11,716.5	0.00	0.00	0.00	
24,400.0	90.00	179.43	12,750.0	-11,815.9	-124.2	11,816.5	0.00	0.00	0.00	
24,500.0	90.00	179.43	12,750.0	-11,915.9	-123.2	11,916.5	0.00	0.00	0.00	
24,600.0	90.00	179.43	12,750.0	-12,015.9	-122.2	12,016.5	0.00	0.00	0.00	
24,700.0	90.00	179.43	12,750.0	-12,115.9	-121.2	12,116.5	0.00	0.00	0.00	
24,800.0	90.00	179.43	12,750.0	-12,215.9	-120.2	12,216.5	0.00	0.00	0.00	
24,900.0	90.00	179.43	12,750.0	-12,315.9	-119.3	12,316.4	0.00	0.00	0.00	
25,000.0	90.00	179.43	12,750.0	-12,415.9	-118.3	12,416.4	0.00	0.00	0.00	
25,100.0	90.00	179.43	12,750.0	-12,515.9	-117.3	12,516.4	0.00	0.00	0.00	
25,200.0	90.00	179.43	12,750.0	-12,615.9	-116.3	12,616.4	0.00	0.00	0.00	
25,300.0	90.00	179.43	12,750.0	-12,715.9	-115.3	12,716.4	0.00	0.00	0.00	
25,400.0	90.00	179.43	12,750.0	-12,815.9	-114.3	12,816.4	0.00	0.00	0.00	
25,500.0	90.00	179.43	12,750.0	-12,915.9	-113.3	12,916.3	0.00	0.00	0.00	
25,600.0	90.00	179.43	12,750.0	-13,015.8	-112.3	13,016.3	0.00	0.00	0.00	
25,700.0	90.00	179.43	12,750.0	-13,115.8	-111.3	13,116.3	0.00	0.00	0.00	
25,800.0	90.00	179.43	12,750.0	-13,215.8	-110.3	13,216.3	0.00	0.00	0.00	
25,810.0	90.00	179.43	12,750.0	-13,225.8	-110.2	13,226.3	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL_BOATER FED CO - plan misses target center by 200.6usft at 25810.0usft MD (12750.0 TVD, -13225.8 N, -110.2 E) - Rectangle (sides W100.0 H13,049.0 D20.0)	0.00	359.43	12,750.0	-13,426.4	-108.9	388,675.98	791,096.32	32° 3' 54.366 N	103° 23' 37.143 W
FTP_BOATER FED CO - plan misses target center by 6.2usft at 12962.6usft MD (12743.9 TVD, -379.4 N, -238.0 E) - Circle (radius 50.0)	0.00	0.00	12,750.0	-378.2	-238.1	401,724.22	790,967.04	32° 6' 3.493 N	103° 23' 37.324 W
LTP_BOATER FED COM - plan misses target center by 150.6usft at 25810.0usft MD (12750.0 TVD, -13225.8 N, -110.2 E) - Circle (radius 50.0)	90.00	179.43	12,750.0	-13,376.4	-109.4	388,725.98	791,095.81	32° 3' 54.861 N	103° 23' 37.144 W

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
25,810.0	12,750.0	5-1/2" Production Casing	5-1/2	6	

DELAWARE BASIN EAST

**LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 802H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	4/24/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	25,810.0	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
BOATER FED COM PROJECT						
_BOATER FED COM 601H - OWB - PWP0	2,455.5	2,450.8	29.9	16.6	2.243	Caution - Monitor Closely, CC
_BOATER FED COM 601H - OWB - PWP0	2,457.5	2,452.8	29.9	16.6	2.242	Caution - Monitor Closely, ES, SF
_BOATER FED COM 602H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.245	CC, ES, 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
_BOATER FED COM 701H - OWB - PWP0	20,724.0	20,514.5	296.0	176.2	2.471	Caution - Monitor Closely, SF
_BOATER FED COM 702H - OWB - PWP0	2,000.0	2,000.0	90.0	78.6	7.867	CC, ES
_BOATER FED COM 702H - OWB - PWP0	2,100.0	2,096.8	93.4	81.5	7.864	SF
_BOATER FED COM 703H - OWB - PWP0						Out of range
_BOATER FED COM 801H - OWB - PWP0	2,461.3	2,451.9	59.2	46.0	4.488	CC, ES
_BOATER FED COM 801H - OWB - PWP0	25,810.0	25,948.8	880.7	654.9	3.901	SF
_BOATER FED COM 803H - OWB - PWP0	24,510.0	24,780.6	863.4	658.2	4.208	CC
_BOATER FED COM 803H - OWB - PWP0	25,500.0	25,755.9	863.9	642.6	3.903	ES
_BOATER FED COM 803H - OWB - PWP0	25,810.0	26,043.7	875.9	650.0	3.877	SF
_BOATER FED COM 804H - OWB - PWP0						Out of range
_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	23,354.1	14,803.0	934.3	801.3	7.027	CC
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP	23,400.0	14,767.1	934.5	801.2	7.011	ES
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP	25,300.0	12,900.9	958.1	808.1	6.389	SF
CAVE LION 5 TB FEDERAL 008H - OWB - AWP	24,918.6	13,290.2	477.6	321.9	3.067	CC, ES
CAVE LION 5 TB FEDERAL 008H - OWB - AWP	25,200.0	13,018.4	482.6	324.0	3.044	SF
CAVE LION 5 TB FEDERAL 015H - OWB - AWP						Out of range
CAVE LION 5 WA FEDERAL 009H - OWB - AWP						Out of range
CAVE LION 5 WC FEDERAL 002H - OWB - AWP	25,810.0	12,885.9	164.7	56.7	1.525	Caution - Monitor Closely, CC, ES, SF
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP	22,652.7	15,723.0	264.1	140.8	2.142	Caution - Monitor Closely, CC
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP	22,700.0	15,677.6	264.2	140.7	2.138	Caution - Monitor Closely, ES, SF
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP	23,325.6	15,050.4	861.7	725.8	6.340	CC, ES
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP	25,700.0	12,652.0	885.7	730.2	5.696	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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
CAVE LION 5 FEDERAL (5H, 1H)						
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F	23,354.2	14,803.0	934.4	797.0	6.799	CC, ES
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F	25,300.0	12,901.0	958.2	808.2	6.387	SF
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,681.9	12,660.7	885.7	730.5	5.707	CC
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,700.0	12,652.0	885.7	730.4	5.703	ES, SF
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	23,325.4	15,050.4	859.8	726.0	6.427	CC, ES
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,700.0	12,652.0	885.7	730.4	5.703	SF
CHARLIE MURPHY 6 FC (18H, 15H, 14H, 12H)						
CHARLIE MURPHY 6 TB FC 14H (MRO) - CHARLIE MU						Out of range
CHARLIE MURPHY 6 WXY FC 12H (MRO) - CHARLIE M						Out of range
CHARLIE MURPHY 6 WXY FC 18H (MRO) - CHARLIE M						Out of range
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
GREEN BERET FED COM #501H - OWB - AWP						Out of range
GREEN BERET FED COM #603H - OWB - AWP	12,309.6	19,667.0	707.5	621.3	8.205	CC, ES
GREEN BERET FED COM #603H - OWB - AWP	12,325.0	19,667.9	707.7	621.4	8.205	SF
GREEN BERET FED COM #702H - OWB - AWP						Out of range
GREEN BERET FED COM #703H - OWB - AWP						Out of range
GREEN BERET FED COM #704H - OWB - AWP	12,574.8	20,103.4	281.1	193.9	3.225	CC
GREEN BERET FED COM #704H - OWB - AWP	12,575.0	20,103.5	281.1	193.9	3.225	ES
GREEN BERET FED COM #704H - OWB - AWP	12,600.0	20,117.5	281.8	194.4	3.225	SF
GREEN BERET FED COM #705H - OWB - AWP	12,736.9	20,073.0	528.0	442.4	6.171	CC
GREEN BERET FED COM #705H - OWB - AWP	12,750.0	20,073.0	528.1	442.3	6.152	ES
GREEN BERET FED COM #705H - OWB - AWP	12,800.0	20,073.0	531.1	444.4	6.125	SF
GREEN BERET FED COM #802H - OWB - AWP	12,800.0	20,493.0	159.8	70.5	1.789	Caution - Monitor Closely, SF
GREEN BERET FED COM #802H - OWB - AWP	12,813.7	20,493.0	159.2	70.3	1.791	Caution - Monitor Closely, CC, ES
PITCHBLENDE FEDERAL PROJECT						
PITCHBLENDE 19 30 FEDERAL #208H - OWB - AWP						Out of range
PITCHBLENDE 19 30 FEDERAL #358H - OWB - AWP						Out of range
SQUARE BILL FED COM #1H - OWB - AWP						Out of range
SQUARE BILL FED COM #21Y - OWB - AWP						Out of range
SQUARE BILL FED COM #22H - OWB - AWP						Out of range
SQUARE BILL FED COM #23H - OWB (PH) - AWP						Out of range
SQUARE BILL FED COM #23H - ST01 - 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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.40	-0.2	-30.0	30.0				
100.0	100.0	100.0	100.0	0.8	0.8	-90.40	-0.2	-30.0	30.0	28.0	1.99	15.066	
200.0	200.0	200.0	200.0	1.4	1.4	-90.40	-0.2	-30.0	30.0	26.7	3.31	9.059	
300.0	300.0	300.0	300.0	1.9	1.9	-90.40	-0.2	-30.0	30.0	25.8	4.20	7.151	
400.0	400.0	400.0	400.0	2.2	2.2	-90.40	-0.2	-30.0	30.0	25.1	4.91	6.108	
500.0	500.0	500.0	500.0	2.6	2.6	-90.40	-0.2	-30.0	30.0	24.5	5.53	5.422	
600.0	600.0	600.0	600.0	2.8	2.8	-90.40	-0.2	-30.0	30.0	23.9	6.09	4.926	

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 802H - Slot BOATER FED COM 802H
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 802H	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		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)					
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	2.622	Normal Operations		
2,100.0	2,100.0	2,099.0	2,098.9	5.8	5.8	-5.82	-0.2	-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	-6.49	-0.1	-36.8	30.0	17.7	12.30	2.435	Caution - Monitor Closely		
2,300.0	2,299.5	2,296.9	2,296.4	6.2	6.3	-7.60	0.1	-45.4	29.9	17.2	12.72	2.352	Caution - Monitor Closely		
2,400.0	2,398.7	2,395.9	2,394.6	6.4	6.5	-9.17	0.4	-57.3	29.9	16.7	13.15	2.274	Caution - Monitor Closely		
2,455.5	2,453.6	2,450.8	2,449.0	6.5	6.7	-10.23	0.6	-65.4	29.9	16.6	13.32	2.243	Caution - Monitor Closely, CC		
2,457.5	2,455.6	2,452.8	2,450.9	6.5	6.7	-10.27	0.6	-65.7	29.9	16.6	13.33	2.242	Caution - Monitor Closely, ES, SF		
2,500.0	2,497.5	2,494.8	2,492.4	6.5	6.8	-11.05	0.8	-72.6	30.2	16.8	13.45	2.246	Caution - Monitor Closely		
2,600.0	2,596.3	2,593.7	2,589.4	6.6	7.1	-12.17	1.2	-91.3	33.5	19.6	13.83	2.419	Caution - Monitor Closely		
2,700.0	2,695.0	2,692.8	2,686.1	6.8	7.3	-12.37	1.7	-113.0	39.8	25.7	14.15	2.815	Normal Operations		
2,800.0	2,793.7	2,792.5	2,783.3	6.9	7.6	-12.40	2.3	-135.5	46.8	32.2	14.58	3.209			
2,900.0	2,892.5	2,892.3	2,880.5	7.1	7.9	-12.43	2.8	-158.0	53.7	38.7	15.04	3.573			
3,000.0	2,991.2	2,992.1	2,977.7	7.2	8.2	-12.45	3.3	-180.5	60.7	45.2	15.52	3.911			
3,100.0	3,090.0	3,091.8	3,074.9	7.4	8.5	-12.47	3.8	-203.0	67.6	51.6	16.02	4.223			
3,200.0	3,188.7	3,191.6	3,172.1	7.5	8.9	-12.48	4.4	-225.5	74.6	58.1	16.53	4.511			
3,300.0	3,287.4	3,291.3	3,269.3	7.7	9.2	-12.49	4.9	-248.0	81.5	64.5	17.07	4.775			
3,305.4	3,292.7	3,296.7	3,274.5	7.7	9.2	-12.49	4.9	-249.2	81.9	64.8	17.10	4.789			
3,400.0	3,386.3	3,391.0	3,366.4	7.8	9.6	-12.41	5.4	-270.4	89.2	71.6	17.62	5.066			
3,500.0	3,485.4	3,490.6	3,463.4	8.0	10.0	-12.12	5.9	-292.9	98.7	80.5	18.18	5.426			
3,600.0	3,584.7	3,590.0	3,560.2	8.1	10.3	-11.71	6.4	-315.3	109.8	91.0	18.76	5.851			
3,700.0	3,684.2	3,689.1	3,656.8	8.3	10.7	-11.22	7.0	-337.6	122.6	103.2	19.35	6.336			
3,800.0	3,783.9	3,788.1	3,753.2	8.4	11.1	-10.69	7.5	-359.9	137.1	117.2	19.94	6.876			
3,900.0	3,883.7	3,886.7	3,849.3	8.6	11.5	-10.15	8.0	-382.1	153.3	132.8	20.54	7.465			
4,000.0	3,983.6	3,985.1	3,945.2	8.7	11.9	-9.62	8.5	-404.3	171.3	150.1	21.14	8.101			
4,100.0	4,083.5	4,083.1	4,040.7	8.9	12.4	-9.11	9.0	-426.4	190.9	169.2	21.74	8.780			
4,200.0	4,183.5	4,180.8	4,135.8	9.0	12.8	-8.64	9.6	-448.4	212.3	189.9	22.34	9.500			
4,216.5	4,200.0	4,196.9	4,151.5	9.0	12.8	-93.37	9.6	-452.0	215.9	193.5	22.43	9.626			
4,300.0	4,283.5	4,278.2	4,230.8	9.1	13.2	-92.99	10.1	-470.4	234.7	211.8	22.91	10.243			
4,400.0	4,383.5	4,375.7	4,325.7	9.2	13.6	-92.61	10.6	-492.3	257.2	233.7	23.49	10.947			
4,500.0	4,483.5	4,473.1	4,420.6	9.3	14.0	-92.29	11.1	-514.3	279.7	255.6	24.08	11.615			
4,600.0	4,583.5	4,570.5	4,515.5	9.4	14.5	-92.02	11.6	-536.3	302.2	277.5	24.67	12.249			
4,700.0	4,683.5	4,667.9	4,610.4	9.5	14.9	-91.79	12.1	-558.2	324.7	299.4	25.27	12.852			
4,800.0	4,783.5	4,765.4	4,705.3	9.6	15.3	-91.59	12.6	-580.2	347.2	321.4	25.87	13.424			
4,900.0	4,883.5	4,862.8	4,800.3	9.7	15.8	-91.41	13.1	-602.1	369.7	343.3	26.47	13.969			
5,000.0	4,983.5	4,960.2	4,895.2	9.8	16.2	-91.25	13.7	-624.1	392.3	365.2	27.08	14.488			
5,100.0	5,083.5	5,057.6	4,990.1	9.9	16.6	-91.11	14.2	-646.1	414.8	387.1	27.69	14.982			
5,200.0	5,183.5	5,155.1	5,085.0	10.0	17.1	-90.98	14.7	-668.0	437.3	409.0	28.30	15.452			
5,300.0	5,283.5	5,252.5	5,179.9	10.1	17.5	-90.87	15.2	-690.0	459.8	430.9	28.91	15.905			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,400.0	5,383.5	5,356.2	5,281.1	10.2	18.0	-90.76	15.7	-712.9	481.9	452.4	29.57	16.298			
5,500.0	5,483.5	5,463.3	5,385.9	10.2	18.4	-90.67	16.2	-734.7	502.3	472.0	30.25	16.606			
5,600.0	5,583.5	5,571.2	5,491.9	10.3	18.9	-90.59	16.7	-754.6	520.8	489.9	30.91	16.851			
5,700.0	5,683.5	5,679.8	5,599.1	10.4	19.4	-90.53	17.1	-772.7	537.4	505.9	31.55	17.036			
5,800.0	5,783.5	5,789.1	5,707.1	10.5	19.9	-90.47	17.5	-788.9	552.2	520.0	32.17	17.166			
5,900.0	5,883.5	5,899.0	5,816.1	10.6	20.3	-90.43	17.8	-803.0	565.1	532.3	32.77	17.245			
6,000.0	5,983.5	6,009.4	5,925.8	10.7	20.7	-90.39	18.1	-815.2	576.1	542.7	33.34	17.278			
6,100.0	6,083.5	6,120.2	6,036.2	10.8	21.2	-90.36	18.4	-825.2	585.1	551.2	33.88	17.269			
6,200.0	6,183.5	6,231.3	6,147.1	10.9	21.6	-90.34	18.5	-833.1	592.3	557.9	34.39	17.222			
6,300.0	6,283.5	6,342.8	6,258.3	11.0	21.9	-90.32	18.7	-838.9	597.4	562.6	34.85	17.142			
6,400.0	6,383.5	6,454.4	6,369.9	11.1	22.3	-90.31	18.8	-842.5	600.7	565.4	35.26	17.036			
6,500.0	6,483.5	6,566.1	6,481.6	11.2	22.5	-90.31	18.8	-844.0	602.0	566.5	35.51	16.951			
6,600.0	6,583.5	6,668.0	6,583.5	11.3	22.6	-90.31	18.8	-844.0	602.0	566.4	35.63	16.894			
6,700.0	6,683.5	6,768.0	6,683.5	11.4	22.6	-90.31	18.8	-844.0	602.0	566.3	35.74	16.842			
6,800.0	6,783.5	6,868.0	6,783.5	11.4	22.6	-90.31	18.8	-844.0	602.0	566.2	35.85	16.792			
6,900.0	6,883.5	6,968.0	6,883.5	11.5	22.7	-90.31	18.8	-844.0	602.0	566.1	35.96	16.742			
7,000.0	6,983.5	7,068.0	6,983.5	11.6	22.7	-90.31	18.8	-844.0	602.0	565.9	36.06	16.692			
7,100.0	7,083.5	7,168.0	7,083.5	11.7	22.8	-90.31	18.8	-844.0	602.0	565.8	36.17	16.643			
7,200.0	7,183.5	7,268.0	7,183.5	11.8	22.8	-90.31	18.8	-844.0	602.0	565.7	36.28	16.593			
7,300.0	7,283.5	7,368.0	7,283.5	11.9	22.8	-90.31	18.8	-844.0	602.0	565.6	36.39	16.543			
7,400.0	7,383.5	7,468.0	7,383.5	12.0	22.9	-90.31	18.8	-844.0	602.0	565.5	36.50	16.494			
7,500.0	7,483.5	7,568.0	7,483.5	12.1	22.9	-90.31	18.8	-844.0	602.0	565.4	36.61	16.445			
7,600.0	7,583.5	7,668.0	7,583.5	12.2	23.0	-90.31	18.8	-844.0	602.0	565.3	36.72	16.396			
7,700.0	7,683.5	7,768.0	7,683.5	12.3	23.0	-90.31	18.8	-844.0	602.0	565.2	36.83	16.347			
7,800.0	7,783.5	7,868.0	7,783.5	12.4	23.0	-90.31	18.8	-844.0	602.0	565.1	36.94	16.298			
7,900.0	7,883.5	7,968.0	7,883.5	12.4	23.1	-90.31	18.8	-844.0	602.0	565.0	37.05	16.249			
8,000.0	7,983.5	8,068.0	7,983.5	12.5	23.1	-90.31	18.8	-844.0	602.0	564.8	37.16	16.200			
8,100.0	8,083.5	8,168.0	8,083.5	12.6	23.2	-90.31	18.8	-844.0	602.0	564.7	37.27	16.152			
8,200.0	8,183.5	8,268.0	8,183.5	12.7	23.2	-90.31	18.8	-844.0	602.0	564.6	37.38	16.103			
8,300.0	8,283.5	8,368.0	8,283.5	12.8	23.3	-90.31	18.8	-844.0	602.0	564.5	37.50	16.055			
8,400.0	8,383.5	8,468.0	8,383.5	12.9	23.3	-90.31	18.8	-844.0	602.0	564.4	37.61	16.007			
8,500.0	8,483.5	8,568.0	8,483.5	13.0	23.3	-90.31	18.8	-844.0	602.0	564.3	37.72	15.959			
8,600.0	8,583.5	8,668.0	8,583.5	13.1	23.4	-90.31	18.8	-844.0	602.0	564.2	37.84	15.911			
8,700.0	8,683.5	8,768.0	8,683.5	13.2	23.4	-90.31	18.8	-844.0	602.0	564.1	37.95	15.864			
8,800.0	8,783.5	8,868.0	8,783.5	13.3	23.5	-90.31	18.8	-844.0	602.0	563.9	38.06	15.816			
8,900.0	8,883.5	8,968.0	8,883.5	13.3	23.5	-90.31	18.8	-844.0	602.0	563.8	38.18	15.769			
9,000.0	8,983.5	9,068.0	8,983.5	13.4	23.6	-90.31	18.8	-844.0	602.0	563.7	38.29	15.721			
9,100.0	9,083.5	9,168.0	9,083.5	13.5	23.6	-90.31	18.8	-844.0	602.0	563.6	38.41	15.674			
9,200.0	9,183.5	9,268.0	9,183.5	13.6	23.6	-90.31	18.8	-844.0	602.0	563.5	38.52	15.627			
9,300.0	9,283.5	9,368.0	9,283.5	13.7	23.7	-90.31	18.8	-844.0	602.0	563.4	38.64	15.580			
9,400.0	9,383.5	9,468.0	9,383.5	13.8	23.7	-90.31	18.8	-844.0	602.0	563.3	38.75	15.534			
9,500.0	9,483.5	9,568.0	9,483.5	13.9	23.8	-90.31	18.8	-844.0	602.0	563.1	38.87	15.487			
9,600.0	9,583.5	9,668.0	9,583.5	14.0	23.8	-90.31	18.8	-844.0	602.0	563.0	38.99	15.441			
9,700.0	9,683.5	9,768.0	9,683.5	14.1	23.9	-90.31	18.8	-844.0	602.0	562.9	39.11	15.395			
9,800.0	9,783.5	9,868.0	9,783.5	14.1	23.9	-90.31	18.8	-844.0	602.0	562.8	39.22	15.348			
9,900.0	9,883.5	9,968.0	9,883.5	14.2	24.0	-90.31	18.8	-844.0	602.0	562.7	39.34	15.303			
10,000.0	9,983.5	10,068.0	9,983.5	14.3	24.0	-90.31	18.8	-844.0	602.0	562.5	39.46	15.257			
10,100.0	10,083.5	10,168.0	10,083.5	14.4	24.1	-90.31	18.8	-844.0	602.0	562.4	39.58	15.211			
10,200.0	10,183.5	10,268.0	10,183.5	14.5	24.1	-90.31	18.8	-844.0	602.0	562.3	39.70	15.166			
10,300.0	10,283.5	10,368.0	10,283.5	14.6	24.1	-90.31	18.8	-844.0	602.0	562.2	39.81	15.120			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 601H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,400.0	10,383.5	10,468.0	10,383.5	14.7	24.2	-90.31	18.8	-844.0	602.0	562.1	39.93	15.075		
10,500.0	10,483.5	10,568.0	10,483.5	14.8	24.2	-90.31	18.8	-844.0	602.0	562.0	40.05	15.030		
10,600.0	10,583.5	10,668.0	10,583.5	14.8	24.3	-90.31	18.8	-844.0	602.0	561.8	40.17	14.985		
10,700.0	10,683.5	10,768.0	10,683.5	14.9	24.3	-90.31	18.8	-844.0	602.0	561.7	40.29	14.941		
10,800.0	10,783.5	10,868.0	10,783.5	15.0	24.4	-90.31	18.8	-844.0	602.0	561.6	40.41	14.896		
10,900.0	10,883.5	10,968.0	10,883.5	15.1	24.4	-90.31	18.8	-844.0	602.0	561.5	40.53	14.852		
11,000.0	10,983.5	11,068.0	10,983.5	15.2	24.5	-90.31	18.8	-844.0	602.0	561.4	40.65	14.808		
11,100.0	11,083.5	11,168.0	11,083.5	15.3	24.5	-90.31	18.8	-844.0	602.0	561.2	40.78	14.764		
11,200.0	11,183.5	11,268.0	11,183.5	15.4	24.6	-90.31	18.8	-844.0	602.0	561.1	40.90	14.720		
11,300.0	11,283.5	11,368.0	11,283.5	15.5	24.6	-90.31	18.8	-844.0	602.0	561.0	41.02	14.676		
11,400.0	11,383.5	11,468.0	11,383.5	15.5	24.7	-90.31	18.8	-844.0	602.0	560.9	41.14	14.633		
11,500.0	11,483.5	11,568.0	11,483.5	15.6	24.7	-90.31	18.8	-844.0	602.0	560.7	41.26	14.589		
11,600.0	11,583.5	11,668.0	11,583.5	15.7	24.8	-90.31	18.8	-844.0	602.0	560.6	41.39	14.546		
11,700.0	11,683.5	11,768.0	11,683.5	15.8	24.8	-90.31	18.8	-844.0	602.0	560.5	41.51	14.503		
11,800.0	11,783.5	11,868.0	11,783.5	15.9	24.9	-90.31	18.8	-844.0	602.0	560.4	41.63	14.460		
11,900.0	11,883.5	11,968.0	11,883.5	16.0	24.9	-90.31	18.8	-844.0	602.0	560.3	41.75	14.419		
11,969.2	11,952.7	12,037.3	11,952.7	16.0	24.9	-90.56	16.1	-844.0	602.0	560.2	41.80	14.403		
12,000.0	11,983.5	12,067.7	11,982.8	16.1	24.9	-90.95	12.0	-843.9	602.0	560.2	41.81	14.399		
12,100.0	12,083.5	12,160.9	12,072.6	16.2	24.9	-93.28	-12.5	-843.7	602.8	560.9	41.88	14.392		
12,200.0	12,183.5	12,242.2	12,145.7	16.2	24.9	-96.62	-47.8	-843.4	606.6	564.5	42.06	14.422		
12,289.0	12,272.5	12,303.1	12,196.0	16.3	24.9	-99.82	-82.0	-843.0	614.7	572.4	42.38	14.504		
12,300.0	12,283.5	12,310.0	12,201.4	16.3	24.9	80.19	-86.3	-843.0	616.1	573.7	42.43	14.521		
12,325.0	12,308.5	12,325.0	12,213.0	16.3	24.9	78.96	-95.9	-842.9	619.5	577.0	42.56	14.558		
12,350.0	12,333.4	12,340.8	12,224.8	16.3	24.9	77.69	-106.4	-842.8	623.1	580.4	42.69	14.597		
12,375.0	12,358.1	12,356.0	12,235.9	16.3	24.9	76.46	-116.9	-842.7	626.9	584.1	42.84	14.633		
12,400.0	12,382.5	12,371.2	12,246.5	16.3	24.9	75.24	-127.6	-842.6	630.9	587.9	43.01	14.667		
12,425.0	12,406.7	12,386.2	12,256.8	16.3	24.9	74.05	-138.6	-842.5	635.0	591.8	43.21	14.698		
12,450.0	12,430.5	12,400.0	12,265.9	16.2	24.9	72.94	-148.9	-842.4	639.2	595.8	43.42	14.720		
12,475.0	12,453.9	12,415.9	12,276.0	16.2	24.9	71.76	-161.2	-842.2	643.5	599.9	43.63	14.748		
12,500.0	12,476.7	12,430.7	12,285.0	16.2	24.9	70.66	-172.9	-842.1	647.8	604.0	43.87	14.767		
12,525.0	12,499.0	12,445.4	12,293.6	16.2	24.9	69.60	-184.8	-842.0	652.1	608.0	44.12	14.781		
12,550.0	12,520.7	12,460.0	12,301.8	16.2	24.9	68.57	-196.9	-841.9	656.4	612.1	44.38	14.792		
12,575.0	12,541.7	12,475.0	12,309.9	16.2	24.9	67.58	-209.6	-841.8	660.7	616.1	44.64	14.801		
12,600.0	12,562.0	12,489.0	12,317.0	16.2	24.9	66.66	-221.7	-841.7	664.9	620.0	44.92	14.802		
12,625.0	12,581.5	12,500.0	12,322.3	16.2	24.9	65.87	-231.3	-841.6	669.0	623.7	45.23	14.790		
12,650.0	12,600.1	12,517.9	12,330.6	16.2	24.9	64.92	-247.1	-841.4	672.9	627.5	45.48	14.798		
12,675.0	12,617.8	12,532.2	12,336.7	16.2	24.9	64.13	-260.1	-841.3	676.7	631.0	45.76	14.791		
12,700.0	12,634.6	12,550.0	12,343.8	16.2	24.9	63.30	-276.4	-841.1	680.4	634.4	46.00	14.790		
12,725.0	12,650.4	12,560.9	12,347.8	16.2	25.0	62.69	-286.5	-841.0	683.9	637.6	46.31	14.768		
12,750.0	12,665.2	12,575.0	12,352.7	16.2	25.0	62.05	-299.7	-840.9	687.2	640.6	46.58	14.753		
12,775.0	12,678.8	12,589.3	12,357.3	16.2	25.0	61.46	-313.3	-840.8	690.2	643.4	46.84	14.737		
12,800.0	12,691.4	12,600.0	12,360.4	16.3	25.0	60.97	-323.5	-840.7	693.1	646.0	47.11	14.712		
12,825.0	12,702.8	12,617.7	12,365.1	16.3	25.0	60.43	-340.6	-840.5	695.7	648.3	47.33	14.697		
12,850.0	12,713.1	12,631.9	12,368.4	16.3	25.0	60.00	-354.4	-840.4	698.0	650.4	47.56	14.676		
12,875.0	12,722.1	12,650.0	12,372.1	16.3	25.0	59.57	-372.1	-840.2	700.1	652.3	47.77	14.656		
12,900.0	12,729.9	12,660.1	12,373.8	16.3	25.0	59.29	-382.1	-840.1	701.9	653.9	47.98	14.628		
12,925.0	12,736.4	12,675.0	12,375.9	16.3	25.1	59.01	-396.8	-840.0	703.4	655.2	48.17	14.603		
12,950.0	12,741.7	12,688.4	12,377.5	16.4	25.1	58.79	-410.1	-839.8	704.7	656.3	48.34	14.577		
12,975.0	12,745.7	12,700.0	12,378.5	16.4	25.1	58.63	-421.7	-839.7	705.6	657.1	48.49	14.552		
13,000.0	12,748.4	12,716.5	12,379.5	16.4	25.1	58.50	-438.2	-839.6	706.3	657.6	48.63	14.524		
13,025.0	12,749.8	12,730.6	12,379.9	16.4	25.1	58.44	-452.3	-839.4	706.6	657.9	48.75	14.496		

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 802H - Slot BOATER FED COM 802H
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 802H	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		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
13,039.0	12,750.0	12,739.7	12,380.0	16.4	25.1	58.43	-461.3	-839.3	706.7	657.9	48.81	14.480			
13,100.0	12,750.0	12,800.7	12,380.0	16.5	25.2	58.43	-522.3	-838.7	706.7	657.6	49.14	14.380			
13,200.0	12,750.0	12,900.7	12,380.0	16.7	25.4	58.43	-622.3	-837.8	706.7	657.0	49.75	14.205			
13,300.0	12,750.0	13,000.7	12,380.0	17.0	25.6	58.43	-722.3	-836.8	706.8	656.3	50.41	14.020			
13,400.0	12,750.0	13,100.7	12,380.0	17.3	25.9	58.43	-822.3	-835.8	706.8	655.7	51.11	13.827			
13,500.0	12,750.0	13,200.7	12,380.0	17.6	26.2	58.43	-922.3	-834.8	706.8	654.9	51.86	13.628			
13,600.0	12,750.0	13,300.7	12,380.0	17.9	26.5	58.43	-1,022.3	-833.9	706.8	654.2	52.65	13.424			
13,700.0	12,750.0	13,400.7	12,380.0	18.3	26.9	58.44	-1,122.3	-832.9	706.8	653.3	53.49	13.215			
13,800.0	12,750.0	13,500.7	12,380.0	18.8	27.2	58.44	-1,222.3	-831.9	706.8	652.5	54.36	13.004			
13,900.0	12,750.0	13,600.7	12,380.0	19.2	27.7	58.44	-1,322.3	-831.0	706.9	651.6	55.27	12.790			
14,000.0	12,750.0	13,700.7	12,380.0	19.7	28.1	58.44	-1,422.3	-830.0	706.9	650.7	56.21	12.576			
14,100.0	12,750.0	13,800.7	12,380.0	20.2	28.6	58.44	-1,522.3	-829.0	706.9	649.7	57.19	12.361			
14,200.0	12,750.0	13,900.7	12,380.0	20.7	29.1	58.44	-1,622.3	-828.0	706.9	648.7	58.19	12.148			
14,300.0	12,750.0	14,000.7	12,380.0	21.3	29.6	58.44	-1,722.3	-827.1	706.9	647.7	59.23	11.935			
14,400.0	12,750.0	14,100.7	12,380.0	21.9	30.1	58.44	-1,822.3	-826.1	707.0	646.7	60.30	11.724			
14,500.0	12,750.0	14,200.7	12,380.0	22.5	30.7	58.44	-1,922.3	-825.1	707.0	645.6	61.40	11.515			
14,600.0	12,750.0	14,300.7	12,380.0	23.1	31.3	58.44	-2,022.3	-824.1	707.0	644.5	62.52	11.309			
14,700.0	12,750.0	14,400.7	12,380.0	23.7	31.9	58.44	-2,122.2	-823.2	707.0	643.4	63.66	11.106			
14,800.0	12,750.0	14,500.7	12,380.0	24.3	32.5	58.45	-2,222.2	-822.2	707.0	642.2	64.83	10.906			
14,900.0	12,750.0	14,600.7	12,380.0	25.0	33.1	58.45	-2,322.2	-821.2	707.1	641.0	66.02	10.710			
15,000.0	12,750.0	14,700.7	12,380.0	25.6	33.8	58.45	-2,422.2	-820.3	707.1	639.8	67.23	10.518			
15,100.0	12,750.0	14,800.7	12,380.0	26.3	34.4	58.45	-2,522.2	-819.3	707.1	638.6	68.46	10.329			
15,200.0	12,750.0	14,900.7	12,380.0	27.0	35.1	58.45	-2,622.2	-818.3	707.1	637.4	69.70	10.144			
15,300.0	12,750.0	15,000.7	12,380.0	27.7	35.8	58.45	-2,722.2	-817.3	707.1	636.2	70.97	9.964			
15,400.0	12,750.0	15,100.7	12,380.0	28.4	36.5	58.45	-2,822.2	-816.4	707.1	634.9	72.25	9.787			
15,500.0	12,750.0	15,200.7	12,380.0	29.1	37.2	58.45	-2,922.2	-815.4	707.2	633.6	73.55	9.615			
15,600.0	12,750.0	15,300.7	12,380.0	29.8	37.9	58.45	-3,022.2	-814.4	707.2	632.3	74.86	9.447			
15,700.0	12,750.0	15,400.7	12,380.0	30.6	38.7	58.45	-3,122.2	-813.4	707.2	631.0	76.19	9.282			
15,800.0	12,750.0	15,500.7	12,380.0	31.3	39.4	58.46	-3,222.2	-812.5	707.2	629.7	77.53	9.122			
15,900.0	12,750.0	15,600.7	12,380.0	32.0	40.2	58.46	-3,322.2	-811.5	707.2	628.4	78.88	8.966			
16,000.0	12,750.0	15,700.7	12,380.0	32.8	40.9	58.46	-3,422.2	-810.5	707.3	627.0	80.25	8.814			
16,100.0	12,750.0	15,800.7	12,380.0	33.5	41.7	58.46	-3,522.2	-809.6	707.3	625.7	81.62	8.665			
16,200.0	12,750.0	15,900.7	12,380.0	34.3	42.5	58.46	-3,622.2	-808.6	707.3	624.3	83.01	8.521			
16,300.0	12,750.0	16,000.7	12,380.0	35.0	43.3	58.46	-3,722.2	-807.6	707.3	622.9	84.41	8.380			
16,400.0	12,750.0	16,100.7	12,380.0	35.8	44.1	58.46	-3,822.2	-806.6	707.3	621.5	85.81	8.243			
16,500.0	12,750.0	16,200.7	12,380.0	36.6	44.9	58.46	-3,922.2	-805.7	707.3	620.1	87.23	8.109			
16,600.0	12,750.0	16,300.7	12,380.0	37.3	45.7	58.46	-4,022.2	-804.7	707.4	618.7	88.66	7.979			
16,700.0	12,750.0	16,400.7	12,380.0	38.1	46.5	58.46	-4,122.2	-803.7	707.4	617.3	90.09	7.852			
16,800.0	12,750.0	16,500.7	12,380.0	38.9	47.3	58.47	-4,222.1	-802.7	707.4	615.9	91.53	7.729			
16,900.0	12,750.0	16,600.7	12,380.0	39.7	48.1	58.47	-4,322.1	-801.8	707.4	614.4	92.98	7.608			
17,000.0	12,750.0	16,700.7	12,380.0	40.5	49.0	58.47	-4,422.1	-800.8	707.4	613.0	94.44	7.491			
17,100.0	12,750.0	16,800.7	12,380.0	41.3	49.8	58.47	-4,522.1	-799.8	707.5	611.6	95.90	7.377			
17,200.0	12,750.0	16,900.7	12,380.0	42.1	50.6	58.47	-4,622.1	-798.9	707.5	610.1	97.37	7.266			
17,300.0	12,750.0	17,000.7	12,380.0	42.8	51.5	58.47	-4,722.1	-797.9	707.5	608.6	98.85	7.157			
17,400.0	12,750.0	17,100.7	12,380.0	43.6	52.3	58.47	-4,822.1	-796.9	707.5	607.2	100.33	7.052			
17,500.0	12,750.0	17,200.7	12,380.0	44.4	53.2	58.47	-4,922.1	-795.9	707.5	605.7	101.82	6.949			
17,600.0	12,750.0	17,300.7	12,380.0	45.2	54.0	58.47	-5,022.1	-795.0	707.6	604.2	103.32	6.848			
17,700.0	12,750.0	17,400.7	12,380.0	46.0	54.9	58.47	-5,122.1	-794.0	707.6	602.8	104.82	6.751			
17,800.0	12,750.0	17,500.7	12,380.0	46.9	55.8	58.47	-5,222.1	-793.0	707.6	601.3	106.32	6.655			
17,900.0	12,750.0	17,600.7	12,380.0	47.7	56.6	58.48	-5,322.1	-792.0	707.6	599.8	107.83	6.562			

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 802H - Slot BOATER FED COM 802H
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 802H	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		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)				
18,000.0	12,750.0	17,700.7	12,380.0	48.5	57.5	58.48	-5,422.1	-791.1	707.6	598.3	109.35	6.471		
18,100.0	12,750.0	17,800.7	12,380.0	49.3	58.4	58.48	-5,522.1	-790.1	707.6	596.8	110.87	6.383		
18,200.0	12,750.0	17,900.7	12,380.0	50.1	59.2	58.48	-5,622.1	-789.1	707.7	595.3	112.39	6.297		
18,300.0	12,750.0	18,000.7	12,380.0	50.9	60.1	58.48	-5,722.1	-788.2	707.7	593.8	113.92	6.212		
18,400.0	12,750.0	18,100.7	12,380.0	51.7	61.0	58.48	-5,822.1	-787.2	707.7	592.3	115.45	6.130		
18,500.0	12,750.0	18,200.7	12,380.0	52.5	61.9	58.48	-5,922.1	-786.2	707.7	590.7	116.98	6.050		
18,600.0	12,750.0	18,300.7	12,380.0	53.4	62.8	58.48	-6,022.1	-785.2	707.7	589.2	118.52	5.971		
18,700.0	12,750.0	18,400.7	12,380.0	54.2	63.7	58.48	-6,122.1	-784.3	707.8	587.7	120.07	5.895		
18,800.0	12,750.0	18,500.7	12,380.0	55.0	64.5	58.48	-6,222.1	-783.3	707.8	586.2	121.61	5.820		
18,900.0	12,750.0	18,600.7	12,380.0	55.8	65.4	58.49	-6,322.0	-782.3	707.8	584.6	123.16	5.747		
19,000.0	12,750.0	18,700.7	12,380.0	56.6	66.3	58.49	-6,422.0	-781.3	707.8	583.1	124.71	5.675		
19,100.0	12,750.0	18,800.7	12,380.0	57.5	67.2	58.49	-6,522.0	-780.4	707.8	581.6	126.27	5.606		
19,200.0	12,750.0	18,900.7	12,380.0	58.3	68.1	58.49	-6,622.0	-779.4	707.8	580.0	127.83	5.537		
19,300.0	12,750.0	19,000.7	12,380.0	59.1	69.0	58.49	-6,722.0	-778.4	707.9	578.5	129.39	5.471		
19,400.0	12,750.0	19,100.7	12,380.0	59.9	69.9	58.49	-6,822.0	-777.5	707.9	576.9	130.95	5.406		
19,500.0	12,750.0	19,200.7	12,380.0	60.8	70.8	58.49	-6,922.0	-776.5	707.9	575.4	132.52	5.342		
19,600.0	12,750.0	19,300.7	12,380.0	61.6	71.7	58.49	-7,022.0	-775.5	707.9	573.8	134.09	5.279		
19,700.0	12,750.0	19,400.7	12,380.0	62.4	72.6	58.49	-7,122.0	-774.5	707.9	572.3	135.66	5.218		
19,800.0	12,750.0	19,500.7	12,380.0	63.3	73.5	58.49	-7,222.0	-773.6	708.0	570.7	137.24	5.159		
19,900.0	12,750.0	19,600.7	12,380.0	64.1	74.4	58.50	-7,322.0	-772.6	708.0	569.2	138.81	5.100		
20,000.0	12,750.0	19,700.7	12,380.0	64.9	75.4	58.50	-7,422.0	-771.6	708.0	567.6	140.39	5.043		
20,100.0	12,750.0	19,800.7	12,380.0	65.8	76.3	58.50	-7,522.0	-770.6	708.0	566.0	141.97	4.987		
20,200.0	12,750.0	19,900.7	12,380.0	66.6	77.2	58.50	-7,622.0	-769.7	708.0	564.5	143.56	4.932		
20,300.0	12,750.0	20,000.7	12,380.0	67.4	78.1	58.50	-7,722.0	-768.7	708.1	562.9	145.14	4.878		
20,400.0	12,750.0	20,100.7	12,380.0	68.3	79.0	58.50	-7,822.0	-767.7	708.1	561.3	146.73	4.826		
20,500.0	12,750.0	20,200.7	12,380.0	69.1	79.9	58.50	-7,922.0	-766.8	708.1	559.8	148.32	4.774		
20,600.0	12,750.0	20,300.7	12,380.0	69.9	80.8	58.50	-8,022.0	-765.8	708.1	558.2	149.91	4.724		
20,700.0	12,750.0	20,400.7	12,380.0	70.8	81.8	58.50	-8,122.0	-764.8	708.1	556.6	151.50	4.674		
20,800.0	12,750.0	20,424.8	12,380.0	71.6	82.0	58.50	-8,146.1	-764.6	712.2	559.6	152.56	4.668		
20,900.0	12,750.0	20,424.8	12,380.0	72.4	82.0	58.50	-8,146.1	-764.6	729.7	578.5	151.18	4.826		
21,000.0	12,750.0	20,424.8	12,380.0	73.3	82.0	58.50	-8,146.1	-764.6	760.0	612.4	147.62	5.148		
21,100.0	12,750.0	20,424.8	12,380.0	74.1	82.0	58.50	-8,146.1	-764.6	801.8	659.2	142.55	5.624		
21,200.0	12,750.0	20,424.8	12,380.0	74.9	82.0	58.50	-8,146.1	-764.6	853.2	716.6	136.66	6.243		
21,300.0	12,750.0	20,424.8	12,380.0	75.8	82.0	58.50	-8,146.1	-764.6	912.8	782.3	130.49	6.995		
21,400.0	12,750.0	20,424.8	12,380.0	76.6	82.0	58.50	-8,146.1	-764.6	979.0	854.5	124.44	7.867		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.4	60.0	60.0						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.4	60.0	60.0	58.0	1.99	30.132			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.4	60.0	60.0	56.7	3.31	18.118			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.4	60.0	60.0	55.8	4.20	14.302			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.4	60.0	60.0	55.1	4.91	12.215			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.4	60.0	60.0	54.5	5.53	10.844			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.4	60.0	60.0	53.9	6.09	9.852			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.4	60.0	60.0	53.4	6.60	9.089			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.4	60.0	60.0	52.9	7.08	8.479			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	0.4	60.0	60.0	52.5	7.52	7.975			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	0.4	60.0	60.0	52.1	7.95	7.550			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	0.4	60.0	60.0	51.6	8.35	7.184			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	0.4	60.0	60.0	51.3	8.74	6.865			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.4	60.0	60.0	50.9	9.11	6.584			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.4	60.0	60.0	50.5	9.47	6.334			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.4	60.0	60.0	50.2	9.82	6.108			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.4	60.0	60.0	49.8	10.16	5.904			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.4	60.0	60.0	49.5	10.49	5.718			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.4	60.0	60.0	49.2	10.82	5.548			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.4	60.0	60.0	48.9	11.13	5.390			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.4	60.0	60.0	48.6	11.44	5.245 CC, ES, SF			
2,100.0	2,100.0	2,097.8	2,097.8	5.8	5.8	174.48	0.5	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	174.68	0.7	66.6	73.7	61.4	12.30	5.995			
2,300.0	2,299.5	2,290.8	2,290.3	6.2	6.2	174.90	1.1	74.7	90.8	78.1	12.71	7.143			
2,400.0	2,398.7	2,384.6	2,383.4	6.4	6.5	175.09	1.7	85.7	114.5	101.4	13.13	8.724			
2,455.5	2,453.6	2,436.4	2,434.7	6.5	6.6	175.18	2.1	93.1	130.5	117.2	13.26	9.835			
2,500.0	2,497.5	2,478.8	2,476.7	6.5	6.7	175.26	2.4	99.2	143.8	130.4	13.38	10.743			
2,600.0	2,596.3	2,574.2	2,571.1	6.6	6.9	175.41	3.0	113.1	173.7	160.0	13.73	12.654			
2,700.0	2,695.0	2,669.6	2,665.5	6.8	7.1	175.51	3.7	126.9	203.6	189.5	14.09	14.449			
2,800.0	2,793.7	2,765.0	2,759.9	6.9	7.4	175.59	4.4	140.8	233.6	219.1	14.48	16.129			
2,900.0	2,892.5	2,860.4	2,854.3	7.1	7.6	175.65	5.1	154.6	263.5	248.6	14.89	17.700			
3,000.0	2,991.2	2,955.9	2,948.7	7.2	7.9	175.70	5.8	168.5	293.5	278.2	15.31	19.166			
3,100.0	3,090.0	3,051.3	3,043.1	7.4	8.2	175.74	6.5	182.3	323.4	307.7	15.75	20.533			
3,200.0	3,188.7	3,146.7	3,137.5	7.5	8.5	175.77	7.1	196.2	353.3	337.1	16.20	21.806			
3,300.0	3,287.4	3,242.1	3,231.9	7.7	8.8	175.80	7.8	210.0	383.3	366.6	16.68	22.982			
3,305.4	3,292.7	3,247.2	3,236.9	7.7	8.8	175.80	7.9	210.7	384.9	368.2	16.70	23.043			
3,400.0	3,386.3	3,337.7	3,326.5	7.8	9.1	175.83	8.5	223.9	412.5	395.3	17.15	24.050			
3,500.0	3,485.4	3,433.9	3,421.6	8.0	9.4	175.85	9.2	237.8	440.0	422.4	17.64	24.944			
3,600.0	3,584.7	3,530.5	3,517.2	8.1	9.8	175.85	9.9	251.9	465.9	447.7	18.14	25.680			
3,700.0	3,684.2	3,627.5	3,613.2	8.3	10.1	175.84	10.6	265.9	490.0	471.4	18.65	26.273			
3,800.0	3,783.9	3,724.9	3,709.6	8.4	10.5	175.81	11.3	280.1	512.5	493.3	19.17	26.734			
3,900.0	3,883.7	3,822.8	3,806.4	8.6	10.8	175.77	12.0	294.3	533.3	513.6	19.70	27.075			
4,000.0	3,983.6	3,920.9	3,903.5	8.7	11.2	175.72	12.7	308.5	552.4	532.1	20.23	27.307			
4,100.0	4,083.5	4,019.4	4,000.9	8.9	11.6	175.66	13.4	322.8	569.7	549.0	20.76	27.440			
4,200.0	4,183.5	4,118.2	4,098.6	9.0	12.0	175.59	14.1	337.1	585.4	564.1	21.30	27.487			
4,216.5	4,200.0	4,134.5	4,114.8	9.0	12.0	90.77	14.2	339.5	587.8	566.4	21.37	27.502			
4,300.0	4,283.5	4,217.1	4,196.5	9.1	12.3	90.70	14.8	351.5	599.9	578.1	21.80	27.514			
4,400.0	4,383.5	4,316.0	4,294.4	9.2	12.7	90.61	15.5	365.9	614.4	592.1	22.32	27.522			
4,500.0	4,483.5	4,415.0	4,392.3	9.3	13.1	90.53	16.2	380.2	628.9	606.0	22.85	27.523			
4,600.0	4,583.5	4,513.9	4,490.2	9.4	13.5	90.46	16.9	394.6	643.4	620.0	23.38	27.519			
4,700.0	4,683.5	4,612.9	4,588.1	9.5	13.9	90.39	17.6	408.9	657.9	634.0	23.92	27.509			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
4,800.0	4,783.5	4,711.8	4,686.0	9.6	14.3	90.32	18.3	423.3	672.4	648.0	24.46	27.496		
4,900.0	4,883.5	4,810.7	4,783.9	9.7	14.7	90.25	19.0	437.7	686.9	661.9	25.00	27.478		
5,000.0	4,983.5	4,909.7	4,881.7	9.8	15.1	90.19	19.7	452.0	701.4	675.9	25.55	27.458		
5,100.0	5,083.5	5,008.6	4,979.6	9.9	15.5	90.13	20.5	466.4	716.0	689.9	26.10	27.435		
5,200.0	5,183.5	5,107.5	5,077.5	10.0	15.9	90.07	21.2	480.7	730.5	703.8	26.65	27.409		
5,300.0	5,283.5	5,206.5	5,175.4	10.1	16.3	90.01	21.9	495.1	745.0	717.8	27.21	27.382		
5,400.0	5,383.5	5,305.4	5,273.3	10.2	16.7	89.96	22.6	509.4	759.5	731.7	27.77	27.353		
5,500.0	5,483.5	5,404.4	5,371.2	10.2	17.1	89.90	23.3	523.8	774.0	745.7	28.33	27.322		
5,600.0	5,583.5	5,503.3	5,469.1	10.3	17.5	89.85	24.0	538.2	788.5	759.6	28.89	27.290		
5,700.0	5,683.5	5,602.2	5,567.0	10.4	17.9	89.81	24.7	552.5	803.0	773.6	29.46	27.258		
5,800.0	5,783.5	5,701.2	5,664.9	10.5	18.3	89.76	25.4	566.9	817.5	787.5	30.03	27.222		
5,900.0	5,883.5	5,816.4	5,779.0	10.6	18.8	89.71	26.2	582.5	831.1	800.4	30.69	27.085		
6,000.0	5,983.5	5,932.7	5,894.6	10.7	19.3	89.67	26.8	596.0	842.7	811.4	31.32	26.907		
6,100.0	6,083.5	6,049.5	6,010.8	10.8	19.7	89.64	27.4	607.1	852.2	820.3	31.92	26.697		
6,200.0	6,183.5	6,166.8	6,127.7	10.9	20.1	89.61	27.8	615.9	859.7	827.2	32.49	26.461		
6,300.0	6,283.5	6,284.3	6,245.1	11.0	20.5	89.59	28.1	622.3	865.2	832.2	33.02	26.205		
6,400.0	6,383.5	6,402.0	6,362.7	11.1	20.9	89.58	28.3	626.4	868.6	835.1	33.49	25.939		
6,500.0	6,483.5	6,519.9	6,480.6	11.2	21.2	89.58	28.4	628.0	870.0	836.2	33.83	25.713		
6,600.0	6,583.5	6,622.8	6,583.5	11.3	21.2	89.58	28.4	628.0	870.0	836.1	33.94	25.632		
6,700.0	6,683.5	6,722.8	6,683.5	11.4	21.2	89.58	28.4	628.0	870.0	836.0	34.05	25.548		
6,800.0	6,783.5	6,822.8	6,783.5	11.4	21.3	89.58	28.4	628.0	870.0	835.9	34.17	25.464		
6,900.0	6,883.5	6,922.8	6,883.5	11.5	21.3	89.58	28.4	628.0	870.0	835.7	34.28	25.381		
7,000.0	6,983.5	7,022.8	6,983.5	11.6	21.4	89.58	28.4	628.0	870.0	835.6	34.39	25.297		
7,100.0	7,083.5	7,122.8	7,083.5	11.7	21.4	89.58	28.4	628.0	870.0	835.5	34.51	25.214		
7,200.0	7,183.5	7,222.8	7,183.5	11.8	21.5	89.58	28.4	628.0	870.0	835.4	34.62	25.131		
7,300.0	7,283.5	7,322.8	7,283.5	11.9	21.5	89.58	28.4	628.0	870.0	835.3	34.73	25.048		
7,400.0	7,383.5	7,422.8	7,383.5	12.0	21.5	89.58	28.4	628.0	870.0	835.2	34.85	24.966		
7,500.0	7,483.5	7,522.8	7,483.5	12.1	21.6	89.58	28.4	628.0	870.0	835.1	34.96	24.884		
7,600.0	7,583.5	7,622.8	7,583.5	12.2	21.6	89.58	28.4	628.0	870.0	834.9	35.08	24.802		
7,700.0	7,683.5	7,722.8	7,683.5	12.3	21.7	89.58	28.4	628.0	870.0	834.8	35.19	24.721		
7,800.0	7,783.5	7,822.8	7,783.5	12.4	21.7	89.58	28.4	628.0	870.0	834.7	35.31	24.640		
7,900.0	7,883.5	7,922.8	7,883.5	12.4	21.8	89.58	28.4	628.0	870.0	834.6	35.43	24.559		
8,000.0	7,983.5	8,022.8	7,983.5	12.5	21.8	89.58	28.4	628.0	870.0	834.5	35.54	24.478		
8,100.0	8,083.5	8,122.8	8,083.5	12.6	21.9	89.58	28.4	628.0	870.0	834.4	35.66	24.398		
8,200.0	8,183.5	8,222.8	8,183.5	12.7	21.9	89.58	28.4	628.0	870.0	834.2	35.78	24.318		
8,300.0	8,283.5	8,322.8	8,283.5	12.8	21.9	89.58	28.4	628.0	870.0	834.1	35.90	24.238		
8,400.0	8,383.5	8,422.8	8,383.5	12.9	22.0	89.58	28.4	628.0	870.0	834.0	36.01	24.158		
8,500.0	8,483.5	8,522.8	8,483.5	13.0	22.0	89.58	28.4	628.0	870.0	833.9	36.13	24.079		
8,600.0	8,583.5	8,622.8	8,583.5	13.1	22.1	89.58	28.4	628.0	870.0	833.8	36.25	24.000		
8,700.0	8,683.5	8,722.8	8,683.5	13.2	22.1	89.58	28.4	628.0	870.0	833.7	36.37	23.922		
8,800.0	8,783.5	8,822.8	8,783.5	13.3	22.2	89.58	28.4	628.0	870.0	833.5	36.49	23.843		
8,900.0	8,883.5	8,922.8	8,883.5	13.3	22.2	89.58	28.4	628.0	870.0	833.4	36.61	23.765		
9,000.0	8,983.5	9,022.8	8,983.5	13.4	22.3	89.58	28.4	628.0	870.0	833.3	36.73	23.688		
9,100.0	9,083.5	9,122.8	9,083.5	13.5	22.3	89.58	28.4	628.0	870.0	833.2	36.85	23.610		
9,200.0	9,183.5	9,222.8	9,183.5	13.6	22.4	89.58	28.4	628.0	870.0	833.1	36.97	23.533		
9,300.0	9,283.5	9,322.8	9,283.5	13.7	22.4	89.58	28.4	628.0	870.0	832.9	37.09	23.457		
9,400.0	9,383.5	9,422.8	9,383.5	13.8	22.5	89.58	28.4	628.0	870.0	832.8	37.21	23.380		
9,500.0	9,483.5	9,522.8	9,483.5	13.9	22.5	89.58	28.4	628.0	870.0	832.7	37.33	23.304		
9,600.0	9,583.5	9,622.8	9,583.5	14.0	22.6	89.58	28.4	628.0	870.0	832.6	37.46	23.228		
9,700.0	9,683.5	9,722.8	9,683.5	14.1	22.6	89.58	28.4	628.0	870.0	832.4	37.58	23.153		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
9,800.0	9,783.5	9,822.8	9,783.5	14.1	22.7	89.58	28.4	628.0	870.0	832.3	37.70	23.077			
9,900.0	9,883.5	9,922.8	9,883.5	14.2	22.7	89.58	28.4	628.0	870.0	832.2	37.82	23.002			
10,000.0	9,983.5	10,022.8	9,983.5	14.3	22.7	89.58	28.4	628.0	870.0	832.1	37.95	22.928			
10,100.0	10,083.5	10,122.8	10,083.5	14.4	22.8	89.58	28.4	628.0	870.0	832.0	38.07	22.854			
10,200.0	10,183.5	10,222.8	10,183.5	14.5	22.8	89.58	28.4	628.0	870.0	831.8	38.19	22.780			
10,300.0	10,283.5	10,322.8	10,283.5	14.6	22.9	89.58	28.4	628.0	870.0	831.7	38.32	22.706			
10,400.0	10,383.5	10,422.8	10,383.5	14.7	22.9	89.58	28.4	628.0	870.0	831.6	38.44	22.633			
10,500.0	10,483.5	10,522.8	10,483.5	14.8	23.0	89.58	28.4	628.0	870.0	831.5	38.57	22.560			
10,600.0	10,583.5	10,622.8	10,583.5	14.8	23.0	89.58	28.4	628.0	870.0	831.3	38.69	22.487			
10,700.0	10,683.5	10,722.8	10,683.5	14.9	23.1	89.58	28.4	628.0	870.0	831.2	38.82	22.414			
10,800.0	10,783.5	10,822.8	10,783.5	15.0	23.1	89.58	28.4	628.0	870.0	831.1	38.94	22.342			
10,900.0	10,883.5	10,922.8	10,883.5	15.1	23.2	89.58	28.4	628.0	870.0	831.0	39.07	22.270			
11,000.0	10,983.5	11,022.8	10,983.5	15.2	23.2	89.58	28.4	628.0	870.0	830.8	39.19	22.199			
11,100.0	11,083.5	11,122.8	11,083.5	15.3	23.3	89.58	28.4	628.0	870.0	830.7	39.32	22.128			
11,200.0	11,183.5	11,222.8	11,183.5	15.4	23.3	89.58	28.4	628.0	870.0	830.6	39.44	22.057			
11,300.0	11,283.5	11,322.8	11,283.5	15.5	23.4	89.58	28.4	628.0	870.0	830.5	39.57	21.986			
11,400.0	11,383.5	11,422.8	11,383.5	15.5	23.4	89.58	28.4	628.0	870.0	830.3	39.70	21.916			
11,500.0	11,483.5	11,522.8	11,483.5	15.6	23.5	89.58	28.4	628.0	870.0	830.2	39.82	21.846			
11,600.0	11,583.5	11,622.8	11,583.5	15.7	23.6	89.58	28.4	628.0	870.0	830.1	39.95	21.777			
11,700.0	11,683.5	11,722.8	11,683.5	15.8	23.6	89.58	28.4	628.0	870.0	829.9	40.08	21.707			
11,800.0	11,783.5	11,822.8	11,783.5	15.9	23.7	89.58	28.4	628.0	870.0	829.8	40.21	21.638			
11,900.0	11,883.5	11,922.8	11,883.5	16.0	23.7	89.58	28.4	628.0	870.0	829.7	40.33	21.572			
11,910.0	11,893.5	11,932.8	11,893.5	16.0	23.7	89.58	28.4	628.0	870.0	829.7	40.34	21.567			
12,000.0	11,983.5	12,021.7	11,982.1	16.1	23.7	90.02	21.7	628.1	870.1	829.7	40.39	21.541			
12,100.0	12,083.5	12,114.2	12,071.1	16.2	23.7	91.60	-2.4	628.3	870.7	830.3	40.45	21.524			
12,200.0	12,183.5	12,194.9	12,143.9	16.2	23.6	93.88	-37.1	628.6	873.5	833.0	40.58	21.528			
12,289.0	12,272.5	12,255.6	12,194.2	16.3	23.6	96.10	-71.0	629.0	879.4	838.6	40.79	21.560			
12,300.0	12,283.5	12,262.5	12,199.6	16.3	23.6	-82.94	-75.3	629.0	880.4	839.6	40.82	21.569			
12,325.0	12,308.5	12,275.0	12,209.3	16.3	23.6	-82.17	-83.2	629.1	882.8	841.9	40.90	21.586			
12,350.0	12,333.4	12,293.3	12,223.1	16.3	23.6	-81.18	-95.2	629.2	885.4	844.4	40.96	21.615			
12,375.0	12,358.1	12,308.5	12,234.2	16.3	23.6	-80.31	-105.6	629.3	888.1	847.1	41.05	21.636			
12,400.0	12,382.5	12,325.0	12,245.9	16.3	23.6	-79.39	-117.3	629.4	891.0	849.8	41.14	21.657			
12,425.0	12,406.7	12,338.5	12,255.1	16.3	23.7	-78.59	-127.1	629.5	893.9	852.6	41.26	21.666			
12,450.0	12,430.5	12,350.0	12,262.8	16.2	23.7	-77.86	-135.7	629.6	896.9	855.5	41.40	21.665			
12,475.0	12,453.9	12,368.3	12,274.5	16.2	23.7	-76.94	-149.7	629.7	900.0	858.5	41.51	21.681			
12,500.0	12,476.7	12,383.0	12,283.5	16.2	23.7	-76.14	-161.3	629.8	903.1	861.4	41.65	21.682			
12,525.0	12,499.0	12,400.0	12,293.5	16.2	23.7	-75.30	-175.1	630.0	906.2	864.4	41.79	21.685			
12,550.0	12,520.7	12,412.3	12,300.4	16.2	23.7	-74.61	-185.2	630.1	909.3	867.3	41.96	21.670			
12,575.0	12,541.7	12,425.0	12,307.3	16.2	23.7	-73.93	-195.9	630.2	912.3	870.2	42.13	21.653			
12,600.0	12,562.0	12,441.3	12,315.7	16.2	23.7	-73.19	-209.8	630.3	915.3	873.1	42.29	21.642			
12,625.0	12,581.5	12,455.7	12,322.8	16.2	23.7	-72.52	-222.4	630.4	918.3	875.8	42.47	21.622			
12,650.0	12,600.1	12,470.1	12,329.4	16.2	23.7	-71.89	-235.2	630.6	921.2	878.5	42.65	21.599			
12,675.0	12,617.8	12,484.5	12,335.6	16.2	23.7	-71.29	-248.1	630.7	923.9	881.1	42.83	21.573			
12,700.0	12,634.6	12,500.0	12,342.0	16.2	23.7	-70.71	-262.3	630.8	926.6	883.6	43.00	21.546			
12,725.0	12,650.4	12,513.1	12,346.9	16.2	23.7	-70.20	-274.4	630.9	929.1	885.9	43.19	21.512			
12,750.0	12,665.2	12,525.0	12,351.1	16.2	23.7	-69.74	-285.6	631.1	931.5	888.1	43.38	21.474			
12,775.0	12,678.8	12,541.5	12,356.5	16.2	23.8	-69.25	-301.2	631.2	933.7	890.1	43.54	21.443			
12,800.0	12,691.4	12,555.7	12,360.7	16.3	23.8	-68.84	-314.8	631.3	935.7	892.0	43.71	21.406			
12,825.0	12,702.8	12,575.0	12,365.7	16.3	23.8	-68.41	-333.4	631.5	937.6	893.8	43.87	21.374			
12,850.0	12,713.1	12,584.0	12,367.9	16.3	23.8	-68.13	-342.2	631.6	939.3	895.3	44.04	21.330			
12,875.0	12,722.1	12,600.0	12,371.2	16.3	23.8	-67.82	-357.8	631.8	940.8	896.6	44.19	21.292			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,900.0	12,729.9	12,612.3	12,373.4	16.3	23.8	-67.59	-369.9	631.9	942.1	897.7	44.33	21.252			
12,925.0	12,736.4	12,625.0	12,375.3	16.3	23.8	-67.39	-382.4	632.0	943.2	898.7	44.46	21.213			
12,950.0	12,741.7	12,640.5	12,377.2	16.4	23.9	-67.21	-397.8	632.1	944.0	899.4	44.58	21.174			
12,975.0	12,745.7	12,650.0	12,378.1	16.4	23.9	-67.10	-407.3	632.2	944.7	900.0	44.69	21.141			
13,000.0	12,748.4	12,668.7	12,379.4	16.4	23.9	-67.00	-425.9	632.4	945.1	900.3	44.79	21.099			
13,025.0	12,749.8	12,682.8	12,379.9	16.4	23.9	-66.96	-440.0	632.6	945.3	900.4	44.88	21.063			
13,039.0	12,750.0	12,691.8	12,380.0	16.4	23.9	-66.96	-449.0	632.6	945.3	900.4	44.93	21.041			
13,063.4	12,750.0	12,714.2	12,380.0	16.5	24.0	-66.96	-471.4	632.9	945.3	900.3	45.04	20.990			
13,100.0	12,750.0	12,750.8	12,380.0	16.5	24.0	-66.96	-508.0	633.2	945.3	900.1	45.22	20.907			
13,200.0	12,750.0	12,850.8	12,380.0	16.7	24.2	-66.96	-608.0	634.2	945.3	899.5	45.76	20.659			
13,300.0	12,750.0	12,950.8	12,380.0	17.0	24.5	-66.96	-708.0	635.2	945.3	898.9	46.36	20.391			
13,400.0	12,750.0	13,050.8	12,380.0	17.3	24.7	-66.96	-808.0	636.1	945.3	898.2	47.01	20.106			
13,500.0	12,750.0	13,150.8	12,380.0	17.6	25.0	-66.96	-908.0	637.1	945.2	897.5	47.72	19.806			
13,600.0	12,750.0	13,250.8	12,380.0	17.9	25.4	-66.96	-1,008.0	638.1	945.2	896.7	48.49	19.495			
13,700.0	12,750.0	13,350.8	12,380.0	18.3	25.7	-66.96	-1,108.0	639.1	945.2	895.9	49.30	19.173			
13,800.0	12,750.0	13,450.8	12,380.0	18.8	26.1	-66.95	-1,208.0	640.0	945.2	895.0	50.16	18.844			
13,900.0	12,750.0	13,550.8	12,380.0	19.2	26.6	-66.95	-1,308.0	641.0	945.2	894.1	51.06	18.510			
14,000.0	12,750.0	13,650.8	12,380.0	19.7	27.0	-66.95	-1,408.0	642.0	945.1	893.1	52.01	18.173			
14,100.0	12,750.0	13,750.8	12,380.0	20.2	27.5	-66.95	-1,508.0	642.9	945.1	892.1	52.99	17.835			
14,200.0	12,750.0	13,850.8	12,380.0	20.7	28.0	-66.95	-1,608.0	643.9	945.1	891.1	54.02	17.497			
14,300.0	12,750.0	13,950.8	12,380.0	21.3	28.6	-66.95	-1,707.9	644.9	945.1	890.0	55.08	17.160			
14,400.0	12,750.0	14,050.8	12,380.0	21.9	29.1	-66.95	-1,807.9	645.9	945.0	888.9	56.17	16.825			
14,500.0	12,750.0	14,150.8	12,380.0	22.5	29.7	-66.95	-1,907.9	646.8	945.0	887.7	57.29	16.495			
14,600.0	12,750.0	14,250.8	12,380.0	23.1	30.3	-66.95	-2,007.9	647.8	945.0	886.6	58.45	16.168			
14,700.0	12,750.0	14,350.8	12,380.0	23.7	30.9	-66.95	-2,107.9	648.8	945.0	885.4	59.63	15.847			
14,800.0	12,750.0	14,450.8	12,380.0	24.3	31.6	-66.95	-2,207.9	649.7	945.0	884.1	60.84	15.532			
14,900.0	12,750.0	14,550.8	12,380.0	25.0	32.2	-66.95	-2,307.9	650.7	944.9	882.9	62.07	15.223			
15,000.0	12,750.0	14,650.8	12,380.0	25.6	32.9	-66.95	-2,407.9	651.7	944.9	881.6	63.33	14.920			
15,100.0	12,750.0	14,750.8	12,380.0	26.3	33.5	-66.95	-2,507.9	652.7	944.9	880.3	64.61	14.625			
15,200.0	12,750.0	14,850.8	12,380.0	27.0	34.2	-66.95	-2,607.9	653.6	944.9	879.0	65.91	14.336			
15,300.0	12,750.0	14,950.8	12,380.0	27.7	35.0	-66.95	-2,707.9	654.6	944.9	877.6	67.23	14.054			
15,400.0	12,750.0	15,050.8	12,380.0	28.4	35.7	-66.95	-2,807.9	655.6	944.8	876.3	68.57	13.779			
15,500.0	12,750.0	15,150.8	12,380.0	29.1	36.4	-66.95	-2,907.9	656.6	944.8	874.9	69.92	13.512			
15,600.0	12,750.0	15,250.8	12,380.0	29.8	37.1	-66.95	-3,007.9	657.5	944.8	873.5	71.30	13.252			
15,700.0	12,750.0	15,350.8	12,380.0	30.6	37.9	-66.95	-3,107.9	658.5	944.8	872.1	72.68	12.998			
15,800.0	12,750.0	15,450.8	12,380.0	31.3	38.7	-66.94	-3,207.9	659.5	944.8	870.7	74.09	12.752			
15,900.0	12,750.0	15,550.8	12,380.0	32.0	39.4	-66.94	-3,307.9	660.4	944.7	869.2	75.50	12.513			
16,000.0	12,750.0	15,650.8	12,380.0	32.8	40.2	-66.94	-3,407.9	661.4	944.7	867.8	76.93	12.280			
16,100.0	12,750.0	15,750.8	12,380.0	33.5	41.0	-66.94	-3,507.9	662.4	944.7	866.3	78.37	12.054			
16,200.0	12,750.0	15,850.8	12,380.0	34.3	41.8	-66.94	-3,607.9	663.4	944.7	864.9	79.82	11.835			
16,300.0	12,750.0	15,950.8	12,380.0	35.0	42.6	-66.94	-3,707.9	664.3	944.7	863.4	81.29	11.621			
16,400.0	12,750.0	16,050.8	12,380.0	35.8	43.4	-66.94	-3,807.8	665.3	944.6	861.9	82.76	11.414			
16,500.0	12,750.0	16,150.8	12,380.0	36.6	44.2	-66.94	-3,907.8	666.3	944.6	860.4	84.24	11.213			
16,600.0	12,750.0	16,250.8	12,380.0	37.3	45.0	-66.94	-4,007.8	667.3	944.6	858.9	85.74	11.017			
16,700.0	12,750.0	16,350.8	12,380.0	38.1	45.8	-66.94	-4,107.8	668.2	944.6	857.3	87.24	10.827			
16,800.0	12,750.0	16,450.8	12,380.0	38.9	46.7	-66.94	-4,207.8	669.2	944.6	855.8	88.75	10.643			
16,900.0	12,750.0	16,550.8	12,380.0	39.7	47.5	-66.94	-4,307.8	670.2	944.5	854.3	90.27	10.464			
17,000.0	12,750.0	16,650.8	12,380.0	40.5	48.3	-66.94	-4,407.8	671.1	944.5	852.7	91.79	10.290			
17,100.0	12,750.0	16,750.8	12,380.0	41.3	49.2	-66.94	-4,507.8	672.1	944.5	851.2	93.32	10.120			
17,200.0	12,750.0	16,850.8	12,380.0	42.1	50.0	-66.94	-4,607.8	673.1	944.5	849.6	94.86	9.956			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 602H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
17,300.0	12,750.0	16,950.8	12,380.0	42.8	50.9	-66.94	-4,707.8	674.1	944.4	848.0	96.41	9.796			
17,400.0	12,750.0	17,050.8	12,380.0	43.6	51.7	-66.94	-4,807.8	675.0	944.4	846.5	97.96	9.641			
17,500.0	12,750.0	17,150.8	12,380.0	44.4	52.6	-66.94	-4,907.8	676.0	944.4	844.9	99.52	9.490			
17,600.0	12,750.0	17,250.8	12,380.0	45.2	53.5	-66.94	-5,007.8	677.0	944.4	843.3	101.08	9.342			
17,700.0	12,750.0	17,350.8	12,380.0	46.0	54.3	-66.93	-5,107.8	677.9	944.4	841.7	102.65	9.199			
17,800.0	12,750.0	17,450.8	12,380.0	46.9	55.2	-66.93	-5,207.8	678.9	944.3	840.1	104.23	9.060			
17,900.0	12,750.0	17,550.8	12,380.0	47.7	56.1	-66.93	-5,307.8	679.9	944.3	838.5	105.81	8.925			
18,000.0	12,750.0	17,650.8	12,380.0	48.5	57.0	-66.93	-5,407.8	680.9	944.3	836.9	107.39	8.793			
18,100.0	12,750.0	17,750.8	12,380.0	49.3	57.8	-66.93	-5,507.8	681.8	944.3	835.3	108.98	8.665			
18,200.0	12,750.0	17,850.8	12,380.0	50.1	58.7	-66.93	-5,607.8	682.8	944.3	833.7	110.57	8.540			
18,300.0	12,750.0	17,950.8	12,380.0	50.9	59.6	-66.93	-5,707.8	683.8	944.2	832.1	112.17	8.418			
18,400.0	12,750.0	18,050.8	12,380.0	51.7	60.5	-66.93	-5,807.8	684.8	944.2	830.4	113.77	8.299			
18,500.0	12,750.0	18,150.8	12,380.0	52.5	61.4	-66.93	-5,907.8	685.7	944.2	828.8	115.37	8.184			
18,600.0	12,750.0	18,250.8	12,380.0	53.4	62.3	-66.93	-6,007.7	686.7	944.2	827.2	116.98	8.071			
18,700.0	12,750.0	18,350.8	12,380.0	54.2	63.2	-66.93	-6,107.7	687.7	944.2	825.6	118.59	7.961			
18,800.0	12,750.0	18,450.8	12,380.0	55.0	64.1	-66.93	-6,207.7	688.6	944.1	823.9	120.21	7.854			
18,900.0	12,750.0	18,550.8	12,380.0	55.8	64.9	-66.93	-6,307.7	689.6	944.1	822.3	121.83	7.750			
19,000.0	12,750.0	18,650.8	12,380.0	56.6	65.8	-66.93	-6,407.7	690.6	944.1	820.6	123.45	7.648			
19,100.0	12,750.0	18,750.8	12,380.0	57.5	66.7	-66.93	-6,507.7	691.6	944.1	819.0	125.07	7.548			
19,200.0	12,750.0	18,850.8	12,380.0	58.3	67.7	-66.93	-6,607.7	692.5	944.1	817.4	126.70	7.451			
19,300.0	12,750.0	18,950.8	12,380.0	59.1	68.6	-66.93	-6,707.7	693.5	944.0	815.7	128.33	7.356			
19,400.0	12,750.0	19,050.8	12,380.0	59.9	69.5	-66.93	-6,807.7	694.5	944.0	814.1	129.96	7.264			
19,500.0	12,750.0	19,150.8	12,380.0	60.8	70.4	-66.93	-6,907.7	695.5	944.0	812.4	131.60	7.173			
19,600.0	12,750.0	19,250.8	12,380.0	61.6	71.3	-66.93	-7,007.7	696.4	944.0	810.7	133.23	7.085			
19,700.0	12,750.0	19,350.8	12,380.0	62.4	72.2	-66.92	-7,107.7	697.4	943.9	809.1	134.87	6.999			
19,800.0	12,750.0	19,450.8	12,380.0	63.3	73.1	-66.92	-7,207.7	698.4	943.9	807.4	136.51	6.915			
19,900.0	12,750.0	19,550.8	12,380.0	64.1	74.0	-66.92	-7,307.7	699.3	943.9	805.8	138.16	6.832			
20,000.0	12,750.0	19,650.8	12,380.0	64.9	74.9	-66.92	-7,407.7	700.3	943.9	804.1	139.80	6.752			
20,100.0	12,750.0	19,750.8	12,380.0	65.8	75.8	-66.92	-7,507.7	701.3	943.9	802.4	141.45	6.673			
20,200.0	12,750.0	19,850.8	12,380.0	66.6	76.8	-66.92	-7,607.7	702.3	943.8	800.7	143.10	6.596			
20,300.0	12,750.0	19,950.8	12,380.0	67.4	77.7	-66.92	-7,707.7	703.2	943.8	799.1	144.75	6.520			
20,400.0	12,750.0	20,050.8	12,380.0	68.3	78.6	-66.92	-7,807.7	704.2	943.8	797.4	146.41	6.446			
20,500.0	12,750.0	20,150.8	12,380.0	69.1	79.5	-66.92	-7,907.7	705.2	943.8	795.7	148.06	6.374			
20,600.0	12,750.0	20,250.8	12,380.0	69.9	80.4	-66.92	-8,007.7	706.2	943.8	794.0	149.72	6.304			
20,700.0	12,750.0	20,350.8	12,380.0	70.8	81.4	-66.92	-8,107.6	707.1	943.7	792.4	151.38	6.234			
20,728.3	12,750.0	20,378.9	12,380.0	71.0	81.6	-66.92	-8,135.7	707.4	943.7	791.9	151.84	6.215			
20,800.0	12,750.0	20,378.9	12,380.0	71.6	81.6	-66.92	-8,135.7	707.4	946.5	794.2	152.23	6.217			
20,900.0	12,750.0	20,378.9	12,380.0	72.4	81.6	-66.92	-8,135.7	707.4	959.2	807.7	151.58	6.328			
21,000.0	12,750.0	20,378.9	12,380.0	73.3	81.6	-66.92	-8,135.7	707.4	982.1	832.4	149.65	6.563			

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 802H - Slot BOATER FED COM 802H
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 802H	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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.2	30.0	30.0						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	0.2	30.0	30.0	28.0	1.99	15.066			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	0.2	30.0	30.0	26.7	3.31	9.059			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	0.2	30.0	30.0	25.8	4.20	7.151			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	0.2	30.0	30.0	25.1	4.91	6.108			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	0.2	30.0	30.0	24.5	5.53	5.422			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	0.2	30.0	30.0	23.9	6.09	4.926			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	0.2	30.0	30.0	23.4	6.60	4.545			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	0.2	30.0	30.0	22.9	7.08	4.239			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	0.2	30.0	30.0	22.5	7.52	3.987			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	0.2	30.0	30.0	22.1	7.95	3.775			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	0.2	30.0	30.0	21.6	8.35	3.592			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	0.2	30.0	30.0	21.3	8.74	3.433			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	0.2	30.0	30.0	20.9	9.11	3.292			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	0.2	30.0	30.0	20.5	9.47	3.167			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	0.2	30.0	30.0	20.2	9.82	3.054			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	0.2	30.0	30.0	19.8	10.16	2.952	Normal Operations		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	0.2	30.0	30.0	19.5	10.49	2.859	Normal Operations		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	0.2	30.0	30.0	19.2	10.82	2.774	Normal Operations		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	0.2	30.0	30.0	18.9	11.13	2.695	Normal Operations		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	0.2	30.0	30.0	18.6	11.44	2.623	Normal Operations, CC, ES		
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	174.71	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	175.45	0.2	30.0	37.0	24.8	12.18	3.034			
2,300.0	2,299.5	2,299.5	2,299.5	6.2	6.0	176.31	0.2	30.0	45.6	33.1	12.53	3.642			
2,400.0	2,398.7	2,398.7	2,398.7	6.4	6.2	177.07	0.2	30.0	57.8	44.9	12.88	4.487			
2,455.5	2,453.6	2,453.6	2,453.6	6.5	6.2	177.43	0.2	30.0	66.1	53.1	13.01	5.078			
2,500.0	2,497.5	2,497.5	2,497.5	6.5	6.3	177.68	0.2	30.0	73.1	60.0	13.10	5.580			
2,600.0	2,596.3	2,596.3	2,596.3	6.6	6.4	178.09	0.2	30.0	88.9	75.6	13.37	6.651			
2,700.0	2,695.0	2,695.0	2,695.0	6.8	6.6	178.38	0.2	30.0	104.7	91.1	13.64	7.678			
2,800.0	2,793.7	2,793.7	2,793.7	6.9	6.7	178.59	0.2	30.0	120.6	106.7	13.92	8.665			
2,900.0	2,892.5	2,892.5	2,892.5	7.1	6.8	178.76	0.2	30.0	136.4	122.2	14.19	9.613			
3,000.0	2,991.2	2,991.2	2,991.2	7.2	7.0	178.88	0.2	30.0	152.2	137.8	14.47	10.525			
3,100.0	3,090.0	3,090.0	3,090.0	7.4	7.1	178.99	0.2	30.0	168.1	153.3	14.74	11.401			
3,200.0	3,188.7	3,188.7	3,188.7	7.5	7.2	179.08	0.2	30.0	183.9	168.9	15.02	12.244			
3,300.0	3,287.4	3,287.4	3,287.4	7.7	7.4	179.15	0.2	30.0	199.7	184.4	15.31	13.050			
3,305.4	3,292.7	3,292.7	3,292.7	7.7	7.4	179.15	0.2	30.0	200.6	185.3	15.32	13.092			
3,400.0	3,386.3	3,386.3	3,386.3	7.8	7.5	179.21	0.2	30.0	214.8	199.2	15.58	13.789			
3,500.0	3,485.4	3,485.4	3,485.4	8.0	7.6	179.26	0.2	30.0	228.1	212.3	15.86	14.388			
3,600.0	3,584.7	3,584.7	3,584.7	8.1	7.7	179.30	0.2	30.0	239.7	223.6	16.13	14.861			
3,700.0	3,684.2	3,684.2	3,684.2	8.3	7.9	179.33	0.2	30.0	249.6	233.2	16.41	15.213			
3,800.0	3,783.9	3,783.9	3,783.9	8.4	8.0	179.35	0.2	30.0	257.7	241.1	16.68	15.451			
3,900.0	3,883.7	3,883.7	3,883.7	8.6	8.1	179.36	0.2	30.0	264.1	247.2	16.95	15.583			
4,000.0	3,983.6	3,983.6	3,983.6	8.7	8.2	179.38	0.2	30.0	268.8	251.6	17.22	15.613			
4,100.0	4,083.5	4,092.2	4,092.2	8.9	8.4	179.35	0.5	28.5	270.4	252.8	17.53	15.420			
4,200.0	4,183.5	4,201.5	4,201.4	9.0	8.5	179.22	1.5	23.1	266.4	248.6	17.80	14.970			
4,216.5	4,200.0	4,218.0	4,217.8	9.0	8.6	94.39	1.7	22.0	265.3	247.5	17.83	14.879			
4,300.0	4,283.5	4,301.3	4,300.9	9.1	8.7	94.25	2.8	16.5	259.7	241.7	18.06	14.382			
4,400.0	4,383.5	4,401.1	4,400.4	9.2	8.8	94.07	4.1	9.9	253.1	234.8	18.25	13.866			
4,500.0	4,483.5	4,500.8	4,500.0	9.3	8.9	93.89	5.3	3.3	246.4	227.9	18.44	13.359			
4,600.0	4,583.5	4,600.6	4,599.5	9.4	9.0	93.69	6.6	-3.3	239.7	221.1	18.64	12.861			
4,700.0	4,683.5	4,700.4	4,699.1	9.5	9.1	93.49	7.9	-9.9	233.0	214.2	18.83	12.373			

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 802H - Slot BOATER FED COM 802H
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 802H	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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
4,800.0	4,783.5	4,800.2	4,798.6	9.6	9.2	93.27		9.1	-16.5	226.3	207.3	19.03	11.895			
4,900.0	4,883.5	4,899.9	4,898.2	9.7	9.3	93.04		10.4	-23.1	219.7	200.4	19.23	11.425			
5,000.0	4,983.5	4,999.7	4,997.7	9.8	9.4	92.79		11.7	-29.7	213.0	193.6	19.43	10.965			
5,100.0	5,083.5	5,099.5	5,097.3	9.9	9.5	92.53		12.9	-36.3	206.3	186.7	19.63	10.513			
5,200.0	5,183.5	5,199.3	5,196.8	10.0	9.7	92.25		14.2	-42.9	199.7	179.8	19.83	10.070			
5,300.0	5,283.5	5,299.0	5,296.4	10.1	9.8	91.95		15.5	-49.5	193.0	173.0	20.03	9.636			
5,400.0	5,383.5	5,398.8	5,395.9	10.2	9.9	91.63		16.7	-56.1	186.4	166.1	20.23	9.210			
5,500.0	5,483.5	5,498.6	5,495.5	10.2	10.0	91.28		18.0	-62.7	179.7	159.3	20.44	8.793			
5,600.0	5,583.5	5,598.3	5,595.0	10.3	10.1	90.91		19.2	-69.3	173.1	152.4	20.64	8.384			
5,700.0	5,683.5	5,698.1	5,694.6	10.4	10.2	90.51		20.5	-75.9	166.4	145.6	20.85	7.983			
5,800.0	5,783.5	5,795.7	5,792.0	10.5	10.3	90.12		21.7	-81.9	160.4	139.3	21.04	7.621			
5,900.0	5,883.5	5,893.0	5,889.2	10.6	10.5	89.82		22.5	-86.2	155.9	134.7	21.24	7.339			
6,000.0	5,983.5	5,990.4	5,986.5	10.7	10.6	89.63		23.0	-88.9	153.1	131.7	21.44	7.142			
6,100.0	6,083.5	6,087.8	6,083.9	10.8	10.7	89.55		23.2	-90.0	152.0	130.4	21.63	7.027			
6,139.9	6,123.4	6,127.3	6,123.4	10.8	10.7	89.54		23.2	-90.0	152.0	130.3	21.71	7.002			
6,200.0	6,183.5	6,187.4	6,183.5	10.9	10.8	89.54		23.2	-90.0	152.0	130.2	21.82	6.967			
6,300.0	6,283.5	6,287.4	6,283.5	11.0	10.9	89.54		23.2	-90.0	152.0	130.0	22.00	6.908			
6,400.0	6,383.5	6,387.4	6,383.5	11.1	11.0	89.54		23.2	-90.0	152.0	129.8	22.19	6.850			
6,500.0	6,483.5	6,487.4	6,483.5	11.2	11.1	89.54		23.2	-90.0	152.0	129.6	22.37	6.794			
6,600.0	6,583.5	6,587.4	6,583.5	11.3	11.2	89.54		23.2	-90.0	152.0	129.4	22.56	6.738			
6,700.0	6,683.5	6,687.4	6,683.5	11.4	11.2	89.54		23.2	-90.0	152.0	129.3	22.74	6.684			
6,800.0	6,783.5	6,787.4	6,783.5	11.4	11.3	89.54		23.2	-90.0	152.0	129.1	22.93	6.630			
6,900.0	6,883.5	6,887.4	6,883.5	11.5	11.4	89.54		23.2	-90.0	152.0	128.9	23.11	6.577			
7,000.0	6,983.5	6,987.4	6,983.5	11.6	11.5	89.54		23.2	-90.0	152.0	128.7	23.29	6.526			
7,100.0	7,083.5	7,087.4	7,083.5	11.7	11.6	89.54		23.2	-90.0	152.0	128.5	23.48	6.475			
7,200.0	7,183.5	7,187.4	7,183.5	11.8	11.7	89.54		23.2	-90.0	152.0	128.3	23.66	6.425			
7,300.0	7,283.5	7,287.4	7,283.5	11.9	11.8	89.54		23.2	-90.0	152.0	128.2	23.84	6.376			
7,400.0	7,383.5	7,387.4	7,383.5	12.0	11.9	89.54		23.2	-90.0	152.0	128.0	24.02	6.327			
7,500.0	7,483.5	7,487.4	7,483.5	12.1	12.0	89.54		23.2	-90.0	152.0	127.8	24.20	6.280			
7,600.0	7,583.5	7,587.4	7,583.5	12.2	12.1	89.54		23.2	-90.0	152.0	127.6	24.39	6.233			
7,700.0	7,683.5	7,687.4	7,683.5	12.3	12.2	89.54		23.2	-90.0	152.0	127.4	24.57	6.187			
7,800.0	7,783.5	7,787.4	7,783.5	12.4	12.3	89.54		23.2	-90.0	152.0	127.3	24.75	6.142			
7,900.0	7,883.5	7,887.4	7,883.5	12.4	12.4	89.54		23.2	-90.0	152.0	127.1	24.93	6.098			
8,000.0	7,983.5	7,987.4	7,983.5	12.5	12.5	89.54		23.2	-90.0	152.0	126.9	25.11	6.054			
8,100.0	8,083.5	8,087.4	8,083.5	12.6	12.6	89.54		23.2	-90.0	152.0	126.7	25.29	6.011			
8,200.0	8,183.5	8,187.4	8,183.5	12.7	12.6	89.54		23.2	-90.0	152.0	126.5	25.47	5.968			
8,300.0	8,283.5	8,287.4	8,283.5	12.8	12.7	89.54		23.2	-90.0	152.0	126.4	25.65	5.927			
8,400.0	8,383.5	8,387.4	8,383.5	12.9	12.8	89.54		23.2	-90.0	152.0	126.2	25.83	5.886			
8,500.0	8,483.5	8,487.4	8,483.5	13.0	12.9	89.54		23.2	-90.0	152.0	126.0	26.01	5.845			
8,600.0	8,583.5	8,587.4	8,583.5	13.1	13.0	89.54		23.2	-90.0	152.0	125.8	26.18	5.805			
8,700.0	8,683.5	8,687.4	8,683.5	13.2	13.1	89.54		23.2	-90.0	152.0	125.6	26.36	5.766			
8,800.0	8,783.5	8,787.4	8,783.5	13.3	13.2	89.54		23.2	-90.0	152.0	125.5	26.54	5.727			
8,900.0	8,883.5	8,887.4	8,883.5	13.3	13.3	89.54		23.2	-90.0	152.0	125.3	26.72	5.689			
9,000.0	8,983.5	8,987.4	8,983.5	13.4	13.4	89.54		23.2	-90.0	152.0	125.1	26.90	5.651			
9,100.0	9,083.5	9,087.4	9,083.5	13.5	13.5	89.54		23.2	-90.0	152.0	124.9	27.07	5.614			
9,200.0	9,183.5	9,187.4	9,183.5	13.6	13.6	89.54		23.2	-90.0	152.0	124.8	27.25	5.578			
9,300.0	9,283.5	9,287.4	9,283.5	13.7	13.6	89.54		23.2	-90.0	152.0	124.6	27.43	5.542			
9,400.0	9,383.5	9,387.4	9,383.5	13.8	13.7	89.54		23.2	-90.0	152.0	124.4	27.61	5.506			
9,500.0	9,483.5	9,487.4	9,483.5	13.9	13.8	89.54		23.2	-90.0	152.0	124.2	27.78	5.471			
9,600.0	9,583.5	9,587.4	9,583.5	14.0	13.9	89.54		23.2	-90.0	152.0	124.0	27.96	5.437			

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

ConocoPhillips
Anticollision Report

Table with 4 columns: Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, Offset TVD Reference.

Main data table with columns: Offset Design, Survey Program, Reference, Vertical, Measured Depth, Vertical, Offset, Semi Major Axis Reference, Semi Major Axis Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), No-Go Distance, Separation Factor, Warning, Offset Site Error, Offset Well Error.

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 802H - Slot BOATER FED COM 802H
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 802H	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 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)					
12,850.0	12,713.1	12,692.6	12,531.3	16.3	16.1	-38.97	-322.2	-86.6	242.6	196.0	46.61	5.205			
12,875.0	12,722.1	12,710.4	12,535.9	16.3	16.1	-38.53	-339.3	-86.5	244.7	197.6	47.06	5.199			
12,900.0	12,729.9	12,725.0	12,539.2	16.3	16.1	-38.19	-353.6	-86.3	246.5	199.0	47.57	5.182			
12,925.0	12,736.4	12,745.8	12,543.2	16.3	16.2	-37.84	-374.0	-86.1	248.0	200.2	47.82	5.187			
12,950.0	12,741.7	12,763.5	12,545.8	16.4	16.2	-37.60	-391.5	-85.9	249.3	201.1	48.12	5.180			
12,975.0	12,745.7	12,781.1	12,547.8	16.4	16.2	-37.41	-409.0	-85.8	250.2	201.8	48.37	5.172			
13,000.0	12,748.4	12,800.0	12,549.2	16.4	16.2	-37.29	-427.8	-85.6	250.8	202.3	48.55	5.166			
13,025.0	12,749.8	12,816.4	12,549.9	16.4	16.2	-37.23	-444.2	-85.4	251.1	202.4	48.72	5.154			
13,039.0	12,750.0	12,826.4	12,550.0	16.4	16.2	-37.22	-454.2	-85.3	251.2	202.4	48.78	5.149			
13,062.6	12,750.0	12,849.8	12,550.0	16.5	16.2	-37.22	-477.6	-85.1	251.2	202.4	48.80	5.146			
13,100.0	12,750.0	12,887.1	12,550.0	16.5	16.3	-37.22	-515.0	-84.7	251.2	202.3	48.84	5.143			
13,124.0	12,750.0	12,911.1	12,550.0	16.6	16.3	-37.22	-539.0	-84.5	251.1	202.3	48.86	5.140			
13,200.0	12,750.0	12,983.6	12,550.0	16.7	16.5	-37.36	-611.4	-83.0	251.6	202.7	48.95	5.141			
13,300.0	12,750.0	13,078.4	12,550.0	17.0	16.7	-38.04	-706.1	-78.3	254.1	205.2	48.92	5.193			
13,400.0	12,750.0	13,172.8	12,550.0	17.3	17.0	-39.24	-800.2	-70.5	258.6	209.9	48.74	5.306			
13,500.0	12,750.0	13,266.7	12,550.0	17.6	17.4	-40.90	-893.5	-59.6	265.4	217.0	48.43	5.481			
13,600.0	12,750.0	13,364.6	12,550.0	17.9	17.7	-42.89	-990.4	-46.1	274.1	226.0	48.02	5.707			
13,700.0	12,750.0	13,465.6	12,550.0	18.3	18.1	-44.82	-1,090.5	-32.2	283.0	235.3	47.67	5.936			
13,800.0	12,750.0	13,572.8	12,550.0	18.8	18.6	-46.34	-1,197.0	-20.3	290.2	242.7	47.50	6.110			
13,900.0	12,750.0	13,680.6	12,550.0	19.2	19.1	-47.27	-1,304.5	-12.3	294.9	247.3	47.58	6.198			
14,000.0	12,750.0	13,788.9	12,550.0	19.7	19.6	-47.64	-1,412.6	-8.4	296.8	249.0	47.87	6.201			
14,100.0	12,750.0	13,890.5	12,550.0	20.2	20.2	-47.65	-1,514.3	-7.3	296.9	248.5	48.38	6.137			
14,200.0	12,750.0	13,990.5	12,550.0	20.7	20.7	-47.65	-1,614.3	-6.3	296.9	247.9	48.94	6.066			
14,300.0	12,750.0	14,090.5	12,550.0	21.3	21.2	-47.64	-1,714.3	-5.4	296.8	247.3	49.54	5.993			
14,400.0	12,750.0	14,190.5	12,550.0	21.9	21.8	-47.64	-1,814.3	-4.4	296.8	246.7	50.17	5.917			
14,500.0	12,750.0	14,290.5	12,550.0	22.5	22.4	-47.64	-1,914.3	-3.4	296.8	246.0	50.82	5.840			
14,600.0	12,750.0	14,390.5	12,550.0	23.1	23.0	-47.64	-2,014.2	-2.4	296.8	245.3	51.51	5.762			
14,700.0	12,750.0	14,490.5	12,550.0	23.7	23.6	-47.63	-2,114.2	-1.4	296.8	244.6	52.23	5.682			
14,800.0	12,750.0	14,590.5	12,550.0	24.3	24.3	-47.63	-2,214.2	-0.5	296.8	243.8	52.97	5.602			
14,900.0	12,750.0	14,690.5	12,550.0	25.0	24.9	-47.63	-2,314.2	0.5	296.8	243.0	53.74	5.522			
15,000.0	12,750.0	14,790.5	12,550.0	25.6	25.6	-47.63	-2,414.2	1.5	296.7	242.2	54.54	5.441			
15,100.0	12,750.0	14,890.5	12,550.0	26.3	26.3	-47.63	-2,514.2	2.5	296.7	241.4	55.36	5.360			
15,200.0	12,750.0	14,990.5	12,550.0	27.0	27.0	-47.62	-2,614.2	3.4	296.7	240.5	56.20	5.280			
15,300.0	12,750.0	15,090.5	12,550.0	27.7	27.7	-47.62	-2,714.2	4.4	296.7	239.6	57.06	5.200			
15,400.0	12,750.0	15,190.5	12,550.0	28.4	28.4	-47.62	-2,814.2	5.4	296.7	238.7	57.95	5.120			
15,500.0	12,750.0	15,290.5	12,550.0	29.1	29.1	-47.62	-2,914.2	6.4	296.7	237.8	58.85	5.041			
15,600.0	12,750.0	15,390.5	12,550.0	29.8	29.8	-47.61	-3,014.2	7.3	296.7	236.9	59.77	4.963			
15,700.0	12,750.0	15,490.5	12,550.0	30.6	30.5	-47.61	-3,114.2	8.3	296.7	235.9	60.71	4.886			
15,800.0	12,750.0	15,590.5	12,550.0	31.3	31.3	-47.61	-3,214.2	9.3	296.6	235.0	61.67	4.810			
15,900.0	12,750.0	15,690.5	12,550.0	32.0	32.0	-47.61	-3,314.2	10.3	296.6	234.0	62.64	4.735			
16,000.0	12,750.0	15,790.5	12,550.0	32.8	32.7	-47.60	-3,414.2	11.2	296.6	233.0	63.63	4.662			
16,100.0	12,750.0	15,890.5	12,550.0	33.5	33.5	-47.60	-3,514.2	12.2	296.6	232.0	64.63	4.589			
16,200.0	12,750.0	15,990.5	12,550.0	34.3	34.3	-47.60	-3,614.2	13.2	296.6	230.9	65.65	4.518			
16,300.0	12,750.0	16,090.5	12,550.0	35.0	35.0	-47.60	-3,714.2	14.2	296.6	229.9	66.68	4.447			
16,400.0	12,750.0	16,190.5	12,550.0	35.8	35.8	-47.60	-3,814.2	15.2	296.6	228.8	67.73	4.379			
16,500.0	12,750.0	16,290.5	12,550.0	36.6	36.6	-47.59	-3,914.2	16.1	296.5	227.8	68.78	4.311			
16,600.0	12,750.0	16,390.5	12,550.0	37.3	37.3	-47.59	-4,014.2	17.1	296.5	226.7	69.85	4.245			
16,700.0	12,750.0	16,490.5	12,550.0	38.1	38.1	-47.59	-4,114.1	18.1	296.5	225.6	70.93	4.180			
16,800.0	12,750.0	16,590.5	12,550.0	38.9	38.9	-47.59	-4,214.1	19.1	296.5	224.5	72.02	4.117			
16,900.0	12,750.0	16,690.5	12,550.0	39.7	39.7	-47.58	-4,314.1	20.0	296.5	223.4	73.12	4.055			

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN EAST
Project: LEA COUNTY SOUTHEAST
Reference Site: BOATER FED COM PROJECT
Site Error: 0.0 usft
Reference Well: _BOATER FED COM 802H
Well Error: 0.0 usft
Reference Wellbore: OWB
Reference Design: PWP0
Local Co-ordinate Reference: Well_BOATER FED COM 802H - Slot BOATER FED COM 802H
TVD Reference: KB @ 3252.0usft
MD Reference: KB @ 3252.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDT 17 Permian Prod
Offset TVD Reference: Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 701H - OWB - PWP0
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR
Reference: Offset
Semi Major Axis: Reference Offset
Highside Toolface: Reference Offset
Offset Wellbore Centre: +N/-S (+usft) +E/-W (+usft)
Distance: Between Centres (usft) Between Ellipses (usft) No-Go Distance (usft) Separation Factor
Warning

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 702H - OWB - PWP0														Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.60	0.6	90.0	90.0						
100.0	100.0	100.0	100.0	0.8	0.8	0.8	89.60	0.6	90.0	90.0	88.0	1.99	45.198			
200.0	200.0	200.0	200.0	1.4	1.4	1.4	89.60	0.6	90.0	90.0	86.7	3.31	27.178			
300.0	300.0	300.0	300.0	1.9	1.9	1.9	89.60	0.6	90.0	90.0	85.8	4.20	21.452			
400.0	400.0	400.0	400.0	2.2	2.2	2.2	89.60	0.6	90.0	90.0	85.1	4.91	18.323			
500.0	500.0	500.0	500.0	2.6	2.6	2.6	89.60	0.6	90.0	90.0	84.5	5.53	16.266			
600.0	600.0	600.0	600.0	2.8	2.8	2.8	89.60	0.6	90.0	90.0	83.9	6.09	14.778			
700.0	700.0	700.0	700.0	3.1	3.1	3.1	89.60	0.6	90.0	90.0	83.4	6.60	13.634			
800.0	800.0	800.0	800.0	3.3	3.3	3.3	89.60	0.6	90.0	90.0	82.9	7.08	12.718			
900.0	900.0	900.0	900.0	3.6	3.6	3.6	89.60	0.6	90.0	90.0	82.5	7.52	11.962			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	3.8	89.60	0.6	90.0	90.0	82.1	7.95	11.324			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	4.0	89.60	0.6	90.0	90.0	81.6	8.35	10.776			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	4.2	89.60	0.6	90.0	90.0	81.3	8.74	10.298			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	4.4	89.60	0.6	90.0	90.0	80.9	9.11	9.876			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	4.6	89.60	0.6	90.0	90.0	80.5	9.47	9.500			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	4.7	89.60	0.6	90.0	90.0	80.2	9.82	9.162			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	4.9	89.60	0.6	90.0	90.0	79.8	10.16	8.856			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	5.1	89.60	0.6	90.0	90.0	79.5	10.49	8.577			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	5.2	89.60	0.6	90.0	90.0	79.2	10.82	8.321			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	5.4	89.60	0.6	90.0	90.0	78.9	11.13	8.086			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	5.6	89.60	0.6	90.0	90.0	78.6	11.44	7.867 CC, ES			
2,100.0	2,100.0	2,096.8	2,096.8	5.8	5.8	5.8	174.48	0.7	91.6	93.4	81.5	11.88	7.864 SF			
2,200.0	2,199.8	2,193.0	2,192.9	6.0	6.0	6.0	174.67	0.8	96.5	103.7	91.4	12.28	8.443			
2,300.0	2,299.5	2,287.8	2,287.4	6.2	6.2	6.2	174.92	1.0	104.4	120.7	108.0	12.66	9.530			
2,400.0	2,398.7	2,380.7	2,379.6	6.4	6.4	6.4	175.16	1.3	115.2	144.3	131.3	13.03	11.077			
2,455.5	2,453.6	2,431.2	2,429.6	6.5	6.5	6.5	175.28	1.5	122.4	160.2	147.0	13.16	12.173			
2,500.0	2,497.5	2,471.2	2,469.1	6.5	6.6	6.6	175.38	1.6	128.6	174.0	160.8	13.25	13.129			
2,600.0	2,596.3	2,559.6	2,556.1	6.6	6.7	6.7	175.53	2.1	144.5	207.2	193.7	13.51	15.333			
2,700.0	2,695.0	2,650.2	2,644.7	6.8	7.1	7.1	175.62	2.6	163.0	242.8	228.9	13.97	17.386			
2,800.0	2,793.7	2,743.5	2,736.0	6.9	7.4	7.4	175.69	3.1	182.3	278.7	264.3	14.43	19.313			
2,900.0	2,892.5	2,836.8	2,827.3	7.1	7.5	7.5	175.74	3.6	201.7	314.6	299.9	14.69	21.413			
3,000.0	2,991.2	2,930.2	2,918.6	7.2	7.6	7.6	175.78	4.1	221.0	350.5	335.6	14.96	23.431			
3,100.0	3,090.0	3,023.5	3,009.9	7.4	7.8	7.8	175.81	4.6	240.3	386.4	371.2	15.23	25.368			
3,200.0	3,188.7	3,116.8	3,101.2	7.5	7.9	7.9	175.84	5.1	259.7	422.3	406.8	15.51	27.228			
3,300.0	3,287.4	3,210.2	3,192.5	7.7	8.0	8.0	175.86	5.6	279.0	458.2	442.4	15.80	29.000			
3,305.4	3,292.7	3,215.2	3,197.5	7.7	8.0	8.0	175.87	5.6	280.1	460.2	444.3	15.82	29.094			
3,400.0	3,386.3	3,303.8	3,284.1	7.8	8.2	8.2	175.90	6.1	298.4	493.4	477.3	16.08	30.681			
3,500.0	3,485.4	3,398.0	3,376.3	8.0	8.3	8.3	175.92	6.6	317.9	526.9	510.6	16.37	32.185			
3,600.0	3,584.7	3,492.8	3,469.0	8.1	8.5	8.5	175.93	7.1	337.6	558.8	542.2	16.67	33.530			
3,700.0	3,684.2	3,588.1	3,562.2	8.3	8.6	8.6	175.93	7.7	357.3	589.1	572.1	16.96	34.723			
3,800.0	3,783.9	3,683.9	3,656.0	8.4	8.8	8.8	175.91	8.2	377.2	617.6	600.4	17.27	35.774			
3,900.0	3,883.7	3,780.2	3,750.2	8.6	8.9	8.9	175.89	8.7	397.1	644.5	627.0	17.57	36.689			
4,000.0	3,983.6	3,877.0	3,844.9	8.7	9.1	9.1	175.85	9.2	417.2	669.8	651.9	17.87	37.480			
4,100.0	4,083.5	3,974.2	3,940.0	8.9	9.2	9.2	175.81	9.8	437.3	693.3	675.1	18.17	38.154			
4,200.0	4,183.5	4,071.8	4,035.4	9.0	9.4	9.4	175.76	10.3	457.6	715.1	696.7	18.46	38.730			
4,216.5	4,200.0	4,087.9	4,051.2	9.0	9.4	9.4	90.95	10.4	460.9	718.6	700.1	18.50	38.843			
4,300.0	4,283.5	4,169.6	4,131.1	9.1	9.6	9.6	90.89	10.8	477.8	735.9	717.1	18.73	39.299			
4,400.0	4,383.5	4,267.4	4,226.8	9.2	9.7	9.7	90.82	11.4	498.1	756.6	737.6	19.00	39.828			
4,500.0	4,483.5	4,365.2	4,322.5	9.3	9.9	9.9	90.76	11.9	518.4	777.3	758.0	19.27	40.339			
4,600.0	4,583.5	4,463.1	4,418.2	9.4	10.1	10.1	90.70	12.4	538.6	798.0	778.5	19.54	40.832			
4,700.0	4,683.5	4,560.9	4,513.9	9.5	10.3	10.3	90.65	13.0	558.9	818.7	798.9	19.82	41.308			

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 802H - Slot BOATER FED COM 802H
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 802H	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)			
4,800.0	4,783.5	4,658.7	4,609.6	9.6	10.4	90.59	13.5	579.2	839.4	819.3	20.10	41.768	
4,900.0	4,883.5	4,756.5	4,705.3	9.7	10.6	90.54	14.0	599.5	860.2	839.8	20.38	42.213	
5,000.0	4,983.5	4,854.4	4,801.0	9.8	10.8	90.49	14.6	619.7	880.9	860.2	20.66	42.642	
5,100.0	5,083.5	4,952.2	4,896.7	9.9	11.0	90.45	15.1	640.0	901.6	880.7	20.94	43.058	
5,200.0	5,183.5	5,050.0	4,992.4	10.0	11.2	90.40	15.6	660.3	922.3	901.1	21.22	43.460	
5,300.0	5,283.5	5,147.9	5,088.1	10.1	11.3	90.36	16.2	680.5	943.0	921.5	21.51	43.848	
5,400.0	5,383.5	5,245.7	5,183.8	10.2	11.5	90.32	16.7	700.8	963.7	942.0	21.79	44.224	
5,500.0	5,483.5	5,343.5	5,279.5	10.2	11.7	90.28	17.2	721.1	984.5	962.4	22.08	44.588	

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 802H - Slot BOATER FED COM 802H
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 802H	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											Rule Assigned:			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	0.0	0.0	-90.39	-0.4	-59.7	59.7						
100.0	100.0	100.0	100.0	0.8	0.8	-90.39	-0.4	-59.7	59.7	57.7	1.99	29.991			
200.0	200.0	200.0	200.0	1.4	1.4	-90.39	-0.4	-59.7	59.7	56.4	3.31	18.034			
300.0	300.0	300.0	300.0	1.9	1.9	-90.39	-0.4	-59.7	59.7	55.5	4.20	14.235			
400.0	400.0	400.0	400.0	2.2	2.2	-90.39	-0.4	-59.7	59.7	54.8	4.91	12.158			
500.0	500.0	500.0	500.0	2.6	2.6	-90.39	-0.4	-59.7	59.7	54.2	5.53	10.793			
600.0	600.0	600.0	600.0	2.8	2.8	-90.39	-0.4	-59.7	59.7	53.6	6.09	9.806			
700.0	700.0	700.0	700.0	3.1	3.1	-90.39	-0.4	-59.7	59.7	53.1	6.60	9.047			
800.0	800.0	800.0	800.0	3.3	3.3	-90.39	-0.4	-59.7	59.7	52.6	7.08	8.439			
900.0	900.0	900.0	900.0	3.6	3.6	-90.39	-0.4	-59.7	59.7	52.2	7.52	7.938			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-90.39	-0.4	-59.7	59.7	51.8	7.95	7.514			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-90.39	-0.4	-59.7	59.7	51.4	8.35	7.150			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-90.39	-0.4	-59.7	59.7	51.0	8.74	6.833			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-90.39	-0.4	-59.7	59.7	50.6	9.11	6.553			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-90.39	-0.4	-59.7	59.7	50.2	9.47	6.304			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.39	-0.4	-59.7	59.7	49.9	9.82	6.080			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	-90.39	-0.4	-59.7	59.7	49.6	10.16	5.876			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	-90.39	-0.4	-59.7	59.7	49.2	10.49	5.691			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	-90.39	-0.4	-59.7	59.7	48.9	10.82	5.522			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	-90.39	-0.4	-59.7	59.7	48.6	11.13	5.365			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	-90.39	-0.4	-59.7	59.7	48.3	11.44	5.220			
2,100.0	2,100.0	2,098.0	2,097.9	5.8	5.8	-5.71	-0.4	-61.4	59.7	47.8	11.88	5.024			
2,200.0	2,199.8	2,195.9	2,195.8	6.0	6.0	-6.08	-0.3	-66.4	59.6	47.3	12.28	4.853			
2,300.0	2,299.5	2,293.9	2,293.4	6.2	6.2	-6.71	-0.2	-74.8	59.5	46.8	12.67	4.695			
2,400.0	2,398.7	2,391.8	2,390.6	6.4	6.4	-7.58	0.0	-86.5	59.3	46.3	13.04	4.548			
2,455.5	2,453.6	2,446.3	2,444.5	6.5	6.5	-8.18	0.1	-94.4	59.2	46.0	13.18	4.493			
2,461.3	2,459.3	2,451.9	2,450.0	6.5	6.5	-8.25	0.1	-95.3	59.2	46.0	13.19	4.488 CC, ES			
2,500.0	2,497.5	2,489.8	2,487.4	6.5	6.6	-8.67	0.2	-101.5	59.5	46.2	13.27	4.479			
2,600.0	2,596.3	2,587.7	2,583.6	6.6	6.8	-9.54	0.5	-119.8	62.5	48.9	13.56	4.610			
2,700.0	2,695.0	2,685.3	2,678.7	6.8	7.0	-10.03	0.8	-141.3	68.9	55.1	13.84	4.982			
2,800.0	2,793.7	2,782.3	2,772.6	6.9	7.2	-10.18	1.2	-165.9	78.8	64.6	14.12	5.579			
2,900.0	2,892.5	2,878.6	2,864.9	7.1	7.4	-10.08	1.6	-193.4	91.9	77.5	14.39	6.386			
3,000.0	2,991.2	2,974.3	2,955.6	7.2	7.5	-9.83	2.1	-223.8	108.3	93.7	14.60	7.420			
3,100.0	3,090.0	3,072.7	3,048.5	7.4	7.7	-9.59	2.6	-256.2	126.0	111.1	14.89	8.465			
3,200.0	3,188.7	3,171.1	3,141.4	7.5	7.8	-9.40	3.0	-288.7	143.7	128.5	15.20	9.456			
3,300.0	3,287.4	3,269.5	3,234.3	7.7	8.0	-9.26	3.5	-321.2	161.5	145.9	15.53	10.397			
3,305.4	3,292.7	3,274.9	3,239.3	7.7	8.0	-9.25	3.6	-322.9	162.4	146.9	15.55	10.446			
3,400.0	3,386.3	3,367.8	3,327.1	7.8	8.1	-9.13	4.0	-353.6	179.9	164.1	15.85	11.352			
3,500.0	3,485.4	3,465.8	3,419.6	8.0	8.3	-8.95	4.5	-385.9	200.1	183.9	16.18	12.365			
3,600.0	3,584.7	3,563.4	3,511.7	8.1	8.4	-8.75	5.0	-418.1	222.0	205.4	16.52	13.438			
3,700.0	3,684.2	3,660.5	3,603.4	8.3	8.6	-8.53	5.5	-450.2	245.5	228.6	16.85	14.566			
3,800.0	3,783.9	3,757.3	3,694.8	8.4	8.8	-8.30	6.0	-482.1	270.7	253.5	17.19	15.748			
3,900.0	3,883.7	3,853.6	3,785.7	8.6	8.9	-8.07	6.4	-513.9	297.6	280.1	17.53	16.981			
4,000.0	3,983.6	3,949.4	3,876.1	8.7	9.1	-7.84	6.9	-545.5	326.2	308.3	17.86	18.263			
4,100.0	4,083.5	4,044.7	3,966.1	8.9	9.3	-7.61	7.4	-577.0	356.4	338.2	18.19	19.593			
4,200.0	4,183.5	4,139.5	4,055.6	9.0	9.5	-7.40	7.9	-608.3	388.2	369.7	18.51	20.975			
4,216.5	4,200.0	4,155.1	4,070.3	9.0	9.5	-92.17	7.9	-613.4	393.6	375.1	18.55	21.220			
4,300.0	4,283.5	4,233.9	4,144.7	9.1	9.7	-91.97	8.3	-639.4	421.2	402.4	18.79	22.410			
4,400.0	4,383.5	4,328.3	4,233.8	9.2	9.9	-91.77	8.8	-670.6	454.1	435.1	19.09	23.794			
4,500.0	4,483.5	4,422.7	4,322.9	9.3	10.1	-91.59	9.3	-701.7	487.1	467.7	19.38	25.133			
4,600.0	4,583.5	4,517.1	4,412.0	9.4	10.3	-91.43	9.7	-732.8	520.1	500.4	19.68	26.429			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
4,700.0	4,683.5	4,611.5	4,501.1	9.5	10.5	-91.30	10.2	-764.0	553.1	533.1	19.98	27.683			
4,800.0	4,783.5	4,705.9	4,590.2	9.6	10.8	-91.17	10.7	-795.1	586.1	565.8	20.28	28.902			
4,900.0	4,883.5	4,809.3	4,688.0	9.7	11.0	-91.06	11.2	-828.7	618.5	597.9	20.60	30.019			
5,000.0	4,983.5	4,916.3	4,789.8	9.8	11.2	-90.96	11.7	-861.6	649.2	628.3	20.97	30.965			
5,100.0	5,083.5	5,024.5	4,893.5	9.9	11.5	-90.87	12.1	-892.9	678.2	656.8	21.33	31.800			
5,200.0	5,183.5	5,134.0	4,998.8	10.0	11.7	-90.79	12.6	-922.6	705.3	683.6	21.68	32.529			
5,300.0	5,283.5	5,244.6	5,105.8	10.1	12.0	-90.73	13.0	-950.5	730.5	708.5	22.03	33.157			
5,400.0	5,383.5	5,356.3	5,214.4	10.2	12.2	-90.67	13.4	-976.6	753.9	731.5	22.38	33.691			
5,500.0	5,483.5	5,469.0	5,324.5	10.2	12.4	-90.62	13.8	-1,000.8	775.4	752.7	22.72	34.134			
5,600.0	5,583.5	5,582.7	5,435.9	10.3	12.7	-90.58	14.1	-1,023.1	794.9	771.9	23.05	34.492			
5,700.0	5,683.5	5,697.1	5,548.7	10.4	12.9	-90.54	14.4	-1,043.2	812.5	789.1	23.37	34.767			
5,800.0	5,783.5	5,812.4	5,662.5	10.5	13.1	-90.51	14.7	-1,061.2	828.1	804.4	23.68	34.966			
5,900.0	5,883.5	5,928.4	5,777.4	10.6	13.2	-90.49	14.9	-1,077.0	841.7	817.7	23.99	35.091			
6,000.0	5,983.5	6,045.0	5,893.2	10.7	13.4	-90.47	15.1	-1,090.5	853.3	829.0	24.28	35.146			
6,100.0	6,083.5	6,162.0	6,009.7	10.8	13.6	-90.45	15.3	-1,101.7	862.9	838.3	24.56	35.134			
6,200.0	6,183.5	6,279.5	6,126.9	10.9	13.7	-90.43	15.4	-1,110.6	870.4	845.6	24.83	35.059			
6,300.0	6,283.5	6,397.3	6,244.5	11.0	13.9	-90.42	15.5	-1,117.0	875.9	850.8	25.08	34.924			
6,400.0	6,383.5	6,515.3	6,362.4	11.1	14.1	-90.42	15.6	-1,121.1	879.3	854.0	25.31	34.738			
6,500.0	6,483.5	6,633.5	6,480.5	11.2	14.2	-90.42	15.6	-1,122.7	880.7	855.2	25.50	34.535			
6,600.0	6,583.5	6,736.4	6,583.5	11.3	14.2	-90.42	15.6	-1,122.7	880.7	855.1	25.63	34.365			
6,700.0	6,683.5	6,836.4	6,683.5	11.4	14.3	-90.42	15.6	-1,122.7	880.7	855.0	25.78	34.168			
6,800.0	6,783.5	6,936.4	6,783.5	11.4	14.4	-90.42	15.6	-1,122.7	880.7	854.8	25.93	33.973			
6,900.0	6,883.5	7,036.4	6,883.5	11.5	14.4	-90.42	15.6	-1,122.7	880.7	854.7	26.07	33.779			
7,000.0	6,983.5	7,136.4	6,983.5	11.6	14.5	-90.42	15.6	-1,122.7	880.7	854.5	26.22	33.588			
7,100.0	7,083.5	7,236.4	7,083.5	11.7	14.5	-90.42	15.6	-1,122.7	880.7	854.4	26.37	33.399			
7,200.0	7,183.5	7,336.4	7,183.5	11.8	14.6	-90.42	15.6	-1,122.7	880.7	854.2	26.52	33.212			
7,300.0	7,283.5	7,436.4	7,283.5	11.9	14.7	-90.42	15.6	-1,122.7	880.7	854.1	26.67	33.026			
7,400.0	7,383.5	7,536.4	7,383.5	12.0	14.7	-90.42	15.6	-1,122.7	880.7	853.9	26.82	32.843			
7,500.0	7,483.5	7,636.4	7,483.5	12.1	14.8	-90.42	15.6	-1,122.7	880.7	853.8	26.97	32.661			
7,600.0	7,583.5	7,736.4	7,583.5	12.2	14.9	-90.42	15.6	-1,122.7	880.7	853.6	27.12	32.482			
7,700.0	7,683.5	7,836.4	7,683.5	12.3	14.9	-90.42	15.6	-1,122.7	880.7	853.5	27.26	32.304			
7,800.0	7,783.5	7,936.4	7,783.5	12.4	15.0	-90.42	15.6	-1,122.7	880.7	853.3	27.41	32.127			
7,900.0	7,883.5	8,036.4	7,883.5	12.4	15.1	-90.42	15.6	-1,122.7	880.7	853.2	27.56	31.953			
8,000.0	7,983.5	8,136.4	7,983.5	12.5	15.1	-90.42	15.6	-1,122.7	880.7	853.0	27.71	31.780			
8,100.0	8,083.5	8,236.4	8,083.5	12.6	15.2	-90.42	15.6	-1,122.7	880.7	852.9	27.86	31.609			
8,200.0	8,183.5	8,336.4	8,183.5	12.7	15.3	-90.42	15.6	-1,122.7	880.7	852.7	28.01	31.440			
8,300.0	8,283.5	8,436.4	8,283.5	12.8	15.3	-90.42	15.6	-1,122.7	880.7	852.6	28.16	31.272			
8,400.0	8,383.5	8,536.4	8,383.5	12.9	15.4	-90.42	15.6	-1,122.7	880.7	852.4	28.31	31.106			
8,500.0	8,483.5	8,636.4	8,483.5	13.0	15.5	-90.42	15.6	-1,122.7	880.7	852.3	28.46	30.942			
8,600.0	8,583.5	8,736.4	8,583.5	13.1	15.5	-90.42	15.6	-1,122.7	880.7	852.1	28.61	30.779			
8,700.0	8,683.5	8,836.4	8,683.5	13.2	15.6	-90.42	15.6	-1,122.7	880.7	852.0	28.77	30.618			
8,800.0	8,783.5	8,936.4	8,783.5	13.3	15.7	-90.42	15.6	-1,122.7	880.7	851.8	28.92	30.458			
8,900.0	8,883.5	9,036.4	8,883.5	13.3	15.8	-90.42	15.6	-1,122.7	880.7	851.7	29.07	30.300			
9,000.0	8,983.5	9,136.4	8,983.5	13.4	15.8	-90.42	15.6	-1,122.7	880.7	851.5	29.22	30.144			
9,100.0	9,083.5	9,236.4	9,083.5	13.5	15.9	-90.42	15.6	-1,122.7	880.7	851.4	29.37	29.989			
9,200.0	9,183.5	9,336.4	9,183.5	13.6	16.0	-90.42	15.6	-1,122.7	880.7	851.2	29.52	29.835			
9,300.0	9,283.5	9,436.4	9,283.5	13.7	16.0	-90.42	15.6	-1,122.7	880.7	851.1	29.67	29.683			
9,400.0	9,383.5	9,536.4	9,383.5	13.8	16.1	-90.42	15.6	-1,122.7	880.7	850.9	29.82	29.532			
9,500.0	9,483.5	9,636.4	9,483.5	13.9	16.2	-90.42	15.6	-1,122.7	880.7	850.8	29.97	29.383			
9,600.0	9,583.5	9,736.4	9,583.5	14.0	16.2	-90.42	15.6	-1,122.7	880.7	850.6	30.13	29.235			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
9,700.0	9,683.5	9,836.4	9,683.5	14.1	16.3	-90.42	15.6	-1,122.7	880.7	850.5	30.28	29.089			
9,800.0	9,783.5	9,936.4	9,783.5	14.1	16.4	-90.42	15.6	-1,122.7	880.7	850.3	30.43	28.944			
9,900.0	9,883.5	10,036.4	9,883.5	14.2	16.4	-90.42	15.6	-1,122.7	880.7	850.2	30.58	28.800			
10,000.0	9,983.5	10,136.4	9,983.5	14.3	16.5	-90.42	15.6	-1,122.7	880.7	850.0	30.73	28.658			
10,100.0	10,083.5	10,236.4	10,083.5	14.4	16.6	-90.42	15.6	-1,122.7	880.7	849.9	30.89	28.516			
10,200.0	10,183.5	10,336.4	10,183.5	14.5	16.7	-90.42	15.6	-1,122.7	880.7	849.7	31.04	28.377			
10,300.0	10,283.5	10,436.4	10,283.5	14.6	16.7	-90.42	15.6	-1,122.7	880.7	849.6	31.19	28.238			
10,400.0	10,383.5	10,536.4	10,383.5	14.7	16.8	-90.42	15.6	-1,122.7	880.7	849.4	31.34	28.101			
10,500.0	10,483.5	10,636.4	10,483.5	14.8	16.9	-90.42	15.6	-1,122.7	880.7	849.2	31.49	27.965			
10,600.0	10,583.5	10,736.4	10,583.5	14.8	16.9	-90.42	15.6	-1,122.7	880.7	849.1	31.65	27.830			
10,700.0	10,683.5	10,836.4	10,683.5	14.9	17.0	-90.42	15.6	-1,122.7	880.7	848.9	31.80	27.697			
10,800.0	10,783.5	10,936.4	10,783.5	15.0	17.1	-90.42	15.6	-1,122.7	880.7	848.8	31.95	27.564			
10,900.0	10,883.5	11,036.4	10,883.5	15.1	17.2	-90.42	15.6	-1,122.7	880.7	848.6	32.11	27.433			
11,000.0	10,983.5	11,136.4	10,983.5	15.2	17.2	-90.42	15.6	-1,122.7	880.7	848.5	32.26	27.303			
11,100.0	11,083.5	11,236.4	11,083.5	15.3	17.3	-90.42	15.6	-1,122.7	880.7	848.3	32.41	27.174			
11,200.0	11,183.5	11,336.4	11,183.5	15.4	17.4	-90.42	15.6	-1,122.7	880.7	848.2	32.56	27.047			
11,300.0	11,283.5	11,436.4	11,283.5	15.5	17.4	-90.42	15.6	-1,122.7	880.7	848.0	32.72	26.920			
11,400.0	11,383.5	11,536.4	11,383.5	15.5	17.5	-90.42	15.6	-1,122.7	880.7	847.9	32.87	26.795			
11,500.0	11,483.5	11,636.4	11,483.5	15.6	17.6	-90.42	15.6	-1,122.7	880.7	847.7	33.02	26.670			
11,600.0	11,583.5	11,736.4	11,583.5	15.7	17.7	-90.42	15.6	-1,122.7	880.7	847.6	33.18	26.547			
11,700.0	11,683.5	11,836.4	11,683.5	15.8	17.7	-90.42	15.6	-1,122.7	880.7	847.4	33.33	26.425			
11,800.0	11,783.5	11,936.4	11,783.5	15.9	17.8	-90.42	15.6	-1,122.7	880.7	847.3	33.48	26.304			
11,900.0	11,883.5	12,036.4	11,883.5	16.0	17.9	-90.42	15.6	-1,122.7	880.7	847.1	33.64	26.184			
12,000.0	11,983.5	12,136.4	11,983.5	16.1	18.0	-90.42	15.6	-1,122.7	880.7	847.0	33.79	26.065			
12,100.0	12,083.5	12,236.4	12,083.5	16.2	18.0	-90.42	15.6	-1,122.7	880.7	846.8	33.94	25.947			
12,200.0	12,183.5	12,336.4	12,183.5	16.2	18.1	-90.42	15.6	-1,122.7	880.7	846.6	34.10	25.830			
12,289.0	12,272.5	12,425.4	12,272.5	16.3	18.2	-90.42	15.6	-1,122.7	880.7	846.5	34.22	25.737			
12,300.0	12,283.5	12,436.5	12,283.6	16.3	18.2	90.15	15.5	-1,122.7	880.7	846.5	34.22	25.736			
12,325.0	12,308.5	12,461.6	12,308.7	16.3	18.2	90.15	14.2	-1,122.7	880.7	846.5	34.21	25.743			
12,350.0	12,333.4	12,486.7	12,333.7	16.3	18.2	90.15	11.7	-1,122.7	880.7	846.5	34.20	25.755			
12,375.0	12,358.1	12,511.9	12,358.5	16.3	18.2	90.15	7.8	-1,122.6	880.7	846.6	34.18	25.768			
12,400.0	12,382.5	12,537.0	12,383.1	16.3	18.2	90.15	2.6	-1,122.6	880.7	846.6	34.16	25.782			
12,425.0	12,406.7	12,562.1	12,407.3	16.3	18.2	90.15	-3.8	-1,122.5	880.7	846.6	34.14	25.798			
12,450.0	12,430.5	12,587.2	12,431.2	16.2	18.2	90.14	-11.6	-1,122.4	880.7	846.6	34.12	25.814			
12,475.0	12,453.9	12,612.3	12,454.7	16.2	18.2	90.14	-20.5	-1,122.4	880.7	846.6	34.10	25.830			
12,500.0	12,476.7	12,637.5	12,477.6	16.2	18.2	90.14	-30.7	-1,122.3	880.7	846.7	34.08	25.847			
12,525.0	12,499.0	12,662.6	12,500.0	16.2	18.2	90.14	-42.1	-1,122.1	880.7	846.7	34.05	25.863			
12,550.0	12,520.7	12,687.7	12,521.8	16.2	18.2	90.13	-54.6	-1,122.0	880.7	846.7	34.03	25.879			
12,575.0	12,541.7	12,712.8	12,542.8	16.2	18.2	90.13	-68.3	-1,121.9	880.7	846.7	34.01	25.895			
12,600.0	12,562.0	12,737.9	12,563.1	16.2	18.2	90.12	-83.0	-1,121.7	880.7	846.7	33.99	25.909			
12,625.0	12,581.5	12,763.0	12,582.6	16.2	18.2	90.12	-98.8	-1,121.6	880.7	846.8	33.98	25.922			
12,650.0	12,600.1	12,788.1	12,601.3	16.2	18.2	90.11	-115.6	-1,121.4	880.7	846.8	33.96	25.933			
12,675.0	12,617.8	12,813.2	12,619.0	16.2	18.2	90.11	-133.4	-1,121.2	880.7	846.8	33.95	25.941			
12,700.0	12,634.6	12,838.2	12,635.8	16.2	18.2	90.10	-152.0	-1,121.0	880.7	846.8	33.94	25.947			
12,725.0	12,650.4	12,863.3	12,651.5	16.2	18.3	90.09	-171.5	-1,120.9	880.7	846.8	33.94	25.950			
12,750.0	12,665.2	12,888.4	12,666.3	16.2	18.3	90.09	-191.8	-1,120.7	880.7	846.8	33.94	25.949			
12,775.0	12,678.8	12,913.5	12,679.9	16.2	18.3	90.08	-212.8	-1,120.4	880.7	846.8	33.95	25.944			
12,800.0	12,691.4	12,938.5	12,692.4	16.3	18.3	90.07	-234.6	-1,120.2	880.7	846.8	33.96	25.936			
12,825.0	12,702.8	12,963.6	12,703.7	16.3	18.4	90.07	-256.9	-1,120.0	880.7	846.8	33.98	25.922			
12,850.0	12,713.1	12,988.6	12,713.9	16.3	18.4	90.06	-279.8	-1,119.8	880.7	846.7	34.00	25.905			
12,875.0	12,722.1	13,013.7	12,722.8	16.3	18.4	90.05	-303.2	-1,119.5	880.7	846.7	34.03	25.883			

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 802H - Slot BOATER FED COM 802H
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 802H	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										Rule Assigned:				Offset Well Error:		0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
12,900.0	12,729.9	13,038.7	12,730.5	16.3	18.5	90.04	-327.0	-1,119.3	880.7	846.7	34.06	25.856				
12,925.0	12,736.4	13,063.7	12,737.0	16.3	18.5	90.04	-351.2	-1,119.1	880.7	846.6	34.11	25.824				
12,950.0	12,741.7	13,088.8	12,742.1	16.4	18.5	90.03	-375.7	-1,118.8	880.7	846.6	34.15	25.787				
12,975.0	12,745.7	13,113.8	12,746.0	16.4	18.6	90.02	-400.4	-1,118.6	880.7	846.5	34.21	25.746				
13,000.0	12,748.4	13,138.8	12,748.6	16.4	18.6	90.01	-425.3	-1,118.3	880.7	846.5	34.27	25.701				
13,025.0	12,749.8	13,163.8	12,749.8	16.4	18.7	90.00	-450.2	-1,118.1	880.7	846.4	34.33	25.651				
13,039.0	12,750.0	13,177.8	12,750.0	16.4	18.7	90.00	-464.2	-1,117.9	880.7	846.4	34.37	25.622				
13,100.0	12,750.0	13,238.8	12,750.0	16.5	18.8	90.00	-525.2	-1,117.3	880.7	846.2	34.58	25.470				
13,200.0	12,750.0	13,338.8	12,750.0	16.7	19.1	90.00	-625.2	-1,116.3	880.7	845.7	34.99	25.171				
13,300.0	12,750.0	13,438.8	12,750.0	17.0	19.4	90.00	-725.2	-1,115.3	880.7	845.3	35.48	24.825				
13,400.0	12,750.0	13,538.8	12,750.0	17.3	19.7	90.00	-825.2	-1,114.3	880.7	844.7	36.04	24.438				
13,500.0	12,750.0	13,638.8	12,750.0	17.6	20.0	90.00	-925.2	-1,113.4	880.7	844.1	36.67	24.016				
13,600.0	12,750.0	13,738.8	12,750.0	17.9	20.4	90.00	-1,025.2	-1,112.4	880.7	843.4	37.37	23.567				
13,700.0	12,750.0	13,838.8	12,750.0	18.3	20.7	90.00	-1,125.2	-1,111.4	880.7	842.6	38.14	23.095				
13,800.0	12,750.0	13,938.8	12,750.0	18.8	21.2	90.00	-1,225.2	-1,110.4	880.7	841.8	38.96	22.607				
13,900.0	12,750.0	14,038.8	12,750.0	19.2	21.6	90.00	-1,325.2	-1,109.4	880.7	840.9	39.84	22.109				
14,000.0	12,750.0	14,138.8	12,750.0	19.7	22.1	90.00	-1,425.2	-1,108.4	880.7	840.0	40.77	21.604				
14,100.0	12,750.0	14,238.8	12,750.0	20.2	22.5	90.00	-1,525.2	-1,107.4	880.7	839.0	41.75	21.098				
14,200.0	12,750.0	14,338.8	12,750.0	20.7	23.0	90.00	-1,625.2	-1,106.4	880.7	838.0	42.77	20.592				
14,300.0	12,750.0	14,438.8	12,750.0	21.3	23.6	90.00	-1,725.2	-1,105.4	880.7	836.9	43.84	20.091				
14,400.0	12,750.0	14,538.8	12,750.0	21.9	24.1	90.00	-1,825.2	-1,104.4	880.7	835.8	44.94	19.597				
14,500.0	12,750.0	14,638.8	12,750.0	22.5	24.6	90.00	-1,925.2	-1,103.4	880.7	834.6	46.08	19.112				
14,600.0	12,750.0	14,738.8	12,750.0	23.1	25.2	90.00	-2,025.2	-1,102.4	880.7	833.5	47.26	18.637				
14,700.0	12,750.0	14,838.8	12,750.0	23.7	25.8	90.00	-2,125.2	-1,101.4	880.7	832.3	48.46	18.173				
14,800.0	12,750.0	14,938.8	12,750.0	24.3	26.4	90.00	-2,225.1	-1,100.4	880.7	831.0	49.70	17.721				
14,900.0	12,750.0	15,038.8	12,750.0	25.0	27.0	90.00	-2,325.1	-1,099.4	880.7	829.8	50.96	17.282				
15,000.0	12,750.0	15,138.8	12,750.0	25.6	27.7	90.00	-2,425.1	-1,098.4	880.7	828.5	52.25	16.857				
15,100.0	12,750.0	15,238.8	12,750.0	26.3	28.3	90.00	-2,525.1	-1,097.4	880.7	827.2	53.56	16.445				
15,200.0	12,750.0	15,338.8	12,750.0	27.0	28.9	90.00	-2,625.1	-1,096.4	880.7	825.8	54.89	16.046				
15,300.0	12,750.0	15,438.8	12,750.0	27.7	29.6	90.00	-2,725.1	-1,095.4	880.7	824.5	56.24	15.661				
15,400.0	12,750.0	15,538.8	12,750.0	28.4	30.3	90.00	-2,825.1	-1,094.4	880.7	823.1	57.61	15.289				
15,500.0	12,750.0	15,638.8	12,750.0	29.1	31.0	90.00	-2,925.1	-1,093.4	880.7	821.7	58.99	14.930				
15,600.0	12,750.0	15,738.8	12,750.0	29.8	31.6	90.00	-3,025.1	-1,092.5	880.7	820.3	60.39	14.583				
15,700.0	12,750.0	15,838.8	12,750.0	30.6	32.3	90.00	-3,125.1	-1,091.5	880.7	818.9	61.81	14.249				
15,800.0	12,750.0	15,938.8	12,750.0	31.3	33.0	90.00	-3,225.1	-1,090.5	880.7	817.5	63.24	13.927				
15,900.0	12,750.0	16,038.8	12,750.0	32.0	33.7	90.00	-3,325.1	-1,089.5	880.7	816.0	64.68	13.616				
16,000.0	12,750.0	16,138.8	12,750.0	32.8	34.5	90.00	-3,425.1	-1,088.5	880.7	814.6	66.14	13.317				
16,100.0	12,750.0	16,238.8	12,750.0	33.5	35.2	90.00	-3,525.1	-1,087.5	880.7	813.1	67.60	13.028				
16,200.0	12,750.0	16,338.8	12,750.0	34.3	35.9	90.00	-3,625.1	-1,086.5	880.7	811.6	69.08	12.749				
16,300.0	12,750.0	16,438.8	12,750.0	35.0	36.7	90.00	-3,725.1	-1,085.5	880.7	810.2	70.57	12.481				
16,400.0	12,750.0	16,538.8	12,750.0	35.8	37.4	90.00	-3,825.1	-1,084.5	880.7	808.7	72.06	12.222				
16,500.0	12,750.0	16,638.8	12,750.0	36.6	38.1	90.00	-3,925.1	-1,083.5	880.7	807.2	73.57	11.972				
16,600.0	12,750.0	16,738.8	12,750.0	37.3	38.9	90.00	-4,025.1	-1,082.5	880.7	805.6	75.08	11.731				
16,700.0	12,750.0	16,838.8	12,750.0	38.1	39.6	90.00	-4,125.1	-1,081.5	880.7	804.1	76.60	11.498				
16,800.0	12,750.0	16,938.8	12,750.0	38.9	40.4	90.00	-4,225.0	-1,080.5	880.7	802.6	78.13	11.273				
16,900.0	12,750.0	17,038.8	12,750.0	39.7	41.2	90.00	-4,325.0	-1,079.5	880.7	801.1	79.66	11.056				
17,000.0	12,750.0	17,138.8	12,750.0	40.5	41.9	90.00	-4,425.0	-1,078.5	880.7	799.5	81.20	10.846				
17,100.0	12,750.0	17,238.8	12,750.0	41.3	42.7	90.00	-4,525.0	-1,077.5	880.7	798.0	82.75	10.643				
17,200.0	12,750.0	17,338.8	12,750.0	42.1	43.5	90.00	-4,625.0	-1,076.5	880.7	796.4	84.30	10.447				
17,300.0	12,750.0	17,438.8	12,750.0	42.8	44.2	90.00	-4,725.0	-1,075.5	880.7	794.9	85.86	10.258				

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
17,400.0	12,750.0	17,538.8	12,750.0	43.6	45.0	90.00	-4,825.0	-1,074.5	880.7	793.3	87.42	10.074			
17,500.0	12,750.0	17,638.8	12,750.0	44.4	45.8	90.00	-4,925.0	-1,073.5	880.7	791.7	88.99	9.897			
17,600.0	12,750.0	17,738.8	12,750.0	45.2	46.6	90.00	-5,025.0	-1,072.5	880.7	790.2	90.56	9.725			
17,700.0	12,750.0	17,838.8	12,750.0	46.0	47.4	90.00	-5,125.0	-1,071.5	880.7	788.6	92.14	9.559			
17,800.0	12,750.0	17,938.8	12,750.0	46.9	48.2	90.00	-5,225.0	-1,070.6	880.7	787.0	93.72	9.397			
17,900.0	12,750.0	18,038.8	12,750.0	47.7	49.0	90.00	-5,325.0	-1,069.6	880.7	785.4	95.30	9.241			
18,000.0	12,750.0	18,138.8	12,750.0	48.5	49.7	90.00	-5,425.0	-1,068.6	880.7	783.8	96.89	9.090			
18,100.0	12,750.0	18,238.8	12,750.0	49.3	50.5	90.00	-5,525.0	-1,067.6	880.7	782.2	98.48	8.943			
18,200.0	12,750.0	18,338.8	12,750.0	50.1	51.3	90.00	-5,625.0	-1,066.6	880.7	780.6	100.08	8.800			
18,300.0	12,750.0	18,438.8	12,750.0	50.9	52.1	90.00	-5,725.0	-1,065.6	880.7	779.0	101.68	8.662			
18,400.0	12,750.0	18,538.8	12,750.0	51.7	52.9	90.00	-5,825.0	-1,064.6	880.7	777.4	103.28	8.527			
18,500.0	12,750.0	18,638.8	12,750.0	52.5	53.7	90.00	-5,925.0	-1,063.6	880.7	775.8	104.88	8.397			
18,600.0	12,750.0	18,738.8	12,750.0	53.4	54.6	90.00	-6,025.0	-1,062.6	880.7	774.2	106.49	8.270			
18,700.0	12,750.0	18,838.8	12,750.0	54.2	55.4	90.00	-6,125.0	-1,061.6	880.7	772.6	108.10	8.147			
18,800.0	12,750.0	18,938.8	12,750.0	55.0	56.2	90.00	-6,224.9	-1,060.6	880.7	771.0	109.71	8.027			
18,900.0	12,750.0	19,038.8	12,750.0	55.8	57.0	90.00	-6,324.9	-1,059.6	880.7	769.4	111.33	7.911			
19,000.0	12,750.0	19,138.8	12,750.0	56.6	57.8	90.00	-6,424.9	-1,058.6	880.7	767.8	112.95	7.798			
19,100.0	12,750.0	19,238.8	12,750.0	57.5	58.6	90.00	-6,524.9	-1,057.6	880.7	766.1	114.57	7.687			
19,200.0	12,750.0	19,338.8	12,750.0	58.3	59.4	90.00	-6,624.9	-1,056.6	880.7	764.5	116.19	7.580			
19,300.0	12,750.0	19,438.8	12,750.0	59.1	60.2	90.00	-6,724.9	-1,055.6	880.7	762.9	117.81	7.475			
19,400.0	12,750.0	19,538.8	12,750.0	59.9	61.0	90.00	-6,824.9	-1,054.6	880.7	761.3	119.44	7.374			
19,500.0	12,750.0	19,638.8	12,750.0	60.8	61.9	90.00	-6,924.9	-1,053.6	880.7	759.6	121.07	7.275			
19,600.0	12,750.0	19,738.8	12,750.0	61.6	62.7	90.00	-7,024.9	-1,052.6	880.7	758.0	122.70	7.178			
19,700.0	12,750.0	19,838.8	12,750.0	62.4	63.5	90.00	-7,124.9	-1,051.6	880.7	756.4	124.33	7.084			
19,800.0	12,750.0	19,938.8	12,750.0	63.3	64.3	90.00	-7,224.9	-1,050.6	880.7	754.7	125.96	6.992			
19,900.0	12,750.0	20,038.8	12,750.0	64.1	65.1	90.00	-7,324.9	-1,049.7	880.7	753.1	127.59	6.902			
20,000.0	12,750.0	20,138.8	12,750.0	64.9	66.0	90.00	-7,424.9	-1,048.7	880.7	751.5	129.23	6.815			
20,100.0	12,750.0	20,238.8	12,750.0	65.8	66.8	90.00	-7,524.9	-1,047.7	880.7	749.8	130.87	6.730			
20,200.0	12,750.0	20,338.8	12,750.0	66.6	67.6	90.00	-7,624.9	-1,046.7	880.7	748.2	132.51	6.646			
20,300.0	12,750.0	20,438.8	12,750.0	67.4	68.4	90.00	-7,724.9	-1,045.7	880.7	746.6	134.15	6.565			
20,400.0	12,750.0	20,538.8	12,750.0	68.3	69.3	90.00	-7,824.9	-1,044.7	880.7	744.9	135.79	6.486			
20,500.0	12,750.0	20,638.8	12,750.0	69.1	70.1	90.00	-7,924.9	-1,043.7	880.7	743.3	137.43	6.408			
20,600.0	12,750.0	20,738.8	12,750.0	69.9	70.9	90.00	-8,024.9	-1,042.7	880.7	741.6	139.08	6.333			
20,700.0	12,750.0	20,838.8	12,750.0	70.8	71.7	90.00	-8,124.9	-1,041.7	880.7	740.0	140.72	6.258			
20,800.0	12,750.0	20,938.8	12,750.0	71.6	72.6	90.00	-8,224.8	-1,040.7	880.7	738.3	142.37	6.186			
20,900.0	12,750.0	21,038.8	12,750.0	72.4	73.4	90.00	-8,324.8	-1,039.7	880.7	736.7	144.01	6.115			
21,000.0	12,750.0	21,138.8	12,750.0	73.3	74.2	90.00	-8,424.8	-1,038.7	880.7	735.0	145.66	6.046			
21,100.0	12,750.0	21,238.8	12,750.0	74.1	75.1	90.00	-8,524.8	-1,037.7	880.7	733.4	147.31	5.978			
21,200.0	12,750.0	21,338.8	12,750.0	74.9	75.9	90.00	-8,624.8	-1,036.7	880.7	731.7	148.96	5.912			
21,300.0	12,750.0	21,438.8	12,750.0	75.8	76.7	90.00	-8,724.8	-1,035.7	880.7	730.1	150.62	5.847			
21,400.0	12,750.0	21,538.8	12,750.0	76.6	77.6	90.00	-8,824.8	-1,034.7	880.7	728.4	152.27	5.784			
21,500.0	12,750.0	21,638.8	12,750.0	77.5	78.4	90.00	-8,924.8	-1,033.7	880.7	726.8	153.92	5.722			
21,600.0	12,750.0	21,738.8	12,750.0	78.3	79.2	90.00	-9,024.8	-1,032.7	880.7	725.1	155.58	5.661			
21,700.0	12,750.0	21,838.8	12,750.0	79.1	80.1	90.00	-9,124.8	-1,031.7	880.7	723.5	157.23	5.601			
21,800.0	12,750.0	21,938.8	12,750.0	80.0	80.9	90.00	-9,224.8	-1,030.7	880.7	721.8	158.89	5.543			
21,900.0	12,750.0	22,038.8	12,750.0	80.8	81.7	90.00	-9,324.8	-1,029.7	880.7	720.1	160.54	5.486			
22,000.0	12,750.0	22,138.8	12,750.0	81.7	82.6	90.00	-9,424.8	-1,028.7	880.7	718.5	162.20	5.430			
22,100.0	12,750.0	22,238.8	12,750.0	82.5	83.4	90.00	-9,524.8	-1,027.8	880.7	716.8	163.86	5.375			
22,200.0	12,750.0	22,338.8	12,750.0	83.4	84.2	90.00	-9,624.8	-1,026.8	880.7	715.2	165.52	5.321			
22,300.0	12,750.0	22,438.8	12,750.0	84.2	85.1	90.00	-9,724.8	-1,025.8	880.7	713.5	167.18	5.268			
22,400.0	12,750.0	22,538.8	12,750.0	85.0	85.9	90.00	-9,824.8	-1,024.8	880.7	711.8	168.84	5.216			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 801H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,500.0	12,750.0	22,638.8	12,750.0	85.9	86.8	90.00	-9,924.8	-1,023.8	880.7	710.2	170.50	5.165		
22,600.0	12,750.0	22,738.8	12,750.0	86.7	87.6	90.00	-10,024.8	-1,022.8	880.7	708.5	172.16	5.115		
22,700.0	12,750.0	22,838.8	12,750.0	87.6	88.4	90.00	-10,124.8	-1,021.8	880.7	706.9	173.83	5.066		
22,800.0	12,750.0	22,938.8	12,750.0	88.4	89.3	90.00	-10,224.7	-1,020.8	880.7	705.2	175.49	5.018		
22,900.0	12,750.0	23,038.8	12,750.0	89.3	90.1	90.00	-10,324.7	-1,019.8	880.7	703.5	177.15	4.971		
23,000.0	12,750.0	23,138.8	12,750.0	90.1	91.0	90.00	-10,424.7	-1,018.8	880.7	701.9	178.82	4.925		
23,100.0	12,750.0	23,238.8	12,750.0	91.0	91.8	90.00	-10,524.7	-1,017.8	880.7	700.2	180.48	4.880		
23,200.0	12,750.0	23,338.8	12,750.0	91.8	92.6	90.00	-10,624.7	-1,016.8	880.7	698.5	182.15	4.835		
23,300.0	12,750.0	23,438.8	12,750.0	92.6	93.5	90.00	-10,724.7	-1,015.8	880.7	696.9	183.81	4.791		
23,400.0	12,750.0	23,538.8	12,750.0	93.5	94.3	90.00	-10,824.7	-1,014.8	880.7	695.2	185.48	4.748		
23,500.0	12,750.0	23,638.8	12,750.0	94.3	95.2	90.00	-10,924.7	-1,013.8	880.7	693.5	187.15	4.706		
23,600.0	12,750.0	23,738.8	12,750.0	95.2	96.0	90.00	-11,024.7	-1,012.8	880.7	691.9	188.81	4.664		
23,700.0	12,750.0	23,838.8	12,750.0	96.0	96.8	90.00	-11,124.7	-1,011.8	880.7	690.2	190.48	4.623		
23,800.0	12,750.0	23,938.8	12,750.0	96.9	97.7	90.00	-11,224.7	-1,010.8	880.7	688.5	192.15	4.583		
23,900.0	12,750.0	24,038.8	12,750.0	97.7	98.5	90.00	-11,324.7	-1,009.8	880.7	686.9	193.82	4.544		
24,000.0	12,750.0	24,138.8	12,750.0	98.6	99.4	90.00	-11,424.7	-1,008.8	880.7	685.2	195.49	4.505		
24,100.0	12,750.0	24,238.8	12,750.0	99.4	100.2	90.00	-11,524.7	-1,007.8	880.7	683.5	197.16	4.467		
24,200.0	12,750.0	24,338.8	12,750.0	100.3	101.1	90.00	-11,624.7	-1,006.9	880.7	681.8	198.83	4.429		
24,300.0	12,750.0	24,438.8	12,750.0	101.1	101.9	90.00	-11,724.7	-1,005.9	880.7	680.2	200.50	4.392		
24,400.0	12,750.0	24,538.8	12,750.0	102.0	102.7	90.00	-11,824.7	-1,004.9	880.7	678.5	202.17	4.356		
24,500.0	12,750.0	24,638.8	12,750.0	102.8	103.6	90.00	-11,924.7	-1,003.9	880.7	676.8	203.84	4.320		
24,600.0	12,750.0	24,738.8	12,750.0	103.7	104.4	90.00	-12,024.7	-1,002.9	880.7	675.2	205.51	4.285		
24,700.0	12,750.0	24,838.8	12,750.0	104.5	105.3	90.00	-12,124.7	-1,001.9	880.7	673.5	207.19	4.251		
24,800.0	12,750.0	24,938.8	12,750.0	105.4	106.1	90.00	-12,224.7	-1,000.9	880.7	671.8	208.86	4.217		
24,900.0	12,750.0	25,038.8	12,750.0	106.2	107.0	90.00	-12,324.6	-999.9	880.7	670.1	210.53	4.183		
25,000.0	12,750.0	25,138.8	12,750.0	107.1	107.8	90.00	-12,424.6	-998.9	880.7	668.5	212.20	4.150		
25,100.0	12,750.0	25,238.8	12,750.0	107.9	108.7	90.00	-12,524.6	-997.9	880.7	666.8	213.88	4.118		
25,200.0	12,750.0	25,338.8	12,750.0	108.8	109.5	90.00	-12,624.6	-996.9	880.7	665.1	215.55	4.086		
25,300.0	12,750.0	25,438.8	12,750.0	109.6	110.4	90.00	-12,724.6	-995.9	880.7	663.4	217.22	4.054		
25,400.0	12,750.0	25,538.8	12,750.0	110.4	111.2	90.00	-12,824.6	-994.9	880.7	661.8	218.90	4.023		
25,500.0	12,750.0	25,638.8	12,750.0	111.3	112.0	90.00	-12,924.6	-993.9	880.7	660.1	220.57	3.993		
25,600.0	12,750.0	25,738.8	12,750.0	112.1	112.9	90.00	-13,024.6	-992.9	880.7	658.4	222.25	3.963		
25,700.0	12,750.0	25,838.8	12,750.0	113.0	113.7	90.00	-13,124.6	-991.9	880.7	656.7	223.92	3.933		
25,799.9	12,750.0	25,938.8	12,750.0	113.8	114.6	90.00	-13,224.5	-990.9	880.7	655.1	225.60	3.904		
25,810.0	12,750.0	25,948.8	12,750.0	113.9	114.7	90.00	-13,234.6	-990.8	880.7	654.9	225.77	3.901 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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
8,300.0	8,283.5	8,664.0	8,461.9	12.8	18.9	85.17	104.3	732.2	993.8	961.6	32.25	30.816			
8,400.0	8,383.5	8,748.2	8,544.7	12.9	19.1	85.05	105.1	717.6	976.6	944.1	32.50	30.046			
8,500.0	8,483.5	8,832.7	8,628.2	13.0	19.3	84.94	105.8	704.2	960.8	928.1	32.75	29.337			
8,600.0	8,583.5	8,917.7	8,712.3	13.1	19.4	84.83	106.5	691.9	946.5	913.5	32.99	28.687			
8,700.0	8,683.5	9,000.0	8,793.9	13.2	19.6	84.73	107.1	681.2	933.6	900.4	33.22	28.105			
8,800.0	8,783.5	9,088.6	8,881.9	13.3	19.7	84.64	107.7	670.9	922.2	888.8	33.46	27.562			
8,900.0	8,883.5	9,174.5	8,967.4	13.3	19.9	84.56	108.2	662.3	912.3	878.6	33.68	27.085			
9,000.0	8,983.5	9,260.7	9,053.2	13.4	20.0	84.49	108.6	655.0	903.8	869.9	33.90	26.663			
9,100.0	9,083.5	9,347.0	9,139.3	13.5	20.2	84.43	108.9	648.9	896.9	862.8	34.11	26.295			
9,200.0	9,183.5	9,433.5	9,225.7	13.6	20.3	84.38	109.2	644.1	891.4	857.1	34.31	25.981			
9,300.0	9,283.5	9,520.1	9,312.3	13.7	20.4	84.34	109.4	640.6	887.4	852.9	34.50	25.720			
9,400.0	9,383.5	9,600.0	9,392.1	13.8	20.5	84.32	109.5	638.6	884.9	850.3	34.66	25.530			
9,500.0	9,483.5	9,693.6	9,485.7	13.9	20.6	84.31	109.6	637.6	883.9	849.1	34.82	25.385			
9,539.9	9,523.4	9,731.3	9,523.4	13.9	20.6	84.31	109.6	637.5	883.9	849.0	34.87	25.348			
9,600.0	9,583.5	9,791.4	9,583.5	14.0	20.7	84.31	109.6	637.5	883.9	849.0	34.94	25.298			
9,700.0	9,683.5	9,891.4	9,683.5	14.1	20.7	84.31	109.6	637.5	883.9	848.8	35.06	25.211			
9,800.0	9,783.5	9,991.4	9,783.5	14.1	20.8	84.31	109.6	637.5	883.9	848.7	35.18	25.124			
9,900.0	9,883.5	10,091.4	9,883.5	14.2	20.8	84.31	109.6	637.5	883.9	848.6	35.30	25.037			
10,000.0	9,983.5	10,191.4	9,983.5	14.3	20.8	84.31	109.6	637.5	883.9	848.5	35.43	24.951			
10,100.0	10,083.5	10,291.4	10,083.5	14.4	20.9	84.31	109.6	637.5	883.9	848.4	35.55	24.865			
10,200.0	10,183.5	10,391.4	10,183.5	14.5	20.9	84.31	109.6	637.5	883.9	848.2	35.67	24.779			
10,300.0	10,283.5	10,491.4	10,283.5	14.6	21.0	84.31	109.6	637.5	883.9	848.1	35.79	24.694			
10,400.0	10,383.5	10,591.4	10,383.5	14.7	21.0	84.31	109.6	637.5	883.9	848.0	35.92	24.609			
10,500.0	10,483.5	10,691.4	10,483.5	14.8	21.1	84.31	109.6	637.5	883.9	847.9	36.04	24.525			
10,600.0	10,583.5	10,791.4	10,583.5	14.8	21.1	84.31	109.6	637.5	883.9	847.7	36.16	24.441			
10,700.0	10,683.5	10,891.4	10,683.5	14.9	21.2	84.31	109.6	637.5	883.9	847.6	36.29	24.357			
10,800.0	10,783.5	10,991.4	10,783.5	15.0	21.2	84.31	109.6	637.5	883.9	847.5	36.41	24.274			
10,900.0	10,883.5	11,091.4	10,883.5	15.1	21.3	84.31	109.6	637.5	883.9	847.4	36.54	24.191			
11,000.0	10,983.5	11,191.4	10,983.5	15.2	21.3	84.31	109.6	637.5	883.9	847.2	36.66	24.109			
11,100.0	11,083.5	11,291.4	11,083.5	15.3	21.4	84.31	109.6	637.5	883.9	847.1	36.79	24.027			
11,200.0	11,183.5	11,391.4	11,183.5	15.4	21.4	84.31	109.6	637.5	883.9	847.0	36.91	23.945			
11,300.0	11,283.5	11,491.4	11,283.5	15.5	21.5	84.31	109.6	637.5	883.9	846.9	37.04	23.864			
11,400.0	11,383.5	11,591.4	11,383.5	15.5	21.5	84.31	109.6	637.5	883.9	846.7	37.17	23.783			
11,500.0	11,483.5	11,691.4	11,483.5	15.6	21.5	84.31	109.6	637.5	883.9	846.6	37.29	23.702			
11,600.0	11,583.5	11,791.4	11,583.5	15.7	21.6	84.31	109.6	637.5	883.9	846.5	37.42	23.622			
11,700.0	11,683.5	11,891.4	11,683.5	15.8	21.6	84.31	109.6	637.5	883.9	846.4	37.55	23.542			
11,800.0	11,783.5	11,991.4	11,783.5	15.9	21.7	84.31	109.6	637.5	883.9	846.2	37.67	23.462			
11,900.0	11,883.5	12,091.4	11,883.5	16.0	21.7	84.31	109.6	637.5	883.9	846.1	37.80	23.383			
12,000.0	11,983.5	12,191.4	11,983.5	16.1	21.8	84.31	109.6	637.5	883.9	846.0	37.93	23.304			
12,100.0	12,083.5	12,291.4	12,083.5	16.2	21.8	84.31	109.6	637.5	883.9	845.8	38.06	23.226			
12,200.0	12,183.5	12,391.4	12,183.5	16.2	21.9	84.31	109.6	637.5	883.9	845.7	38.18	23.148			
12,289.0	12,272.5	12,480.4	12,272.5	16.3	21.9	84.31	109.6	637.5	883.9	845.6	38.29	23.087			
12,300.0	12,283.5	12,493.6	12,285.7	16.3	21.9	-95.11	109.4	637.6	883.9	845.6	38.29	23.086			
12,325.0	12,308.5	12,523.6	12,315.6	16.3	21.9	-95.10	107.6	637.6	883.9	845.6	38.28	23.090			
12,350.0	12,333.4	12,553.5	12,345.3	16.3	21.9	-95.07	104.0	637.6	883.8	845.6	38.27	23.095			
12,375.0	12,358.1	12,583.3	12,374.6	16.3	21.9	-95.01	98.5	637.7	883.8	845.5	38.26	23.100			
12,400.0	12,382.5	12,613.1	12,403.5	16.3	21.9	-94.95	91.3	637.7	883.7	845.4	38.25	23.104			
12,425.0	12,406.7	12,642.7	12,431.7	16.3	21.9	-94.86	82.3	637.8	883.6	845.3	38.24	23.108			
12,450.0	12,430.5	12,672.3	12,459.3	16.2	21.9	-94.77	71.5	637.9	883.4	845.2	38.23	23.111			
12,475.0	12,453.9	12,701.7	12,486.0	16.2	21.9	-94.65	59.2	638.0	883.3	845.1	38.21	23.114			
12,500.0	12,476.7	12,731.0	12,511.7	16.2	21.9	-94.52	45.3	638.2	883.1	844.9	38.20	23.117			

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR										Rule Assigned:			Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,525.0	12,499.0	12,760.1	12,536.4	16.2	21.9	-94.38	30.0	638.3	883.0	844.8	38.19	23.119		
12,550.0	12,520.7	12,789.0	12,560.0	16.2	21.9	-94.22	13.3	638.5	882.8	844.6	38.18	23.120		
12,575.0	12,541.7	12,817.7	12,582.4	16.2	21.9	-94.05	-4.7	638.7	882.6	844.4	38.17	23.120		
12,600.0	12,562.0	12,846.2	12,603.6	16.2	21.9	-93.87	-23.8	638.9	882.4	844.2	38.17	23.120		
12,625.0	12,581.5	12,874.5	12,623.3	16.2	21.9	-93.68	-44.0	639.1	882.2	844.1	38.16	23.118		
12,650.0	12,600.1	12,902.6	12,641.8	16.2	21.9	-93.47	-65.2	639.3	882.0	843.9	38.16	23.115		
12,675.0	12,617.8	12,930.4	12,658.8	16.2	21.9	-93.26	-87.2	639.5	881.8	843.7	38.16	23.111		
12,700.0	12,634.6	12,958.0	12,674.3	16.2	21.9	-93.04	-110.0	639.7	881.6	843.5	38.16	23.104		
12,725.0	12,650.4	12,985.3	12,688.4	16.2	22.0	-92.81	-133.4	640.0	881.5	843.3	38.17	23.096		
12,750.0	12,665.2	13,012.5	12,701.1	16.2	22.0	-92.57	-157.4	640.2	881.3	843.1	38.18	23.085		
12,775.0	12,678.8	13,039.3	12,712.2	16.2	22.1	-92.33	-181.8	640.4	881.1	842.9	38.19	23.073		
12,800.0	12,691.4	13,065.9	12,721.9	16.3	22.1	-92.08	-206.6	640.7	881.0	842.8	38.21	23.058		
12,825.0	12,702.8	13,092.3	12,730.1	16.3	22.1	-91.83	-231.7	640.9	880.8	842.6	38.23	23.041		
12,850.0	12,713.1	13,118.4	12,736.9	16.3	22.2	-91.57	-256.9	641.2	880.7	842.5	38.26	23.021		
12,875.0	12,722.1	13,144.3	12,742.2	16.3	22.3	-91.31	-282.3	641.4	880.6	842.3	38.29	22.999		
12,900.0	12,729.9	13,170.0	12,746.1	16.3	22.3	-91.05	-307.6	641.7	880.5	842.2	38.33	22.975		
12,925.0	12,736.4	13,195.4	12,748.7	16.3	22.4	-90.79	-332.9	642.0	880.5	842.1	38.37	22.948		
12,950.0	12,741.7	13,220.6	12,749.9	16.4	22.4	-90.52	-358.1	642.2	880.4	842.0	38.41	22.919		
12,975.0	12,745.7	13,245.5	12,750.0	16.4	22.5	-90.28	-382.9	642.4	880.4	841.9	38.47	22.888		
13,000.0	12,748.4	13,270.3	12,750.0	16.4	22.6	-90.10	-407.8	642.7	880.4	841.9	38.52	22.853		
13,025.0	12,749.8	13,295.3	12,750.0	16.4	22.6	-90.01	-432.7	642.9	880.4	841.8	38.59	22.816		
13,034.3	12,749.9	13,304.6	12,750.0	16.4	22.7	-90.00	-442.0	643.0	880.4	841.8	38.61	22.800		
13,039.0	12,750.0	13,309.2	12,750.0	16.4	22.7	-90.00	-446.7	643.1	880.4	841.8	38.63	22.792		
13,100.0	12,750.0	13,370.3	12,750.0	16.5	22.9	-90.00	-507.7	643.7	880.4	841.6	38.82	22.677		
13,200.0	12,750.0	13,470.3	12,750.0	16.7	23.2	-90.00	-607.7	644.7	880.4	841.2	39.21	22.453		
13,300.0	12,750.0	13,570.3	12,750.0	17.0	23.5	-90.00	-707.7	645.7	880.4	840.7	39.67	22.195		
13,400.0	12,750.0	13,670.3	12,750.0	17.3	23.8	-90.00	-807.7	646.7	880.4	840.2	40.19	21.906		
13,500.0	12,750.0	13,770.3	12,750.0	17.6	24.2	-90.00	-907.7	647.7	880.4	839.6	40.78	21.591		
13,600.0	12,750.0	13,870.3	12,750.0	17.9	24.6	-90.00	-1,007.7	648.7	880.4	839.0	41.42	21.252		
13,700.0	12,750.0	13,970.3	12,750.0	18.3	25.0	-90.00	-1,107.7	649.7	880.4	838.2	42.13	20.895		
13,800.0	12,750.0	14,070.3	12,750.0	18.8	25.4	-90.00	-1,207.7	650.7	880.4	837.5	42.90	20.523		
13,900.0	12,750.0	14,170.3	12,750.0	19.2	25.8	-90.00	-1,307.7	651.6	880.4	836.7	43.71	20.140		
13,911.5	12,750.0	14,181.8	12,750.0	19.3	25.8	-90.00	-1,319.2	651.8	880.4	836.6	43.81	20.095		
14,000.0	12,750.0	14,270.3	12,750.0	19.7	26.2	-90.00	-1,407.7	652.6	880.4	835.8	44.58	19.748		
14,100.0	12,750.0	14,370.3	12,750.0	20.2	26.7	-90.00	-1,507.7	653.6	880.4	834.9	45.49	19.351		
14,200.0	12,750.0	14,470.3	12,750.0	20.7	27.2	-90.00	-1,607.7	654.6	880.4	833.9	46.45	18.952		
14,300.0	12,750.0	14,570.3	12,750.0	21.3	27.7	-90.00	-1,707.6	655.6	880.4	832.9	47.45	18.553		
14,400.0	12,750.0	14,670.3	12,750.0	21.9	28.2	-90.00	-1,807.6	656.6	880.4	831.9	48.49	18.155		
14,500.0	12,750.0	14,770.3	12,750.0	22.5	28.7	-90.00	-1,907.6	657.6	880.4	830.8	49.57	17.762		
14,600.0	12,750.0	14,870.3	12,750.0	23.1	29.2	-90.00	-2,007.6	658.6	880.4	829.7	50.68	17.373		
14,700.0	12,750.0	14,970.3	12,750.0	23.7	29.8	-90.00	-2,107.6	659.6	880.4	828.6	51.82	16.990		
14,800.0	12,750.0	15,070.3	12,750.0	24.3	30.3	-90.00	-2,207.6	660.6	880.4	827.4	52.99	16.615		
14,900.0	12,750.0	15,170.3	12,750.0	25.0	30.9	-90.00	-2,307.6	661.6	880.4	826.2	54.19	16.247		
15,000.0	12,750.0	15,270.3	12,750.0	25.6	31.5	-90.00	-2,407.6	662.6	880.4	825.0	55.41	15.888		
15,100.0	12,750.0	15,370.3	12,750.0	26.3	32.0	-90.00	-2,507.6	663.6	880.4	823.7	56.66	15.537		
15,200.0	12,750.0	15,470.3	12,750.0	27.0	32.6	-90.00	-2,607.6	664.6	880.4	822.4	57.93	15.196		
15,300.0	12,750.0	15,570.3	12,750.0	27.7	33.3	-90.00	-2,707.6	665.6	880.4	821.1	59.23	14.864		
15,400.0	12,750.0	15,670.3	12,750.0	28.4	33.9	-90.00	-2,807.6	666.6	880.4	819.8	60.54	14.542		
15,500.0	12,750.0	15,770.3	12,750.0	29.1	34.5	-90.00	-2,907.6	667.6	880.4	818.5	61.87	14.228		
15,600.0	12,750.0	15,870.3	12,750.0	29.8	35.2	-90.00	-3,007.6	668.6	880.4	817.2	63.22	13.925		

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 802H - Slot BOATER FED COM 802H
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 802H	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)				
15,700.0	12,750.0	15,970.3	12,750.0	30.6	35.8	-90.00	-3,107.6	669.6	880.4	815.8	64.59	13.630		
15,800.0	12,750.0	16,070.3	12,750.0	31.3	36.5	-90.00	-3,207.6	670.6	880.4	814.4	65.97	13.345		
15,900.0	12,750.0	16,170.3	12,750.0	32.0	37.1	-90.00	-3,307.6	671.5	880.4	813.0	67.37	13.068		
16,000.0	12,750.0	16,270.3	12,750.0	32.8	37.8	-90.00	-3,407.6	672.5	880.4	811.6	68.78	12.800		
16,100.0	12,750.0	16,370.3	12,750.0	33.5	38.5	-90.00	-3,507.6	673.5	880.4	810.2	70.20	12.541		
16,200.0	12,750.0	16,470.3	12,750.0	34.3	39.1	-90.00	-3,607.6	674.5	880.4	808.7	71.63	12.290		
16,300.0	12,750.0	16,570.3	12,750.0	35.0	39.8	-90.00	-3,707.5	675.5	880.4	807.3	73.08	12.047		
16,400.0	12,750.0	16,670.3	12,750.0	35.8	40.5	-90.00	-3,807.5	676.5	880.4	805.8	74.53	11.812		
16,500.0	12,750.0	16,770.3	12,750.0	36.6	41.2	-90.00	-3,907.5	677.5	880.4	804.4	76.00	11.584		
16,501.2	12,750.0	16,771.5	12,750.0	36.6	41.2	-90.00	-3,908.7	677.5	880.4	804.4	76.02	11.581		
16,600.0	12,750.0	16,870.3	12,750.0	37.3	41.9	-90.00	-4,007.5	678.5	880.4	802.9	77.48	11.363		
16,700.0	12,750.0	16,970.3	12,750.0	38.1	42.7	-90.00	-4,107.5	679.5	880.4	801.4	78.96	11.150		
16,800.0	12,750.0	17,070.3	12,750.0	38.9	43.4	-90.00	-4,207.5	680.5	880.4	799.9	80.45	10.943		
16,900.0	12,750.0	17,170.3	12,750.0	39.7	44.1	-90.00	-4,307.5	681.5	880.4	798.4	81.95	10.743		
17,000.0	12,750.0	17,270.3	12,750.0	40.5	44.8	-90.00	-4,407.5	682.5	880.4	796.9	83.46	10.549		
17,100.0	12,750.0	17,370.3	12,750.0	41.3	45.6	-90.00	-4,507.5	683.5	880.4	795.4	84.97	10.361		
17,200.0	12,750.0	17,470.3	12,750.0	42.1	46.3	-90.00	-4,607.5	684.5	880.4	793.9	86.50	10.178		
17,220.0	12,750.0	17,490.3	12,750.0	42.2	46.4	-90.00	-4,627.5	684.7	880.4	793.6	86.80	10.143		
17,300.0	12,750.0	17,570.3	12,750.0	42.8	47.0	-90.00	-4,707.5	685.5	880.4	792.4	88.02	10.002		
17,400.0	12,750.0	17,670.3	12,750.0	43.6	47.8	-90.00	-4,807.5	686.5	880.4	790.8	89.56	9.830		
17,500.0	12,750.0	17,770.3	12,750.0	44.4	48.5	-90.00	-4,907.5	687.5	880.4	789.3	91.10	9.664		
17,600.0	12,750.0	17,870.3	12,750.0	45.2	49.3	-90.00	-5,007.5	688.5	880.4	787.7	92.64	9.503		
17,700.0	12,750.0	17,970.3	12,750.0	46.0	50.0	-90.00	-5,107.5	689.5	880.4	786.2	94.19	9.347		
17,800.0	12,750.0	18,070.3	12,750.0	46.9	50.8	-90.00	-5,207.5	690.4	880.4	784.6	95.75	9.195		
17,900.0	12,750.0	18,170.3	12,750.0	47.7	51.6	-90.00	-5,307.5	691.4	880.4	783.1	97.31	9.047		
18,000.0	12,750.0	18,270.3	12,750.0	48.5	52.3	-90.00	-5,407.5	692.4	880.4	781.5	98.87	8.904		
18,100.0	12,750.0	18,370.3	12,750.0	49.3	53.1	-90.00	-5,507.5	693.4	880.4	779.9	100.44	8.765		
18,200.0	12,750.0	18,470.3	12,750.0	50.1	53.8	-90.00	-5,607.5	694.4	880.4	778.4	102.01	8.630		
18,300.0	12,750.0	18,570.3	12,750.0	50.9	54.6	-90.00	-5,707.4	695.4	880.4	776.8	103.59	8.499		
18,400.0	12,750.0	18,670.3	12,750.0	51.7	55.4	-90.00	-5,807.4	696.4	880.4	775.2	105.17	8.371		
18,430.0	12,750.0	18,700.3	12,750.0	52.0	55.6	-90.00	-5,837.4	696.7	880.4	774.7	105.64	8.334		
18,500.0	12,750.0	18,770.3	12,750.0	52.5	56.2	-90.00	-5,907.4	697.4	880.4	773.6	106.75	8.247		
18,600.0	12,750.0	18,870.3	12,750.0	53.4	57.0	-90.00	-6,007.4	698.4	880.4	772.0	108.34	8.126		
18,700.0	12,750.0	18,970.3	12,750.0	54.2	57.7	-90.00	-6,107.4	699.4	880.4	770.4	109.93	8.009		
18,730.0	12,750.0	19,000.3	12,750.0	54.4	58.0	-90.00	-6,137.4	699.7	880.4	770.0	110.41	7.974		
18,800.0	12,750.0	19,070.3	12,750.0	55.0	58.5	-90.00	-6,207.4	700.4	880.4	768.9	111.52	7.894		
18,900.0	12,750.0	19,170.3	12,750.0	55.8	59.3	-90.00	-6,307.4	701.4	880.4	767.3	113.12	7.783		
19,000.0	12,750.0	19,270.3	12,750.0	56.6	60.1	-90.00	-6,407.4	702.4	880.4	765.7	114.72	7.674		
19,100.0	12,750.0	19,370.3	12,750.0	57.5	60.9	-90.00	-6,507.4	703.4	880.4	764.1	116.32	7.569		
19,200.0	12,750.0	19,470.3	12,750.0	58.3	61.7	-90.00	-6,607.4	704.4	880.4	762.5	117.92	7.466		
19,300.0	12,750.0	19,570.3	12,750.0	59.1	62.5	-90.00	-6,707.4	705.4	880.4	760.8	119.53	7.365		
19,330.0	12,750.0	19,600.3	12,750.0	59.4	62.7	-90.00	-6,737.4	705.7	880.4	760.4	120.01	7.336		
19,400.0	12,750.0	19,670.3	12,750.0	59.9	63.3	-90.00	-6,807.4	706.4	880.4	759.2	121.14	7.267		
19,500.0	12,750.0	19,770.3	12,750.0	60.8	64.1	-90.00	-6,907.4	707.4	880.4	757.6	122.75	7.172		
19,600.0	12,750.0	19,870.3	12,750.0	61.6	64.8	-90.00	-7,007.4	708.4	880.4	756.0	124.36	7.079		
19,700.0	12,750.0	19,970.3	12,750.0	62.4	65.6	-90.00	-7,107.4	709.3	880.4	754.4	125.98	6.988		
19,800.0	12,750.0	20,070.3	12,750.0	63.3	66.4	-90.00	-7,207.4	710.3	880.4	752.8	127.60	6.900		
19,900.0	12,750.0	20,170.3	12,750.0	64.1	67.2	-90.00	-7,307.4	711.3	880.4	751.2	129.22	6.813		
19,920.0	12,750.0	20,190.3	12,750.0	64.3	67.4	-90.00	-7,327.4	711.5	880.4	750.8	129.54	6.796		
20,000.0	12,750.0	20,270.3	12,750.0	64.9	68.1	-90.00	-7,407.4	712.3	880.4	749.5	130.84	6.729		
20,100.0	12,750.0	20,370.3	12,750.0	65.8	68.9	-90.00	-7,507.4	713.3	880.4	747.9	132.46	6.646		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 803H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR										Rule Assigned:				Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,120.0	12,750.0	20,390.3	12,750.0	65.9	69.0	-90.00	-7,527.4	713.5	880.4	747.6	132.79	6.630			
20,200.0	12,750.0	20,470.3	12,750.0	66.6	69.7	-90.00	-7,607.4	714.3	880.4	746.3	134.09	6.566			
20,300.0	12,750.0	20,570.3	12,750.0	67.4	70.5	-90.00	-7,707.3	715.3	880.4	744.7	135.72	6.487			
20,400.0	12,750.0	20,670.3	12,750.0	68.3	71.3	-90.00	-7,807.3	716.3	880.4	743.0	137.34	6.410			
20,500.0	12,750.0	20,770.3	12,750.0	69.1	72.1	-90.00	-7,907.3	717.3	880.4	741.4	138.97	6.335			
20,600.0	12,750.0	20,870.3	12,750.0	69.9	72.9	-90.00	-8,007.3	718.3	880.4	739.8	140.61	6.261			
20,620.0	12,750.0	20,890.3	12,750.0	70.1	73.1	-90.00	-8,027.3	718.5	880.4	739.4	140.93	6.247			
20,700.0	12,750.0	20,970.3	12,750.0	70.8	73.7	-90.00	-8,107.3	719.3	880.4	738.1	142.24	6.189			
20,800.0	12,750.0	21,070.3	12,750.0	71.6	74.5	-90.00	-8,207.3	720.3	880.4	736.5	143.87	6.119			
20,900.0	12,750.0	21,170.3	12,750.0	72.4	75.3	-90.00	-8,307.3	721.3	880.4	734.9	145.51	6.050			
21,000.0	12,750.0	21,270.3	12,750.0	73.3	76.2	-90.00	-8,407.3	722.3	880.4	733.2	147.15	5.983			
21,100.0	12,750.0	21,370.3	12,750.0	74.1	77.0	-90.00	-8,507.3	723.3	880.4	731.6	148.79	5.917			
21,200.0	12,750.0	21,470.3	12,750.0	74.9	77.8	-90.00	-8,607.3	724.3	880.4	730.0	150.43	5.853			
21,220.0	12,750.0	21,490.3	12,750.0	75.1	77.9	-90.00	-8,627.3	724.5	880.4	729.6	150.75	5.840			
21,300.0	12,750.0	21,570.3	12,750.0	75.8	78.6	-90.00	-8,707.3	725.3	880.4	728.3	152.07	5.789			
21,400.0	12,750.0	21,670.3	12,750.0	76.6	79.4	-90.00	-8,807.3	726.3	880.4	726.7	153.71	5.728			
21,500.0	12,750.0	21,770.3	12,750.0	77.5	80.2	-90.00	-8,907.3	727.3	880.4	725.0	155.35	5.667			
21,600.0	12,750.0	21,870.3	12,750.0	78.3	81.1	-90.00	-9,007.3	728.2	880.4	723.4	157.00	5.608			
21,700.0	12,750.0	21,970.3	12,750.0	79.1	81.9	-90.00	-9,107.3	729.2	880.4	721.7	158.64	5.549			
21,800.0	12,750.0	22,070.3	12,750.0	80.0	82.7	-90.00	-9,207.3	730.2	880.4	720.1	160.29	5.492			
21,900.0	12,750.0	22,170.3	12,750.0	80.8	83.5	-90.00	-9,307.3	731.2	880.4	718.4	161.94	5.437			
22,000.0	12,750.0	22,270.3	12,750.0	81.7	84.3	-90.00	-9,407.3	732.2	880.4	716.8	163.58	5.382			
22,100.0	12,750.0	22,370.3	12,750.0	82.5	85.2	-90.00	-9,507.3	733.2	880.4	715.1	165.23	5.328			
22,133.5	12,750.0	22,403.8	12,750.0	82.8	85.4	-90.00	-9,540.8	733.6	880.4	714.6	165.79	5.310			
22,200.0	12,750.0	22,470.3	12,750.0	83.4	86.0	-90.00	-9,607.3	734.2	880.4	713.5	166.88	5.275			
22,300.0	12,750.0	22,570.3	12,750.0	84.2	86.8	-90.00	-9,707.3	735.2	880.4	711.8	168.53	5.224			
22,333.5	12,750.0	22,603.8	12,750.0	84.5	87.1	-90.00	-9,740.8	735.5	880.4	711.3	169.09	5.207			
22,400.0	12,750.0	22,670.3	12,750.0	85.0	87.6	-90.00	-9,807.2	736.2	880.4	710.2	170.19	5.173			
22,500.0	12,750.0	22,770.3	12,750.0	85.9	88.5	-90.00	-9,907.2	737.2	880.4	708.5	171.84	5.123			
22,600.0	12,750.0	22,870.3	12,750.0	86.7	89.3	-90.00	-10,007.2	738.2	880.4	706.9	173.49	5.074			
22,700.0	12,750.0	22,970.3	12,750.0	87.6	90.1	-90.00	-10,107.2	739.2	880.4	705.2	175.15	5.026			
22,712.2	12,750.0	22,982.5	12,750.0	87.7	90.2	-90.00	-10,119.4	739.3	880.4	705.0	175.35	5.021			
22,800.0	12,750.0	23,070.3	12,750.0	88.4	91.0	-90.00	-10,207.2	740.2	880.4	703.6	176.80	4.979			
22,900.0	12,750.0	23,170.3	12,750.0	89.3	91.8	-90.00	-10,307.2	741.2	880.4	701.9	178.46	4.933			
23,000.0	12,750.0	23,270.3	12,750.0	90.1	92.6	-90.00	-10,407.2	742.2	880.4	700.3	180.11	4.888			
23,100.0	12,750.0	23,370.3	12,750.0	91.0	93.4	-90.00	-10,507.2	743.2	880.4	698.6	181.77	4.843			
23,200.0	12,750.0	23,470.3	12,750.0	91.8	94.3	-90.00	-10,607.2	744.2	880.4	696.9	183.43	4.800			
23,300.0	12,750.0	23,570.3	12,750.0	92.6	95.1	-90.00	-10,707.2	745.2	880.4	695.3	185.09	4.757			
23,400.0	12,750.0	23,670.3	12,750.0	93.5	95.9	-90.00	-10,807.2	746.2	880.4	693.6	186.75	4.714			
23,500.0	12,750.0	23,770.3	12,750.0	94.3	96.8	-90.00	-10,907.2	747.2	880.4	692.0	188.41	4.673			
23,600.0	12,750.0	23,870.3	12,750.0	95.2	97.6	-90.00	-11,007.2	748.1	880.4	690.3	190.07	4.632			
23,700.0	12,750.0	23,970.3	12,750.0	96.0	98.4	-90.00	-11,107.2	749.1	880.4	688.6	191.73	4.592			
23,800.0	12,750.0	24,101.4	12,750.0	96.9	99.5	-90.00	-11,238.3	748.7	879.1	685.2	193.96	4.533			
23,900.0	12,750.0	24,209.6	12,750.0	97.7	100.4	-90.00	-11,346.5	745.0	874.7	679.0	195.72	4.469			
24,000.0	12,750.0	24,309.5	12,750.0	98.6	101.3	-90.00	-11,446.3	741.5	870.3	672.9	197.38	4.409			
24,100.0	12,750.0	24,400.0	12,750.0	99.4	102.0	-90.00	-11,536.7	738.4	865.9	667.0	198.91	4.353			
24,200.0	12,750.0	24,479.0	12,750.0	100.3	102.7	-90.00	-11,615.8	737.4	863.6	663.4	200.21	4.313			
24,252.4	12,750.0	24,523.0	12,750.0	100.7	103.0	-90.00	-11,659.7	737.7	863.4	662.5	200.91	4.297			
24,300.0	12,750.0	24,570.6	12,750.0	101.1	103.4	-90.00	-11,707.3	738.1	863.4	661.7	201.70	4.281			
24,400.0	12,750.0	24,670.6	12,750.0	102.0	104.3	-90.00	-11,807.3	739.1	863.4	660.0	203.37	4.246			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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)					
24,500.0	12,750.0	24,770.6	12,750.0	102.8	105.1	-90.00	-11,907.3	740.1	863.4	658.4	205.03	4.211			
24,510.0	12,750.0	24,780.6	12,750.0	102.9	105.2	-90.00	-11,917.3	740.2	863.4	658.2	205.20	4.208 CC			
24,600.0	12,750.0	24,870.6	12,750.0	103.7	106.0	-90.00	-12,007.3	741.1	863.4	656.7	206.70	4.177			
24,700.0	12,750.0	24,970.6	12,750.0	104.5	106.8	-90.00	-12,107.3	742.1	863.4	655.0	208.36	4.144			
24,720.0	12,750.0	24,990.6	12,750.0	104.7	107.0	-90.00	-12,127.3	742.3	863.4	654.7	208.70	4.137			
24,800.0	12,750.0	25,070.6	12,750.0	105.4	107.6	-90.00	-12,207.3	743.1	863.4	653.4	210.03	4.111			
24,900.0	12,750.0	25,170.6	12,750.0	106.2	108.5	-90.00	-12,307.3	744.1	863.4	651.7	211.70	4.078			
25,000.0	12,750.0	25,270.6	12,750.0	107.1	109.3	-90.00	-12,407.3	745.1	863.4	650.0	213.36	4.047			
25,100.0	12,750.0	25,370.6	12,750.0	107.9	110.1	-90.00	-12,507.3	746.1	863.4	648.4	215.03	4.015			
25,200.0	12,750.0	25,470.6	12,750.0	108.8	111.0	-90.00	-12,607.3	747.1	863.4	646.7	216.70	3.984			
25,300.0	12,750.0	25,570.6	12,750.0	109.6	111.8	-90.00	-12,707.3	748.1	863.4	645.0	218.37	3.954			
25,400.0	12,750.0	25,670.6	12,750.0	110.4	112.7	-90.00	-12,807.3	749.1	863.4	643.4	220.04	3.924			
25,410.0	12,750.0	25,680.6	12,750.0	110.5	112.7	-90.00	-12,817.3	749.2	863.4	643.2	220.21	3.921			
25,500.0	12,750.0	25,755.9	12,750.0	111.3	113.4	-90.00	-12,892.5	750.3	863.9	642.6	221.36	3.903 ES			
25,600.0	12,750.0	25,833.9	12,750.0	112.1	114.0	-90.00	-12,970.5	753.5	867.0	644.6	222.40	3.898			
25,700.0	12,750.0	25,933.8	12,750.0	113.0	114.9	-90.00	-13,070.2	758.7	871.2	647.2	224.07	3.888			
25,799.9	12,750.0	26,033.7	12,750.0	113.8	115.7	-90.00	-13,170.0	764.0	875.5	649.7	225.74	3.878			
25,810.0	12,750.0	26,043.7	12,750.0	113.9	115.8	-90.00	-13,180.0	764.5	875.9	650.0	225.91	3.877 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 802H - Slot BOATER FED COM 802H
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 802H	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 FEDERAL 26 5 TG 001H - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 220-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
20,900.0	12,750.0	17,054.0	12,361.8	72.4	50.8	66.59	-8,529.8	-1,053.4	998.1	879.1	119.04	8.385			
21,000.0	12,750.0	17,054.0	12,361.8	73.3	50.8	66.59	-8,529.8	-1,053.4	982.5	860.7	121.77	8.069			
21,100.0	12,750.0	17,052.8	12,361.9	74.1	50.7	66.59	-8,530.9	-1,053.4	976.9	853.4	123.48	7.912			
21,200.0	12,750.0	16,953.0	12,364.7	74.9	49.8	66.75	-8,630.8	-1,053.0	976.3	852.6	123.70	7.892			
21,300.0	12,750.0	16,824.2	12,370.0	75.8	48.7	67.05	-8,759.4	-1,051.9	974.9	851.3	123.64	7.885			
21,400.0	12,750.0	16,729.1	12,373.8	76.6	47.8	67.21	-8,854.3	-1,048.9	971.4	847.4	123.97	7.836			
21,500.0	12,750.0	16,641.0	12,375.9	77.5	47.0	67.28	-8,942.5	-1,046.5	969.0	844.6	124.39	7.790			
21,600.0	12,750.0	16,550.9	12,376.7	78.3	46.2	67.31	-9,032.5	-1,044.8	967.7	842.9	124.78	7.756			
21,668.6	12,750.0	16,489.9	12,376.4	78.9	45.7	67.29	-9,093.5	-1,043.8	967.4	842.4	125.04	7.737			
21,700.0	12,750.0	16,462.2	12,375.7	79.1	45.4	67.24	-9,121.2	-1,043.3	967.5	842.3	125.16	7.730			
21,800.0	12,750.0	16,367.5	12,371.8	80.0	44.6	67.01	-9,215.8	-1,041.5	968.3	842.8	125.45	7.718			
21,900.0	12,750.0	16,271.3	12,368.6	80.8	43.7	66.83	-9,311.9	-1,040.3	969.4	843.6	125.77	7.708			
22,000.0	12,750.0	16,171.6	12,366.6	81.7	42.9	66.74	-9,411.6	-1,040.0	970.8	844.7	126.10	7.699			
22,100.0	12,750.0	16,049.1	12,368.2	82.5	41.8	66.85	-9,534.1	-1,040.0	971.3	844.9	126.32	7.689			
22,200.0	12,750.0	15,935.3	12,367.7	83.4	40.8	66.77	-9,647.8	-1,036.2	969.3	842.7	126.52	7.661			
22,300.0	12,750.0	15,841.0	12,365.2	84.2	40.0	66.56	-9,742.0	-1,032.4	967.4	840.5	126.94	7.621			
22,400.0	12,750.0	15,732.2	12,366.9	85.0	39.0	66.60	-9,850.7	-1,029.1	965.0	837.7	127.30	7.580			
22,500.0	12,750.0	15,627.4	12,369.8	85.9	38.1	66.72	-9,955.4	-1,026.2	962.3	834.5	127.76	7.532			
22,600.0	12,750.0	15,518.6	12,376.0	86.7	37.2	67.02	-10,063.9	-1,023.4	958.5	830.2	128.25	7.474			
22,700.0	12,750.0	15,407.4	12,380.5	87.6	36.2	67.18	-10,174.9	-1,018.6	953.9	825.3	128.66	7.414			
22,800.0	12,750.0	15,304.4	12,381.1	88.4	35.3	67.07	-10,277.7	-1,011.7	948.4	819.3	129.11	7.346			
22,900.0	12,750.0	15,209.6	12,382.6	89.3	34.5	67.04	-10,372.3	-1,005.9	943.1	813.4	129.74	7.269			
23,000.0	12,750.0	15,134.0	12,383.5	90.1	33.9	67.03	-10,447.9	-1,002.4	939.3	808.7	130.63	7.190			
23,100.0	12,750.0	15,043.4	12,383.6	91.0	33.2	66.99	-10,538.4	-999.9	937.5	806.2	131.33	7.139			
23,200.0	12,750.0	14,941.3	12,383.8	91.8	32.3	66.96	-10,640.5	-997.2	936.0	804.1	131.92	7.096			
23,300.0	12,750.0	14,848.0	12,382.1	92.6	31.6	66.82	-10,733.7	-994.2	934.6	802.0	132.56	7.050			
23,354.1	12,750.0	14,803.0	12,380.3	93.1	31.2	66.70	-10,778.6	-992.6	934.3	801.3	132.95	7.027 CC			
23,400.0	12,750.0	14,767.1	12,379.0	93.5	30.9	66.61	-10,814.5	-991.9	934.5	801.2	133.29	7.011 ES			
23,500.0	12,750.0	14,695.1	12,376.6	94.3	30.3	66.49	-10,886.4	-992.0	937.0	802.9	134.06	6.989			
23,600.0	12,750.0	14,620.2	12,375.0	95.2	29.7	66.51	-10,961.3	-995.4	942.7	807.9	134.79	6.994			
23,700.0	12,750.0	14,517.0	12,371.9	96.0	28.9	66.47	-11,064.3	-1,000.2	949.1	813.7	135.48	7.006			
23,800.0	12,750.0	14,417.6	12,371.8	96.9	28.2	66.64	-11,163.5	-1,006.1	955.5	819.2	136.28	7.011			
23,900.0	12,750.0	14,291.1	12,372.4	97.7	27.3	66.86	-11,289.8	-1,012.9	961.4	824.3	137.09	7.013			
24,000.0	12,750.0	14,185.8	12,375.6	98.6	26.5	67.14	-11,395.0	-1,016.5	964.2	826.2	137.97	6.989			
24,100.0	12,750.0	14,060.0	12,378.3	99.4	25.6	67.37	-11,520.8	-1,018.8	966.0	827.2	138.72	6.963			
24,200.0	12,750.0	13,961.9	12,380.3	100.3	24.9	67.51	-11,618.8	-1,019.3	966.5	826.9	139.61	6.923			
24,300.0	12,750.0	13,845.7	12,382.7	101.1	24.2	67.67	-11,735.0	-1,019.3	966.8	826.4	140.38	6.887			
24,400.0	12,750.0	13,729.4	12,383.9	102.0	23.4	67.68	-11,851.2	-1,015.7	964.3	823.2	141.07	6.836			
24,500.0	12,750.0	13,630.6	12,385.4	102.8	22.8	67.71	-11,950.0	-1,012.4	961.6	819.7	141.96	6.774			
24,600.0	12,750.0	13,529.2	12,387.3	103.7	22.1	67.77	-12,051.3	-1,009.3	959.0	816.1	142.85	6.713			
24,700.0	12,750.0	13,435.3	12,389.9	104.5	21.6	67.88	-12,145.1	-1,006.8	956.4	812.6	143.86	6.648			
24,800.0	12,750.0	13,335.6	12,393.1	105.4	21.1	68.04	-12,244.8	-1,004.9	954.4	809.5	144.86	6.588			
24,900.0	12,750.0	13,236.5	12,396.8	106.2	20.5	68.23	-12,343.8	-1,003.2	952.3	806.4	145.89	6.528			
25,000.0	12,750.0	13,153.1	12,398.1	107.1	20.1	68.29	-12,427.2	-1,001.8	951.1	804.1	147.00	6.470			
25,012.5	12,750.0	13,142.8	12,398.0	107.2	20.1	68.28	-12,437.4	-1,001.6	951.1	804.0	147.13	6.464			
25,100.0	12,750.0	13,067.0	12,396.4	107.9	19.8	68.19	-12,513.2	-1,000.6	951.5	803.5	147.99	6.429			
25,200.0	12,750.0	12,987.3	12,394.3	108.8	19.4	68.09	-12,592.9	-1,000.9	953.7	804.7	148.98	6.402			
25,300.0	12,750.0	12,900.9	12,392.2	109.6	19.1	68.05	-12,679.2	-1,003.3	958.1	808.1	149.95	6.389 SF			
25,400.0	12,750.0	12,828.0	12,388.5	110.4	18.8	67.92	-12,752.0	-1,006.0	964.3	813.5	150.82	6.394			
25,500.0	12,750.0	12,781.0	12,383.3	111.3	18.7	67.72	-12,798.5	-1,009.7	975.6	824.3	151.31	6.448			
25,600.0	12,750.0	12,734.0	12,375.6	112.1	18.6	67.42	-12,844.7	-1,014.4	991.6	840.2	151.37	6.551			

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 802H - Slot BOATER FED COM 802H
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 802H	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 FEDERAL 26 5 TG 001H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 220-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Rule Assigned:													
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)			

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 TB FEDERAL 008H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,100.0	12,750.0	17,261.0	12,480.3	65.8	68.6	-57.25	-8,361.6	260.6	985.1	912.7	72.38	13.611		
20,200.0	12,750.0	17,261.0	12,480.3	66.6	68.6	-57.25	-8,361.6	260.6	900.3	823.0	77.31	11.645		
20,300.0	12,750.0	17,261.0	12,480.3	67.4	68.6	-57.25	-8,361.6	260.6	818.9	735.7	83.19	9.844		
20,400.0	12,750.0	17,261.0	12,480.3	68.3	68.6	-57.25	-8,361.6	260.6	742.0	651.9	90.14	8.232		
20,500.0	12,750.0	17,261.0	12,480.3	69.1	68.6	-57.25	-8,361.6	260.6	671.3	573.1	98.20	6.836		
20,600.0	12,750.0	17,261.0	12,480.3	69.9	68.6	-57.25	-8,361.6	260.6	608.9	501.7	107.16	5.682		
20,700.0	12,750.0	17,261.0	12,480.3	70.8	68.6	-57.25	-8,361.6	260.6	557.5	441.1	116.36	4.791		
20,800.0	12,750.0	17,261.0	12,480.3	71.6	68.6	-57.25	-8,361.6	260.6	520.4	395.9	124.52	4.179		
20,900.0	12,750.0	17,261.0	12,480.3	72.4	68.6	-57.25	-8,361.6	260.6	500.9	371.0	129.91	3.856		
20,972.9	12,750.0	17,235.8	12,480.8	73.0	68.4	-57.30	-8,386.7	261.0	498.3	367.2	131.09	3.801		
21,000.0	12,750.0	17,209.4	12,481.3	73.3	68.2	-57.37	-8,413.1	261.5	498.2	367.1	131.17	3.799		
21,048.9	12,750.0	17,161.8	12,482.2	73.7	67.9	-57.49	-8,460.8	262.5	498.2	366.9	131.30	3.794		
21,100.0	12,750.0	17,112.0	12,483.3	74.1	67.6	-57.64	-8,510.6	263.8	498.2	366.8	131.45	3.790		
21,200.0	12,750.0	17,009.4	12,485.6	74.9	66.9	-57.96	-8,613.1	266.3	498.3	366.6	131.73	3.783		
21,300.0	12,750.0	16,902.6	12,488.6	75.8	66.2	-58.28	-8,719.9	267.9	497.2	365.2	131.98	3.767		
21,400.0	12,750.0	16,805.9	12,492.0	76.6	65.6	-58.65	-8,816.4	269.3	495.8	363.4	132.40	3.744		
21,448.0	12,750.0	16,762.5	12,493.6	77.0	65.3	-58.85	-8,859.8	270.5	495.6	362.9	132.66	3.736		
21,500.0	12,750.0	16,713.8	12,495.3	77.5	65.0	-59.09	-8,908.5	272.2	495.8	362.9	132.92	3.730		
21,600.0	12,750.0	16,615.5	12,498.4	78.3	64.4	-59.57	-9,006.6	276.1	496.7	363.3	133.40	3.723		
21,700.0	12,750.0	16,517.1	12,501.9	79.1	63.7	-60.11	-9,104.8	280.4	497.8	363.9	133.93	3.717		
21,800.0	12,750.0	16,417.3	12,505.6	80.0	63.1	-60.70	-9,204.5	285.3	499.5	365.0	134.50	3.714		
21,900.0	12,750.0	16,315.2	12,509.7	80.8	62.5	-61.31	-9,306.4	289.8	500.4	365.4	135.08	3.705		
22,000.0	12,750.0	16,220.1	12,512.4	81.7	61.9	-61.74	-9,401.4	293.8	502.0	366.3	135.66	3.700		
22,100.0	12,750.0	16,124.1	12,512.1	82.5	61.4	-61.86	-9,497.3	297.4	504.5	368.4	136.12	3.706		
22,200.0	12,750.0	16,027.7	12,510.5	83.4	60.8	-61.83	-9,593.6	300.9	507.6	371.1	136.53	3.718		
22,300.0	12,750.0	15,917.0	12,507.9	84.2	60.2	-61.71	-9,704.2	304.6	510.9	374.0	136.87	3.733		
22,400.0	12,750.0	15,806.8	12,507.0	85.0	59.6	-61.61	-9,814.4	305.3	510.9	373.7	137.18	3.724		
22,469.7	12,750.0	15,739.9	12,507.1	85.6	59.2	-61.60	-9,881.3	305.7	510.6	373.1	137.54	3.713		
22,500.0	12,750.0	15,711.6	12,507.1	85.9	59.1	-61.61	-9,909.6	306.1	510.7	373.0	137.71	3.708		
22,600.0	12,750.0	15,612.2	12,507.7	86.7	58.6	-61.71	-10,009.0	308.0	511.2	372.9	138.25	3.698		
22,700.0	12,750.0	15,501.9	12,509.2	87.6	58.0	-61.87	-10,119.3	309.2	510.7	371.9	138.73	3.681		
22,800.0	12,750.0	15,407.8	12,510.9	88.4	57.5	-62.02	-10,213.3	310.0	509.7	370.3	139.40	3.656		
22,827.3	12,750.0	15,382.3	12,511.3	88.6	57.4	-62.08	-10,238.8	310.4	509.7	370.1	139.60	3.651		
22,900.0	12,750.0	15,314.2	12,512.1	89.3	57.1	-62.19	-10,306.9	311.9	510.0	369.9	140.09	3.641		
23,000.0	12,750.0	15,215.3	12,512.2	90.1	56.6	-62.27	-10,405.8	314.0	510.9	370.2	140.70	3.631		
23,100.0	12,750.0	15,125.5	12,511.8	91.0	56.2	-62.33	-10,495.5	316.8	513.1	371.7	141.36	3.629		
23,200.0	12,750.0	15,022.4	12,511.4	91.8	55.7	-62.45	-10,598.6	320.9	515.8	373.8	142.02	3.632		
23,300.0	12,750.0	14,916.4	12,511.7	92.6	55.2	-62.61	-10,704.5	324.8	518.1	375.4	142.70	3.631		
23,400.0	12,750.0	14,792.5	12,513.1	93.5	54.7	-62.71	-10,828.3	325.2	517.0	373.9	143.12	3.612		
23,500.0	12,750.0	14,687.0	12,515.0	94.3	54.2	-62.69	-10,933.8	322.1	512.7	369.0	143.67	3.568		
23,600.0	12,750.0	14,597.8	12,516.8	95.2	53.9	-62.74	-11,023.0	320.4	509.1	364.5	144.57	3.522		
23,700.0	12,750.0	14,502.2	12,517.3	96.0	53.5	-62.72	-11,118.5	320.0	507.7	362.3	145.32	3.494		
23,800.0	12,750.0	14,398.8	12,517.3	96.9	53.1	-62.61	-11,222.0	319.0	506.0	360.0	145.93	3.467		
23,900.0	12,750.0	14,301.2	12,517.1	97.7	52.8	-62.48	-11,319.6	317.7	504.0	357.4	146.62	3.437		
24,000.0	12,750.0	14,192.8	12,517.9	98.6	52.4	-62.43	-11,427.9	316.5	501.8	354.6	147.22	3.409		
24,100.0	12,750.0	14,085.7	12,521.4	99.4	52.1	-62.63	-11,535.0	314.5	497.7	349.8	147.95	3.364		
24,200.0	12,750.0	13,992.0	12,524.8	100.3	51.8	-62.84	-11,628.6	312.9	493.7	344.7	148.97	3.314		
24,300.0	12,750.0	13,894.0	12,526.7	101.1	51.5	-62.90	-11,726.5	311.3	490.4	340.6	149.84	3.273		
24,400.0	12,750.0	13,797.8	12,527.0	102.0	51.3	-62.79	-11,822.8	309.5	487.7	337.1	150.65	3.238		
24,500.0	12,750.0	13,700.6	12,527.3	102.8	51.0	-62.71	-11,919.9	308.5	485.8	334.3	151.47	3.207		
24,600.0	12,750.0	13,600.1	12,528.1	103.7	50.8	-62.71	-12,020.4	307.9	484.0	331.7	152.30	3.178		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 TB FEDERAL 008H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,700.0	12,750.0	13,498.8	12,530.5	104.5	50.5	-62.91	-12,121.7	307.9	482.1	328.8	153.25	3.146		
24,800.0	12,750.0	13,397.2	12,534.2	105.4	50.3	-63.26	-12,223.3	308.2	479.8	325.5	154.30	3.109		
24,900.0	12,750.0	13,305.0	12,537.4	106.2	50.1	-63.57	-12,315.4	308.5	477.6	322.2	155.47	3.072		
24,918.6	12,750.0	13,290.2	12,537.7	106.4	50.1	-63.61	-12,330.2	308.7	477.6	321.9	155.70	3.067	CC, ES	
25,000.0	12,750.0	13,219.5	12,538.5	107.1	50.0	-63.78	-12,400.8	311.1	478.9	322.3	156.59	3.058		
25,100.0	12,750.0	13,116.2	12,539.6	107.9	49.8	-64.03	-12,504.1	314.5	480.4	322.8	157.64	3.047		
25,200.0	12,750.0	13,018.4	12,538.0	108.8	49.7	-63.94	-12,601.8	317.0	482.6	324.0	158.51	3.044	SF	
25,300.0	12,750.0	12,959.0	12,536.8	109.6	49.6	-63.83	-12,661.2	318.0	486.0	327.0	158.99	3.057		
25,400.0	12,750.0	12,959.0	12,536.8	110.4	49.6	-63.83	-12,661.2	318.0	506.2	351.2	155.04	3.265		
25,500.0	12,750.0	12,914.8	12,520.8	111.3	49.6	-62.17	-12,701.3	318.5	533.8	385.1	148.76	3.589		
25,600.0	12,750.0	12,626.9	12,378.2	112.1	18.9	-48.44	-12,916.8	306.0	568.3	433.5	134.83	4.215		
25,700.0	12,750.0	12,582.0	12,361.9	113.0	18.8	-46.96	-12,958.5	302.7	588.8	456.2	132.62	4.440		
25,799.9	12,750.0	12,515.5	12,333.0	113.8	18.8	-44.54	-13,018.2	298.0	616.1	486.3	129.82	4.746		
25,810.0	12,750.0	12,510.4	12,330.6	113.9	18.8	-44.35	-13,022.6	297.7	619.3	489.8	129.50	4.783		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WC FEDERAL 002H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
20,500.0	12,750.0	17,593.0	13,144.4	69.1	50.3	-165.15	-8,808.9	-49.6	982.6	921.2	61.37	16.012		
20,600.0	12,750.0	17,593.0	13,144.4	69.9	50.3	-165.15	-8,808.9	-49.6	892.6	828.4	64.22	13.900		
20,700.0	12,750.0	17,593.0	13,144.4	70.8	50.3	-165.15	-8,808.9	-49.6	805.0	737.2	67.70	11.889		
20,800.0	12,750.0	17,593.0	13,144.4	71.6	50.3	-165.15	-8,808.9	-49.6	720.5	648.5	72.00	10.008		
20,900.0	12,750.0	17,593.0	13,144.4	72.4	50.3	-165.15	-8,808.9	-49.6	640.6	563.4	77.25	8.293		
21,000.0	12,750.0	17,593.0	13,144.4	73.3	50.3	-165.15	-8,808.9	-49.6	567.1	483.6	83.55	6.788		
21,100.0	12,750.0	17,593.0	13,144.4	74.1	50.3	-165.15	-8,808.9	-49.6	502.9	412.1	90.71	5.543		
21,200.0	12,750.0	17,593.0	13,144.4	74.9	50.3	-165.15	-8,808.9	-49.6	451.8	353.9	97.90	4.614		
21,300.0	12,750.0	17,593.0	13,144.4	75.8	50.3	-165.15	-8,808.9	-49.6	418.7	315.4	103.36	4.051		
21,393.9	12,750.0	17,593.0	13,144.4	76.6	50.3	-165.15	-8,808.9	-49.6	408.1	303.1	104.93	3.889		
21,400.0	12,750.0	17,593.0	13,144.4	76.6	50.3	-165.15	-8,808.9	-49.6	408.1	303.2	104.88	3.891		
21,500.0	12,750.0	17,497.2	13,147.2	77.5	49.5	-165.23	-8,904.7	-48.5	410.9	306.3	104.58	3.929		
21,600.0	12,750.0	17,387.9	13,148.1	78.3	48.6	-165.04	-9,013.9	-45.7	412.1	307.6	104.53	3.942		
21,700.0	12,750.0	17,282.6	13,147.0	79.1	47.7	-164.62	-9,119.1	-41.8	411.9	307.3	104.58	3.938		
21,800.0	12,750.0	17,178.0	13,144.9	80.0	46.9	-164.41	-9,223.7	-39.9	410.1	305.6	104.52	3.923		
21,900.0	12,750.0	17,083.3	13,143.2	80.8	46.1	-164.41	-9,318.4	-39.4	408.3	303.9	104.34	3.913		
21,933.9	12,750.0	17,052.8	13,143.1	81.1	45.9	-164.45	-9,348.9	-39.4	408.1	303.9	104.25	3.915		
22,000.0	12,750.0	16,987.6	13,143.5	81.7	45.3	-164.56	-9,414.0	-39.4	408.3	304.2	104.09	3.922		
22,100.0	12,750.0	16,895.5	13,144.4	82.5	44.6	-164.70	-9,506.1	-39.3	409.0	305.2	103.79	3.941		
22,200.0	12,750.0	16,797.3	13,147.8	83.4	43.8	-164.93	-9,604.2	-39.1	412.2	308.6	103.52	3.981		
22,300.0	12,750.0	16,692.6	13,149.6	84.2	43.0	-164.94	-9,709.0	-37.7	413.9	310.4	103.49	4.000		
22,400.0	12,750.0	16,599.8	13,151.2	85.0	42.3	-164.81	-9,801.7	-35.4	415.9	312.6	103.36	4.024		
22,500.0	12,750.0	16,501.6	13,154.6	85.9	41.5	-164.76	-9,899.8	-33.0	419.7	316.4	103.28	4.063		
22,600.0	12,750.0	16,389.8	13,157.4	86.7	40.7	-164.83	-10,011.5	-31.7	422.2	318.8	103.40	4.083		
22,700.0	12,750.0	16,284.9	13,157.8	87.6	39.9	-164.96	-10,116.5	-31.5	422.3	318.9	103.36	4.085		
22,800.0	12,750.0	16,174.6	13,155.9	88.4	39.0	-164.98	-10,226.7	-31.1	420.5	317.0	103.46	4.064		
22,900.0	12,750.0	16,078.4	13,153.5	89.3	38.3	-165.05	-10,322.9	-31.3	417.8	314.4	103.38	4.041		
22,951.6	12,750.0	16,034.8	13,153.4	89.7	38.0	-165.21	-10,366.5	-32.1	417.3	314.1	103.19	4.044		
23,000.0	12,750.0	15,991.9	13,154.2	90.1	37.7	-165.43	-10,409.4	-33.1	417.7	314.7	102.98	4.056		
23,100.0	12,750.0	15,891.3	13,156.1	91.0	37.0	-165.91	-10,510.0	-35.3	418.7	316.0	102.76	4.075		
23,200.0	12,750.0	15,799.6	13,159.2	91.8	36.4	-166.49	-10,601.5	-38.0	421.1	318.7	102.32	4.115		
23,300.0	12,750.0	15,695.6	13,163.6	92.6	35.7	-167.20	-10,705.4	-41.3	424.3	322.2	102.09	4.156		
23,400.0	12,750.0	15,578.8	13,164.1	93.5	34.9	-167.62	-10,822.2	-43.2	424.0	321.7	102.27	4.146		
23,500.0	12,750.0	15,482.6	13,162.5	94.3	34.2	-167.70	-10,918.3	-43.2	422.2	320.0	102.26	4.129		
23,527.3	12,750.0	15,458.6	13,162.4	94.6	34.1	-167.70	-10,942.4	-43.0	422.1	319.9	102.22	4.130		
23,600.0	12,750.0	15,386.9	13,162.7	95.2	33.6	-167.69	-11,014.1	-42.1	422.5	320.2	102.28	4.130		
23,700.0	12,750.0	15,266.7	13,160.7	96.0	32.9	-167.55	-11,134.2	-40.3	421.1	318.3	102.81	4.096		
23,800.0	12,750.0	15,177.2	13,156.5	96.9	32.3	-167.14	-11,223.6	-37.3	417.1	314.1	102.98	4.050		
23,863.7	12,750.0	15,122.0	13,155.8	97.4	32.0	-167.02	-11,278.7	-36.0	416.5	313.5	102.96	4.045		
23,900.0	12,750.0	15,089.2	13,155.9	97.7	31.8	-167.01	-11,311.5	-35.6	416.7	313.7	102.94	4.047		
24,000.0	12,750.0	14,973.2	13,156.0	98.6	31.1	-167.15	-11,427.5	-35.5	416.6	313.3	103.38	4.030		
24,066.5	12,750.0	14,919.2	13,155.0	99.1	30.8	-167.19	-11,481.5	-35.5	415.4	312.2	103.19	4.025		
24,100.0	12,750.0	14,893.9	13,155.3	99.4	30.6	-167.21	-11,506.8	-35.3	415.7	312.7	103.01	4.035		
24,200.0	12,750.0	14,802.0	13,158.6	100.3	30.1	-167.28	-11,598.6	-34.2	419.3	316.3	102.92	4.074		
24,300.0	12,750.0	14,697.4	13,162.3	101.1	29.6	-167.37	-11,703.1	-32.9	422.8	319.5	103.24	4.095		
24,400.0	12,750.0	14,587.0	13,163.4	102.0	29.0	-167.36	-11,813.5	-31.5	423.7	319.9	103.78	4.083		
24,500.0	12,750.0	14,495.9	13,163.8	102.8	28.6	-167.36	-11,904.6	-30.6	424.3	320.5	103.75	4.089		
24,600.0	12,750.0	14,384.4	13,164.4	103.7	28.1	-167.09	-12,016.1	-27.3	425.2	320.7	104.51	4.069		
24,693.5	12,750.0	14,292.0	13,163.4	104.5	27.7	-166.63	-12,108.4	-23.0	425.0	320.0	105.01	4.047		
24,700.0	12,750.0	14,286.0	13,163.4	104.5	27.6	-166.61	-12,114.4	-22.8	425.0	319.9	105.02	4.046		
24,800.0	12,750.0	14,192.0	13,164.1	105.4	27.2	-166.45	-12,208.3	-20.5	426.0	320.8	105.23	4.048		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WC FEDERAL 002H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 183-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,900.0	12,750.0	14,089.4	13,164.8	106.2	26.8	-166.31	-12,310.9	-18.2	427.0	321.3	105.72	4.040		
25,000.0	12,750.0	13,989.7	13,167.2	107.1	26.4	-166.91	-12,410.5	-21.3	428.4	322.7	105.67	4.054		
25,100.0	12,750.0	13,883.3	13,168.3	107.9	26.1	-167.59	-12,516.8	-25.2	428.3	322.5	105.82	4.047		
25,162.6	12,750.0	13,822.5	13,168.7	108.4	25.9	-167.98	-12,577.6	-27.5	428.1	322.4	105.78	4.048		
25,200.0	12,750.0	13,787.8	13,169.2	108.8	25.8	-168.20	-12,612.2	-28.7	428.3	322.6	105.70	4.052		
25,300.0	12,750.0	13,683.7	13,170.9	109.6	25.5	-168.78	-12,716.2	-31.7	429.2	323.3	105.89	4.053		
25,400.0	12,750.0	13,563.1	13,167.7	110.4	25.3	-168.69	-12,836.8	-30.5	426.6	319.7	106.88	3.991		
25,500.0	12,750.0	13,247.2	13,081.9	111.3	24.8	-164.87	-13,136.7	-21.4	409.1	306.6	102.57	3.989		
25,600.0	12,750.0	13,024.5	12,925.4	112.1	24.8	-153.72	-13,292.6	-22.9	339.7	251.0	88.69	3.831		
25,700.0	12,750.0	12,942.1	12,852.9	113.0	24.8	-139.31	-13,331.4	-20.7	255.4	164.9	90.53	2.822	Normal Operations	
25,799.9	12,750.0	12,891.3	12,806.2	113.8	24.8	-122.23	-13,351.5	-19.7	172.6	67.1	105.56	1.635	Caution - Monitor Closely	
25,810.0	12,750.0	12,885.9	12,801.2	113.9	24.8	-119.87	-13,353.5	-19.7	164.7	56.7	108.03	1.525	Caution - Monitor Closely, 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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WXY FEDERAL 006H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 90-r-5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference				Offset		Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,000.0	12,750.0	17,503.0	12,499.7	64.9	58.0	44.61	-8,295.2	-406.1	944.5	883.2	61.36	15.393		
20,100.0	12,750.0	17,503.0	12,499.7	65.8	58.0	44.61	-8,295.2	-406.1	852.5	788.0	64.59	13.199		
20,200.0	12,750.0	17,503.0	12,499.7	66.6	58.0	44.61	-8,295.2	-406.1	762.6	693.8	68.72	11.097		
20,300.0	12,750.0	17,503.0	12,499.7	67.4	58.0	44.61	-8,295.2	-406.1	675.4	601.3	74.04	9.122		
20,400.0	12,750.0	17,503.0	12,499.7	68.3	58.0	44.61	-8,295.2	-406.1	592.3	511.4	80.93	7.318		
20,500.0	12,750.0	17,503.0	12,499.7	69.1	58.0	44.61	-8,295.2	-406.1	515.2	425.5	89.75	5.741		
20,600.0	12,750.0	17,503.0	12,499.7	69.9	58.0	44.61	-8,295.2	-406.1	447.4	346.8	100.54	4.450		
20,700.0	12,750.0	17,503.0	12,499.7	70.8	58.0	44.61	-8,295.2	-406.1	393.4	281.1	112.32	3.503		
20,800.0	12,750.0	17,503.0	12,499.7	71.6	58.0	44.61	-8,295.2	-406.1	359.8	237.7	122.06	2.948	Normal Operations	
20,900.0	12,750.0	17,469.6	12,499.4	72.4	57.8	44.37	-8,328.6	-404.1	350.7	225.7	125.04	2.805	Normal Operations	
21,000.0	12,750.0	17,373.1	12,498.1	73.3	57.0	43.70	-8,424.9	-398.7	348.5	223.9	124.62	2.796	Normal Operations	
21,100.0	12,750.0	17,267.0	12,496.5	74.1	56.1	42.89	-8,530.8	-392.4	346.2	222.3	123.89	2.794	Normal Operations	
21,200.0	12,750.0	17,154.9	12,501.6	74.9	55.2	43.07	-8,642.7	-388.0	340.9	217.4	123.43	2.762	Normal Operations	
21,300.0	12,750.0	17,055.6	12,505.9	75.8	54.4	42.81	-8,741.6	-380.9	333.5	210.4	123.19	2.708	Normal Operations	
21,400.0	12,750.0	16,967.2	12,507.8	76.6	53.7	42.40	-8,829.8	-375.1	328.2	204.9	123.23	2.663	Normal Operations	
21,500.0	12,750.0	16,875.6	12,507.5	77.5	52.9	41.94	-8,921.3	-370.9	326.0	203.0	123.09	2.649	Normal Operations	
21,600.0	12,750.0	16,778.2	12,507.3	78.3	52.2	41.83	-9,018.7	-369.2	325.6	202.6	123.01	2.647	Normal Operations	
21,614.0	12,750.0	16,764.4	12,507.3	78.4	52.1	41.82	-9,032.5	-369.0	325.6	202.6	123.00	2.648	Normal Operations	
21,700.0	12,750.0	16,687.2	12,506.2	79.1	51.5	41.72	-9,109.7	-368.5	326.7	203.7	123.03	2.655	Normal Operations	
21,800.0	12,750.0	16,570.0	12,506.0	80.0	50.6	41.82	-9,226.9	-368.3	327.5	204.8	122.70	2.669	Normal Operations	
21,900.0	12,750.0	16,460.7	12,511.2	80.8	49.8	42.30	-9,336.0	-366.2	323.3	200.6	122.67	2.635	Normal Operations	
22,000.0	12,750.0	16,354.1	12,517.5	81.7	49.0	42.61	-9,442.3	-361.7	316.8	194.2	122.58	2.584	Normal Operations	
22,100.0	12,750.0	16,247.1	12,524.2	82.5	48.2	42.52	-9,548.8	-353.8	307.9	185.7	122.17	2.520	Normal Operations	
22,200.0	12,750.0	16,144.7	12,532.5	83.4	47.4	42.60	-9,650.6	-345.7	297.2	175.1	122.09	2.434	Caution - Monitor Closely	
22,300.0	12,750.0	16,045.4	12,539.4	84.2	46.7	42.27	-9,749.1	-336.2	286.2	164.3	121.94	2.347	Caution - Monitor Closely	
22,400.0	12,750.0	15,950.5	12,545.4	85.0	46.0	41.88	-9,843.4	-327.2	275.9	153.8	122.05	2.260	Caution - Monitor Closely	
22,500.0	12,750.0	15,860.5	12,549.4	85.9	45.4	41.49	-9,933.0	-320.4	268.2	145.8	122.42	2.191	Caution - Monitor Closely	
22,600.0	12,750.0	15,770.9	12,551.4	86.7	44.7	41.35	-10,022.5	-316.8	264.5	141.7	122.86	2.153	Caution - Monitor Closely	
22,652.7	12,750.0	15,723.0	12,552.7	87.2	44.4	41.65	-10,070.5	-317.1	264.1	140.8	123.29	2.142	Caution - Monitor Closely, CC	
22,700.0	12,750.0	15,677.6	12,553.3	87.6	44.1	41.90	-10,115.8	-317.6	264.2	140.7	123.57	2.138	Caution - Monitor Closely, ES, SF	
22,800.0	12,750.0	15,581.9	12,551.6	88.4	43.4	41.70	-10,211.5	-316.9	265.7	142.0	123.69	2.148	Caution - Monitor Closely	
22,900.0	12,750.0	15,490.0	12,549.0	89.3	42.8	41.64	-10,303.4	-318.0	269.3	145.3	123.94	2.173	Caution - Monitor Closely	
23,000.0	12,750.0	15,398.8	12,544.4	90.1	42.2	41.72	-10,394.4	-321.7	276.4	152.2	124.22	2.225	Caution - Monitor Closely	
23,100.0	12,750.0	15,301.7	12,539.0	91.0	41.7	42.13	-10,491.1	-328.2	285.7	160.9	124.73	2.290	Caution - Monitor Closely	
23,200.0	12,750.0	15,201.3	12,533.8	91.8	41.1	42.61	-10,591.2	-335.2	294.9	169.5	125.32	2.353	Caution - Monitor Closely	
23,300.0	12,750.0	15,101.6	12,528.9	92.6	40.5	43.09	-10,690.5	-342.2	303.9	178.0	125.95	2.413	Caution - Monitor Closely	
23,400.0	12,750.0	15,000.8	12,524.4	93.5	39.9	43.64	-10,790.9	-349.5	312.9	186.2	126.65	2.470	Caution - Monitor Closely	
23,500.0	12,750.0	14,901.6	12,519.0	94.3	39.3	43.84	-10,889.8	-355.3	321.5	194.4	127.12	2.529	Normal Operations	
23,600.0	12,750.0	14,781.7	12,512.1	95.2	38.7	43.33	-11,009.4	-356.6	327.0	200.1	126.90	2.577	Normal Operations	
23,700.0	12,750.0	14,654.7	12,515.7	96.0	38.0	43.84	-11,136.3	-355.9	325.2	198.5	126.75	2.566	Normal Operations	
23,800.0	12,750.0	14,556.9	12,523.7	96.9	37.5	44.63	-11,233.7	-353.4	318.4	190.5	127.81	2.491	Caution - Monitor Closely	
23,861.5	12,750.0	14,510.5	12,523.9	97.4	37.2	44.46	-11,280.1	-351.5	316.8	188.4	128.42	2.467	Caution - Monitor Closely	
23,900.0	12,750.0	14,475.5	12,522.1	97.7	37.0	44.07	-11,315.0	-349.8	317.1	188.8	128.34	2.471	Caution - Monitor Closely	
24,000.0	12,750.0	14,373.3	12,516.7	98.6	36.5	42.78	-11,416.9	-344.0	317.8	190.2	127.61	2.490	Caution - Monitor Closely	
24,100.0	12,750.0	14,267.5	12,514.5	99.4	36.0	42.15	-11,522.6	-340.3	317.6	190.3	127.30	2.495	Caution - Monitor Closely	
24,200.0	12,750.0	14,161.2	12,516.5	100.3	35.5	42.09	-11,628.8	-337.0	314.8	187.4	127.41	2.471	Caution - Monitor Closely	
24,300.0	12,750.0	14,062.9	12,518.7	101.1	35.1	42.01	-11,727.1	-333.4	311.4	183.6	127.83	2.436	Caution - Monitor Closely	
24,400.0	12,750.0	13,969.0	12,520.0	102.0	34.7	41.98	-11,820.9	-331.1	309.3	180.8	128.48	2.407	Caution - Monitor Closely	
24,437.2	12,750.0	13,934.6	12,520.3	102.3	34.6	42.01	-11,855.3	-330.7	309.1	180.4	128.77	2.401	Caution - Monitor Closely	
24,500.0	12,750.0	13,875.3	12,520.5	102.8	34.3	42.15	-11,914.6	-330.9	309.5	180.2	129.29	2.393	Caution - Monitor Closely	
24,600.0	12,750.0	13,776.6	12,521.1	103.7	34.0	42.61	-12,013.3	-332.8	311.0	180.8	130.23	2.388	Caution - Monitor Closely	

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - CAVE LION 5 WXY FEDERAL 006H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 90-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,700.0	12,750.0	13,675.5	12,521.4	104.5	33.6	42.97	-12,114.4	-334.2	312.3	181.3	131.04	2.384	Caution - Monitor Closely	
24,800.0	12,750.0	13,576.7	12,521.7	105.4	33.3	43.28	-12,213.2	-335.3	313.6	181.7	131.89	2.378	Caution - Monitor Closely	
24,900.0	12,750.0	13,475.9	12,522.8	106.2	33.0	43.86	-12,313.9	-337.6	315.1	182.2	132.94	2.370	Caution - Monitor Closely	
25,000.0	12,750.0	13,375.5	12,525.8	107.1	32.7	44.88	-12,414.2	-341.5	316.4	181.9	134.46	2.353	Caution - Monitor Closely	
25,100.0	12,750.0	13,275.4	12,528.4	107.9	32.5	45.77	-12,514.2	-344.9	317.6	181.7	135.90	2.337	Caution - Monitor Closely	
25,200.0	12,750.0	13,180.4	12,530.1	108.8	32.3	46.52	-12,609.2	-348.2	319.6	182.3	137.35	2.327	Caution - Monitor Closely	
25,300.0	12,750.0	13,090.9	12,529.3	109.6	32.1	46.99	-12,698.5	-351.9	324.0	185.4	138.59	2.338	Caution - Monitor Closely	
25,400.0	12,750.0	12,987.0	12,526.5	110.4	31.9	47.25	-12,802.3	-356.2	329.6	190.1	139.45	2.363	Caution - Monitor Closely	
25,500.0	12,750.0	12,893.0	12,522.0	111.3	31.8	47.10	-12,896.1	-358.9	335.7	195.6	140.05	2.397	Caution - Monitor Closely	
25,600.0	12,750.0	12,814.0	12,513.9	112.1	31.7	46.50	-12,974.6	-361.5	345.7	205.7	140.05	2.468	Caution - Monitor Closely	
25,700.0	12,750.0	12,749.2	12,500.2	113.0	31.6	45.07	-13,038.0	-362.5	362.7	224.4	138.22	2.624	Normal Operations	
25,799.9	12,750.0	12,691.1	12,478.5	113.8	31.5	42.65	-13,091.8	-361.6	390.2	256.0	134.14	2.909	Normal Operations	
25,810.0	12,750.0	12,684.5	12,475.6	113.9	31.5	42.33	-13,097.6	-361.4	393.5	259.8	133.65	2.944	Normal Operations	

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 802H - Slot BOATER FED COM 802H
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 802H	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 FEDERAL 26-35-5 WA 005H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 208-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
20,700.0	12,750.0	17,275.0	12,593.0	70.8	50.6	79.96	79.96	-8,528.9	-1,043.8	987.1	874.9	112.23	8.796	
20,800.0	12,750.0	17,275.0	12,593.0	71.6	50.6	79.96	79.96	-8,528.9	-1,043.8	950.6	833.7	116.87	8.133	
20,900.0	12,750.0	17,275.0	12,593.0	72.4	50.6	79.96	79.96	-8,528.9	-1,043.8	923.4	802.6	120.84	7.642	
21,000.0	12,750.0	17,275.0	12,593.0	73.3	50.6	79.96	79.96	-8,528.9	-1,043.8	906.6	782.8	123.83	7.321	
21,100.0	12,750.0	17,275.0	12,593.0	74.1	50.6	79.96	79.96	-8,528.9	-1,043.8	900.6	775.0	125.61	7.170	
21,128.4	12,750.0	17,250.6	12,592.1	74.3	50.4	79.91	79.91	-8,553.3	-1,043.4	900.6	774.9	125.71	7.164	
21,200.0	12,750.0	17,176.6	12,587.9	74.9	49.7	79.63	79.63	-8,627.2	-1,042.0	900.7	774.8	125.84	7.157	
21,300.0	12,750.0	17,076.2	12,583.3	75.8	48.8	79.33	79.33	-8,727.4	-1,039.7	900.2	774.2	126.07	7.141	
21,361.6	12,750.0	17,017.1	12,582.5	76.3	48.3	79.27	79.27	-8,786.5	-1,038.8	900.1	773.9	126.26	7.129	
21,400.0	12,750.0	16,980.4	12,581.7	76.6	48.0	79.23	79.23	-8,823.2	-1,038.3	900.2	773.8	126.38	7.123	
21,500.0	12,750.0	16,883.0	12,579.4	77.5	47.1	79.08	79.08	-8,920.5	-1,037.3	900.5	773.8	126.70	7.107	
21,600.0	12,750.0	16,784.8	12,577.9	78.3	46.2	78.99	78.99	-9,018.7	-1,036.6	901.1	774.1	127.04	7.093	
21,700.0	12,750.0	16,685.0	12,577.6	79.1	45.3	78.98	78.98	-9,118.5	-1,036.3	901.8	774.4	127.40	7.078	
21,800.0	12,750.0	16,593.5	12,577.6	80.0	44.5	78.99	78.99	-9,210.0	-1,036.4	902.9	775.1	127.85	7.063	
21,900.0	12,750.0	16,488.0	12,577.7	80.8	43.6	79.02	79.02	-9,315.6	-1,036.9	904.3	776.1	128.23	7.053	
22,000.0	12,750.0	16,379.0	12,575.7	81.7	42.6	78.89	78.89	-9,424.5	-1,036.1	905.0	776.4	128.58	7.038	
22,100.0	12,750.0	16,257.0	12,572.2	82.5	41.5	78.65	78.65	-9,546.5	-1,032.8	903.9	775.1	128.80	7.018	
22,200.0	12,750.0	16,155.7	12,569.8	83.4	40.6	78.46	78.46	-9,647.5	-1,028.2	900.8	771.6	129.21	6.972	
22,300.0	12,750.0	16,072.1	12,570.5	84.2	39.8	78.49	78.49	-9,731.1	-1,026.1	899.2	769.4	129.84	6.926	
22,340.4	12,750.0	16,038.0	12,571.6	84.5	39.5	78.56	78.56	-9,765.2	-1,025.9	899.1	769.0	130.09	6.911	
22,400.0	12,750.0	15,983.2	12,573.5	85.0	39.0	78.68	78.68	-9,820.0	-1,025.9	899.3	768.8	130.46	6.893	
22,500.0	12,750.0	15,881.8	12,576.0	85.9	38.1	78.85	78.85	-9,921.3	-1,026.1	899.9	768.9	131.02	6.868	
22,600.0	12,750.0	15,778.2	12,578.7	86.7	37.2	79.03	79.03	-10,025.0	-1,025.7	900.0	768.4	131.60	6.839	
22,636.4	12,750.0	15,741.9	12,579.7	87.0	36.9	79.10	79.10	-10,061.2	-1,025.5	900.0	768.2	131.82	6.828	
22,700.0	12,750.0	15,680.9	12,581.3	87.6	36.4	79.20	79.20	-10,122.2	-1,025.3	900.1	767.9	132.23	6.807	
22,800.0	12,750.0	15,547.7	12,582.7	88.4	35.2	79.27	79.27	-10,125.3	-1,022.7	899.2	766.6	132.54	6.784	
22,900.0	12,750.0	15,356.1	12,578.4	89.3	33.4	78.77	78.77	-10,445.5	-1,001.7	889.0	757.6	131.33	6.769	
23,000.0	12,750.0	15,284.0	12,576.9	90.1	32.7	78.56	78.56	-10,517.1	-993.0	878.0	745.5	132.52	6.626	
23,100.0	12,750.0	15,221.0	12,575.3	91.0	32.1	78.40	78.40	-10,579.8	-987.6	870.5	736.7	133.84	6.504	
23,200.0	12,750.0	15,136.9	12,570.9	91.8	31.4	78.04	78.04	-10,663.6	-981.1	865.0	730.3	134.68	6.423	
23,300.0	12,750.0	15,065.7	12,568.9	92.6	30.8	77.87	77.87	-10,734.6	-977.6	861.8	726.2	135.66	6.353	
23,325.6	12,750.0	15,050.4	12,568.7	92.9	30.6	77.86	77.86	-10,750.0	-977.3	861.7	725.8	135.91	6.340 CC, ES	
23,400.0	12,750.0	15,016.5	12,568.7	93.5	30.3	77.86	77.86	-10,783.9	-977.2	862.9	726.3	136.59	6.318	
23,500.0	12,750.0	14,881.9	12,570.6	94.3	29.1	78.02	78.02	-10,918.4	-978.1	863.8	726.5	137.24	6.294	
23,600.0	12,750.0	14,823.0	12,570.9	95.2	28.6	78.06	78.06	-10,977.3	-979.5	866.9	728.8	138.10	6.277	
23,700.0	12,750.0	14,751.9	12,571.0	96.0	28.1	78.14	78.14	-11,048.3	-984.2	874.2	735.4	138.81	6.298	
23,800.0	12,750.0	14,688.2	12,571.6	96.9	27.6	78.27	78.27	-11,111.6	-990.4	884.6	745.3	139.31	6.350	
23,900.0	12,750.0	14,623.0	12,571.6	97.7	27.0	78.41	78.41	-11,176.0	-1,000.3	900.1	760.5	139.65	6.446	
24,000.0	12,750.0	14,504.9	12,572.1	98.6	26.2	78.71	78.71	-11,292.4	-1,020.6	918.3	777.4	140.84	6.520	
24,100.0	12,750.0	14,321.1	12,573.7	99.4	24.7	79.05	79.05	-11,475.2	-1,038.2	928.7	786.4	142.37	6.523	
24,200.0	12,750.0	14,207.3	12,574.0	100.3	23.9	79.14	79.14	-11,588.8	-1,043.6	934.4	791.2	143.28	6.522	
24,300.0	12,750.0	14,100.8	12,576.1	101.1	23.1	79.29	79.29	-11,695.2	-1,045.0	936.3	792.1	144.19	6.494	
24,400.0	12,750.0	14,027.8	12,580.6	102.0	22.6	79.62	79.62	-11,768.1	-1,048.8	941.2	796.1	145.13	6.485	
24,500.0	12,750.0	13,918.1	12,586.8	102.8	21.8	80.07	80.07	-11,877.3	-1,055.8	947.6	801.4	146.18	6.482	
24,600.0	12,750.0	13,729.4	12,594.6	103.7	20.5	80.56	80.56	-12,065.7	-1,056.1	948.0	801.2	146.80	6.458	
24,700.0	12,750.0	13,595.0	12,595.2	104.5	19.6	80.51	80.51	-12,199.7	-1,046.0	941.4	794.1	147.28	6.392	
24,800.0	12,750.0	13,496.3	12,594.1	105.4	19.0	80.36	80.36	-12,298.0	-1,036.9	933.4	785.2	148.23	6.297	
24,900.0	12,750.0	13,397.6	12,592.5	106.2	18.4	80.17	80.17	-12,396.3	-1,027.9	925.7	776.5	149.20	6.204	
25,000.0	12,750.0	13,314.8	12,589.3	107.1	17.9	79.91	79.91	-12,478.7	-1,020.8	918.9	768.5	150.40	6.110	
25,100.0	12,750.0	13,226.4	12,584.8	107.9	17.5	79.57	79.57	-12,566.8	-1,014.5	913.7	762.2	151.48	6.032	
25,200.0	12,750.0	13,138.2	12,581.2	108.8	17.1	79.31	79.31	-12,654.8	-1,009.4	909.7	757.1	152.58	5.962	

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 802H - Slot BOATER FED COM 802H
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 802H	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 FEDERAL 26-35-5 WA 005H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 208-r.5 MWD+IFR1													Offset Well Error: 0.0 usft
Reference													Rule Assigned:
Offset				Semi Major Axis		Offset Wellbore Centre			Distance		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)	No-Go Distance (usft)	Factor	
25,300.0	12,750.0	13,046.0	12,578.6	109.6	16.7	79.11	-12,746.9	-1,005.4	907.0	753.3	153.64	5.903	
25,400.0	12,750.0	12,927.8	12,569.1	110.4	16.3	78.46	-12,864.4	-999.2	904.5	750.2	154.35	5.860	
25,500.0	12,750.0	12,796.2	12,539.9	111.3	16.0	76.41	-12,991.3	-981.5	896.5	742.1	154.36	5.808	
25,600.0	12,750.0	12,697.5	12,500.8	112.1	15.8	73.68	-13,079.8	-962.8	888.6	734.1	154.51	5.751	
25,681.9	12,750.0	12,660.7	12,482.4	112.8	15.8	72.41	-13,110.9	-955.6	885.7	730.3	155.38	5.700	
25,700.0	12,750.0	12,652.0	12,477.7	113.0	15.8	72.10	-13,118.1	-954.1	885.7	730.2	155.49	5.696 SF	
25,799.9	12,750.0	12,601.0	12,449.6	113.8	15.8	70.22	-13,159.8	-946.3	890.1	734.4	155.62	5.719	
25,810.0	12,750.0	12,593.0	12,445.0	113.9	15.8	69.92	-13,166.3	-945.1	890.8	735.2	155.55	5.727	

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 802H - Slot BOATER FED COM 802H
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 802H	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: CAVE LION 5 FEDERAL (5H, 1H) - CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 FEDERAL BC 1H - CAVE LION 5 FEDERAL BC 1H													Offset Site Error:	3.3 usft
Survey Program: 204-r.5 MWD, 1147-r.5 MWD, 5500-r.5 MWD, 9288-r.5 MWD, 11182-r.5 MWD, 11655-r.5 MWD, 13134-r.5 MWD										Rule Assigned:			Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
20,900.0	12,750.0	17,054.0	12,361.8	72.4	78.4	66.59	-8,529.8	-1,053.6	998.3	859.6	138.66	7.199		
21,000.0	12,750.0	17,054.0	12,361.8	73.3	78.4	66.59	-8,529.8	-1,053.6	982.6	841.0	141.64	6.938		
21,100.0	12,750.0	17,052.9	12,361.9	74.1	78.3	66.60	-8,530.9	-1,053.6	977.0	833.6	143.45	6.811		
21,200.0	12,750.0	16,953.0	12,364.6	74.9	76.7	66.76	-8,630.8	-1,053.2	976.4	833.6	142.85	6.835		
21,300.0	12,750.0	16,824.3	12,370.0	75.8	74.7	67.05	-8,759.4	-1,052.1	975.1	833.3	141.75	6.879		
21,400.0	12,750.0	16,729.2	12,373.8	76.6	73.2	67.21	-8,854.4	-1,049.1	971.6	830.3	141.31	6.875		
21,500.0	12,750.0	16,641.0	12,375.8	77.5	71.8	67.29	-8,942.5	-1,046.7	969.1	828.1	141.01	6.873		
21,600.0	12,750.0	16,551.0	12,376.7	78.3	70.3	67.32	-9,032.5	-1,045.0	967.9	827.2	140.67	6.880		
21,668.6	12,750.0	16,489.9	12,376.4	78.9	69.4	67.29	-9,093.6	-1,043.9	967.6	827.2	140.43	6.890		
21,700.0	12,750.0	16,462.3	12,375.7	79.1	68.9	67.25	-9,121.2	-1,043.4	967.7	827.3	140.31	6.896		
21,800.0	12,750.0	16,367.6	12,371.8	80.0	67.4	67.01	-9,215.8	-1,041.6	968.4	828.6	139.79	6.928		
21,900.0	12,750.0	16,271.4	12,368.6	80.8	65.9	66.84	-9,311.9	-1,040.5	969.5	830.2	139.31	6.960		
22,000.0	12,750.0	16,171.6	12,366.6	81.7	64.4	66.75	-9,411.6	-1,040.2	971.0	832.1	138.87	6.992		
22,100.0	12,750.0	16,049.1	12,368.2	82.5	62.4	66.86	-9,534.1	-1,040.2	971.4	833.2	138.19	7.029		
22,200.0	12,750.0	15,935.3	12,367.7	83.4	60.6	66.77	-9,647.8	-1,036.4	969.4	831.9	137.55	7.048		
22,300.0	12,750.0	15,841.0	12,365.2	84.2	59.2	66.56	-9,742.0	-1,032.5	967.6	830.3	137.28	7.048		
22,400.0	12,750.0	15,732.2	12,366.9	85.0	57.5	66.60	-9,850.7	-1,029.3	965.1	828.2	136.91	7.049		
22,500.0	12,750.0	15,627.4	12,369.8	85.9	55.8	66.72	-9,955.4	-1,026.4	962.4	825.7	136.70	7.040		
22,600.0	12,750.0	15,518.7	12,376.0	86.7	54.2	67.02	-10,063.9	-1,023.5	958.6	822.1	136.56	7.020		
22,700.0	12,750.0	15,407.5	12,380.5	87.6	52.4	67.18	-10,174.9	-1,018.8	954.1	817.8	136.31	6.999		
22,800.0	12,750.0	15,304.5	12,381.1	88.4	50.9	67.08	-10,277.7	-1,011.9	948.6	812.4	136.14	6.968		
22,900.0	12,750.0	15,209.7	12,382.6	89.3	49.4	67.04	-10,372.3	-1,006.1	943.2	807.0	136.24	6.924		
23,000.0	12,750.0	15,134.0	12,383.5	90.1	48.3	67.03	-10,447.9	-1,002.6	939.4	802.7	136.76	6.869		
23,100.0	12,750.0	15,043.5	12,383.6	91.0	46.9	67.00	-10,538.4	-1,000.0	937.7	800.7	136.99	6.845		
23,200.0	12,750.0	14,941.4	12,383.8	91.8	45.4	66.97	-10,640.5	-997.4	936.2	799.1	137.07	6.830		
23,300.0	12,750.0	14,848.0	12,382.1	92.6	44.0	66.83	-10,733.7	-994.3	934.7	797.5	137.27	6.810		
23,354.2	12,750.0	14,803.0	12,380.3	93.1	43.3	66.70	-10,778.7	-992.8	934.4	797.0	137.45	6.799 CC, ES		
23,400.0	12,750.0	14,767.1	12,379.0	93.5	42.8	66.61	-10,814.5	-992.1	934.7	797.0	137.64	6.791		
23,500.0	12,750.0	14,695.2	12,376.6	94.3	41.7	66.50	-10,886.4	-992.2	937.1	799.0	138.13	6.784		
23,600.0	12,750.0	14,620.3	12,375.0	95.2	40.6	66.51	-10,961.3	-995.5	942.8	804.2	138.60	6.803		
23,700.0	12,750.0	14,517.0	12,371.9	96.0	39.2	66.48	-11,064.3	-1,000.4	949.3	810.4	138.88	6.835		
23,800.0	12,750.0	14,417.7	12,371.8	96.9	37.8	66.64	-11,163.5	-1,006.3	955.6	816.3	139.33	6.859		
23,900.0	12,750.0	14,291.2	12,372.4	97.7	36.0	66.87	-11,289.8	-1,013.1	961.5	821.8	139.68	6.884		
24,000.0	12,750.0	14,185.8	12,375.6	98.6	34.6	67.14	-11,395.0	-1,016.7	964.4	824.1	140.23	6.877		
24,100.0	12,750.0	14,060.0	12,378.3	99.4	32.9	67.38	-11,520.8	-1,019.0	966.1	825.5	140.60	6.871		
24,200.0	12,750.0	13,962.0	12,380.3	100.3	31.6	67.52	-11,618.8	-1,019.4	966.7	825.4	141.24	6.844		
24,300.0	12,750.0	13,845.7	12,382.7	101.1	30.1	67.67	-11,735.0	-1,019.4	966.9	825.2	141.72	6.823		
24,400.0	12,750.0	13,729.5	12,383.9	102.0	28.7	67.69	-11,851.2	-1,015.8	964.5	822.3	142.14	6.786		
24,500.0	12,750.0	13,630.6	12,385.4	102.8	28.0	67.72	-11,950.0	-1,012.6	961.8	818.9	142.84	6.733		
24,600.0	12,750.0	13,529.3	12,387.3	103.7	27.9	67.78	-12,051.3	-1,009.5	959.1	815.5	143.56	6.681		
24,700.0	12,750.0	13,435.3	12,389.9	104.5	27.8	67.88	-12,145.2	-1,007.0	956.6	812.1	144.45	6.622		
24,800.0	12,750.0	13,335.6	12,393.1	105.4	27.7	68.04	-12,244.8	-1,005.1	954.5	809.2	145.33	6.568		
24,900.0	12,750.0	13,236.6	12,396.8	106.2	27.6	68.23	-12,343.8	-1,003.4	952.5	806.2	146.27	6.512		
25,000.0	12,750.0	13,153.1	12,398.1	107.1	27.6	68.29	-12,427.2	-1,002.0	951.3	803.9	147.34	6.456		
25,013.0	12,750.0	13,142.5	12,398.0	107.2	27.6	68.28	-12,437.9	-1,001.8	951.2	803.8	147.47	6.450		
25,100.0	12,750.0	13,067.0	12,396.4	107.9	21.8	68.19	-12,513.3	-1,000.8	951.6	803.4	148.24	6.419		
25,200.0	12,750.0	12,987.4	12,394.3	108.8	21.0	68.09	-12,592.9	-1,001.0	953.9	804.7	149.14	6.396		
25,300.0	12,750.0	12,901.0	12,392.2	109.6	20.3	68.05	-12,679.2	-1,003.4	958.2	808.2	150.03	6.387 SF		
25,400.0	12,750.0	12,828.0	12,388.5	110.4	19.7	67.92	-12,752.0	-1,006.1	964.4	813.6	150.84	6.394		
25,500.0	12,750.0	12,781.0	12,383.3	111.3	19.3	67.73	-12,798.6	-1,009.9	975.7	824.4	151.32	6.448		
25,600.0	12,750.0	12,734.0	12,375.6	112.1	19.0	67.43	-12,844.7	-1,014.6	991.7	840.3	151.38	6.551		

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 802H - Slot BOATER FED COM 802H
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 802H	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:	CAVE LION 5 FEDERAL (5H, 1H) - CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 FEDERAL BC 1H - CAVE LION 5 FEDERAL BC 1H	Offset Site Error:	3.3 usft
Survey Program:	204-r.5 MWD, 1147-r.5 MWD, 5500-r.5 MWD, 9288-r.5 MWD, 11182-r.5 MWD, 11655-r.5 MWD, 13134-r.5 MWD	Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:
Measured Vertical	Measured Vertical	Reference Offset	Offset Wellbore Centre
Depth	Depth	Highside	Distance
(usft)	(usft)	Toolface	Between
		(°)	Between
		+N/-S	Centres
		(usft)	Ellipses
		+E/-W	No-Go
		(usft)	Distance
		Between	Separation
		Centres	Factor
		Ellipses	Warning
		No-Go	
		Distance	
		(usft)	

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 802H - Slot BOATER FED COM 802H
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 802H	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: CAVE LION 5 FEDERAL (5H, 1H) - CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5 FEDERAL WC 5H - CAVE LION 5 FEDERAL WC 5H													Offset Site Error:	3.3 usft
Survey Program: 208-r.5 MWD, 1146-r.5 MWD+IFR1, 5486-r.5 MWD+IFR1, 11896-r.5 MWD+IFR1, 12433-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,400.0	12,750.0	13,566.0	12,582.2	102.0	22.5	79.36	-12,227.2	-1,013.5	994.0	862.1	131.95	7.533		
24,500.0	12,750.0	13,566.0	12,582.2	102.8	22.5	79.36	-12,227.2	-1,013.5	957.9	820.4	137.53	6.965		
24,600.0	12,750.0	13,566.0	12,582.2	103.7	22.5	79.36	-12,227.2	-1,013.5	931.2	788.8	142.35	6.542		
24,700.0	12,750.0	13,566.0	12,582.2	104.5	22.5	79.36	-12,227.2	-1,013.5	914.7	768.6	146.06	6.262		
24,800.0	12,750.0	13,566.0	12,582.2	105.4	22.5	79.36	-12,227.2	-1,013.5	908.9	760.5	148.38	6.126		
24,804.4	12,750.0	13,566.0	12,582.2	105.4	22.5	79.36	-12,227.2	-1,013.5	908.9	760.5	148.45	6.123		
24,900.0	12,750.0	13,494.1	12,581.7	106.2	22.4	79.35	-12,299.1	-1,014.7	911.3	761.8	149.49	6.096		
25,000.0	12,750.0	13,364.4	12,580.7	107.1	22.3	79.31	-12,428.8	-1,015.0	912.6	762.2	150.41	6.067		
25,039.5	12,750.0	13,328.9	12,581.0	107.4	22.3	79.33	-12,464.3	-1,014.6	912.5	761.7	150.85	6.049		
25,100.0	12,750.0	13,267.8	12,583.2	107.9	22.3	79.47	-12,525.3	-1,014.6	912.7	761.2	151.52	6.024		
25,200.0	12,750.0	13,138.2	12,581.2	108.8	22.2	79.31	-12,654.8	-1,009.4	909.7	757.4	152.30	5.973		
25,300.0	12,750.0	13,045.9	12,578.6	109.6	22.1	79.11	-12,746.9	-1,005.4	907.0	753.6	153.39	5.913		
25,400.0	12,750.0	12,927.8	12,569.1	110.4	22.0	78.46	-12,864.4	-999.2	904.6	750.4	154.12	5.869		
25,500.0	12,750.0	12,796.2	12,539.9	111.3	21.9	76.41	-12,991.3	-981.6	896.5	742.3	154.16	5.816		
25,600.0	12,750.0	12,697.5	12,500.7	112.1	21.8	73.68	-13,079.8	-962.8	888.6	734.3	154.32	5.758		
25,681.9	12,750.0	12,660.7	12,482.4	112.8	21.8	72.41	-13,110.9	-955.7	885.7	730.5	155.18	5.707 CC		
25,700.0	12,750.0	12,652.0	12,477.7	113.0	21.8	72.10	-13,118.1	-954.1	885.7	730.4	155.30	5.703 ES, SF		
25,799.9	12,750.0	12,601.0	12,449.5	113.8	21.7	70.22	-13,159.8	-946.3	890.1	734.6	155.44	5.726		
25,810.0	12,750.0	12,593.0	12,445.0	113.9	21.7	69.92	-13,166.3	-945.1	890.8	735.4	155.37	5.733		

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 802H - Slot BOATER FED COM 802H
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 802H	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: CAVE LION 5 FEDERAL (5H, 1H) - CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5 FEDERAL WC 5H ST01 - CAVE LION 5 FEDERAL WC 5H ST01													Offset Site Error:	3.3 usft
Survey Program: 208-r.5 MWD, 1146-r.5 MWD+IFR1, 5486-r.5 MWD+IFR1, 11896-r.5 MWD+IFR1, 12433-r.5 MWD+IFR1, 13303-r.5 MWD											Rule Assigned:		Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
22,600.0	12,750.0	15,379.0	12,575.9	86.7	29.2	78.62	-10,422.7	-1,002.9	967.8	851.1	116.66	8.296		
22,700.0	12,750.0	15,379.0	12,575.9	87.6	29.2	78.62	-10,422.7	-1,002.9	931.1	809.5	121.64	7.654		
22,800.0	12,750.0	15,379.0	12,575.9	88.4	29.2	78.62	-10,422.7	-1,002.9	904.1	778.1	125.99	7.176		
22,900.0	12,750.0	15,356.3	12,575.0	89.3	29.0	78.51	-10,445.1	-999.1	887.0	758.2	128.83	6.885		
23,000.0	12,750.0	15,284.0	12,573.4	90.1	28.4	78.31	-10,516.8	-990.3	876.1	746.0	130.09	6.734		
23,100.0	12,750.0	15,221.1	12,571.8	91.0	27.9	78.14	-10,579.4	-985.0	868.6	737.1	131.49	6.606		
23,200.0	12,750.0	15,136.9	12,567.5	91.8	27.3	77.78	-10,663.3	-978.5	863.2	730.7	132.43	6.518		
23,300.0	12,750.0	15,065.6	12,565.4	92.6	27.1	77.61	-10,734.5	-974.9	860.0	726.5	133.51	6.441		
23,325.4	12,750.0	15,050.4	12,565.2	92.9	27.0	77.59	-10,749.7	-974.6	859.8	726.0	133.79	6.427 CC, ES		
23,400.0	12,750.0	15,015.7	12,565.3	93.5	27.0	77.60	-10,784.4	-974.6	861.1	726.5	134.56	6.399		
23,500.0	12,750.0	14,881.8	12,567.2	94.3	26.8	77.76	-10,918.3	-975.5	861.9	726.6	135.31	6.370		
23,600.0	12,750.0	14,811.0	12,567.4	95.2	26.7	77.81	-10,989.0	-977.5	865.2	728.9	136.28	6.349		
23,700.0	12,750.0	14,751.5	12,567.6	96.0	26.6	77.89	-11,048.4	-981.6	872.4	735.3	137.12	6.362		
23,800.0	12,750.0	14,687.9	12,568.2	96.9	26.6	78.02	-11,111.6	-987.8	882.8	745.0	137.76	6.408		
23,900.0	12,750.0	14,623.0	12,568.2	97.7	26.5	78.16	-11,175.8	-997.7	898.3	760.1	138.24	6.498		
24,000.0	12,750.0	14,504.2	12,568.7	98.6	26.4	78.47	-11,292.8	-1,018.0	916.4	776.9	139.51	6.569		
24,100.0	12,750.0	14,320.7	12,570.3	99.4	26.2	78.80	-11,475.3	-1,035.5	926.8	785.8	141.06	6.570		
24,200.0	12,750.0	14,206.5	12,570.6	100.3	26.1	78.90	-11,589.3	-1,040.9	932.5	790.5	142.06	6.564		
24,300.0	12,750.0	14,100.5	12,572.6	101.1	26.0	79.05	-11,695.3	-1,042.4	934.4	791.3	143.06	6.531		
24,400.0	12,750.0	14,027.2	12,577.2	102.0	25.9	79.38	-11,768.4	-1,046.2	939.3	795.1	144.12	6.517		
24,500.0	12,750.0	13,917.2	12,583.4	102.8	25.8	79.84	-11,877.9	-1,053.2	945.6	800.3	145.26	6.509		
24,600.0	12,750.0	13,729.1	12,591.2	103.7	25.6	80.33	-12,065.8	-1,053.5	946.0	800.0	146.00	6.479		
24,700.0	12,750.0	13,595.1	12,591.7	104.5	25.5	80.27	-12,199.5	-1,043.4	939.4	792.8	146.60	6.407		
24,800.0	12,750.0	13,496.3	12,590.6	105.4	25.4	80.12	-12,297.8	-1,034.3	931.4	783.8	147.66	6.308		
24,900.0	12,750.0	13,397.7	12,589.0	106.2	25.3	79.93	-12,396.0	-1,025.2	923.7	774.9	148.72	6.211		
25,000.0	12,750.0	13,314.9	12,585.9	107.1	25.3	79.67	-12,478.4	-1,018.2	916.9	766.9	149.99	6.113		
25,100.0	12,750.0	13,242.0	12,583.9	107.9	22.3	79.51	-12,551.2	-1,014.2	912.9	761.6	151.33	6.033		
25,200.0	12,750.0	13,138.2	12,581.2	108.8	22.2	79.31	-12,654.8	-1,009.4	909.7	757.4	152.30	5.973		
25,300.0	12,750.0	13,045.9	12,578.6	109.6	22.1	79.11	-12,746.9	-1,005.4	907.0	753.6	153.39	5.913		
25,400.0	12,750.0	12,927.8	12,569.1	110.4	22.0	78.46	-12,864.4	-999.2	904.6	750.4	154.12	5.869		
25,500.0	12,750.0	12,796.2	12,539.9	111.3	21.9	76.41	-12,991.3	-981.6	896.5	742.3	154.16	5.816		
25,600.0	12,750.0	12,697.5	12,500.7	112.1	21.8	73.68	-13,079.8	-962.8	888.6	734.3	154.32	5.758		
25,681.9	12,750.0	12,660.7	12,482.4	112.8	21.8	72.41	-13,110.9	-955.7	885.7	730.5	155.18	5.707		
25,700.0	12,750.0	12,652.0	12,477.7	113.0	21.8	72.10	-13,118.1	-954.1	885.7	730.4	155.30	5.703 SF		
25,799.9	12,750.0	12,601.0	12,449.5	113.8	21.7	70.22	-13,159.8	-946.3	890.1	734.6	155.44	5.726		
25,810.0	12,750.0	12,593.0	12,445.0	113.9	21.7	69.92	-13,166.3	-945.1	890.8	735.4	155.37	5.733		

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 802H - Slot BOATER FED COM 802H
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 802H	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										Rule Assigned:			Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,700.0	11,683.5	19,662.4	12,294.5	15.8	59.3	86.45	65.9	464.1	934.8	843.8	90.94	10.279		
11,800.0	11,783.5	19,663.2	12,294.5	15.9	59.3	86.50	65.2	464.2	872.7	782.7	90.04	9.692		
11,900.0	11,883.5	19,663.9	12,294.5	16.0	59.3	86.56	64.5	464.2	818.2	729.1	89.04	9.189		
12,000.0	11,983.5	19,664.5	12,294.5	16.1	59.3	86.62	63.8	464.2	772.8	684.8	88.01	8.781		
12,100.0	12,083.5	19,665.2	12,294.5	16.2	59.3	86.67	63.1	464.3	738.3	651.2	87.08	8.478		
12,200.0	12,183.5	19,665.9	12,294.5	16.2	59.3	86.72	62.4	464.3	716.1	629.7	86.43	8.286		
12,289.0	12,272.5	19,666.5	12,294.5	16.3	59.3	86.77	61.9	464.3	707.8	621.6	86.22	8.210		
12,300.0	12,283.5	19,666.6	12,294.5	16.3	59.3	-92.67	61.7	464.4	707.6	621.3	86.22	8.207		
12,309.6	12,293.1	19,667.0	12,294.5	16.3	59.3	-92.65	61.3	464.4	707.5	621.3	86.22	8.205 CC, ES		
12,325.0	12,308.5	19,667.9	12,294.5	16.3	59.3	-92.56	60.4	464.4	707.7	621.4	86.25	8.205 SF		
12,350.0	12,333.4	19,670.4	12,294.5	16.3	59.3	-92.23	57.9	464.6	708.7	622.4	86.32	8.210		
12,375.0	12,358.1	19,674.1	12,294.6	16.3	59.4	-91.70	54.2	464.8	710.7	624.2	86.44	8.221		
12,400.0	12,382.5	19,678.9	12,294.6	16.3	59.4	-90.98	49.4	465.1	713.5	626.9	86.61	8.239		
12,425.0	12,406.7	19,684.9	12,294.6	16.3	59.4	-90.06	43.4	465.4	717.2	630.4	86.81	8.262		
12,450.0	12,430.5	19,692.0	12,294.6	16.2	59.5	-88.97	36.3	465.8	721.6	634.6	87.04	8.291		
12,475.0	12,453.9	19,700.2	12,294.7	16.2	59.5	-87.72	28.2	466.3	726.8	639.5	87.31	8.325		
12,500.0	12,476.7	19,709.5	12,294.7	16.2	59.6	-86.32	18.9	466.9	732.7	645.1	87.60	8.363		
12,525.0	12,499.0	19,719.8	12,294.7	16.2	59.7	-84.80	8.6	467.5	739.1	651.2	87.92	8.406		
12,550.0	12,520.7	19,731.1	12,294.8	16.2	59.8	-83.16	-2.6	468.2	746.0	657.7	88.26	8.452		
12,575.0	12,541.7	19,742.0	12,294.8	16.2	59.9	-81.53	-13.5	468.9	753.3	664.7	88.59	8.503		
12,600.0	12,562.0	19,757.0	12,294.8	16.2	60.0	-79.64	-28.5	469.9	761.0	672.0	88.97	8.553		
12,625.0	12,581.5	19,771.7	12,294.8	16.2	60.1	-77.79	-43.2	470.9	768.8	679.5	89.35	8.605		
12,650.0	12,600.1	19,787.3	12,294.8	16.2	60.2	-75.93	-58.7	471.9	776.9	687.2	89.73	8.658		
12,675.0	12,617.8	19,803.8	12,294.8	16.2	60.3	-74.08	-75.2	473.1	785.0	694.9	90.11	8.712		
12,700.0	12,634.6	19,821.2	12,294.8	16.2	60.5	-72.27	-92.5	474.4	793.1	702.6	90.48	8.765		
12,725.0	12,650.4	19,839.7	12,294.9	16.2	60.6	-70.51	-111.0	475.7	801.0	710.2	90.86	8.816		
12,750.0	12,665.2	19,860.9	12,295.0	16.2	60.8	-68.75	-132.1	477.3	808.8	717.6	91.25	8.864		
12,775.0	12,678.8	19,882.9	12,295.2	16.2	60.9	-67.11	-154.1	479.0	816.3	724.7	91.64	8.908		
12,800.0	12,691.4	19,904.9	12,295.4	16.3	61.1	-65.61	-176.1	480.7	823.4	731.4	92.00	8.950		
12,825.0	12,702.8	19,927.3	12,295.7	16.3	61.3	-64.25	-198.3	482.4	830.1	737.8	92.36	8.988		
12,850.0	12,713.1	19,950.1	12,295.9	16.3	61.4	-63.03	-221.1	484.1	836.4	743.7	92.70	9.022		
12,875.0	12,722.1	19,953.0	12,296.0	16.3	61.5	-62.31	-224.0	484.3	842.3	749.5	92.82	9.075		
12,900.0	12,729.9	19,953.0	12,296.0	16.3	61.5	-61.65	-224.0	484.3	848.4	755.6	92.84	9.139		
12,925.0	12,736.4	19,953.0	12,296.0	16.3	61.5	-60.98	-224.0	484.3	854.6	761.8	92.78	9.211		
12,950.0	12,741.7	19,953.0	12,296.0	16.4	61.5	-60.30	-224.0	484.3	860.8	768.2	92.65	9.291		
12,975.0	12,745.7	19,953.0	12,296.0	16.4	61.5	-59.63	-224.0	484.3	867.1	774.7	92.45	9.380		
13,000.0	12,748.4	19,953.0	12,296.0	16.4	61.5	-58.95	-224.0	484.3	873.5	781.3	92.17	9.476		
13,025.0	12,749.8	19,953.0	12,296.0	16.4	61.5	-58.28	-224.0	484.3	879.8	788.0	91.83	9.581		
13,039.0	12,750.0	19,953.0	12,296.0	16.4	61.5	-57.90	-224.0	484.3	883.4	791.8	91.60	9.644		
13,100.0	12,750.0	19,953.0	12,296.0	16.5	61.5	-57.90	-224.0	484.3	900.8	810.4	90.44	9.960		
13,200.0	12,750.0	19,953.0	12,296.0	16.7	61.5	-57.90	-224.0	484.3	937.3	849.2	88.05	10.645		
13,300.0	12,750.0	19,953.0	12,296.0	17.0	61.5	-57.90	-224.0	484.3	982.6	897.4	85.26	11.525		

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 802H - Slot BOATER FED COM 802H
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 802H	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,700.0	11,683.5	20,045.8	12,543.9	15.8	59.6	94.37	0.5	39.1	905.4	807.0	98.32	9.209		
11,800.0	11,783.5	20,043.2	12,543.9	15.9	59.5	93.83	3.2	39.0	810.9	712.8	98.14	8.263		
11,900.0	11,883.5	20,040.5	12,544.0	16.0	59.5	93.28	5.9	39.0	718.0	620.1	97.84	7.338		
12,000.0	11,983.5	20,038.0	12,544.1	16.1	59.5	92.77	8.4	39.0	627.2	529.9	97.35	6.443		
12,100.0	12,083.5	20,034.8	12,544.2	16.2	59.5	92.13	11.6	38.9	539.7	443.2	96.52	5.591		
12,200.0	12,183.5	20,031.7	12,544.3	16.2	59.4	91.49	14.7	38.9	457.3	362.1	95.18	4.805		
12,289.0	12,272.5	20,028.9	12,544.4	16.3	59.4	90.93	17.4	38.9	390.9	297.6	93.32	4.189		
12,300.0	12,283.5	20,028.7	12,544.4	16.3	59.4	-89.80	17.6	38.9	383.3	290.3	93.04	4.120		
12,325.0	12,308.5	20,029.2	12,544.4	16.3	59.4	-92.34	17.1	38.9	366.8	274.4	92.36	3.971		
12,350.0	12,333.4	20,031.1	12,544.3	16.3	59.4	-94.34	15.3	38.9	351.3	259.6	91.63	3.833		
12,375.0	12,358.1	20,034.3	12,544.2	16.3	59.5	-95.78	12.1	38.9	337.0	246.1	90.88	3.708		
12,400.0	12,382.5	20,038.7	12,544.1	16.3	59.5	-96.72	7.7	39.0	324.0	233.9	90.11	3.596		
12,425.0	12,406.7	20,044.2	12,543.9	16.3	59.5	-97.17	2.2	39.1	312.6	223.3	89.34	3.499		
12,450.0	12,430.5	20,051.0	12,543.7	16.2	59.6	-97.12	-4.6	39.1	302.8	214.2	88.63	3.417		
12,475.0	12,453.9	20,059.1	12,543.5	16.2	59.7	-96.60	-12.7	39.2	294.8	206.8	88.01	3.350		
12,500.0	12,476.7	20,068.3	12,543.2	16.2	59.7	-95.63	-22.0	39.4	288.7	201.2	87.52	3.298		
12,525.0	12,499.0	20,078.9	12,543.0	16.2	59.8	-94.23	-32.5	39.5	284.4	197.2	87.20	3.261		
12,550.0	12,520.7	20,090.6	12,542.7	16.2	59.9	-92.43	-44.2	39.7	281.9	194.8	87.07	3.237		
12,574.8	12,541.5	20,103.4	12,542.4	16.2	60.0	-90.31	-57.0	39.8	281.1	193.9	87.14	3.225 CC		
12,575.0	12,541.7	20,103.5	12,542.4	16.2	60.0	-90.29	-57.1	39.8	281.1	193.9	87.14	3.225 ES		
12,600.0	12,562.0	20,117.5	12,542.1	16.2	60.1	-87.84	-71.1	40.1	281.8	194.4	87.39	3.225 SF		
12,625.0	12,581.5	20,132.7	12,541.8	16.2	60.2	-85.14	-86.3	40.3	284.0	196.2	87.81	3.234		
12,650.0	12,600.1	20,148.9	12,541.4	16.2	60.3	-82.27	-102.5	40.5	287.4	199.0	88.35	3.253		
12,675.0	12,617.8	20,166.1	12,541.1	16.2	60.5	-79.29	-119.6	40.8	291.7	202.7	88.98	3.278		
12,700.0	12,634.6	20,184.1	12,540.6	16.2	60.6	-76.27	-137.6	41.1	296.8	207.1	89.67	3.310		
12,725.0	12,650.4	20,202.9	12,540.2	16.2	60.7	-73.28	-156.4	41.4	302.4	212.0	90.38	3.346		
12,750.0	12,665.2	20,222.6	12,539.6	16.2	60.9	-70.37	-176.1	41.7	308.4	217.3	91.10	3.385		
12,775.0	12,678.8	20,243.2	12,539.1	16.2	61.0	-67.60	-196.7	42.0	314.6	222.8	91.81	3.426		
12,800.0	12,691.4	20,264.4	12,538.5	16.3	61.2	-65.00	-217.9	42.3	320.7	228.2	92.49	3.468		
12,825.0	12,702.8	20,274.0	12,538.3	16.3	61.3	-63.53	-227.5	42.5	327.0	233.9	93.02	3.515		
12,850.0	12,713.1	20,274.0	12,538.3	16.3	61.3	-62.72	-227.5	42.5	334.3	241.1	93.16	3.588		
12,875.0	12,722.1	20,274.0	12,538.3	16.3	61.3	-61.77	-227.5	42.5	342.7	249.8	92.93	3.687		
12,900.0	12,729.9	20,274.0	12,538.3	16.3	61.3	-60.70	-227.5	42.5	352.1	259.8	92.36	3.812		
12,925.0	12,736.4	20,274.0	12,538.3	16.3	61.3	-59.52	-227.5	42.5	362.4	271.0	91.47	3.962		
12,950.0	12,741.7	20,274.0	12,538.3	16.4	61.3	-58.24	-227.5	42.5	373.6	283.3	90.31	4.137		
12,975.0	12,745.7	20,274.0	12,538.3	16.4	61.3	-56.87	-227.5	42.5	385.4	296.5	88.91	4.335		
13,000.0	12,748.4	20,274.0	12,538.3	16.4	61.3	-55.44	-227.5	42.5	397.9	310.6	87.30	4.558		
13,025.0	12,749.8	20,274.0	12,538.3	16.4	61.3	-53.95	-227.5	42.5	410.9	325.3	85.53	4.804		
13,039.0	12,750.0	20,274.0	12,538.3	16.4	61.3	-53.10	-227.5	42.5	418.3	333.8	84.48	4.952		
13,100.0	12,750.0	20,274.0	12,538.3	16.5	61.3	-53.10	-227.5	42.5	454.1	374.3	79.79	5.691		
13,200.0	12,750.0	20,274.0	12,538.3	16.7	61.3	-53.10	-227.5	42.5	522.9	450.3	72.62	7.201		
13,300.0	12,750.0	20,274.0	12,538.3	17.0	61.3	-53.10	-227.5	42.5	600.6	533.9	66.65	9.011		
13,400.0	12,750.0	20,274.0	12,538.3	17.3	61.3	-53.10	-227.5	42.5	684.0	622.1	61.90	11.051		
13,500.0	12,750.0	20,274.0	12,538.3	17.6	61.3	-53.10	-227.5	42.5	771.4	713.3	58.18	13.259		
13,600.0	12,750.0	20,274.0	12,538.3	17.9	61.3	-53.10	-227.5	42.5	861.6	806.3	55.27	15.589		
13,700.0	12,750.0	20,274.0	12,538.3	18.3	61.3	-53.10	-227.5	42.5	953.7	900.8	52.97	18.005		

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #705H - OWB - AWP														Offset Site Error:	3.0 usft	
Survey Program: 100-Standard Keeper 104, 12078-r.5 MWD+IFR1+MS														Offset Well Error:		3.0 usft
Reference: 100-Standard Keeper 104, 12078-r.5 MWD+IFR1+MS																
Offset																
Semi Major Axis																
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	11,783.5	19,905.8	12,588.2	15.9	58.0	-99.04	-64.8	-787.3	975.9	881.9	93.95	10.387				
11,900.0	11,883.5	19,905.0	12,588.2	16.0	58.0	-98.96	-64.0	-787.4	895.2	802.0	93.22	9.603				
12,000.0	11,983.5	19,904.1	12,588.2	16.1	58.0	-98.86	-63.1	-787.5	818.8	726.6	92.25	8.876				
12,100.0	12,083.5	19,903.2	12,588.2	16.2	58.0	-98.77	-62.2	-787.7	748.0	657.0	91.00	8.220				
12,200.0	12,183.5	19,902.2	12,588.2	16.2	58.0	-98.67	-61.3	-787.8	684.5	595.1	89.43	7.654				
12,289.0	12,272.5	19,901.4	12,588.2	16.3	58.0	-98.58	-60.4	-787.9	636.0	548.2	87.81	7.243				
12,300.0	12,283.5	19,901.4	12,588.2	16.3	58.0	82.72	-60.4	-787.9	630.6	543.0	87.60	7.199				
12,325.0	12,308.5	19,902.6	12,588.2	16.3	58.0	84.20	-61.6	-787.7	618.8	531.6	87.12	7.102				
12,350.0	12,333.4	19,905.4	12,588.2	16.3	58.0	85.40	-64.4	-787.3	607.6	520.9	86.66	7.011				
12,375.0	12,358.1	19,909.7	12,588.2	16.3	58.1	86.33	-68.6	-786.7	597.2	511.0	86.21	6.927				
12,400.0	12,382.5	19,915.6	12,588.1	16.3	58.1	86.98	-74.5	-785.8	587.5	501.7	85.79	6.848				
12,425.0	12,406.7	19,923.1	12,588.1	16.3	58.2	87.36	-81.9	-784.7	578.6	493.2	85.40	6.775				
12,450.0	12,430.5	19,932.1	12,588.0	16.2	58.2	87.48	-90.8	-783.3	570.5	485.5	85.05	6.708				
12,475.0	12,453.9	19,942.7	12,588.0	16.2	58.3	87.35	-101.3	-781.6	563.2	478.5	84.74	6.647				
12,500.0	12,476.7	19,953.1	12,588.0	16.2	58.4	87.16	-111.5	-780.0	556.8	472.3	84.50	6.589				
12,525.0	12,499.0	19,964.8	12,587.9	16.2	58.5	86.75	-123.1	-778.1	551.0	466.7	84.31	6.536				
12,550.0	12,520.7	19,977.8	12,587.9	16.2	58.6	86.16	-135.9	-776.0	546.1	461.9	84.18	6.487				
12,575.0	12,541.7	19,991.9	12,587.8	16.2	58.7	85.41	-149.8	-773.7	541.8	457.7	84.11	6.442				
12,600.0	12,562.0	20,007.0	12,587.7	16.2	58.8	84.52	-164.7	-771.2	538.2	454.1	84.10	6.400				
12,625.0	12,581.5	20,022.8	12,587.6	16.2	58.9	83.55	-180.3	-768.6	535.2	451.0	84.16	6.359				
12,650.0	12,600.1	20,039.1	12,587.5	16.2	59.0	82.52	-196.4	-765.9	532.7	448.4	84.29	6.320				
12,675.0	12,617.8	20,056.4	12,587.4	16.2	59.1	81.42	-213.4	-763.0	530.7	446.2	84.47	6.282				
12,700.0	12,634.6	20,073.0	12,587.3	16.2	59.3	80.38	-229.8	-760.3	529.0	444.3	84.73	6.244				
12,725.0	12,650.4	20,073.0	12,587.3	16.2	59.3	80.49	-229.8	-760.3	528.1	442.8	85.30	6.191				
12,736.9	12,657.6	20,073.0	12,587.3	16.2	59.3	80.51	-229.8	-760.3	528.0	442.4	85.56	6.171 CC				
12,750.0	12,665.2	20,073.0	12,587.3	16.2	59.3	80.49	-229.8	-760.3	528.1	442.3	85.84	6.152 ES				
12,775.0	12,678.8	20,073.0	12,587.3	16.2	59.3	80.37	-229.8	-760.3	529.1	442.8	86.31	6.130				
12,800.0	12,691.4	20,073.0	12,587.3	16.3	59.3	80.14	-229.8	-760.3	531.1	444.4	86.70	6.125 SF				
12,825.0	12,702.8	20,073.0	12,587.3	16.3	59.3	79.80	-229.8	-760.3	533.9	447.0	86.99	6.138				
12,850.0	12,713.1	20,073.0	12,587.3	16.3	59.3	79.34	-229.8	-760.3	537.8	450.6	87.16	6.170				
12,875.0	12,722.1	20,073.0	12,587.3	16.3	59.3	78.78	-229.8	-760.3	542.5	455.3	87.20	6.221				
12,900.0	12,729.9	20,073.0	12,587.3	16.3	59.3	78.11	-229.8	-760.3	548.0	460.9	87.11	6.291				
12,925.0	12,736.4	20,073.0	12,587.3	16.3	59.3	77.34	-229.8	-760.3	554.4	467.5	86.88	6.381				
12,950.0	12,741.7	20,073.0	12,587.3	16.4	59.3	76.47	-229.8	-760.3	561.5	475.0	86.51	6.490				
12,975.0	12,745.7	20,073.0	12,587.3	16.4	59.3	75.51	-229.8	-760.3	569.4	483.3	86.02	6.619				
13,000.0	12,748.4	20,073.0	12,587.3	16.4	59.3	74.45	-229.8	-760.3	577.9	492.5	85.39	6.767				
13,025.0	12,749.8	20,073.0	12,587.3	16.4	59.3	73.32	-229.8	-760.3	587.0	502.4	84.65	6.934				
13,039.0	12,750.0	20,073.0	12,587.3	16.4	59.3	72.66	-229.8	-760.3	592.4	508.2	84.19	7.036				
13,100.0	12,750.0	20,073.0	12,587.3	16.5	59.3	72.66	-229.8	-760.3	618.7	536.8	81.94	7.551				
13,200.0	12,750.0	20,073.0	12,587.3	16.7	59.3	72.66	-229.8	-760.3	671.7	593.9	77.80	8.634				
13,300.0	12,750.0	20,073.0	12,587.3	17.0	59.3	72.66	-229.8	-760.3	734.6	661.0	73.60	9.981				
13,400.0	12,750.0	20,073.0	12,587.3	17.3	59.3	72.66	-229.8	-760.3	804.9	735.3	69.67	11.553				
13,500.0	12,750.0	20,073.0	12,587.3	17.6	59.3	72.66	-229.8	-760.3	881.1	814.9	66.17	13.315				
13,600.0	12,750.0	20,073.0	12,587.3	17.9	59.3	72.66	-229.8	-760.3	961.6	898.5	63.13	15.233				

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 802H - Slot BOATER FED COM 802H
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 802H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: GREEN BERET FEDERAL PROJECT (BULLDOG 2535) - GREEN BERET FED COM #802H - OWB - AWP														Offset Site Error:	3.0 usft		
Survey Program: 100-Standard Keeper 104, 12188-r.5 MWD+IFR1+MS														Offset Well Error:	3.0 usft		
Reference: 100-Standard Keeper 104, 12188-r.5 MWD+IFR1+MS														Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning				
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
11,800.0	11,783.5	20,271.8	12,731.4	15.9	59.5	-100.34	-7.2	-402.0	961.8	862.2	99.56	9.660					
11,900.0	11,883.5	20,268.9	12,731.5	16.0	59.5	-99.34	-4.3	-402.1	863.4	763.7	99.64	8.665					
12,000.0	11,983.5	20,266.1	12,731.6	16.1	59.5	-98.37	-1.6	-402.2	765.4	665.7	99.68	7.678					
12,100.0	12,083.5	20,263.5	12,731.6	16.2	59.4	-97.43	1.1	-402.3	668.0	568.3	99.67	6.702					
12,200.0	12,183.5	20,260.9	12,731.7	16.2	59.4	-96.52	3.7	-402.4	571.4	471.9	99.57	5.739					
12,289.0	12,272.5	20,258.6	12,731.7	16.3	59.4	-95.73	5.9	-402.4	486.7	387.4	99.34	4.900					
12,300.0	12,283.5	20,258.5	12,731.7	16.3	59.4	88.61	6.0	-402.4	476.3	377.0	99.29	4.797					
12,325.0	12,308.5	20,259.2	12,731.7	16.3	59.4	96.48	5.3	-402.4	452.9	353.7	99.19	4.566					
12,350.0	12,333.4	20,261.2	12,731.7	16.3	59.4	103.21	3.3	-402.3	429.7	330.6	99.07	4.337					
12,375.0	12,358.1	20,264.6	12,731.6	16.3	59.5	108.72	-0.1	-402.2	406.7	307.8	98.94	4.111					
12,400.0	12,382.5	20,269.3	12,731.5	16.3	59.5	113.10	-4.8	-402.1	384.2	285.5	98.78	3.890					
12,425.0	12,406.7	20,275.3	12,731.3	16.3	59.5	116.47	-10.8	-401.9	362.2	263.6	98.59	3.674					
12,450.0	12,430.5	20,282.6	12,731.1	16.2	59.6	118.97	-18.0	-401.7	340.8	242.4	98.36	3.465					
12,475.0	12,453.9	20,291.1	12,730.9	16.2	59.7	120.71	-26.5	-401.4	320.1	222.0	98.08	3.263					
12,500.0	12,476.7	20,300.7	12,730.6	16.2	59.7	121.78	-36.1	-401.1	300.1	202.4	97.74	3.071					
12,525.0	12,499.0	20,311.5	12,730.3	16.2	59.8	122.28	-47.0	-400.8	281.1	183.8	97.33	2.888	Normal Operations				
12,550.0	12,520.7	20,323.7	12,729.9	16.2	59.9	122.20	-59.1	-400.5	263.1	166.2	96.84	2.717	Normal Operations				
12,575.0	12,541.7	20,337.0	12,729.4	16.2	60.0	121.60	-72.4	-400.1	246.2	149.9	96.27	2.557	Normal Operations				
12,600.0	12,562.0	20,351.3	12,728.9	16.2	60.1	120.55	-86.7	-399.7	230.5	135.0	95.59	2.412	Caution - Monitor Closely				
12,625.0	12,581.5	20,366.6	12,728.2	16.2	60.2	119.06	-102.0	-399.4	216.2	121.4	94.82	2.280	Caution - Monitor Closely				
12,650.0	12,600.1	20,382.8	12,727.4	16.2	60.3	117.16	-118.1	-399.0	203.4	109.4	93.96	2.164	Caution - Monitor Closely				
12,675.0	12,617.8	20,399.8	12,726.5	16.2	60.5	114.85	-135.1	-398.6	192.1	99.0	93.04	2.064	Caution - Monitor Closely				
12,700.0	12,634.6	20,417.6	12,725.5	16.2	60.6	112.17	-152.9	-398.2	182.4	90.3	92.10	1.980	Caution - Monitor Closely				
12,725.0	12,650.4	20,436.2	12,724.5	16.2	60.7	109.17	-171.4	-397.8	174.3	83.1	91.20	1.912	Caution - Monitor Closely				
12,750.0	12,665.2	20,455.4	12,723.3	16.2	60.9	105.89	-190.6	-397.4	168.0	77.6	90.40	1.858	Caution - Monitor Closely				
12,775.0	12,678.8	20,475.5	12,722.1	16.2	61.0	102.39	-210.7	-397.0	163.2	73.4	89.78	1.817	Caution - Monitor Closely				
12,800.0	12,691.4	20,493.0	12,721.1	16.3	61.2	99.38	-228.1	-396.6	159.8	70.5	89.35	1.789	Caution - Monitor Closely, SF				
12,813.7	12,697.8	20,493.0	12,721.1	16.3	61.2	99.45	-228.1	-396.6	159.2	70.3	88.90	1.791	Caution - Monitor Closely, CC, ES				
12,825.0	12,702.8	20,493.0	12,721.1	16.3	61.2	99.40	-228.1	-396.6	159.6	71.4	88.28	1.808	Caution - Monitor Closely				
12,850.0	12,713.1	20,493.0	12,721.1	16.3	61.2	98.93	-228.1	-396.6	163.5	77.3	86.18	1.898	Caution - Monitor Closely				
12,875.0	12,722.1	20,493.0	12,721.1	16.3	61.2	97.97	-228.1	-396.6	171.2	88.0	83.23	2.057	Caution - Monitor Closely				
12,900.0	12,729.9	20,493.0	12,721.1	16.3	61.2	96.52	-228.1	-396.6	182.2	102.4	79.80	2.283	Caution - Monitor Closely				
12,925.0	12,736.4	20,493.0	12,721.1	16.3	61.2	94.56	-228.1	-396.6	195.9	119.6	76.21	2.570	Normal Operations				
12,950.0	12,741.7	20,493.0	12,721.1	16.4	61.2	92.10	-228.1	-396.6	211.7	139.0	72.69	2.912	Normal Operations				
12,975.0	12,745.7	20,493.0	12,721.1	16.4	61.2	89.15	-228.1	-396.6	229.2	159.8	69.37	3.304					
13,000.0	12,748.4	20,493.0	12,721.1	16.4	61.2	85.74	-228.1	-396.6	248.0	181.7	66.30	3.740					
13,025.0	12,749.8	20,493.0	12,721.1	16.4	61.2	81.89	-228.1	-396.6	267.7	204.2	63.50	4.216					
13,039.0	12,750.0	20,493.0	12,721.1	16.4	61.2	79.58	-228.1	-396.6	279.1	217.0	62.05	4.498					
13,100.0	12,750.0	20,493.0	12,721.1	16.5	61.2	79.58	-228.1	-396.6	331.0	274.2	56.83	5.824					
13,200.0	12,750.0	20,493.0	12,721.1	16.7	61.2	79.58	-228.1	-396.6	421.4	370.0	51.33	8.209					
13,300.0	12,750.0	20,493.0	12,721.1	17.0	61.2	79.58	-228.1	-396.6	515.3	467.2	48.07	10.720					
13,400.0	12,750.0	20,493.0	12,721.1	17.3	61.2	79.58	-228.1	-396.6	611.2	565.1	46.03	13.279					
13,500.0	12,750.0	20,493.0	12,721.1	17.6	61.2	79.58	-228.1	-396.6	708.2	663.5	44.68	15.850					
13,600.0	12,750.0	20,493.0	12,721.1	17.9	61.2	79.58	-228.1	-396.6	805.9	762.1	43.75	18.419					
13,700.0	12,750.0	20,493.0	12,721.1	18.3	61.2	79.58	-228.1	-396.6	904.1	861.0	43.10	20.979					

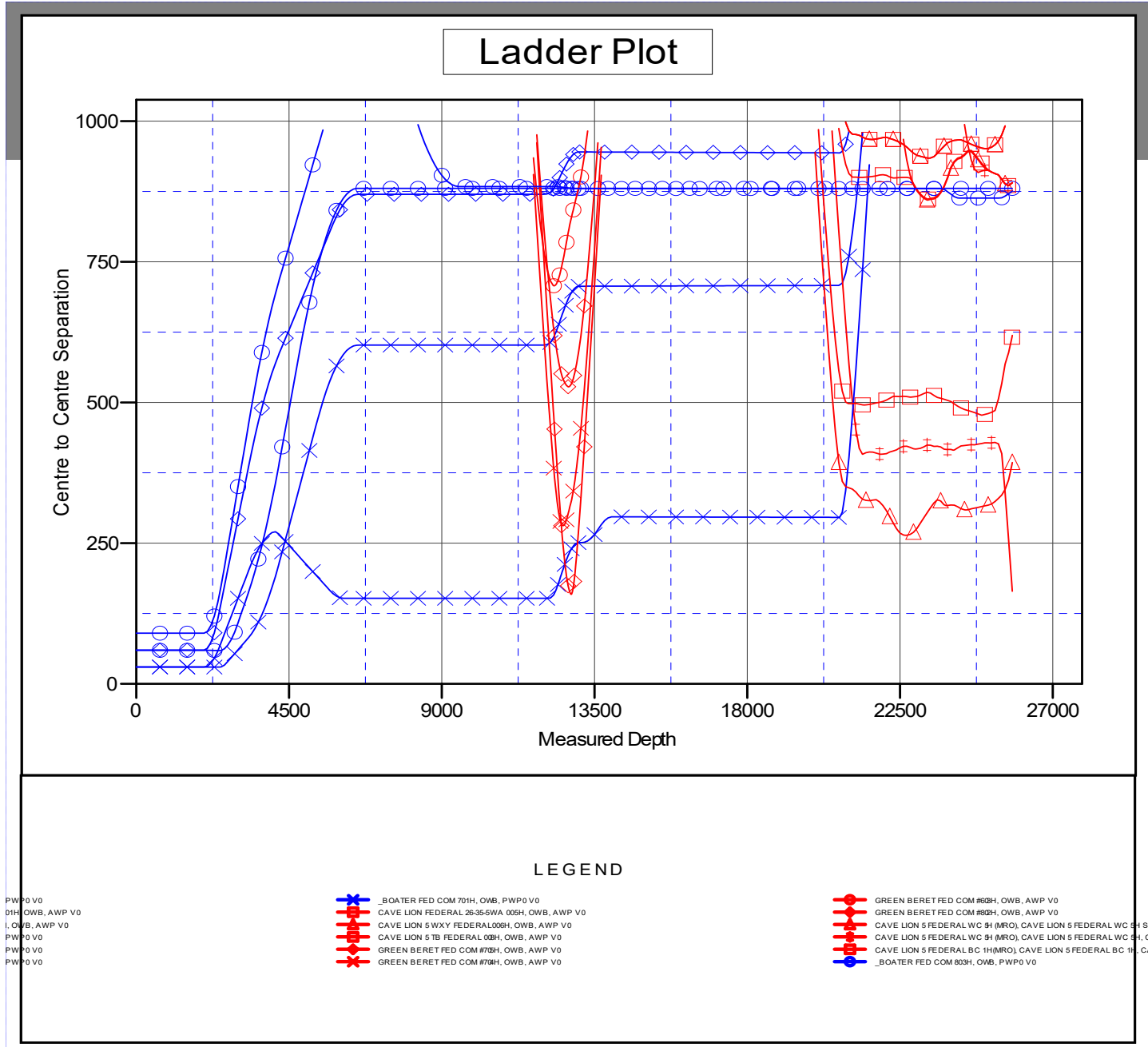
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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 802H - Slot BOATER FED COM
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.50°



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

ConocoPhillips

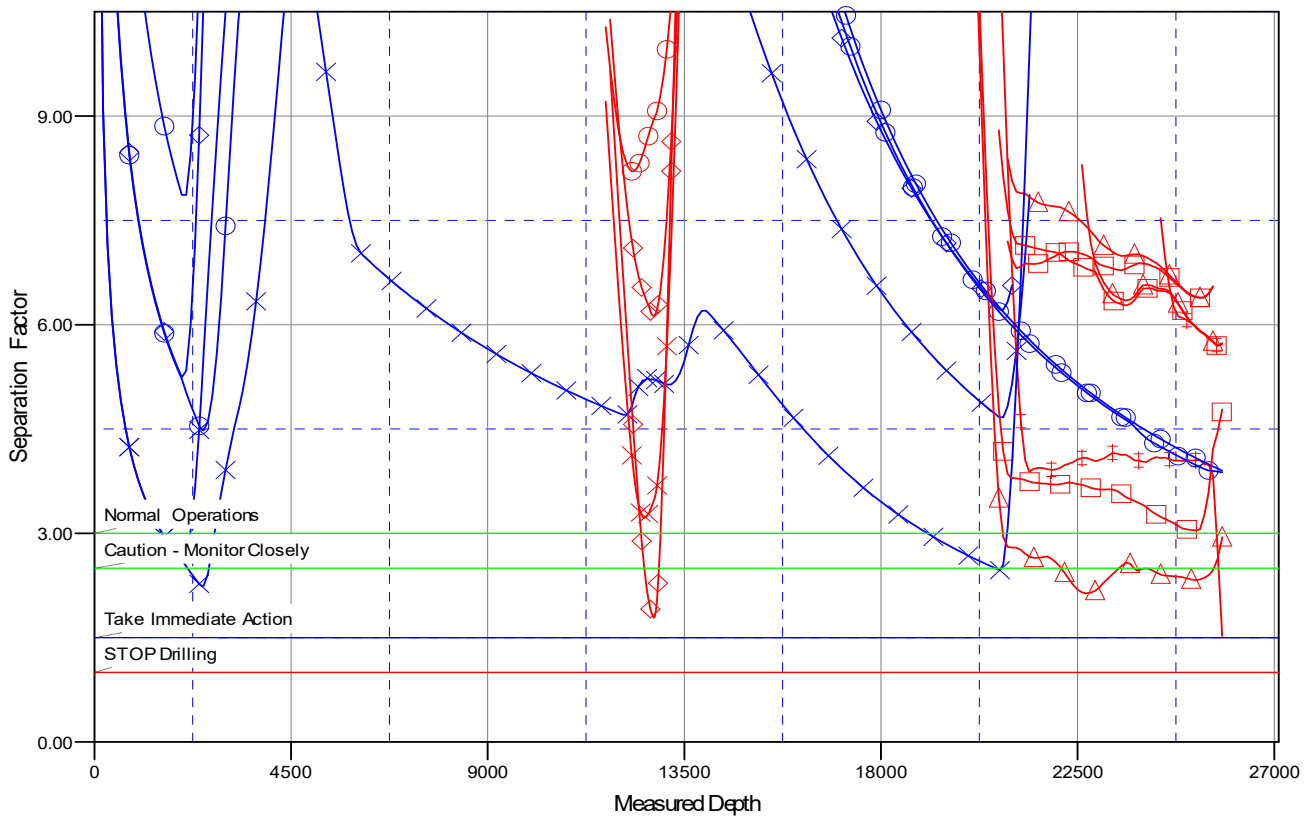
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _BOATER FED COM 802H - Slot BOATER FED COM 802H
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 802H	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 802H - 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

- | | | |
|--|--|---|
| <p>PWP0 V0</p> <p>01H OWB, AWP V0</p> <p>I, OWB, AWP V0</p> <p>PWP0 V0</p> <p>PWP0 V0</p> <p>PWP0 V0</p> | <p>✕ _BOATER FED COM 701H, OWB, PWP0 V0</p> <p>□ CAVE LION FEDERAL 26-35-5WA 009H, OWB, AWP V0</p> <p>△ CAVE LION 5 WXY FEDERAL 006H, OWB, AWP V0</p> <p>◇ CAVE LION 5 TB FEDERAL 008H, OWB, AWP V0</p> <p>◇ GREEN BERET FED COM #705H, OWB, AWP V0</p> <p>✕ GREEN BERET FED COM #706H, OWB, AWP V0</p> | <p>○ GREEN BERET FED COM #608H, OWB, AWP V0</p> <p>○ GREEN BERET FED COM #802H, OWB, AWP V0</p> <p>△ CAVE LION 5 FEDERAL WC 3H (MRO), CAVE LION 5 FEDERAL WC 3H (S)</p> <p>△ CAVE LION 5 FEDERAL WC 3H (MRO), CAVE LION 5 FEDERAL WC 3H (C)</p> <p>△ CAVE LION 5 FEDERAL BC 1H(MRO), CAVE LION 5 FEDERAL BC 1H, CA</p> <p>○ _BOATER FED COM 803H, OWB, PWP0 V0</p> |
|--|--|---|

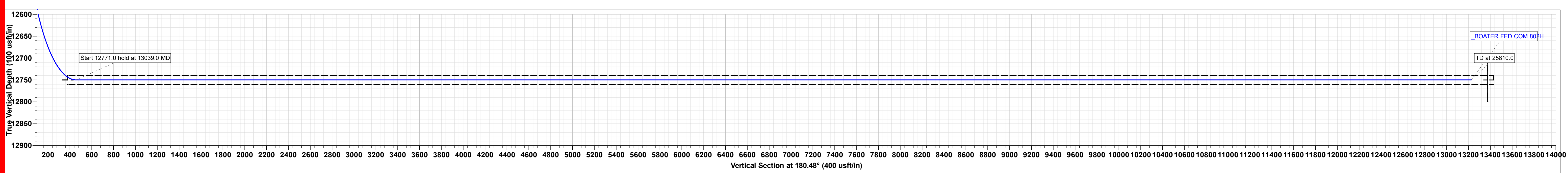
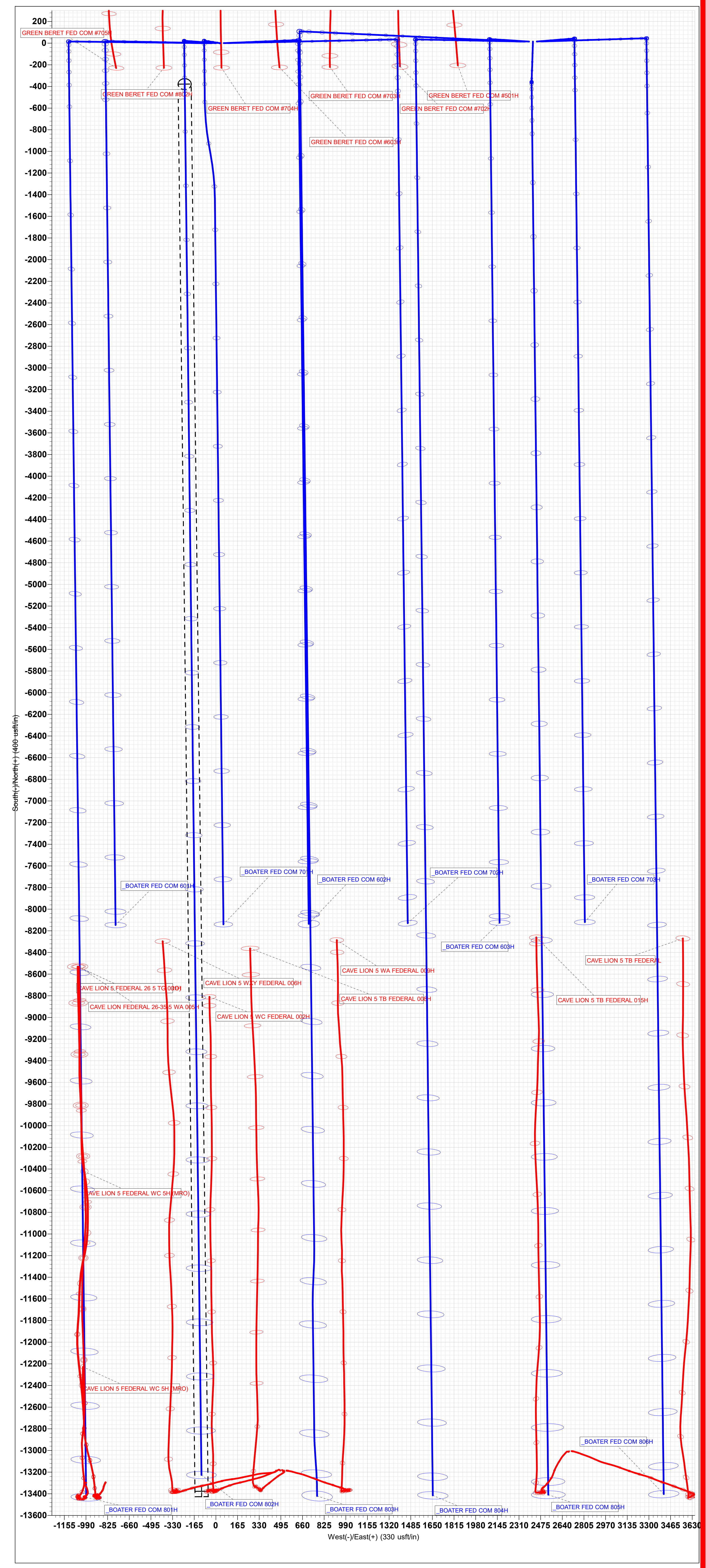
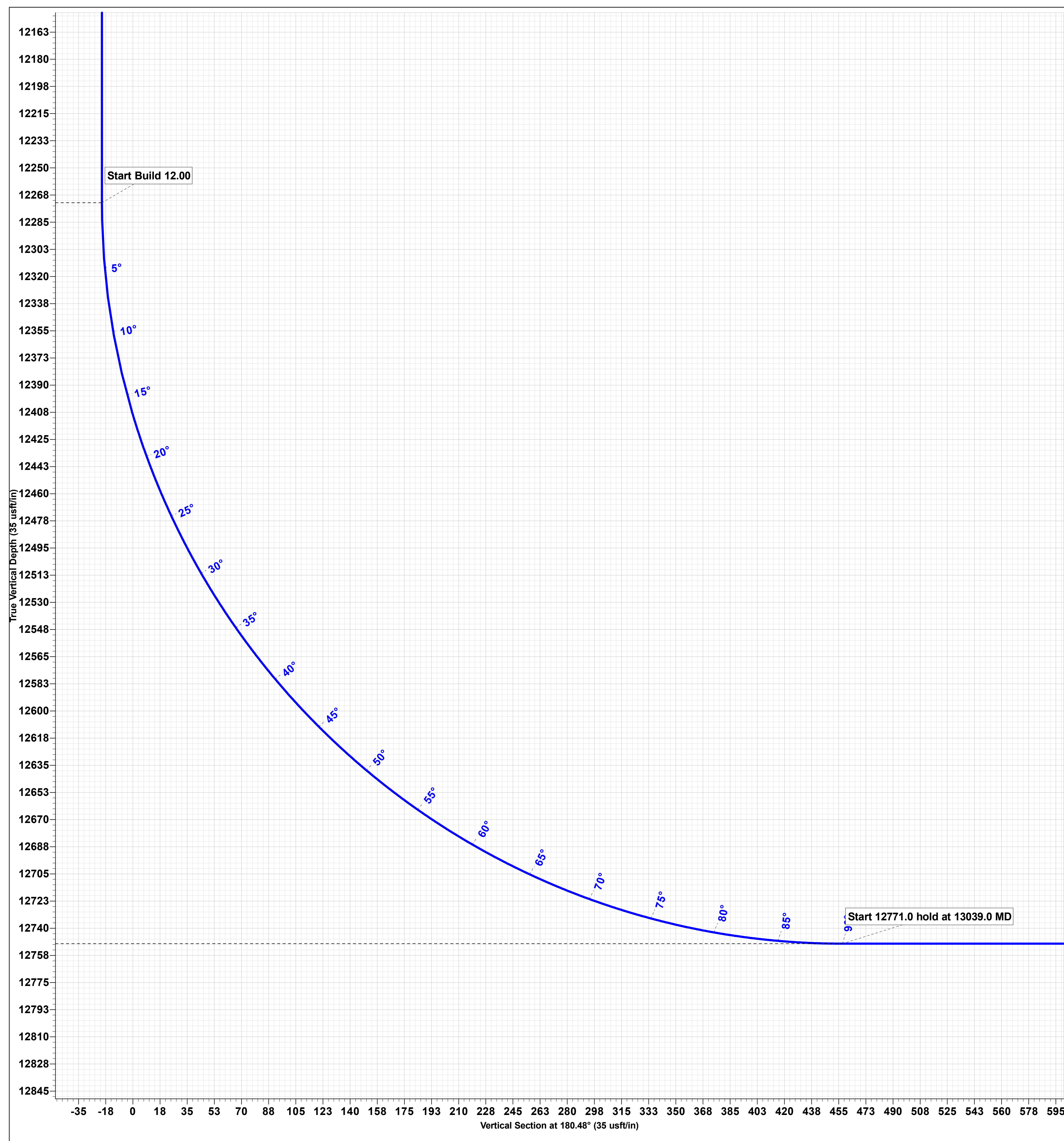
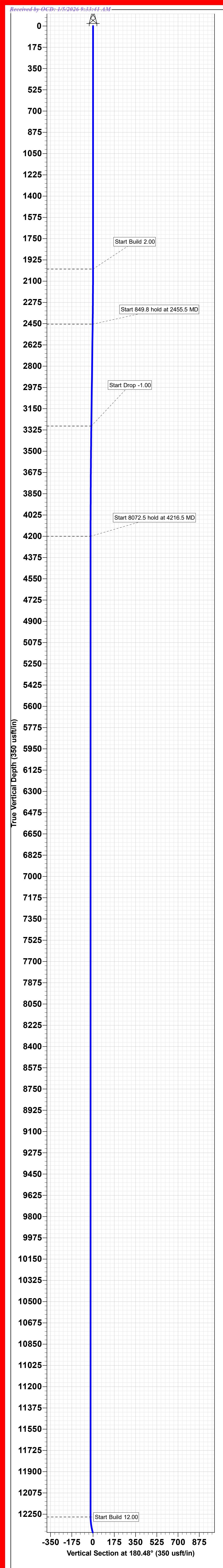
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Project: LEA COUNTY SOUTHEAST
Site: BOATER FED COM PROJECT
Well: BOATER FED COM 802H
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
2455.5	9.11	275.19	2453.6	3.3	-36.0	2.00	275.19	-3.0
3305.4	9.11	275.19	3292.7	15.5	-170.0	0.00	0.00	-14.0
4216.5	0.00	0.00	4200.0	22.0	-242.0	1.00	180.00	-20.0
12289.0	0.00	0.00	12272.5	22.0	-242.0	0.00	0.00	-20.0
13039.0	90.00	179.43	12750.0	-455.4	-237.3	12.00	179.43	457.4
25810.0	90.00	179.43	12750.0	-13225.8	-110.2	0.00	0.00	13226.3



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 07/14/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

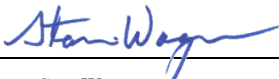
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

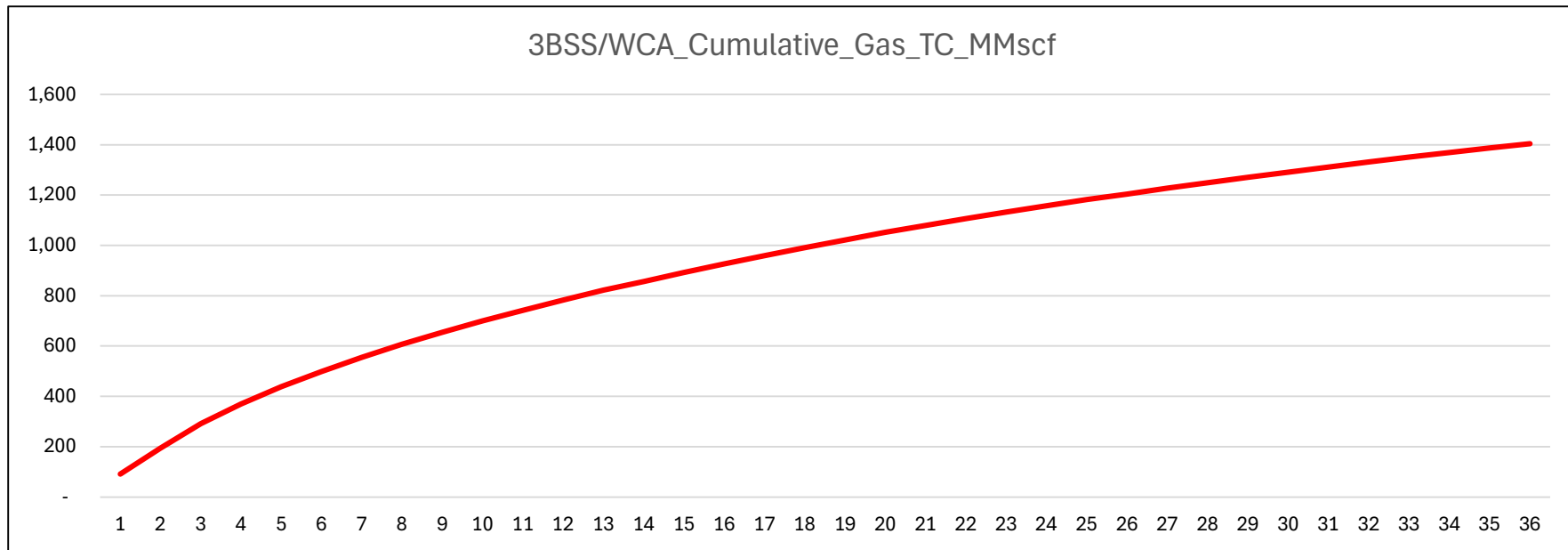
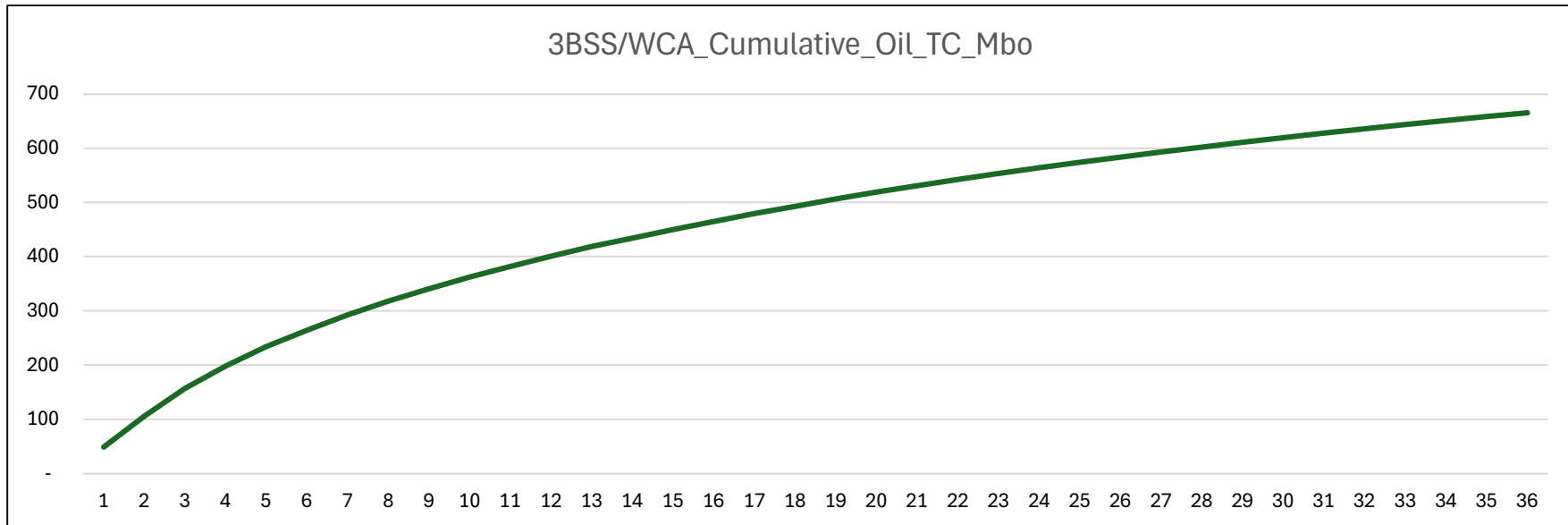
F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

Anticipated Production Decline Curve



Waste Minimization Plan

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

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

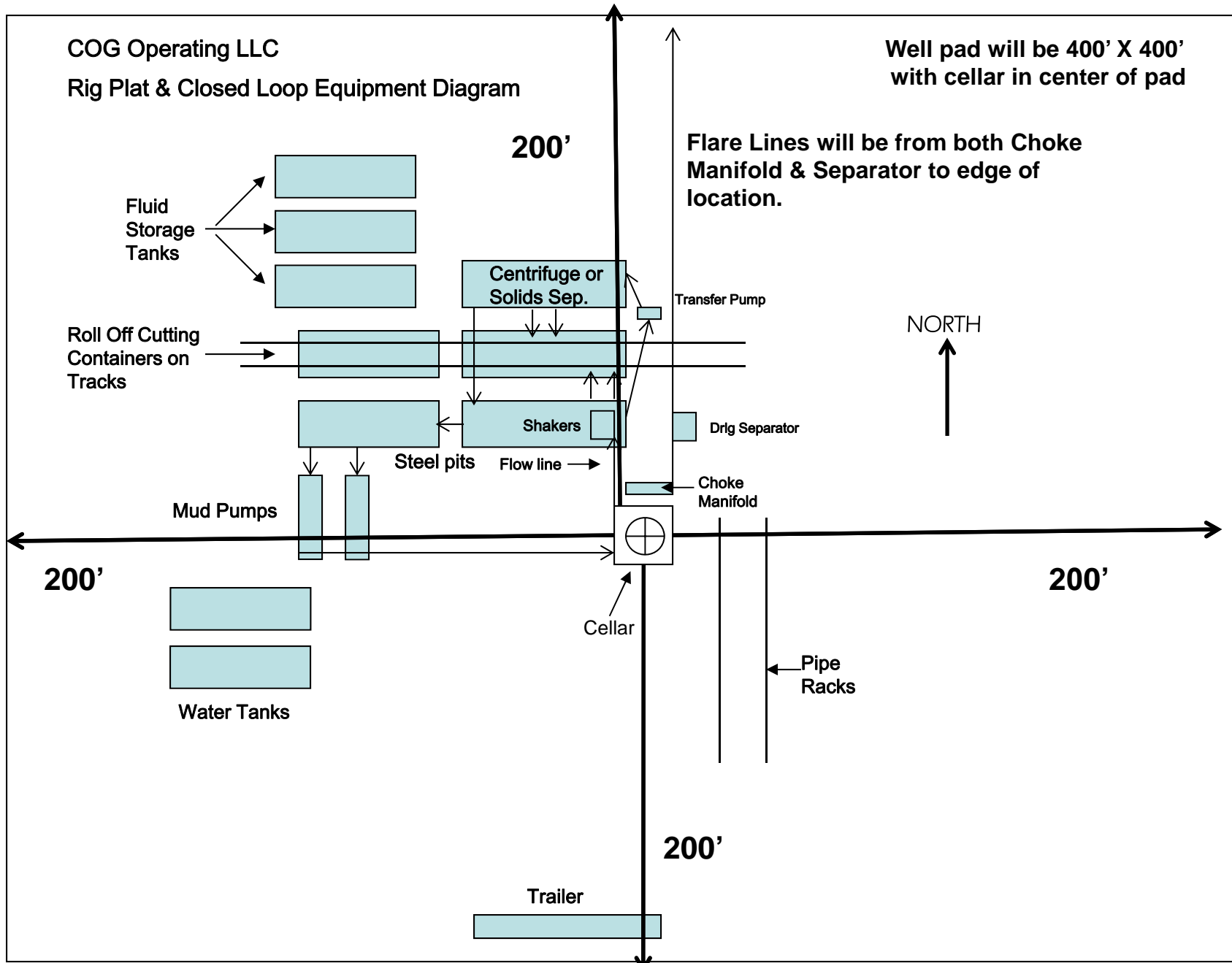


Exhibit 1

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 802H
LOCATION:	Section 29, T.25 S., R.35 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

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

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

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

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

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

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

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

Contingency Squeeze:

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

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

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

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

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

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

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

BOPE Break Testing Variance

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

Casing Clearance:

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

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

Offline Cementing:

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

GENERAL REQUIREMENTS

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

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

Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

Lea County

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

(575) 689-5981

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

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

A. CASING

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

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

B. PRESSURE CONTROL

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

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 10/9/2025

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

General Information
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 539907

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539907
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

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

Action 539907

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539907
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/5/2026
jeffrey.harrison	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	3/12/2026
jeffrey.harrison	NSP required if not included in an existing order or not an infill to an appropriate defining well in the same pool and spacing unit.	3/12/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	3/12/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	3/12/2026
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	3/12/2026
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	3/12/2026