

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		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-025-56039
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)

- | | |
|---|---|
| <ul style="list-style-type: none"> 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). | <ul style="list-style-type: none"> 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: SWNW / 2365 FNL / 1290 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.102125 / LONG: -103.393908 (TVD: 0 feet, MD: 0 feet)

PPP: NWSW / 2540 FSL / 330 FWL / TWSP: 25S / RANGE: 35E / SECTION: 29 / LAT: 32.101102 / LONG: -103.397007 (TVD: 12744 feet, MD: 13099 feet)

PPP: NWNW / 1 FNL / 331 FWL / TWSP: 25S / RANGE: 35E / SECTION: 32 / LAT: 32.09412 / LONG: -103.396997 (TVD: 12750 feet, MD: 15739 feet)

BHL: SWSW / 50 FSL / 330 FWL / TWSP: 26S / RANGE: 35E / SECTION: 5 / LAT: 32.065233 / LONG: -103.396954 (TVD: 12750 feet, MD: 26146 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- 56039	Pool Code 98117	Pool Name WC-025 G-09 S263504N; Wolfcamp
Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 801H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3281.1'
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
E	29	25-S	35-E		2365 FNL	1290 FWL	32.102125°N	103.393908°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	330 FWL	32.065233°N	103.396954°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
E	29	25-S	35-E		2365 FNL	1290 FWL	32.102125°N	103.393908°W	LEA

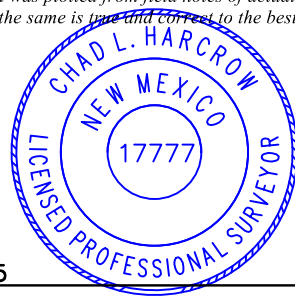
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	29	25-S	35-E		2540 FSL	330 FWL	32.101102°N	103.397007°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	330 FWL	32.065370°N	103.396954°W	LEA

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3281.1'
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<p>OPERATOR CERTIFICATIONS</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p>	<p>SURVEYOR CERTIFICATIONS</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <div style="text-align: right;">  <p><i>Chad Harcrow</i> 6/5/25</p> </div>	
Signature <i>Stan Wagner</i>	Date 7/7/25	Signature and Seal of Professional Surveyor
Printed Name Stan Wagner	Certificate Number 17777	Date of Survey MAY 28, 2025
Email Address		W.O.#25-501 DRAWN BY: WN PAGE 1 OF 2

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

WELL LOCATION INFORMATION

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Property Code 338321	Property Name BOATER FEDERAL COM	Well Number 801H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3281.1'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		
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Bottom Hole Location

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M	5	26-S	35-E		50 FSL	330 FWL	32.065233°N	103.396954°W	LEA

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	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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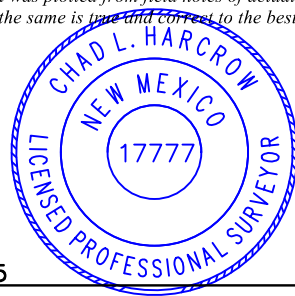
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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Last Take Point (LTP)

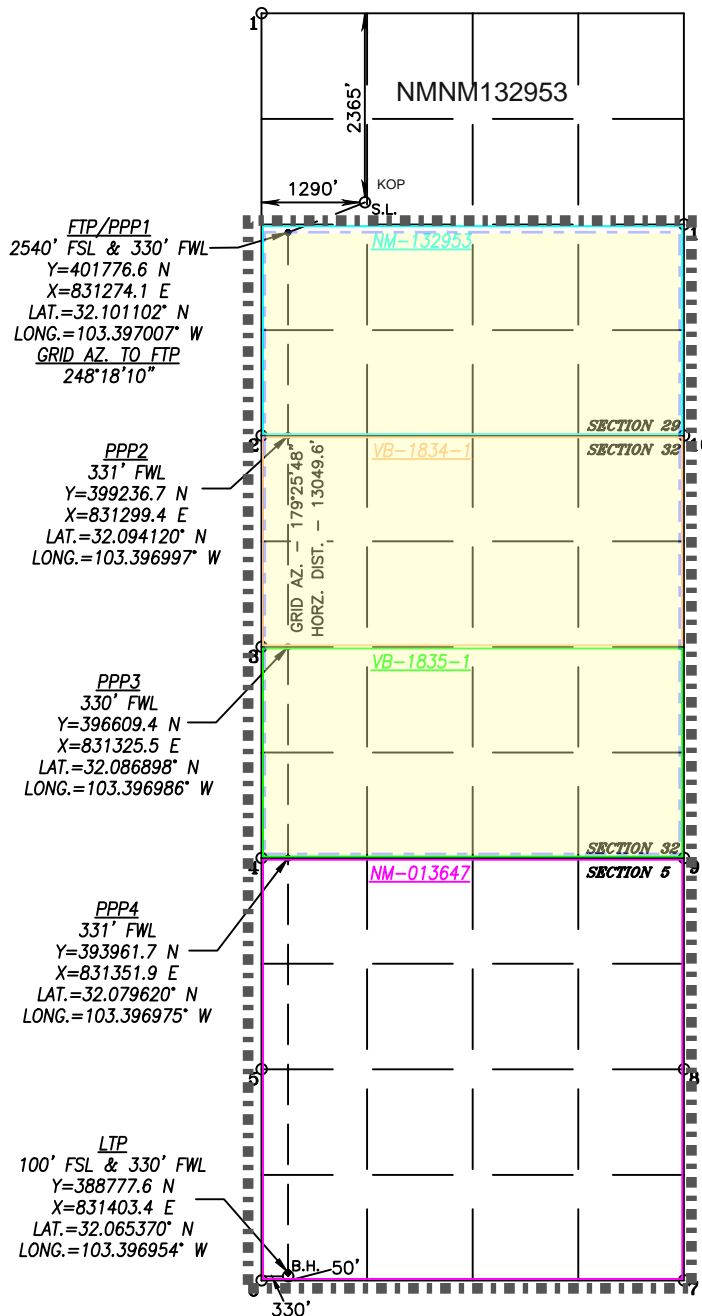
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Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 3281.1'
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Signature: <i>Stan Wagner</i> Date: 7/7/25	Signature and Seal of Professional Surveyor: <i>Chad Harcrow</i> 6/5/25
Printed Name: Stan Wagner Email Address:	Certificate Number: 17777 Date of Survey: MAY 28, 2025
	W.O.#25-501 DRAWN BY: WN PAGE 1 OF 2

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

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

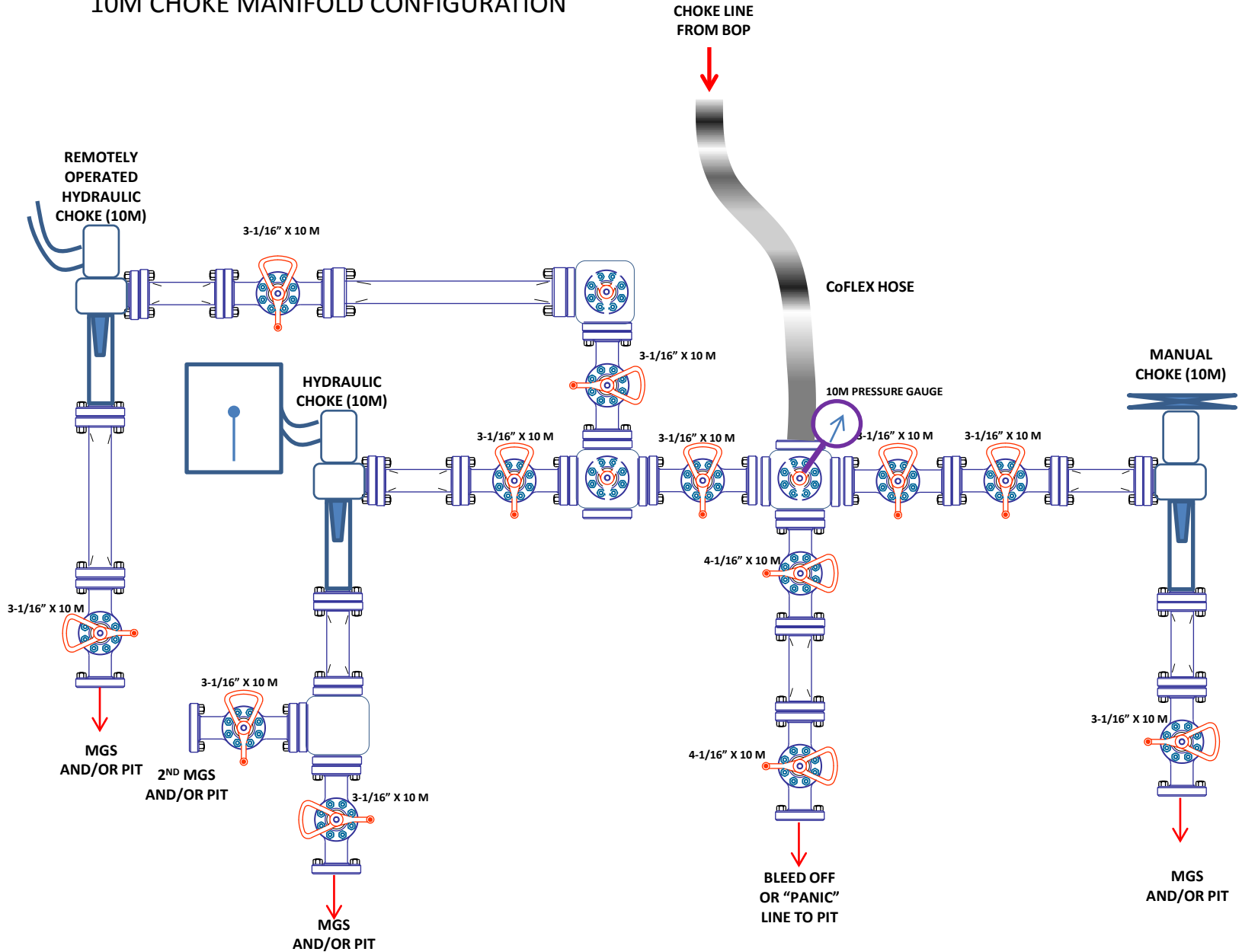


KOP
 NAD 83 NME
 SURFACE LOCATION
 Y=402157.1 N
 X=832230.5 E
 LAT.=32.102125° N
 LONG.=103.393908° W

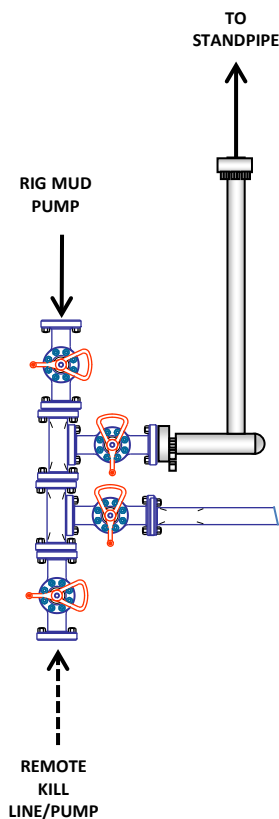
POINT LEGEND	
1	Y=404513.1 N X=830918.0 E
2	Y=399234.4 N X=830968.3 E
3	Y=396607.8 N X=830995.2 E
4	Y=393959.5 N X=831020.5 E
5	Y=391316.9 N X=831048.4 E
6	Y=388675.4 N X=831074.4 E
7	Y=386711.3 N X=836356.4 E
8	Y=391351.2 N X=836332.1 E
9	Y=393995.1 N X=836304.4 E
10	Y=399270.9 N X=836252.9 E
11	Y=401910.4 N X=836227.2 E

NAD 83 NME
 PROPOSED BOTTOM
 HOLE LOCATION
 Y=388727.6 N
 X=831403.9 E
 LAT.=32.065233° N
 LONG.=103.396954° W

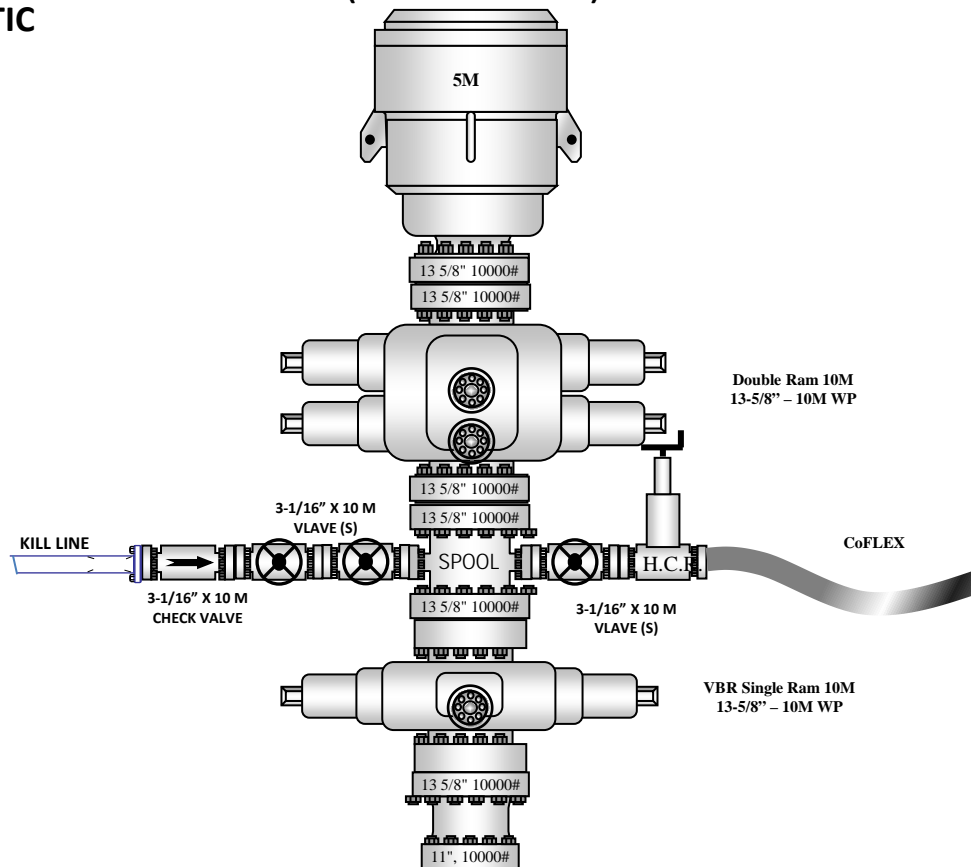
10M CHOKE MANIFOLD CONFIGURATION



10M REMOTE KILL SCHEMATIC



10M BOP Stack (5M Annular)



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1. Geologic Formations

TVD of Target:	12,750' EOL	Pilot hole depth:	N/A
MD at TD:	26,147'	Deepest expected fresh water:	230'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	718	Water	
Top of Salt	877	Salt	
Base of Salt	5159	Salt	
Lamar	5280	Salt Water	
Bell Canyon	5284	Salt Water	
Cherry Canyon	6281	Oil/Gas	
Brushy Canyon	7962	Oil/Gas	
Bone Spring	9232	Oil/Gas	
1st Bone Spring Sand	10376	Oil/Gas	
2nd Bone Spring Sand	10908	Oil/Gas	
3rd Bone Spring Sand	12024	Oil/Gas	
Wolfcamp A	12547	Oil/Gas	
Wolfcamp B	12775	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	727	10.75"	45.5	J55	BTC	6.28	8.07	21.62	24.06
9.875"	0	8200	7.625"	29.7	L80-ICY	BTC	2.44	1.02	2.98	3.01
8.750"	8200	12325	7.625"	29.7	P110-ICY	W513	2.80	1.54	2.92	1.75
6.75"	0	12125	5.5"	23	P110-CY	BTC	3.32	2.01	2.61	2.61
6.75"	12125	26,147	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.	204	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Int. Stage 1	1197	11	2.54	15.33	12	Lead: Class C
	112	14.8	1.34	6.52	8	Tail: Class C
Int. Stage 2	556	12.9	1.9	10.52	24	Lead: Class C
	192	14.8	1.34	6.52	8	Tail: Class C
Prod	670	12.7	1.68	9.09	72	Lead: Class C
	1340	14.5	1.18	5.26	19	Tail: Class H

Intermediate cement job to be performed offline.

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

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

Stage tool ~50' into Lamar if required.

Casing String	TOC	% Excess
Surface	0'	50% in OH
Int Stg 1	0'	50% in OH
Int Stg 2	0'	20% in OH
Production	11,825'	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.	204	13.5	1.75	9	12	Lead: Class C
	187	14.8	1.34	6.34	8	Tail: Class C
Bradenhead Stage 1	450	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	670	12.7	1.68	9.09	72	Lead: Class C
	1340	14.5	1.18	5.26	19	Tail: Class H

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

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

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

Casing String	TOC	% Excess
Surface	0'	50% in OH
BH Stg 1	0'	50% in OH
BH Stg 2	7,962'	121%
Production	11,825'	35% OH in Lateral (KOP to EOL)

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4. Pressure Control Equipment

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

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

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

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

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

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5. Mud Program

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

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

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

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

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

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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

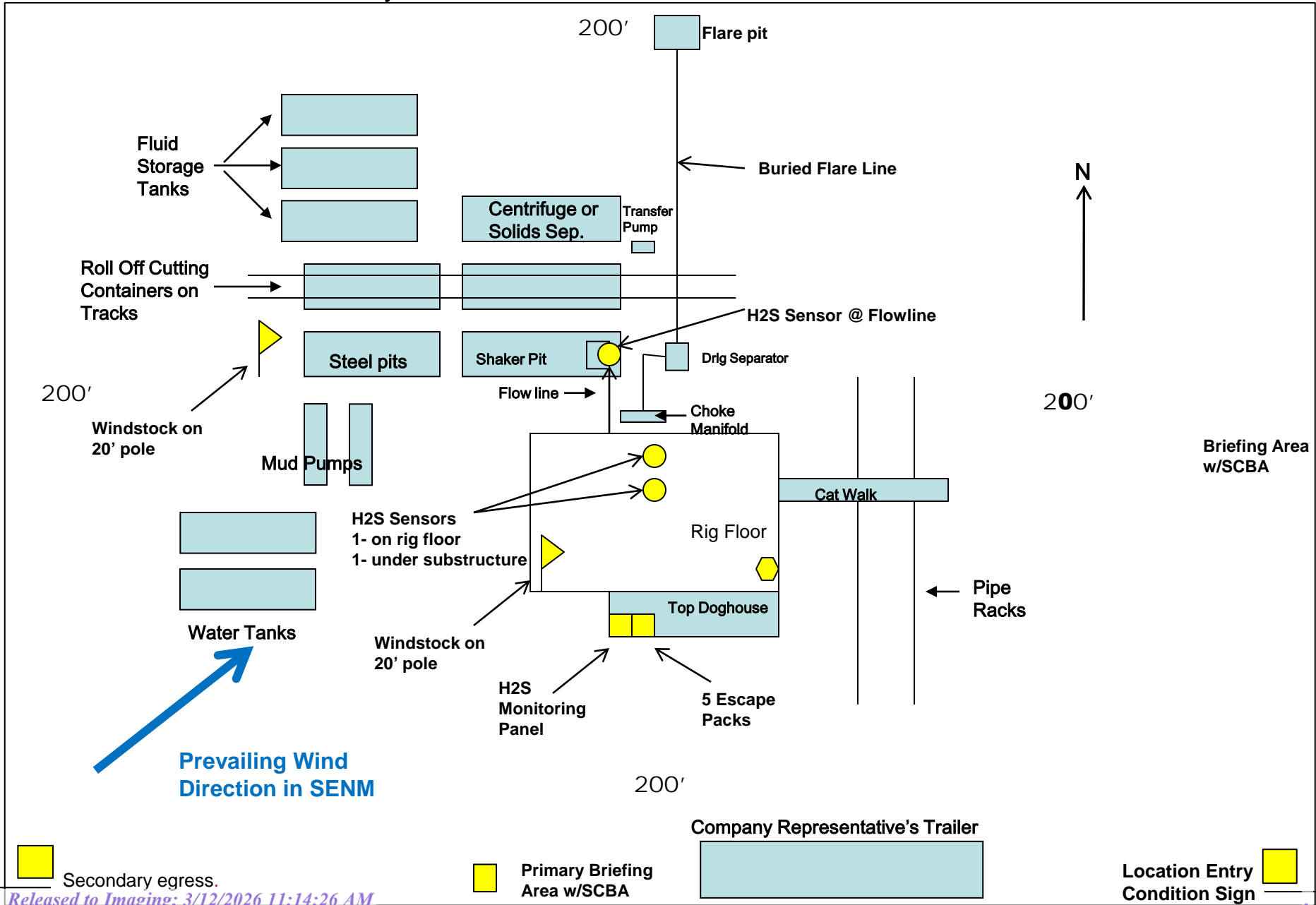
	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

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



Secondary egress.

Primary Briefing Area w/SCBA

Location Entry Condition Sign

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

BOATER FED COM PROJECT

_BOATER FED COM 801H - Slot BOATER FED COM 801H

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 801H - Slot BOATER FED COM 801H
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 801H	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 801H - Slot BOATER FED COM 801H					
Well Position	+N/-S	0.0 usft	Northing:	402,102.01 usft	Latitude:	32° 6' 7.216 N
	+E/-W	0.0 usft	Easting:	791,145.47 usft	Longitude:	103° 23' 35.212 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	47,142.38407706

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	183.96

Plan Survey Tool Program	Date	4/24/2025		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	26,146.6 PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR ISCWSA MWD + IFR1 + SAG	

ConocoPhillips
Planning Report

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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 801H	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	
2,963.5	19.27	270.86	2,945.4	2.4	-160.5	2.00	2.00	0.00	270.86	
4,726.0	19.27	270.86	4,609.2	11.2	-742.1	0.00	0.00	0.00	0.00	
6,652.9	0.00	0.00	6,500.0	16.0	-1,063.0	1.00	-1.00	0.00	180.00	
12,425.4	0.00	0.00	12,272.5	16.0	-1,063.0	0.00	0.00	0.00	0.00	
13,175.4	90.00	179.43	12,750.0	-461.4	-1,058.2	12.00	12.00	23.92	179.43	
26,146.6	90.00	179.43	12,750.0	-13,432.0	-929.1	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

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Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB @ 3252.0usft
Site:	BOATER FED COM PROJECT	North Reference:	Grid
Well:	_BOATER FED COM 801H	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	270.86	2,100.0	0.0	-1.7	0.1	2.00	2.00	0.00	0.00
2,200.0	4.00	270.86	2,199.8	0.1	-7.0	0.4	2.00	2.00	0.00	0.00
2,300.0	6.00	270.86	2,299.5	0.2	-15.7	0.8	2.00	2.00	0.00	0.00
2,400.0	8.00	270.86	2,398.7	0.4	-27.9	1.5	2.00	2.00	0.00	0.00
2,500.0	10.00	270.86	2,497.5	0.7	-43.5	2.3	2.00	2.00	0.00	0.00
2,600.0	12.00	270.86	2,595.6	0.9	-62.6	3.4	2.00	2.00	0.00	0.00
2,700.0	14.00	270.86	2,693.1	1.3	-85.1	4.6	2.00	2.00	0.00	0.00
2,800.0	16.00	270.86	2,789.6	1.7	-111.0	6.0	2.00	2.00	0.00	0.00
2,900.0	18.00	270.86	2,885.3	2.1	-140.2	7.6	2.00	2.00	0.00	0.00
2,963.5	19.27	270.86	2,945.4	2.4	-160.5	8.7	2.00	2.00	0.00	0.00
3,000.0	19.27	270.86	2,979.9	2.6	-172.5	9.3	0.00	0.00	0.00	0.00
3,100.0	19.27	270.86	3,074.3	3.1	-205.5	11.1	0.00	0.00	0.00	0.00
3,200.0	19.27	270.86	3,168.7	3.6	-238.5	12.9	0.00	0.00	0.00	0.00
3,300.0	19.27	270.86	3,263.1	4.1	-271.5	14.7	0.00	0.00	0.00	0.00
3,400.0	19.27	270.86	3,357.5	4.6	-304.5	16.4	0.00	0.00	0.00	0.00
3,500.0	19.27	270.86	3,451.9	5.1	-337.5	18.2	0.00	0.00	0.00	0.00
3,600.0	19.27	270.86	3,546.3	5.6	-370.5	20.0	0.00	0.00	0.00	0.00
3,700.0	19.27	270.86	3,640.7	6.1	-403.5	21.8	0.00	0.00	0.00	0.00
3,800.0	19.27	270.86	3,735.1	6.6	-436.5	23.6	0.00	0.00	0.00	0.00
3,900.0	19.27	270.86	3,829.5	7.1	-469.5	25.3	0.00	0.00	0.00	0.00
4,000.0	19.27	270.86	3,923.9	7.6	-502.5	27.1	0.00	0.00	0.00	0.00
4,100.0	19.27	270.86	4,018.3	8.1	-535.5	28.9	0.00	0.00	0.00	0.00
4,200.0	19.27	270.86	4,112.7	8.6	-568.5	30.7	0.00	0.00	0.00	0.00
4,300.0	19.27	270.86	4,207.1	9.1	-601.5	32.5	0.00	0.00	0.00	0.00
4,400.0	19.27	270.86	4,301.5	9.6	-634.5	34.3	0.00	0.00	0.00	0.00
4,500.0	19.27	270.86	4,395.9	10.0	-667.5	36.0	0.00	0.00	0.00	0.00
4,600.0	19.27	270.86	4,490.3	10.5	-700.5	37.8	0.00	0.00	0.00	0.00
4,700.0	19.27	270.86	4,584.7	11.0	-733.5	39.6	0.00	0.00	0.00	0.00
4,726.0	19.27	270.86	4,609.2	11.2	-742.1	40.1	0.00	0.00	0.00	0.00
4,800.0	18.53	270.86	4,679.2	11.5	-766.0	41.4	1.00	-1.00	0.00	0.00
4,900.0	17.53	270.86	4,774.3	12.0	-797.0	43.0	1.00	-1.00	0.00	0.00
5,000.0	16.53	270.86	4,869.9	12.4	-826.3	44.6	1.00	-1.00	0.00	0.00

ConocoPhillips Planning Report

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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 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	15.53	270.86	4,966.0	12.9	-853.9	46.1	1.00	-1.00	0.00	
5,200.0	14.53	270.86	5,062.6	13.2	-879.8	47.5	1.00	-1.00	0.00	
5,300.0	13.53	270.86	5,159.6	13.6	-904.0	48.8	1.00	-1.00	0.00	
5,400.0	12.53	270.86	5,257.0	13.9	-926.6	50.0	1.00	-1.00	0.00	
5,500.0	11.53	270.86	5,354.8	14.3	-947.4	51.2	1.00	-1.00	0.00	
5,600.0	10.53	270.86	5,453.0	14.5	-966.5	52.2	1.00	-1.00	0.00	
5,700.0	9.53	270.86	5,551.5	14.8	-983.9	53.1	1.00	-1.00	0.00	
5,800.0	8.53	270.86	5,650.2	15.0	-999.6	54.0	1.00	-1.00	0.00	
5,900.0	7.53	270.86	5,749.2	15.3	-1,013.6	54.7	1.00	-1.00	0.00	
6,000.0	6.53	270.86	5,848.5	15.4	-1,025.8	55.4	1.00	-1.00	0.00	
6,100.0	5.53	270.86	5,947.9	15.6	-1,036.3	56.0	1.00	-1.00	0.00	
6,200.0	4.53	270.86	6,047.6	15.7	-1,045.1	56.4	1.00	-1.00	0.00	
6,300.0	3.53	270.86	6,147.3	15.8	-1,052.1	56.8	1.00	-1.00	0.00	
6,400.0	2.53	270.86	6,247.2	15.9	-1,057.4	57.1	1.00	-1.00	0.00	
6,500.0	1.53	270.86	6,347.1	16.0	-1,061.0	57.3	1.00	-1.00	0.00	
6,600.0	0.53	270.86	6,447.1	16.0	-1,062.8	57.4	1.00	-1.00	0.00	
6,652.9	0.00	0.00	6,500.0	16.0	-1,063.0	57.4	1.00	-1.00	0.00	
6,700.0	0.00	0.00	6,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,347.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,447.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,347.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,447.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,347.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,447.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	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	10,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,347.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,447.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,347.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,447.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,547.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,800.0	0.00	0.00	11,647.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
11,900.0	0.00	0.00	11,747.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,000.0	0.00	0.00	11,847.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,100.0	0.00	0.00	11,947.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,200.0	0.00	0.00	12,047.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,300.0	0.00	0.00	12,147.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,400.0	0.00	0.00	12,247.1	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,425.4	0.00	0.00	12,272.5	16.0	-1,063.0	57.4	0.00	0.00	0.00	
12,500.0	8.95	179.43	12,346.8	10.2	-1,062.9	63.2	12.00	12.00	0.00	
12,600.0	20.95	179.43	12,443.2	-15.6	-1,062.7	88.9	12.00	12.00	0.00	
12,700.0	32.95	179.43	12,532.2	-60.8	-1,062.2	134.0	12.00	12.00	0.00	
12,800.0	44.95	179.43	12,609.8	-123.5	-1,061.6	196.5	12.00	12.00	0.00	
12,900.0	56.95	179.43	12,672.7	-201.1	-1,060.8	273.8	12.00	12.00	0.00	
13,000.0	68.95	179.43	12,718.1	-290.0	-1,060.0	362.4	12.00	12.00	0.00	
13,100.0	80.95	179.43	12,744.0	-386.3	-1,059.0	458.5	12.00	12.00	0.00	
13,175.4	90.00	179.43	12,750.0	-461.4	-1,058.2	533.4	12.00	12.00	0.00	
13,200.0	90.00	179.43	12,750.0	-486.0	-1,058.0	557.9	0.00	0.00	0.00	
13,300.0	90.00	179.43	12,750.0	-586.0	-1,057.0	657.6	0.00	0.00	0.00	
13,400.0	90.00	179.43	12,750.0	-686.0	-1,056.0	757.2	0.00	0.00	0.00	
13,500.0	90.00	179.43	12,750.0	-786.0	-1,055.0	856.9	0.00	0.00	0.00	
13,600.0	90.00	179.43	12,750.0	-886.0	-1,054.0	956.6	0.00	0.00	0.00	
13,700.0	90.00	179.43	12,750.0	-986.0	-1,053.0	1,056.3	0.00	0.00	0.00	
13,800.0	90.00	179.43	12,750.0	-1,086.0	-1,052.0	1,156.0	0.00	0.00	0.00	
13,900.0	90.00	179.43	12,750.0	-1,186.0	-1,051.0	1,255.7	0.00	0.00	0.00	
14,000.0	90.00	179.43	12,750.0	-1,286.0	-1,050.0	1,355.4	0.00	0.00	0.00	
14,100.0	90.00	179.43	12,750.0	-1,386.0	-1,049.0	1,455.1	0.00	0.00	0.00	
14,200.0	90.00	179.43	12,750.0	-1,486.0	-1,048.0	1,554.8	0.00	0.00	0.00	
14,300.0	90.00	179.43	12,750.0	-1,586.0	-1,047.1	1,654.4	0.00	0.00	0.00	
14,400.0	90.00	179.43	12,750.0	-1,686.0	-1,046.1	1,754.1	0.00	0.00	0.00	
14,500.0	90.00	179.43	12,750.0	-1,786.0	-1,045.1	1,853.8	0.00	0.00	0.00	
14,600.0	90.00	179.43	12,750.0	-1,886.0	-1,044.1	1,953.5	0.00	0.00	0.00	
14,700.0	90.00	179.43	12,750.0	-1,985.9	-1,043.1	2,053.2	0.00	0.00	0.00	
14,800.0	90.00	179.43	12,750.0	-2,085.9	-1,042.1	2,152.9	0.00	0.00	0.00	
14,900.0	90.00	179.43	12,750.0	-2,185.9	-1,041.1	2,252.6	0.00	0.00	0.00	
15,000.0	90.00	179.43	12,750.0	-2,285.9	-1,040.1	2,352.3	0.00	0.00	0.00	
15,100.0	90.00	179.43	12,750.0	-2,385.9	-1,039.1	2,451.9	0.00	0.00	0.00	
15,200.0	90.00	179.43	12,750.0	-2,485.9	-1,038.1	2,551.6	0.00	0.00	0.00	
15,300.0	90.00	179.43	12,750.0	-2,585.9	-1,037.1	2,651.3	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	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	-2,685.9	-1,036.1	2,751.0	0.00	0.00	0.00	
15,500.0	90.00	179.43	12,750.0	-2,785.9	-1,035.1	2,850.7	0.00	0.00	0.00	
15,600.0	90.00	179.43	12,750.0	-2,885.9	-1,034.1	2,950.4	0.00	0.00	0.00	
15,700.0	90.00	179.43	12,750.0	-2,985.9	-1,033.1	3,050.1	0.00	0.00	0.00	
15,800.0	90.00	179.43	12,750.0	-3,085.9	-1,032.1	3,149.8	0.00	0.00	0.00	
15,900.0	90.00	179.43	12,750.0	-3,185.9	-1,031.1	3,249.4	0.00	0.00	0.00	
16,000.0	90.00	179.43	12,750.0	-3,285.9	-1,030.1	3,349.1	0.00	0.00	0.00	
16,100.0	90.00	179.43	12,750.0	-3,385.9	-1,029.1	3,448.8	0.00	0.00	0.00	
16,200.0	90.00	179.43	12,750.0	-3,485.9	-1,028.1	3,548.5	0.00	0.00	0.00	
16,300.0	90.00	179.43	12,750.0	-3,585.9	-1,027.1	3,648.2	0.00	0.00	0.00	
16,400.0	90.00	179.43	12,750.0	-3,685.9	-1,026.2	3,747.9	0.00	0.00	0.00	
16,500.0	90.00	179.43	12,750.0	-3,785.9	-1,025.2	3,847.6	0.00	0.00	0.00	
16,600.0	90.00	179.43	12,750.0	-3,885.9	-1,024.2	3,947.3	0.00	0.00	0.00	
16,700.0	90.00	179.43	12,750.0	-3,985.8	-1,023.2	4,047.0	0.00	0.00	0.00	
16,800.0	90.00	179.43	12,750.0	-4,085.8	-1,022.2	4,146.6	0.00	0.00	0.00	
16,900.0	90.00	179.43	12,750.0	-4,185.8	-1,021.2	4,246.3	0.00	0.00	0.00	
17,000.0	90.00	179.43	12,750.0	-4,285.8	-1,020.2	4,346.0	0.00	0.00	0.00	
17,100.0	90.00	179.43	12,750.0	-4,385.8	-1,019.2	4,445.7	0.00	0.00	0.00	
17,200.0	90.00	179.43	12,750.0	-4,485.8	-1,018.2	4,545.4	0.00	0.00	0.00	
17,300.0	90.00	179.43	12,750.0	-4,585.8	-1,017.2	4,645.1	0.00	0.00	0.00	
17,400.0	90.00	179.43	12,750.0	-4,685.8	-1,016.2	4,744.8	0.00	0.00	0.00	
17,500.0	90.00	179.43	12,750.0	-4,785.8	-1,015.2	4,844.5	0.00	0.00	0.00	
17,600.0	90.00	179.43	12,750.0	-4,885.8	-1,014.2	4,944.1	0.00	0.00	0.00	
17,700.0	90.00	179.43	12,750.0	-4,985.8	-1,013.2	5,043.8	0.00	0.00	0.00	
17,800.0	90.00	179.43	12,750.0	-5,085.8	-1,012.2	5,143.5	0.00	0.00	0.00	
17,900.0	90.00	179.43	12,750.0	-5,185.8	-1,011.2	5,243.2	0.00	0.00	0.00	
18,000.0	90.00	179.43	12,750.0	-5,285.8	-1,010.2	5,342.9	0.00	0.00	0.00	
18,100.0	90.00	179.43	12,750.0	-5,385.8	-1,009.2	5,442.6	0.00	0.00	0.00	
18,200.0	90.00	179.43	12,750.0	-5,485.8	-1,008.2	5,542.3	0.00	0.00	0.00	
18,300.0	90.00	179.43	12,750.0	-5,585.8	-1,007.2	5,642.0	0.00	0.00	0.00	
18,400.0	90.00	179.43	12,750.0	-5,685.8	-1,006.2	5,741.6	0.00	0.00	0.00	
18,500.0	90.00	179.43	12,750.0	-5,785.8	-1,005.2	5,841.3	0.00	0.00	0.00	
18,600.0	90.00	179.43	12,750.0	-5,885.8	-1,004.3	5,941.0	0.00	0.00	0.00	
18,700.0	90.00	179.43	12,750.0	-5,985.7	-1,003.3	6,040.7	0.00	0.00	0.00	
18,800.0	90.00	179.43	12,750.0	-6,085.7	-1,002.3	6,140.4	0.00	0.00	0.00	
18,900.0	90.00	179.43	12,750.0	-6,185.7	-1,001.3	6,240.1	0.00	0.00	0.00	
19,000.0	90.00	179.43	12,750.0	-6,285.7	-1,000.3	6,339.8	0.00	0.00	0.00	
19,100.0	90.00	179.43	12,750.0	-6,385.7	-999.3	6,439.5	0.00	0.00	0.00	
19,200.0	90.00	179.43	12,750.0	-6,485.7	-998.3	6,539.2	0.00	0.00	0.00	
19,300.0	90.00	179.43	12,750.0	-6,585.7	-997.3	6,638.8	0.00	0.00	0.00	
19,400.0	90.00	179.43	12,750.0	-6,685.7	-996.3	6,738.5	0.00	0.00	0.00	
19,500.0	90.00	179.43	12,750.0	-6,785.7	-995.3	6,838.2	0.00	0.00	0.00	
19,600.0	90.00	179.43	12,750.0	-6,885.7	-994.3	6,937.9	0.00	0.00	0.00	
19,700.0	90.00	179.43	12,750.0	-6,985.7	-993.3	7,037.6	0.00	0.00	0.00	
19,800.0	90.00	179.43	12,750.0	-7,085.7	-992.3	7,137.3	0.00	0.00	0.00	
19,900.0	90.00	179.43	12,750.0	-7,185.7	-991.3	7,237.0	0.00	0.00	0.00	
20,000.0	90.00	179.43	12,750.0	-7,285.7	-990.3	7,336.7	0.00	0.00	0.00	
20,100.0	90.00	179.43	12,750.0	-7,385.7	-989.3	7,436.3	0.00	0.00	0.00	
20,200.0	90.00	179.43	12,750.0	-7,485.7	-988.3	7,536.0	0.00	0.00	0.00	
20,300.0	90.00	179.43	12,750.0	-7,585.7	-987.3	7,635.7	0.00	0.00	0.00	
20,400.0	90.00	179.43	12,750.0	-7,685.7	-986.3	7,735.4	0.00	0.00	0.00	
20,500.0	90.00	179.43	12,750.0	-7,785.7	-985.3	7,835.1	0.00	0.00	0.00	
20,600.0	90.00	179.43	12,750.0	-7,885.7	-984.3	7,934.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	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	-7,985.6	-983.4	8,034.5	0.00	0.00	0.00	
20,800.0	90.00	179.43	12,750.0	-8,085.6	-982.4	8,134.2	0.00	0.00	0.00	
20,900.0	90.00	179.43	12,750.0	-8,185.6	-981.4	8,233.8	0.00	0.00	0.00	
21,000.0	90.00	179.43	12,750.0	-8,285.6	-980.4	8,333.5	0.00	0.00	0.00	
21,100.0	90.00	179.43	12,750.0	-8,385.6	-979.4	8,433.2	0.00	0.00	0.00	
21,200.0	90.00	179.43	12,750.0	-8,485.6	-978.4	8,532.9	0.00	0.00	0.00	
21,300.0	90.00	179.43	12,750.0	-8,585.6	-977.4	8,632.6	0.00	0.00	0.00	
21,400.0	90.00	179.43	12,750.0	-8,685.6	-976.4	8,732.3	0.00	0.00	0.00	
21,500.0	90.00	179.43	12,750.0	-8,785.6	-975.4	8,832.0	0.00	0.00	0.00	
21,600.0	90.00	179.43	12,750.0	-8,885.6	-974.4	8,931.7	0.00	0.00	0.00	
21,700.0	90.00	179.43	12,750.0	-8,985.6	-973.4	9,031.4	0.00	0.00	0.00	
21,800.0	90.00	179.43	12,750.0	-9,085.6	-972.4	9,131.0	0.00	0.00	0.00	
21,900.0	90.00	179.43	12,750.0	-9,185.6	-971.4	9,230.7	0.00	0.00	0.00	
22,000.0	90.00	179.43	12,750.0	-9,285.6	-970.4	9,330.4	0.00	0.00	0.00	
22,100.0	90.00	179.43	12,750.0	-9,385.6	-969.4	9,430.1	0.00	0.00	0.00	
22,200.0	90.00	179.43	12,750.0	-9,485.6	-968.4	9,529.8	0.00	0.00	0.00	
22,300.0	90.00	179.43	12,750.0	-9,585.6	-967.4	9,629.5	0.00	0.00	0.00	
22,400.0	90.00	179.43	12,750.0	-9,685.6	-966.4	9,729.2	0.00	0.00	0.00	
22,500.0	90.00	179.43	12,750.0	-9,785.6	-965.4	9,828.9	0.00	0.00	0.00	
22,600.0	90.00	179.43	12,750.0	-9,885.6	-964.4	9,928.5	0.00	0.00	0.00	
22,700.0	90.00	179.43	12,750.0	-9,985.5	-963.4	10,028.2	0.00	0.00	0.00	
22,800.0	90.00	179.43	12,750.0	-10,085.5	-962.5	10,127.9	0.00	0.00	0.00	
22,900.0	90.00	179.43	12,750.0	-10,185.5	-961.5	10,227.6	0.00	0.00	0.00	
23,000.0	90.00	179.43	12,750.0	-10,285.5	-960.5	10,327.3	0.00	0.00	0.00	
23,100.0	90.00	179.43	12,750.0	-10,385.5	-959.5	10,427.0	0.00	0.00	0.00	
23,200.0	90.00	179.43	12,750.0	-10,485.5	-958.5	10,526.7	0.00	0.00	0.00	
23,300.0	90.00	179.43	12,750.0	-10,585.5	-957.5	10,626.4	0.00	0.00	0.00	
23,400.0	90.00	179.43	12,750.0	-10,685.5	-956.5	10,726.0	0.00	0.00	0.00	
23,500.0	90.00	179.43	12,750.0	-10,785.5	-955.5	10,825.7	0.00	0.00	0.00	
23,600.0	90.00	179.43	12,750.0	-10,885.5	-954.5	10,925.4	0.00	0.00	0.00	
23,700.0	90.00	179.43	12,750.0	-10,985.5	-953.5	11,025.1	0.00	0.00	0.00	
23,800.0	90.00	179.43	12,750.0	-11,085.5	-952.5	11,124.8	0.00	0.00	0.00	
23,900.0	90.00	179.43	12,750.0	-11,185.5	-951.5	11,224.5	0.00	0.00	0.00	
24,000.0	90.00	179.43	12,750.0	-11,285.5	-950.5	11,324.2	0.00	0.00	0.00	
24,100.0	90.00	179.43	12,750.0	-11,385.5	-949.5	11,423.9	0.00	0.00	0.00	
24,200.0	90.00	179.43	12,750.0	-11,485.5	-948.5	11,523.6	0.00	0.00	0.00	
24,300.0	90.00	179.43	12,750.0	-11,585.5	-947.5	11,623.2	0.00	0.00	0.00	
24,400.0	90.00	179.43	12,750.0	-11,685.5	-946.5	11,722.9	0.00	0.00	0.00	
24,500.0	90.00	179.43	12,750.0	-11,785.5	-945.5	11,822.6	0.00	0.00	0.00	
24,600.0	90.00	179.43	12,750.0	-11,885.5	-944.5	11,922.3	0.00	0.00	0.00	
24,700.0	90.00	179.43	12,750.0	-11,985.5	-943.5	12,022.0	0.00	0.00	0.00	
24,800.0	90.00	179.43	12,750.0	-12,085.4	-942.5	12,121.7	0.00	0.00	0.00	
24,900.0	90.00	179.43	12,750.0	-12,185.4	-941.5	12,221.4	0.00	0.00	0.00	
25,000.0	90.00	179.43	12,750.0	-12,285.4	-940.6	12,321.1	0.00	0.00	0.00	
25,100.0	90.00	179.43	12,750.0	-12,385.4	-939.6	12,420.7	0.00	0.00	0.00	
25,200.0	90.00	179.43	12,750.0	-12,485.4	-938.6	12,520.4	0.00	0.00	0.00	
25,300.0	90.00	179.43	12,750.0	-12,585.4	-937.6	12,620.1	0.00	0.00	0.00	
25,400.0	90.00	179.43	12,750.0	-12,685.4	-936.6	12,719.8	0.00	0.00	0.00	
25,500.0	90.00	179.43	12,750.0	-12,785.4	-935.6	12,819.5	0.00	0.00	0.00	
25,600.0	90.00	179.43	12,750.0	-12,885.4	-934.6	12,919.2	0.00	0.00	0.00	
25,700.0	90.00	179.43	12,750.0	-12,985.4	-933.6	13,018.9	0.00	0.00	0.00	
25,800.0	90.00	179.43	12,750.0	-13,085.4	-932.6	13,118.6	0.00	0.00	0.00	
25,900.0	90.00	179.43	12,750.0	-13,185.4	-931.6	13,218.2	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well _BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
26,000.0	90.00	179.43	12,750.0	-13,285.4	-930.6	13,317.9	0.00	0.00	0.00	
26,100.0	90.00	179.43	12,750.0	-13,385.4	-929.6	13,417.6	0.00	0.00	0.00	
26,146.6	90.00	179.43	12,750.0	-13,432.0	-929.1	13,464.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP_BOATER FED COI - hit/miss target - Shape	0.00	0.00	12,750.0	-384.4	-1,058.7	401,717.60	790,086.80	32° 6' 3.504 N	103° 23' 47.557 W	- plan misses target center by 6.3usft at 13099.7usft MD (12744.0 TVD, -386.0 N, -1059.0 E) - Circle (radius 50.0)
LTP_BOATER FED COM - plan hits target center - Circle (radius 50.0)	90.00	179.43	12,750.0	-13,382.0	-929.6	388,720.03	790,215.82	32° 3' 54.878 N	103° 23' 47.370 W	
PBHL_BOATER FED C - plan hits target center - Rectangle (sides W100.0 H13,048.0 D20.0)	0.00	359.43	12,750.0	-13,432.0	-929.1	388,670.03	790,216.33	32° 3' 54.383 N	103° 23' 47.369 W	

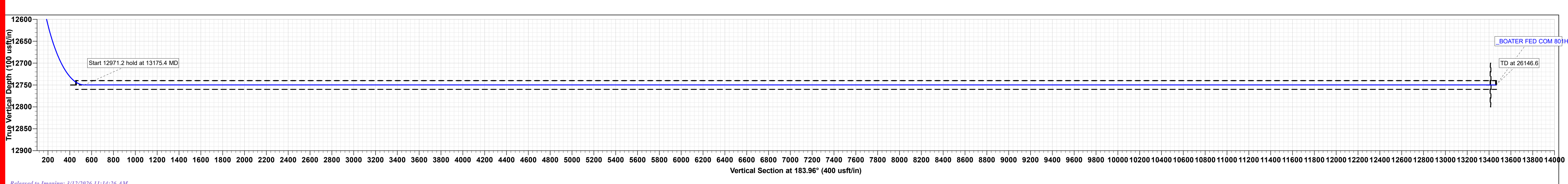
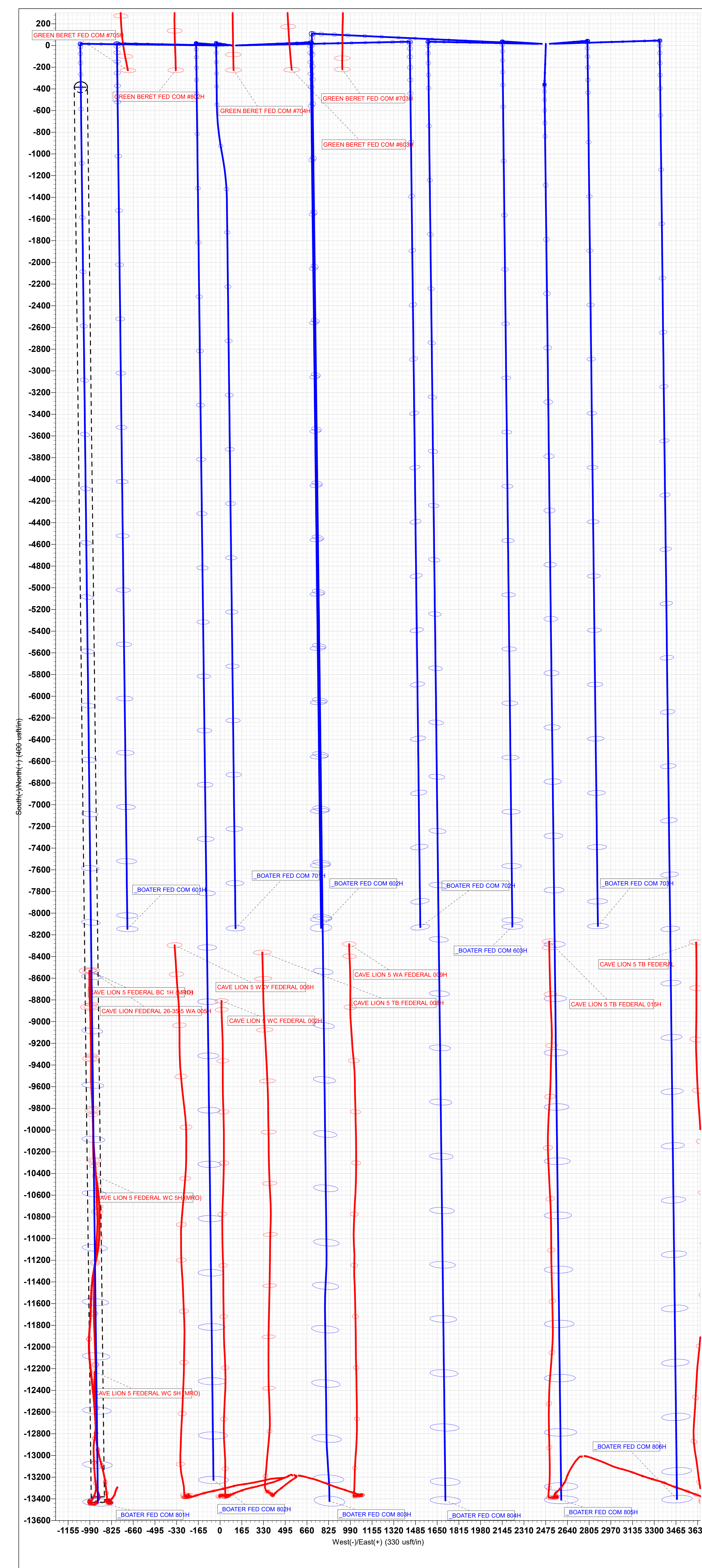
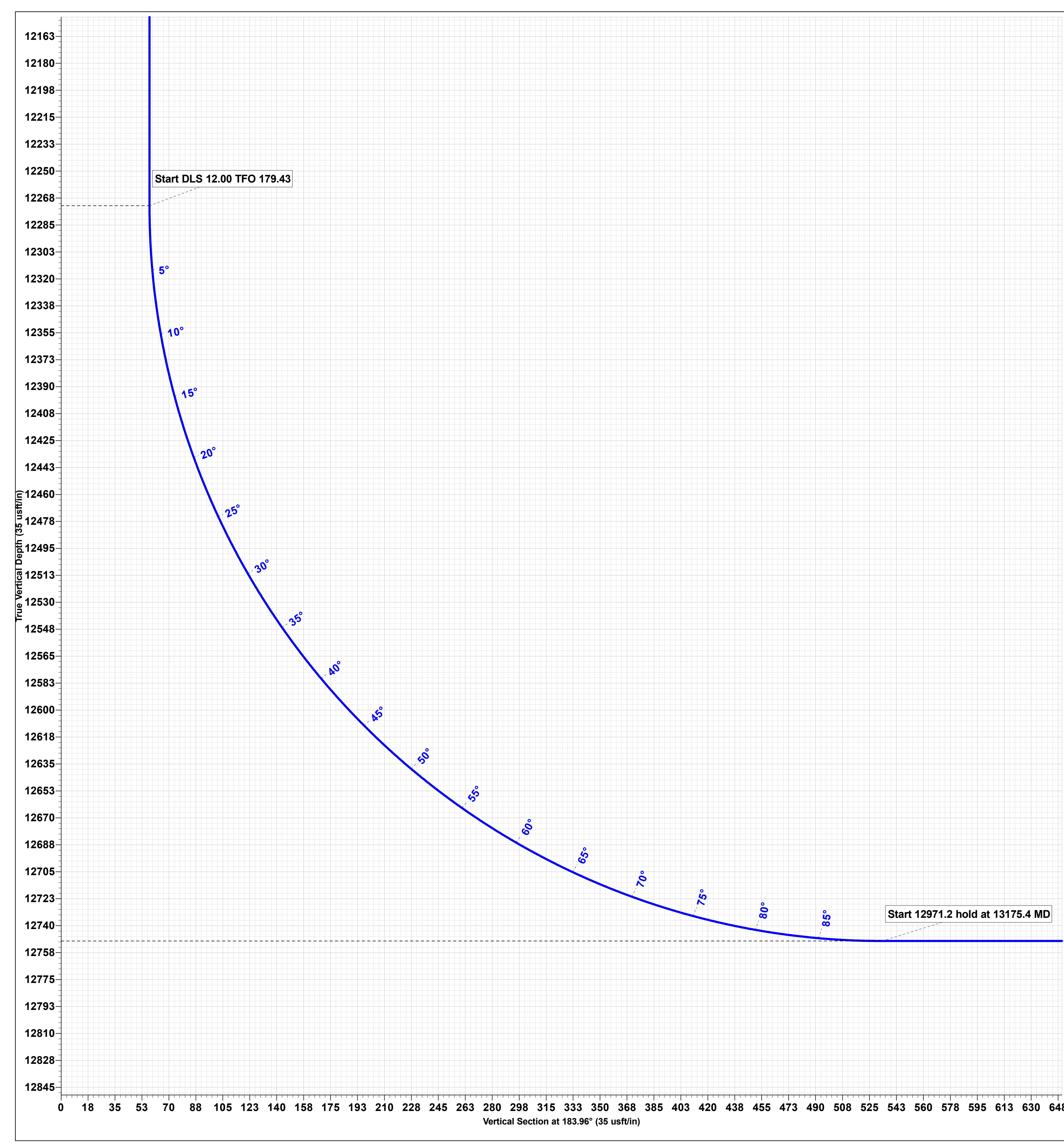
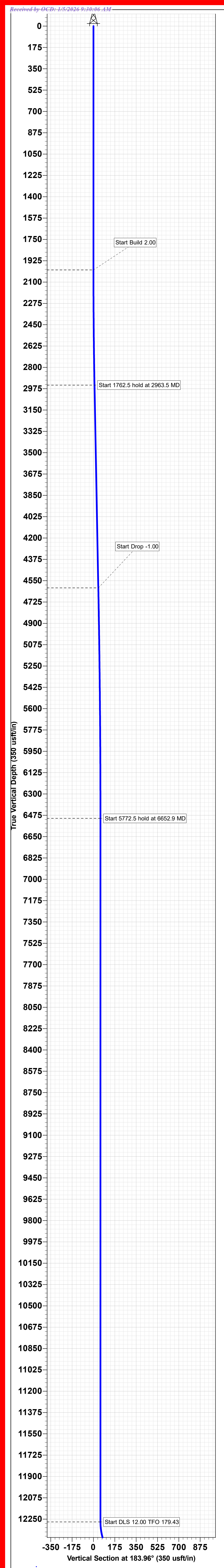
Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
26,146.7	12,750.0	5-1/2" Production Casing	5-1/2	6		



Project: LEA COUNTY SOUTHEAST
 Site: BOATER FED COM PROJECT
 Well: BOATER FED COM 801H
 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
2963.5	19.27	270.86	2945.4	2.4	-160.5	2.00	270.86	8.7
4726.0	19.27	270.86	4609.2	11.2	-742.1	0.00	0.00	40.1
6652.9	0.00	0.00	6500.0	16.0	-1063.0	1.00	180.00	57.4
12425.4	0.00	0.00	12272.5	16.0	-1063.0	0.00	0.00	57.4
13175.4	90.00	179.43	12750.0	-461.4	-1058.2	12.00	179.43	533.4
26146.6	90.00	179.43	12750.0	-13432.0	-929.1	0.00	0.00	13464.1



DELAWARE BASIN EAST

**LEA COUNTY SOUTHEAST
BOATER FED COM PROJECT
_BOATER FED COM 801H**

**OWB
PWP0**

Anticollision Report

24 April, 2025

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

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

Survey Tool Program	Date	4/24/2025		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	26,146.6	PWP0 (OWB)	r.5 MWD+IFR1+SAG+FDIR	ISCWSA MWD + IFR1 + SAG + FDIR Corr

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						
BOATER FED COM PROJECT						
_BOATER FED COM 601H - OWB - PWP0	2,651.2	2,657.9	29.0	14.7	2.032	Caution - Monitor Closely, CC, ES
_BOATER FED COM 601H - OWB - PWP0	2,700.0	2,706.7	29.4	14.9	2.031	Caution - Monitor Closely, SF
_BOATER FED COM 602H - OWB - PWP0	2,000.0	2,000.0	119.7	108.3	10.465	CC, ES
_BOATER FED COM 602H - OWB - PWP0	2,100.0	2,095.9	123.1	111.3	10.366	SF
_BOATER FED COM 701H - OWB - PWP0	2,000.0	2,000.0	89.7	78.3	7.843	CC, ES
_BOATER FED COM 701H - OWB - PWP0	2,100.0	2,100.0	91.5	79.6	7.740	SF
_BOATER FED COM 702H - OWB - PWP0	2,000.0	2,000.0	149.7	138.3	13.088	CC, ES
_BOATER FED COM 702H - OWB - PWP0	2,100.0	2,094.9	153.1	141.2	12.894	SF
_BOATER FED COM 802H - OWB - PWP0	2,451.9	2,461.3	59.2	46.0	4.488	CC, ES
_BOATER FED COM 802H - OWB - PWP0	25,944.0	25,805.2	880.7	655.0	3.902	SF
_BOATER FED COM 803H - OWB - PWP0						Out of range
_BOATER FED COM 804H - OWB - PWP0						Out of range
_BOATER FED COM 805H - OWB - PWP0						Out of range
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP	25,127.1	13,167.3	351.8	251.6	3.511	CC, ES
CAVE LION 5 FEDERAL 26 5 TG 001H - OWB - AWP	25,200.0	13,101.6	352.9	252.1	3.502	SF
CAVE LION 5 TB FEDERAL 008H - OWB - AWP						Out of range
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	26,092.7	12,837.7	970.3	804.8	5.864	CC, ES
CAVE LION 5 WC FEDERAL 002H - OWB - AWP	26,100.0	12,835.6	970.3	804.8	5.863	SF
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP	25,665.5	12,843.9	674.3	519.7	4.360	CC, ES
CAVE LION 5 WXY FEDERAL 006H - OWB - AWP	25,700.0	12,818.7	674.6	519.8	4.358	SF
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP	21,242.8	17,275.0	157.1	59.0	1.601	Caution - Monitor Closely, CC
CAVE LION FEDERAL 26-35-5 WA 005H - OWB - AWP	24,900.0	13,606.4	161.3	54.7	1.513	Caution - Monitor Closely, ES, SF
CAVE LION 5 FEDERAL (5H, 1H)						
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F	25,127.2	13,167.3	351.9	251.9	3.521	CC, ES
CAVE LION 5 FEDERAL BC 1H (MRO) - CAVE LION 5 F	25,200.0	13,101.6	352.9	252.3	3.507	SF
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,278.4	13,228.7	166.9	65.4	1.645	Caution - Monitor Closely, CC
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,300.0	13,209.9	167.1	65.4	1.643	Caution - Monitor Closely, ES, SF
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	24,900.0	13,606.4	163.9	59.6	1.572	Caution - Monitor Closely, ES, SF
CAVE LION 5 FEDERAL WC 5H (MRO) - CAVE LION 5	25,056.7	13,451.0	162.8	60.2	1.586	Caution - Monitor Closely, CC

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well_BOATER FED COM 801H - Slot BOATER FED COM 801H
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 801H	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						
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	21,117.3	12,635.9	948.9	841.7	8.846 CC, ES	
CHARLIE MURPHY 6 WXY FC 18H (MRO) - CHARLIE M	21,700.0	13,199.4	992.6	877.0	8.583 SF	
GREEN BERET FEDERAL PROJECT (BULLDOG 2535)						
GREEN BERET FED COM #603H - OWB - AWP						Out of range
GREEN BERET FED COM #703H - OWB - AWP						Out of range
GREEN BERET FED COM #704H - OWB - AWP						Out of range
GREEN BERET FED COM #705H - OWB - AWP	12,725.0	19,871.9	334.6	250.8	3.993 SF	
GREEN BERET FED COM #705H - OWB - AWP	12,731.1	19,875.1	334.6	250.8	3.993 CC, ES	
GREEN BERET FED COM #802H - OWB - AWP	12,950.0	20,493.0	724.1	634.8	8.108 ES, SF	
GREEN BERET FED COM #802H - OWB - AWP	12,952.1	20,493.0	724.1	634.8	8.109 CC	
PITCHBLENDE FEDERAL PROJECT						
PITCHBLENDE 19 30 FEDERAL #208H - OWB - AWP						Out of range
PITCHBLENDE 19 30 FEDERAL #358H - OWB - AWP	12,448.3	19,726.6	666.6	570.7	6.951 CC, ES, SF	
PITCHBLENDE 19 30 FEDERAL #38H - OWB - AWP						Out of range
PITCHBLENDE 19 30 FEDERAL #457H - OWB - AWP						Out of range
SQUARE BILL FED COM #1H - OWB - AWP						Out of range
SQUARE BILL FED COM #21Y - OWB - AWP	17,820.1	15,397.0	639.8	567.5	8.859 CC, ES	
SQUARE BILL FED COM #21Y - OWB - AWP	20,400.0	12,887.2	689.5	591.1	7.004 SF	
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
														Offset Well Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.63	0.2	29.7	29.7					
100.0	100.0	100.0	100.0	0.8	0.8	89.63	0.2	29.7	29.7	27.7	1.99	14.925		
200.0	200.0	200.0	200.0	1.4	1.4	89.63	0.2	29.7	29.7	26.4	3.31	8.974		
300.0	300.0	300.0	300.0	1.9	1.9	89.63	0.2	29.7	29.7	25.5	4.20	7.084		
400.0	400.0	400.0	400.0	2.2	2.2	89.63	0.2	29.7	29.7	24.8	4.91	6.050		
500.0	500.0	500.0	500.0	2.6	2.6	89.63	0.2	29.7	29.7	24.2	5.53	5.371		
600.0	600.0	600.0	600.0	2.8	2.8	89.63	0.2	29.7	29.7	23.6	6.09	4.880		
700.0	700.0	700.0	700.0	3.1	3.1	89.63	0.2	29.7	29.7	23.1	6.60	4.502		
800.0	800.0	800.0	800.0	3.3	3.3	89.63	0.2	29.7	29.7	22.6	7.08	4.200		
900.0	900.0	900.0	900.0	3.6	3.6	89.63	0.2	29.7	29.7	22.2	7.52	3.950		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.63	0.2	29.7	29.7	21.8	7.95	3.739		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.63	0.2	29.7	29.7	21.4	8.35	3.558		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.63	0.2	29.7	29.7	21.0	8.74	3.401		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.63	0.2	29.7	29.7	20.6	9.11	3.261		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.63	0.2	29.7	29.7	20.2	9.47	3.137		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.63	0.2	29.7	29.7	19.9	9.82	3.026		

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.63	0.2	29.7	29.7	19.6	10.16	2.924	Normal Operations		
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.63	0.2	29.7	29.7	19.2	10.49	2.832	Normal Operations		
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.63	0.2	29.7	29.7	18.9	10.82	2.748	Normal Operations		
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.63	0.2	29.7	29.7	18.6	11.13	2.670	Normal Operations		
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.63	0.2	29.7	29.7	18.3	11.44	2.598	Normal Operations		
2,100.0	2,100.0	2,101.0	2,101.0	5.8	5.8	178.74	0.2	27.9	29.7	17.8	11.89	2.498	Caution - Monitor Closely		
2,200.0	2,199.8	2,202.1	2,201.9	6.0	6.0	178.65	0.4	22.6	29.6	17.3	12.31	2.408	Caution - Monitor Closely		
2,300.0	2,299.5	2,303.1	2,302.6	6.2	6.3	178.50	0.6	13.7	29.6	16.8	12.74	2.321	Caution - Monitor Closely		
2,400.0	2,398.7	2,404.2	2,402.8	6.4	6.5	178.29	0.9	1.3	29.4	16.3	13.17	2.235	Caution - Monitor Closely		
2,500.0	2,497.5	2,505.2	2,502.6	6.6	6.8	178.03	1.2	-14.7	29.3	15.7	13.62	2.150	Caution - Monitor Closely		
2,600.0	2,595.6	2,606.2	2,601.7	6.8	7.1	177.69	1.7	-34.2	29.1	15.0	14.07	2.066	Caution - Monitor Closely		
2,651.2	2,645.6	2,657.9	2,652.1	6.9	7.2	177.50	1.9	-45.5	29.0	14.7	14.26	2.032	Caution - Monitor Closely, CC, ES		
2,700.0	2,693.1	2,706.7	2,699.7	7.0	7.3	177.36	2.2	-56.5	29.4	14.9	14.47	2.031	Caution - Monitor Closely, SF		
2,800.0	2,789.6	2,806.6	2,797.0	7.2	7.6	177.31	2.7	-79.0	32.8	17.9	14.97	2.193	Caution - Monitor Closely		
2,900.0	2,885.3	2,906.4	2,894.2	7.4	7.9	177.50	3.3	-101.5	39.8	24.3	15.50	2.566	Normal Operations		
2,963.5	2,945.4	2,969.5	2,955.8	7.5	8.1	177.68	3.6	-115.7	46.0	30.2	15.79	2.911	Normal Operations		
3,000.0	2,979.9	3,005.9	2,991.1	7.6	8.2	177.79	3.8	-123.9	49.9	34.0	15.94	3.132			
3,100.0	3,074.3	3,105.3	3,088.0	7.7	8.6	178.01	4.3	-146.3	60.8	44.4	16.45	3.697			
3,200.0	3,168.7	3,204.7	3,184.8	7.8	8.9	178.16	4.8	-168.7	71.7	54.7	16.97	4.223			
3,300.0	3,263.1	3,304.1	3,281.7	8.0	9.3	178.27	5.3	-191.1	82.5	65.0	17.52	4.712			
3,400.0	3,357.5	3,403.5	3,378.5	8.2	9.6	178.36	5.9	-213.5	93.4	75.3	18.08	5.168			
3,500.0	3,451.9	3,502.9	3,475.4	8.3	10.0	178.43	6.4	-235.9	104.3	85.6	18.65	5.591			
3,600.0	3,546.3	3,602.3	3,572.2	8.5	10.4	178.48	6.9	-258.3	115.2	95.9	19.24	5.984			
3,700.0	3,640.7	3,701.7	3,669.1	8.7	10.8	178.53	7.4	-280.7	126.0	106.2	19.85	6.350			
3,800.0	3,735.1	3,801.1	3,765.9	8.8	11.2	178.57	8.0	-303.1	136.9	116.4	20.46	6.690			
3,900.0	3,829.5	3,900.5	3,862.8	9.0	11.6	178.60	8.5	-325.5	147.8	126.7	21.09	7.007			
4,000.0	3,923.9	3,999.9	3,959.6	9.2	12.0	178.63	9.0	-347.9	158.6	136.9	21.72	7.302			
4,100.0	4,018.3	4,099.3	4,056.5	9.4	12.4	178.65	9.5	-370.4	169.5	147.1	22.37	7.578			
4,200.0	4,112.7	4,198.8	4,153.3	9.6	12.8	178.68	10.1	-392.8	180.4	157.4	23.02	7.835			
4,300.0	4,207.1	4,298.2	4,250.2	9.8	13.3	178.70	10.6	-415.2	191.3	167.6	23.68	8.076			
4,400.0	4,301.5	4,397.6	4,347.0	10.0	13.7	178.71	11.1	-437.6	202.1	177.8	24.35	8.301			
4,500.0	4,395.9	4,497.0	4,443.9	10.3	14.1	178.73	11.6	-460.0	213.0	188.0	25.02	8.512			
4,600.0	4,490.3	4,596.4	4,540.7	10.5	14.6	178.74	12.1	-482.4	223.9	198.2	25.70	8.710			
4,700.0	4,584.7	4,695.8	4,637.6	10.7	15.0	178.75	12.7	-504.8	234.7	208.4	26.39	8.896			
4,726.0	4,609.2	4,721.6	4,662.7	10.8	15.1	178.76	12.8	-510.6	237.6	211.0	26.55	8.946			
4,800.0	4,679.2	4,795.2	4,734.5	11.0	15.4	178.77	13.2	-527.2	245.1	218.1	27.05	9.061			
4,900.0	4,774.3	4,894.9	4,831.5	11.2	15.9	178.77	13.7	-549.7	253.9	226.1	27.75	9.149			
5,000.0	4,869.9	4,994.6	4,928.7	11.4	16.3	178.76	14.2	-572.1	260.8	232.4	28.44	9.170			
5,100.0	4,966.0	5,094.5	5,026.0	11.7	16.8	178.75	14.8	-594.6	266.1	236.9	29.14	9.130			
5,200.0	5,062.6	5,194.4	5,123.3	11.9	17.2	178.72	15.3	-617.2	269.6	239.7	29.84	9.033			
5,300.0	5,159.6	5,293.8	5,220.2	12.1	17.7	178.69	15.8	-639.6	271.3	240.8	30.53	8.888			
5,400.0	5,257.0	5,389.3	5,313.4	12.3	18.1	178.66	16.3	-660.1	272.4	241.2	31.21	8.728			
5,500.0	5,354.8	5,484.7	5,407.0	12.5	18.5	178.63	16.7	-679.1	273.3	241.5	31.87	8.578			
5,600.0	5,453.0	5,580.2	5,500.8	12.7	19.0	178.61	17.1	-696.5	274.2	241.7	32.51	8.436			
5,700.0	5,551.5	5,675.6	5,594.9	12.9	19.4	178.59	17.5	-712.4	275.1	241.9	33.13	8.303			
5,800.0	5,650.2	5,771.0	5,689.2	13.0	19.8	178.56	17.8	-726.6	275.8	242.1	33.73	8.177			
5,900.0	5,749.2	5,866.4	5,783.8	13.2	20.2	178.55	18.1	-739.4	276.4	242.1	34.30	8.059			
6,000.0	5,848.5	5,961.8	5,878.5	13.3	20.6	178.53	18.4	-750.5	277.0	242.1	34.86	7.947			
6,100.0	5,947.9	6,057.2	5,973.4	13.5	20.9	178.52	18.6	-760.0	277.5	242.1	35.38	7.843			
6,200.0	6,047.6	6,152.6	6,068.5	13.6	21.3	178.50	18.8	-768.0	277.9	242.0	35.88	7.746			
6,300.0	6,147.3	6,247.9	6,163.6	13.8	21.6	178.50	19.0	-774.4	278.2	241.9	36.34	7.656			

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
6,400.0	6,247.2	6,343.3	6,258.9	13.9	21.9	178.49	19.1	-779.2	278.5	241.7	36.77	7.574			
6,500.0	6,347.1	6,438.7	6,354.2	14.0	22.2	178.48	19.2	-782.4	278.6	241.5	37.15	7.501			
6,600.0	6,447.1	6,534.0	6,449.5	14.2	22.5	178.48	19.2	-784.1	278.7	241.3	37.43	7.447			
6,652.9	6,500.0	6,584.5	6,500.0	14.2	22.5	89.34	19.2	-784.3	278.7	241.2	37.49	7.435			
6,700.0	6,547.1	6,631.6	6,547.1	14.2	22.5	89.34	19.2	-784.3	278.7	241.2	37.52	7.429			
6,800.0	6,647.1	6,731.6	6,647.1	14.3	22.6	89.34	19.2	-784.3	278.7	241.1	37.62	7.409			
6,900.0	6,747.1	6,831.6	6,747.1	14.3	22.6	89.34	19.2	-784.3	278.7	241.0	37.71	7.391			
7,000.0	6,847.1	6,931.6	6,847.1	14.4	22.7	89.34	19.2	-784.3	278.7	240.9	37.81	7.373			
7,100.0	6,947.1	7,031.6	6,947.1	14.5	22.7	89.34	19.2	-784.3	278.7	240.8	37.90	7.354			
7,200.0	7,047.1	7,131.6	7,047.1	14.5	22.7	89.34	19.2	-784.3	278.7	240.7	37.99	7.336			
7,300.0	7,147.1	7,231.6	7,147.1	14.6	22.8	89.34	19.2	-784.3	278.7	240.6	38.09	7.318			
7,400.0	7,247.1	7,331.6	7,247.1	14.7	22.8	89.34	19.2	-784.3	278.7	240.6	38.18	7.300			
7,500.0	7,347.1	7,431.6	7,347.1	14.7	22.9	89.34	19.2	-784.3	278.7	240.5	38.28	7.282			
7,600.0	7,447.1	7,531.6	7,447.1	14.8	22.9	89.34	19.2	-784.3	278.7	240.4	38.38	7.263			
7,700.0	7,547.1	7,631.6	7,547.1	14.9	22.9	89.34	19.2	-784.3	278.7	240.3	38.47	7.245			
7,800.0	7,647.1	7,731.6	7,647.1	14.9	23.0	89.34	19.2	-784.3	278.7	240.2	38.57	7.227			
7,900.0	7,747.1	7,831.6	7,747.1	15.0	23.0	89.34	19.2	-784.3	278.7	240.1	38.67	7.209			
8,000.0	7,847.1	7,931.6	7,847.1	15.1	23.1	89.34	19.2	-784.3	278.7	240.0	38.76	7.191			
8,100.0	7,947.1	8,031.6	7,947.1	15.1	23.1	89.34	19.2	-784.3	278.7	239.9	38.86	7.173			
8,200.0	8,047.1	8,131.6	8,047.1	15.2	23.2	89.34	19.2	-784.3	278.7	239.8	38.96	7.155			
8,300.0	8,147.1	8,231.6	8,147.1	15.3	23.2	89.34	19.2	-784.3	278.7	239.7	39.06	7.137			
8,400.0	8,247.1	8,331.6	8,247.1	15.3	23.2	89.34	19.2	-784.3	278.7	239.6	39.16	7.118			
8,500.0	8,347.1	8,431.6	8,347.1	15.4	23.3	89.34	19.2	-784.3	278.7	239.5	39.26	7.100			
8,600.0	8,447.1	8,531.6	8,447.1	15.5	23.3	89.34	19.2	-784.3	278.7	239.4	39.36	7.082			
8,700.0	8,547.1	8,631.6	8,547.1	15.5	23.4	89.34	19.2	-784.3	278.7	239.3	39.46	7.064			
8,800.0	8,647.1	8,731.6	8,647.1	15.6	23.4	89.34	19.2	-784.3	278.7	239.2	39.56	7.046			
8,900.0	8,747.1	8,831.6	8,747.1	15.7	23.5	89.34	19.2	-784.3	278.7	239.1	39.66	7.028			
9,000.0	8,847.1	8,931.6	8,847.1	15.7	23.5	89.34	19.2	-784.3	278.7	239.0	39.76	7.010			
9,100.0	8,947.1	9,031.6	8,947.1	15.8	23.5	89.34	19.2	-784.3	278.7	238.9	39.86	6.992			
9,200.0	9,047.1	9,131.6	9,047.1	15.9	23.6	89.34	19.2	-784.3	278.7	238.8	39.97	6.974			
9,300.0	9,147.1	9,231.6	9,147.1	15.9	23.6	89.34	19.2	-784.3	278.7	238.7	40.07	6.957			
9,400.0	9,247.1	9,331.6	9,247.1	16.0	23.7	89.34	19.2	-784.3	278.7	238.6	40.17	6.939			
9,500.0	9,347.1	9,431.6	9,347.1	16.1	23.7	89.34	19.2	-784.3	278.7	238.5	40.27	6.921			
9,600.0	9,447.1	9,531.6	9,447.1	16.1	23.8	89.34	19.2	-784.3	278.7	238.4	40.38	6.903			
9,700.0	9,547.1	9,631.6	9,547.1	16.2	23.8	89.34	19.2	-784.3	278.7	238.3	40.48	6.885			
9,800.0	9,647.1	9,731.6	9,647.1	16.3	23.9	89.34	19.2	-784.3	278.7	238.1	40.59	6.867			
9,900.0	9,747.1	9,831.6	9,747.1	16.3	23.9	89.34	19.2	-784.3	278.7	238.0	40.69	6.850			
10,000.0	9,847.1	9,931.6	9,847.1	16.4	23.9	89.34	19.2	-784.3	278.7	237.9	40.80	6.832			
10,100.0	9,947.1	10,031.6	9,947.1	16.5	24.0	89.34	19.2	-784.3	278.7	237.8	40.90	6.814			
10,200.0	10,047.1	10,131.6	10,047.1	16.6	24.0	89.34	19.2	-784.3	278.7	237.7	41.01	6.797			
10,300.0	10,147.1	10,231.6	10,147.1	16.6	24.1	89.34	19.2	-784.3	278.7	237.6	41.12	6.779			
10,400.0	10,247.1	10,331.6	10,247.1	16.7	24.1	89.34	19.2	-784.3	278.7	237.5	41.22	6.762			
10,500.0	10,347.1	10,431.6	10,347.1	16.8	24.2	89.34	19.2	-784.3	278.7	237.4	41.33	6.744			
10,600.0	10,447.1	10,531.6	10,447.1	16.8	24.2	89.34	19.2	-784.3	278.7	237.3	41.44	6.726			
10,700.0	10,547.1	10,631.6	10,547.1	16.9	24.3	89.34	19.2	-784.3	278.7	237.2	41.55	6.709			
10,800.0	10,647.1	10,731.6	10,647.1	17.0	24.3	89.34	19.2	-784.3	278.7	237.1	41.65	6.692			
10,900.0	10,747.1	10,831.6	10,747.1	17.1	24.4	89.34	19.2	-784.3	278.7	237.0	41.76	6.674			
11,000.0	10,847.1	10,931.6	10,847.1	17.1	24.4	89.34	19.2	-784.3	278.7	236.9	41.87	6.657			
11,100.0	10,947.1	11,031.6	10,947.1	17.2	24.5	89.34	19.2	-784.3	278.7	236.8	41.98	6.639			
11,200.0	11,047.1	11,131.6	11,047.1	17.3	24.5	89.34	19.2	-784.3	278.7	236.6	42.09	6.622			

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
11,300.0	11,147.1	11,231.6	11,147.1	17.4	24.6	89.34	19.2	-784.3	278.7	236.5	42.20	6.605			
11,400.0	11,247.1	11,331.6	11,247.1	17.4	24.6	89.34	19.2	-784.3	278.7	236.4	42.31	6.588			
11,500.0	11,347.1	11,431.6	11,347.1	17.5	24.7	89.34	19.2	-784.3	278.7	236.3	42.42	6.570			
11,600.0	11,447.1	11,531.6	11,447.1	17.6	24.7	89.34	19.2	-784.3	278.7	236.2	42.53	6.553			
11,700.0	11,547.1	11,631.6	11,547.1	17.6	24.8	89.34	19.2	-784.3	278.7	236.1	42.64	6.536			
11,800.0	11,647.1	11,731.6	11,647.1	17.7	24.8	89.34	19.2	-784.3	278.7	236.0	42.76	6.519			
11,900.0	11,747.1	11,831.6	11,747.1	17.8	24.9	89.34	19.2	-784.3	278.7	235.9	42.87	6.502			
12,000.0	11,847.1	11,931.6	11,847.1	17.9	24.9	89.34	19.2	-784.3	278.7	235.8	42.98	6.485			
12,076.9	11,923.9	12,008.5	11,923.9	17.9	24.9	89.44	18.7	-784.3	278.7	235.7	43.05	6.475			
12,100.0	11,947.1	12,031.5	11,946.9	17.9	24.9	89.77	17.1	-784.3	278.7	235.7	43.06	6.473			
12,200.0	12,047.1	12,127.5	12,041.0	18.0	24.9	93.56	-1.3	-784.1	279.5	236.5	43.04	6.495			
12,300.0	12,147.1	12,213.2	12,120.4	18.1	24.9	100.03	-33.4	-783.8	284.8	242.1	42.75	6.662			
12,400.0	12,247.1	12,285.7	12,182.1	18.2	24.9	107.33	-71.2	-783.4	300.0	257.6	42.42	7.072			
12,425.4	12,272.5	12,300.0	12,193.5	18.2	24.9	108.90	-79.8	-783.3	306.0	263.5	42.44	7.209			
12,450.0	12,297.1	12,317.3	12,207.1	18.2	24.9	-67.90	-90.6	-783.2	312.4	270.0	42.42	7.365			
12,475.0	12,322.0	12,332.7	12,218.8	18.2	24.9	-65.53	-100.6	-783.1	319.3	276.9	42.48	7.518			
12,500.0	12,346.8	12,350.0	12,231.5	18.2	24.9	-63.06	-112.3	-783.0	326.6	284.0	42.53	7.679			
12,525.0	12,371.4	12,363.1	12,240.9	18.2	24.9	-61.06	-121.4	-782.9	334.0	291.3	42.75	7.813			
12,550.0	12,395.7	12,375.0	12,249.2	18.2	24.9	-59.24	-130.0	-782.8	341.6	298.6	43.06	7.934			
12,575.0	12,419.6	12,393.1	12,261.4	18.2	24.9	-57.01	-143.4	-782.7	349.3	306.1	43.21	8.084			
12,600.0	12,443.2	12,408.0	12,271.0	18.2	24.9	-55.15	-154.7	-782.6	357.0	313.5	43.49	8.209			
12,625.0	12,466.3	12,425.0	12,281.6	18.2	24.9	-53.25	-168.0	-782.5	364.7	321.0	43.73	8.340			
12,650.0	12,488.9	12,437.5	12,289.1	18.2	24.9	-51.74	-178.0	-782.4	372.3	328.2	44.15	8.433			
12,675.0	12,510.9	12,450.0	12,296.3	18.2	24.9	-50.31	-188.2	-782.3	379.8	335.2	44.58	8.520			
12,700.0	12,532.2	12,466.7	12,305.5	18.2	24.9	-48.76	-202.2	-782.1	387.1	342.2	44.88	8.625			
12,725.0	12,552.8	12,481.2	12,313.1	18.2	24.9	-47.43	-214.5	-782.0	394.2	349.0	45.26	8.710			
12,750.0	12,572.7	12,500.0	12,322.3	18.2	24.9	-46.02	-230.9	-781.8	401.1	355.6	45.51	8.814			
12,775.0	12,591.7	12,510.1	12,327.1	18.2	24.9	-45.05	-239.8	-781.8	407.7	361.7	46.03	8.857			
12,800.0	12,609.8	12,525.0	12,333.7	18.2	24.9	-43.98	-253.1	-781.6	414.1	367.7	46.40	8.924			
12,825.0	12,627.0	12,538.8	12,339.4	18.2	24.9	-43.03	-265.7	-781.5	420.1	373.3	46.79	8.978			
12,850.0	12,643.3	12,550.0	12,343.8	18.3	24.9	-42.23	-276.0	-781.4	425.8	378.6	47.24	9.013			
12,875.0	12,658.5	12,567.4	12,350.1	18.3	25.0	-41.34	-292.2	-781.3	431.1	383.6	47.51	9.074			
12,900.0	12,672.7	12,581.6	12,354.9	18.3	25.0	-40.62	-305.6	-781.1	436.1	388.2	47.85	9.114			
12,925.0	12,685.8	12,600.0	12,360.4	18.3	25.0	-39.88	-323.1	-781.0	440.7	392.6	48.07	9.168			
12,950.0	12,697.7	12,610.0	12,363.2	18.3	25.0	-39.38	-332.7	-780.9	444.9	396.4	48.47	9.179			
12,975.0	12,708.5	12,625.0	12,366.9	18.4	25.0	-38.86	-347.3	-780.7	448.6	399.9	48.73	9.207			
13,000.0	12,718.1	12,638.3	12,369.8	18.4	25.0	-38.42	-360.3	-780.6	452.0	403.0	49.00	9.224			
13,025.0	12,726.5	12,650.0	12,372.1	18.4	25.0	-38.06	-371.7	-780.5	454.9	405.7	49.27	9.233			
13,050.0	12,733.6	12,666.6	12,374.8	18.5	25.1	-37.71	-388.1	-780.3	457.4	408.0	49.44	9.252			
13,075.0	12,739.4	12,680.7	12,376.6	18.5	25.1	-37.45	-402.1	-780.2	459.5	409.9	49.62	9.260			
13,100.0	12,744.0	12,700.0	12,378.5	18.6	25.1	-37.22	-421.3	-780.0	461.1	411.4	49.71	9.276			
13,125.0	12,747.3	12,708.9	12,379.1	18.6	25.1	-37.10	-430.1	-779.9	462.2	412.3	49.90	9.264			
13,150.0	12,749.3	12,725.0	12,379.8	18.6	25.1	-37.01	-446.2	-779.8	462.9	413.0	49.98	9.263			
13,175.4	12,750.0	12,737.5	12,380.0	18.7	25.1	-36.98	-458.7	-779.6	463.2	413.1	50.06	9.253			
13,200.0	12,750.0	12,762.1	12,380.0	18.7	25.2	-36.98	-483.3	-779.4	463.2	413.1	50.04	9.256			
13,300.0	12,750.0	12,862.1	12,380.0	19.0	25.3	-36.98	-583.3	-778.4	463.2	413.1	50.02	9.260			
13,400.0	12,750.0	12,962.1	12,380.0	19.2	25.5	-36.98	-683.3	-777.4	463.1	413.1	50.04	9.255			
13,500.0	12,750.0	13,062.1	12,380.0	19.5	25.8	-36.97	-783.3	-776.5	463.1	413.0	50.11	9.243			
13,600.0	12,750.0	13,162.1	12,380.0	19.9	26.1	-36.97	-883.3	-775.5	463.1	412.9	50.22	9.223			
13,700.0	12,750.0	13,262.1	12,380.0	20.2	26.4	-36.97	-983.3	-774.5	463.1	412.7	50.37	9.194			
13,800.0	12,750.0	13,362.1	12,380.0	20.6	26.7	-36.97	-1,083.3	-773.6	463.1	412.5	50.57	9.158			

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
13,900.0	12,750.0	13,462.1	12,380.0	21.0	27.1	-36.97	-1,183.3	-772.6	463.1	412.3	50.81	9.114			
14,000.0	12,750.0	13,562.1	12,380.0	21.4	27.5	-36.96	-1,283.3	-771.6	463.1	412.0	51.09	9.064			
14,100.0	12,750.0	13,662.1	12,380.0	21.9	27.9	-36.96	-1,383.3	-770.6	463.1	411.6	51.41	9.006			
14,200.0	12,750.0	13,762.1	12,380.0	22.3	28.4	-36.96	-1,483.3	-769.7	463.0	411.3	51.78	8.943			
14,300.0	12,750.0	13,862.1	12,380.0	22.8	28.9	-36.96	-1,583.3	-768.7	463.0	410.8	52.18	8.873			
14,400.0	12,750.0	13,962.1	12,380.0	23.4	29.4	-36.95	-1,683.3	-767.7	463.0	410.4	52.63	8.798			
14,500.0	12,750.0	14,062.1	12,380.0	23.9	29.9	-36.95	-1,783.3	-766.7	463.0	409.9	53.11	8.718			
14,600.0	12,750.0	14,162.1	12,380.0	24.4	30.5	-36.95	-1,883.2	-765.8	463.0	409.4	53.63	8.633			
14,700.0	12,750.0	14,262.1	12,380.0	25.0	31.0	-36.95	-1,983.2	-764.8	463.0	408.8	54.18	8.544			
14,800.0	12,750.0	14,362.1	12,380.0	25.6	31.6	-36.95	-2,083.2	-763.8	463.0	408.2	54.77	8.452			
14,900.0	12,750.0	14,462.1	12,380.0	26.2	32.2	-36.94	-2,183.2	-762.9	462.9	407.5	55.40	8.357			
15,000.0	12,750.0	14,562.1	12,380.0	26.8	32.9	-36.94	-2,283.2	-761.9	462.9	406.9	56.05	8.259			
15,100.0	12,750.0	14,662.1	12,380.0	27.4	33.5	-36.94	-2,383.2	-760.9	462.9	406.2	56.74	8.159			
15,200.0	12,750.0	14,762.1	12,380.0	28.0	34.2	-36.94	-2,483.2	-759.9	462.9	405.4	57.46	8.056			
15,300.0	12,750.0	14,862.1	12,380.0	28.7	34.8	-36.93	-2,583.2	-759.0	462.9	404.7	58.20	7.953			
15,400.0	12,750.0	14,962.1	12,380.0	29.3	35.5	-36.93	-2,683.2	-758.0	462.9	403.9	58.98	7.848			
15,500.0	12,750.0	15,062.1	12,380.0	30.0	36.2	-36.93	-2,783.2	-757.0	462.9	403.1	59.78	7.743			
15,600.0	12,750.0	15,162.1	12,380.0	30.7	36.9	-36.93	-2,883.2	-756.0	462.8	402.2	60.61	7.637			
15,700.0	12,750.0	15,262.1	12,380.0	31.4	37.7	-36.93	-2,983.2	-755.1	462.8	401.4	61.46	7.530			
15,800.0	12,750.0	15,362.1	12,380.0	32.1	38.4	-36.92	-3,083.2	-754.1	462.8	400.5	62.34	7.424			
15,900.0	12,750.0	15,462.1	12,380.0	32.8	39.1	-36.92	-3,183.2	-753.1	462.8	399.6	63.24	7.319			
16,000.0	12,750.0	15,562.1	12,380.0	33.5	39.9	-36.92	-3,283.2	-752.2	462.8	398.6	64.16	7.213			
16,100.0	12,750.0	15,662.1	12,380.0	34.2	40.7	-36.92	-3,383.2	-751.2	462.8	397.7	65.10	7.109			
16,200.0	12,750.0	15,762.1	12,380.0	34.9	41.4	-36.91	-3,483.2	-750.2	462.8	396.7	66.06	7.005			
16,300.0	12,750.0	15,862.1	12,380.0	35.6	42.2	-36.91	-3,583.2	-749.2	462.7	395.7	67.04	6.903			
16,400.0	12,750.0	15,962.1	12,380.0	36.4	43.0	-36.91	-3,683.2	-748.3	462.7	394.7	68.04	6.801			
16,500.0	12,750.0	16,062.1	12,380.0	37.1	43.8	-36.91	-3,783.2	-747.3	462.7	393.7	69.06	6.701			
16,600.0	12,750.0	16,162.1	12,380.0	37.8	44.6	-36.91	-3,883.2	-746.3	462.7	392.6	70.09	6.602			
16,700.0	12,750.0	16,262.1	12,380.0	38.6	45.4	-36.90	-3,983.1	-745.3	462.7	391.6	71.14	6.504			
16,800.0	12,750.0	16,362.1	12,380.0	39.3	46.2	-36.90	-4,083.1	-744.4	462.7	390.5	72.20	6.408			
16,900.0	12,750.0	16,462.1	12,380.0	40.1	47.0	-36.90	-4,183.1	-743.4	462.7	389.4	73.28	6.314			
17,000.0	12,750.0	16,562.1	12,380.0	40.9	47.8	-36.90	-4,283.1	-742.4	462.7	388.3	74.37	6.221			
17,100.0	12,750.0	16,662.1	12,380.0	41.6	48.7	-36.89	-4,383.1	-741.5	462.6	387.2	75.48	6.129			
17,200.0	12,750.0	16,762.1	12,380.0	42.4	49.5	-36.89	-4,483.1	-740.5	462.6	386.0	76.60	6.040			
17,300.0	12,750.0	16,862.1	12,380.0	43.2	50.3	-36.89	-4,583.1	-739.5	462.6	384.9	77.73	5.952			
17,400.0	12,750.0	16,962.1	12,380.0	43.9	51.2	-36.89	-4,683.1	-738.5	462.6	383.7	78.87	5.865			
17,500.0	12,750.0	17,062.1	12,380.0	44.7	52.0	-36.89	-4,783.1	-737.6	462.6	382.6	80.03	5.780			
17,600.0	12,750.0	17,162.1	12,380.0	45.5	52.9	-36.88	-4,883.1	-736.6	462.6	381.4	81.19	5.697			
17,700.0	12,750.0	17,262.1	12,380.0	46.3	53.7	-36.88	-4,983.1	-735.6	462.6	380.2	82.36	5.616			
17,800.0	12,750.0	17,362.1	12,380.0	47.1	54.6	-36.88	-5,083.1	-734.6	462.5	379.0	83.55	5.536			
17,900.0	12,750.0	17,462.1	12,380.0	47.9	55.4	-36.88	-5,183.1	-733.7	462.5	377.8	84.74	5.458			
18,000.0	12,750.0	17,562.1	12,380.0	48.6	56.3	-36.87	-5,283.1	-732.7	462.5	376.6	85.95	5.381			
18,100.0	12,750.0	17,662.1	12,380.0	49.4	57.2	-36.87	-5,383.1	-731.7	462.5	375.3	87.16	5.307			
18,200.0	12,750.0	17,762.1	12,380.0	50.2	58.0	-36.87	-5,483.1	-730.8	462.5	374.1	88.38	5.233			
18,300.0	12,750.0	17,862.1	12,380.0	51.0	58.9	-36.87	-5,583.1	-729.8	462.5	372.9	89.60	5.161			
18,400.0	12,750.0	17,962.1	12,380.0	51.8	59.8	-36.87	-5,683.1	-728.8	462.5	371.6	90.84	5.091			
18,500.0	12,750.0	18,062.1	12,380.0	52.6	60.7	-36.86	-5,783.1	-727.8	462.4	370.4	92.08	5.022			
18,600.0	12,750.0	18,162.1	12,380.0	53.4	61.5	-36.86	-5,883.1	-726.9	462.4	369.1	93.33	4.955			
18,700.0	12,750.0	18,262.1	12,380.0	54.2	62.4	-36.86	-5,983.1	-725.9	462.4	367.8	94.59	4.889			
18,800.0	12,750.0	18,362.1	12,380.0	55.0	63.3	-36.86	-6,083.0	-724.9	462.4	366.6	95.85	4.824			

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
18,900.0	12,750.0	18,462.1	12,380.0	55.9	64.2	-36.85	-6,183.0	-723.9	462.4	365.3	97.12	4.761			
19,000.0	12,750.0	18,562.1	12,380.0	56.7	65.1	-36.85	-6,283.0	-723.0	462.4	364.0	98.39	4.699			
19,100.0	12,750.0	18,662.1	12,380.0	57.5	66.0	-36.85	-6,383.0	-722.0	462.4	362.7	99.67	4.639			
19,200.0	12,750.0	18,762.1	12,380.0	58.3	66.9	-36.85	-6,483.0	-721.0	462.4	361.4	100.96	4.580			
19,300.0	12,750.0	18,862.1	12,380.0	59.1	67.8	-36.85	-6,583.0	-720.1	462.3	360.1	102.25	4.522			
19,400.0	12,750.0	18,962.1	12,380.0	59.9	68.7	-36.84	-6,683.0	-719.1	462.3	358.8	103.55	4.465			
19,500.0	12,750.0	19,062.1	12,380.0	60.7	69.6	-36.84	-6,783.0	-718.1	462.3	357.5	104.85	4.409			
19,600.0	12,750.0	19,162.1	12,380.0	61.5	70.5	-36.84	-6,883.0	-717.1	462.3	356.1	106.15	4.355			
19,700.0	12,750.0	19,262.1	12,380.0	62.4	71.4	-36.84	-6,983.0	-716.2	462.3	354.8	107.46	4.302			
19,800.0	12,750.0	19,362.1	12,380.0	63.2	72.3	-36.83	-7,083.0	-715.2	462.3	353.5	108.78	4.250			
19,900.0	12,750.0	19,462.1	12,380.0	64.0	73.2	-36.83	-7,183.0	-714.2	462.3	352.2	110.10	4.199			
20,000.0	12,750.0	19,562.1	12,380.0	64.8	74.1	-36.83	-7,283.0	-713.2	462.2	350.8	111.42	4.149			
20,100.0	12,750.0	19,662.1	12,380.0	65.6	75.0	-36.83	-7,383.0	-712.3	462.2	349.5	112.75	4.100			
20,200.0	12,750.0	19,762.1	12,380.0	66.5	75.9	-36.83	-7,483.0	-711.3	462.2	348.1	114.08	4.052			
20,300.0	12,750.0	19,862.1	12,380.0	67.3	76.8	-36.82	-7,583.0	-710.3	462.2	346.8	115.41	4.005			
20,400.0	12,750.0	19,962.1	12,380.0	68.1	77.7	-36.82	-7,683.0	-709.4	462.2	345.4	116.75	3.959			
20,500.0	12,750.0	20,062.1	12,380.0	68.9	78.6	-36.82	-7,783.0	-708.4	462.2	344.1	118.09	3.914			
20,600.0	12,750.0	20,162.1	12,380.0	69.8	79.6	-36.82	-7,883.0	-707.4	462.2	342.7	119.43	3.870			
20,700.0	12,750.0	20,262.1	12,380.0	70.6	80.5	-36.81	-7,983.0	-706.4	462.1	341.4	120.78	3.826			
20,800.0	12,750.0	20,362.1	12,380.0	71.4	81.4	-36.81	-8,083.0	-705.5	462.1	340.0	122.13	3.784			
20,862.8	12,750.0	20,424.8	12,380.0	71.9	82.0	-36.81	-8,145.7	-704.9	462.1	339.1	122.98	3.758			
20,900.0	12,750.0	20,424.8	12,380.0	72.3	82.0	-36.81	-8,145.7	-704.9	463.6	340.4	123.20	3.763			
21,000.0	12,750.0	20,424.8	12,380.0	73.1	82.0	-36.81	-8,145.7	-704.9	482.1	361.3	120.73	3.993			
21,100.0	12,750.0	20,424.8	12,380.0	73.9	82.0	-36.81	-8,145.7	-704.9	519.4	404.5	114.98	4.517			
21,200.0	12,750.0	20,424.8	12,380.0	74.7	82.0	-36.81	-8,145.7	-704.9	572.1	464.3	107.81	5.306			
21,300.0	12,750.0	20,424.8	12,380.0	75.6	82.0	-36.81	-8,145.7	-704.9	636.1	535.5	100.61	6.323			
21,400.0	12,750.0	20,424.8	12,380.0	76.4	82.0	-36.81	-8,145.7	-704.9	708.6	614.5	94.12	7.529			
21,500.0	12,750.0	20,424.8	12,380.0	77.2	82.0	-36.81	-8,145.7	-704.9	787.1	698.6	88.55	8.889			
21,600.0	12,750.0	20,424.8	12,380.0	78.1	82.0	-36.81	-8,145.7	-704.9	870.1	786.2	83.90	10.370			
21,700.0	12,750.0	20,424.8	12,380.0	78.9	82.0	-36.81	-8,145.7	-704.9	956.3	876.2	80.06	11.945			

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 801H - Slot BOATER FED COM 801H
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 801H	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	89.61	0.8	119.7	119.7						
100.0	100.0	100.0	100.0	0.8	0.8	89.61	0.8	119.7	119.7	117.7	1.99	60.123			
200.0	200.0	200.0	200.0	1.4	1.4	89.61	0.8	119.7	119.7	116.4	3.31	36.152			
300.0	300.0	300.0	300.0	1.9	1.9	89.61	0.8	119.7	119.7	115.5	4.20	28.536			
400.0	400.0	400.0	400.0	2.2	2.2	89.61	0.8	119.7	119.7	114.8	4.91	24.373			
500.0	500.0	500.0	500.0	2.6	2.6	89.61	0.8	119.7	119.7	114.2	5.53	21.637			
600.0	600.0	600.0	600.0	2.8	2.8	89.61	0.8	119.7	119.7	113.6	6.09	19.657			
700.0	700.0	700.0	700.0	3.1	3.1	89.61	0.8	119.7	119.7	113.1	6.60	18.136			
800.0	800.0	800.0	800.0	3.3	3.3	89.61	0.8	119.7	119.7	112.6	7.08	16.918			
900.0	900.0	900.0	900.0	3.6	3.6	89.61	0.8	119.7	119.7	112.2	7.52	15.912			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.61	0.8	119.7	119.7	111.8	7.95	15.064			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.61	0.8	119.7	119.7	111.4	8.35	14.335			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.61	0.8	119.7	119.7	111.0	8.74	13.699			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.61	0.8	119.7	119.7	110.6	9.11	13.138			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.61	0.8	119.7	119.7	110.2	9.47	12.638			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.61	0.8	119.7	119.7	109.9	9.82	12.188			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.61	0.8	119.7	119.7	109.6	10.16	11.781			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.61	0.8	119.7	119.7	109.2	10.49	11.409			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.61	0.8	119.7	119.7	108.9	10.82	11.069			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.61	0.8	119.7	119.7	108.6	11.13	10.756			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.61	0.8	119.7	119.7	108.3	11.44	10.465 CC, ES			
2,100.0	2,100.0	2,095.9	2,095.9	5.8	5.8	178.73	0.9	121.3	123.1	111.3	11.88	10.366 SF			
2,200.0	2,199.8	2,191.1	2,191.0	6.0	6.0	178.68	1.1	126.1	133.4	121.1	12.29	10.850			
2,300.0	2,299.5	2,285.0	2,284.5	6.2	6.2	178.62	1.5	133.9	150.3	137.6	12.70	11.834			
2,400.0	2,398.7	2,377.0	2,375.9	6.4	6.5	178.56	2.0	144.5	173.8	160.7	13.11	13.262			
2,500.0	2,497.5	2,470.0	2,467.9	6.6	6.7	178.50	2.7	157.7	203.3	189.9	13.48	15.087			
2,600.0	2,595.6	2,564.3	2,561.3	6.8	6.9	178.46	3.4	171.4	236.5	222.6	13.88	17.031			
2,700.0	2,693.1	2,657.5	2,653.4	7.0	7.1	178.45	4.0	184.9	272.9	258.6	14.30	19.076			
2,800.0	2,789.6	2,749.3	2,744.3	7.2	7.3	178.46	4.7	198.2	312.5	297.8	14.73	21.208			
2,900.0	2,885.3	2,839.6	2,833.7	7.4	7.6	178.47	5.3	211.3	355.3	340.1	15.17	23.417			
2,963.5	2,945.4	2,896.2	2,889.6	7.5	7.7	178.48	5.7	219.5	384.1	368.7	15.41	24.923			
3,000.0	2,979.9	2,928.6	2,921.7	7.6	7.8	178.49	6.0	224.2	401.0	385.5	15.54	25.806			
3,100.0	3,074.3	3,017.2	3,009.3	7.7	8.1	178.53	6.6	237.1	447.4	431.4	15.94	28.063			
3,200.0	3,168.7	3,105.8	3,097.0	7.8	8.4	178.56	7.2	249.9	493.7	477.3	16.36	30.181			
3,300.0	3,263.1	3,194.4	3,184.7	8.0	8.6	178.58	7.9	262.8	540.1	523.3	16.79	32.165			
3,400.0	3,357.5	3,283.0	3,272.4	8.2	8.9	178.60	8.5	275.7	586.4	569.2	17.24	34.022			
3,500.0	3,451.9	3,371.6	3,360.0	8.3	9.2	178.62	9.1	288.5	632.7	615.1	17.69	35.761			
3,600.0	3,546.3	3,460.2	3,447.7	8.5	9.5	178.64	9.8	301.4	679.1	660.9	18.16	37.389			
3,700.0	3,640.7	3,548.8	3,535.4	8.7	9.8	178.65	10.4	314.2	725.4	706.8	18.64	38.914			
3,800.0	3,735.1	3,637.5	3,623.0	8.8	10.2	178.66	11.0	327.1	771.8	752.7	19.13	40.342			
3,900.0	3,829.5	3,726.1	3,710.7	9.0	10.5	178.67	11.7	340.0	818.1	798.5	19.63	41.680			
4,000.0	3,923.9	3,814.7	3,798.4	9.2	10.8	178.68	12.3	352.8	864.5	844.4	20.14	42.933			
4,100.0	4,018.3	3,903.3	3,886.0	9.4	11.1	178.69	12.9	365.7	910.8	890.2	20.65	44.109			
4,200.0	4,112.7	3,991.9	3,973.7	9.6	11.5	178.70	13.6	378.5	957.2	936.0	21.17	45.212			

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 801H - Slot BOATER FED COM 801H
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 801H	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 (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	89.61	0.6	89.7	89.7						
100.0	100.0	100.0	100.0	0.8	0.8	0.8	89.61	0.6	89.7	89.7	87.7	1.99	45.057			
200.0	200.0	200.0	200.0	1.4	1.4	1.4	89.61	0.6	89.7	89.7	86.4	3.31	27.093			
300.0	300.0	300.0	300.0	1.9	1.9	1.9	89.61	0.6	89.7	89.7	85.5	4.20	21.385			
400.0	400.0	400.0	400.0	2.2	2.2	2.2	89.61	0.6	89.7	89.7	84.8	4.91	18.265			
500.0	500.0	500.0	500.0	2.6	2.6	2.6	89.61	0.6	89.7	89.7	84.2	5.53	16.215			
600.0	600.0	600.0	600.0	2.8	2.8	2.8	89.61	0.6	89.7	89.7	83.6	6.09	14.732			
700.0	700.0	700.0	700.0	3.1	3.1	3.1	89.61	0.6	89.7	89.7	83.1	6.60	13.591			
800.0	800.0	800.0	800.0	3.3	3.3	3.3	89.61	0.6	89.7	89.7	82.6	7.08	12.678			
900.0	900.0	900.0	900.0	3.6	3.6	3.6	89.61	0.6	89.7	89.7	82.2	7.52	11.925			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	3.8	89.61	0.6	89.7	89.7	81.8	7.95	11.289			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	4.0	89.61	0.6	89.7	89.7	81.4	8.35	10.743			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	4.2	89.61	0.6	89.7	89.7	81.0	8.74	10.266			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	4.4	89.61	0.6	89.7	89.7	80.6	9.11	9.846			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	4.6	89.61	0.6	89.7	89.7	80.2	9.47	9.471			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	4.7	89.61	0.6	89.7	89.7	79.9	9.82	9.134			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	4.9	89.61	0.6	89.7	89.7	79.6	10.16	8.829			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	5.1	89.61	0.6	89.7	89.7	79.2	10.49	8.550			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	5.2	89.61	0.6	89.7	89.7	78.9	10.82	8.295			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	5.4	89.61	0.6	89.7	89.7	78.6	11.13	8.060			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	5.6	89.61	0.6	89.7	89.7	78.3	11.44	7.843 CC, ES			
2,100.0	2,100.0	2,100.0	2,100.0	5.8	5.7	5.7	178.77	0.6	89.7	91.5	79.6	11.82	7.740 SF			
2,200.0	2,199.8	2,199.8	2,199.8	6.0	5.9	5.9	178.83	0.6	89.7	96.7	84.5	12.18	7.942			
2,300.0	2,299.5	2,299.5	2,299.5	6.2	6.0	6.0	178.93	0.6	89.7	105.4	92.9	12.53	8.413			
2,400.0	2,398.7	2,398.7	2,398.7	6.4	6.2	6.2	179.03	0.6	89.7	117.6	104.7	12.88	9.131			
2,500.0	2,497.5	2,497.5	2,497.5	6.6	6.3	6.3	179.14	0.6	89.7	133.2	120.0	13.22	10.076			
2,600.0	2,595.6	2,595.6	2,595.6	6.8	6.4	6.4	179.24	0.6	89.7	152.3	138.7	13.56	11.229			
2,700.0	2,693.1	2,693.1	2,693.1	7.0	6.6	6.6	179.34	0.6	89.7	174.8	160.9	13.90	12.575			
2,800.0	2,789.6	2,789.6	2,789.6	7.2	6.7	6.7	179.42	0.6	89.7	200.7	186.4	14.24	14.097			
2,900.0	2,885.3	2,885.3	2,885.3	7.4	6.8	6.8	179.49	0.6	89.7	229.9	215.4	14.57	15.784			
2,963.5	2,945.4	2,945.4	2,945.4	7.5	6.9	6.9	179.52	0.6	89.7	250.2	235.5	14.72	16.993			
3,000.0	2,979.9	2,979.9	2,979.9	7.6	7.0	7.0	179.55	0.6	89.7	262.3	247.5	14.80	17.719			
3,100.0	3,074.3	3,074.3	3,074.3	7.7	7.1	7.1	179.60	0.6	89.7	295.3	280.2	15.07	19.597			
3,200.0	3,168.7	3,168.7	3,168.7	7.8	7.2	7.2	179.64	0.6	89.7	328.3	312.9	15.34	21.404			
3,300.0	3,263.1	3,263.1	3,263.1	8.0	7.3	7.3	179.67	0.6	89.7	361.3	345.6	15.61	23.143			
3,400.0	3,357.5	3,357.5	3,357.5	8.2	7.4	7.4	179.70	0.6	89.7	394.3	378.4	15.89	24.816			
3,500.0	3,451.9	3,451.9	3,451.9	8.3	7.6	7.6	179.72	0.6	89.7	427.3	411.1	16.17	26.427			
3,600.0	3,546.3	3,546.3	3,546.3	8.5	7.7	7.7	179.74	0.6	89.7	460.3	443.8	16.45	27.976			
3,700.0	3,640.7	3,640.7	3,640.7	8.7	7.8	7.8	179.76	0.6	89.7	493.3	476.5	16.74	29.468			
3,800.0	3,735.1	3,735.1	3,735.1	8.8	7.9	7.9	179.77	0.6	89.7	526.3	509.2	17.03	30.903			
3,900.0	3,829.5	3,829.5	3,829.5	9.0	8.0	8.0	179.79	0.6	89.7	559.3	541.9	17.32	32.285			
4,000.0	3,923.9	3,923.9	3,923.9	9.2	8.1	8.1	179.80	0.6	89.7	592.3	574.6	17.62	33.616			
4,100.0	4,018.3	4,023.3	4,023.3	9.4	8.3	8.3	179.81	0.6	89.6	625.2	607.2	17.94	34.850			
4,200.0	4,112.7	4,145.5	4,145.4	9.6	8.5	8.5	179.76	1.3	86.1	655.4	637.1	18.34	35.740			
4,300.0	4,207.1	4,252.6	4,252.3	9.8	8.6	8.6	179.67	2.6	79.4	682.4	663.7	18.70	36.498			
4,400.0	4,301.5	4,348.9	4,348.4	10.0	8.8	8.8	179.59	3.8	73.0	709.1	690.1	19.03	37.267			
4,500.0	4,395.9	4,445.3	4,444.6	10.3	8.9	8.9	179.51	5.0	66.6	735.8	716.4	19.32	38.076			
4,600.0	4,490.3	4,541.7	4,540.7	10.5	9.0	9.0	179.44	6.3	60.3	762.4	742.8	19.62	38.852			
4,700.0	4,584.7	4,638.1	4,636.9	10.7	9.1	9.1	179.38	7.5	53.9	789.1	769.2	19.93	39.596			
4,726.0	4,609.2	4,663.1	4,661.9	10.8	9.1	9.1	179.36	7.8	52.2	796.1	776.1	20.00	39.810			
4,800.0	4,679.2	4,734.5	4,733.2	11.0	9.2	9.2	179.32	8.7	47.5	815.3	795.1	20.21	40.342			

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 801H - Slot BOATER FED COM 801H
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 801H	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)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,774.3	4,831.5	4,829.9	11.2	9.3	179.26	9.9	41.1	839.9	819.4	20.52	40.930	
5,000.0	4,869.9	4,928.8	4,927.0	11.4	9.4	179.20	11.2	34.7	862.8	842.0	20.83	41.416	
5,100.0	4,966.0	5,026.5	5,024.5	11.7	9.5	179.15	12.4	28.2	884.0	862.9	21.15	41.803	
5,200.0	5,062.6	5,124.6	5,122.4	11.9	9.6	179.10	13.6	21.7	903.5	882.0	21.46	42.097	
5,300.0	5,159.6	5,223.0	5,220.5	12.1	9.7	179.05	14.9	15.2	921.3	899.5	21.78	42.304	
5,400.0	5,257.0	5,321.7	5,319.0	12.3	9.8	178.99	16.1	8.7	937.3	915.2	22.09	42.426	
5,500.0	5,354.8	5,420.7	5,417.7	12.5	9.9	178.94	17.4	2.1	951.6	929.2	22.41	42.470	
5,600.0	5,453.0	5,519.9	5,516.7	12.7	10.0	178.89	18.7	-4.4	964.2	941.5	22.72	42.439	
5,700.0	5,551.5	5,619.3	5,615.9	12.9	10.1	178.83	19.9	-11.0	975.1	952.1	23.03	42.337	
5,800.0	5,650.2	5,717.8	5,714.2	13.0	10.3	178.78	21.2	-17.5	984.2	960.9	23.33	42.188	
5,900.0	5,749.2	5,800.0	5,796.2	13.2	10.3	178.74	22.1	-22.4	992.4	968.8	23.59	42.064	

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 801H - Slot BOATER FED COM 801H
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 801H	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 Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis 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)					
0.0	0.0	0.0	0.0	0.0	0.0	89.60	1.0	149.7	149.7						
100.0	100.0	100.0	100.0	0.8	0.8	89.60	1.0	149.7	149.7	147.7	1.99	75.189			
200.0	200.0	200.0	200.0	1.4	1.4	89.60	1.0	149.7	149.7	146.4	3.31	45.211			
300.0	300.0	300.0	300.0	1.9	1.9	89.60	1.0	149.7	149.7	145.5	4.20	35.687			
400.0	400.0	400.0	400.0	2.2	2.2	89.60	1.0	149.7	149.7	144.8	4.91	30.480			
500.0	500.0	500.0	500.0	2.6	2.6	89.60	1.0	149.7	149.7	144.2	5.53	27.059			
600.0	600.0	600.0	600.0	2.8	2.8	89.60	1.0	149.7	149.7	143.6	6.09	24.583			
700.0	700.0	700.0	700.0	3.1	3.1	89.60	1.0	149.7	149.7	143.1	6.60	22.681			
800.0	800.0	800.0	800.0	3.3	3.3	89.60	1.0	149.7	149.7	142.6	7.08	21.157			
900.0	900.0	900.0	900.0	3.6	3.6	89.60	1.0	149.7	149.7	142.2	7.52	19.900			
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.60	1.0	149.7	149.7	141.8	7.95	18.839			
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.60	1.0	149.7	149.7	141.4	8.35	17.927			
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.60	1.0	149.7	149.7	141.0	8.74	17.132			
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.60	1.0	149.7	149.7	140.6	9.11	16.430			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.60	1.0	149.7	149.7	140.2	9.47	15.804			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.60	1.0	149.7	149.7	139.9	9.82	15.242			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	89.60	1.0	149.7	149.7	139.6	10.16	14.733			
1,700.0	1,700.0	1,700.0	1,700.0	5.1	5.1	89.60	1.0	149.7	149.7	139.2	10.49	14.268			
1,800.0	1,800.0	1,800.0	1,800.0	5.2	5.2	89.60	1.0	149.7	149.7	138.9	10.82	13.843			
1,900.0	1,900.0	1,900.0	1,900.0	5.4	5.4	89.60	1.0	149.7	149.7	138.6	11.13	13.451			
2,000.0	2,000.0	2,000.0	2,000.0	5.6	5.6	89.60	1.0	149.7	149.7	138.3	11.44	13.088 CC, ES			
2,100.0	2,100.0	2,094.9	2,094.9	5.8	5.8	178.74	1.1	151.3	153.1	141.2	11.88	12.894 SF			
2,200.0	2,199.8	2,189.2	2,189.1	6.0	6.0	178.74	1.2	156.0	163.3	151.0	12.27	13.306			
2,300.0	2,299.5	2,282.2	2,281.7	6.2	6.2	178.75	1.4	163.6	180.2	167.5	12.65	14.242			
2,400.0	2,398.7	2,373.3	2,372.3	6.4	6.4	178.75	1.7	174.0	203.6	190.6	13.01	15.649			
2,500.0	2,497.5	2,462.0	2,460.0	6.6	6.5	178.75	2.0	186.9	233.4	220.1	13.35	17.481			
2,600.0	2,595.6	2,547.8	2,544.4	6.8	6.7	178.74	2.4	201.9	269.4	255.7	13.67	19.702			
2,700.0	2,693.1	2,633.7	2,628.6	7.0	7.0	178.74	2.9	219.3	311.1	297.0	14.11	22.049			
2,800.0	2,789.6	2,722.8	2,715.8	7.2	7.4	178.74	3.3	237.7	356.5	341.8	14.69	24.272			
2,900.0	2,885.3	2,810.3	2,801.4	7.4	7.5	178.75	3.8	255.9	404.9	389.9	14.99	27.015			
2,963.5	2,945.4	2,864.9	2,854.8	7.5	7.6	178.75	4.1	267.2	437.2	422.0	15.14	28.880			
3,000.0	2,979.9	2,896.2	2,885.4	7.6	7.6	178.76	4.3	273.7	456.1	440.9	15.21	29.982			
3,100.0	3,074.3	2,981.7	2,969.0	7.7	7.7	178.79	4.8	291.4	507.9	492.5	15.46	32.851			
3,200.0	3,168.7	3,067.2	3,052.7	7.8	7.8	178.82	5.2	309.1	559.8	544.1	15.72	35.612			
3,300.0	3,263.1	3,152.7	3,136.3	8.0	8.0	178.84	5.7	326.8	611.6	595.6	15.98	38.268			
3,400.0	3,357.5	3,238.2	3,220.0	8.2	8.1	178.85	6.2	344.6	663.5	647.2	16.25	40.820			
3,500.0	3,451.9	3,323.7	3,303.6	8.3	8.2	178.87	6.6	362.3	715.3	698.8	16.53	43.273			
3,600.0	3,546.3	3,409.3	3,387.3	8.5	8.3	178.88	7.1	380.0	767.2	750.3	16.81	45.628			
3,700.0	3,640.7	3,494.8	3,471.0	8.7	8.5	178.89	7.6	397.7	819.0	801.9	17.10	47.888			
3,800.0	3,735.1	3,580.3	3,554.6	8.8	8.6	178.90	8.0	415.4	870.8	853.4	17.40	50.057			
3,900.0	3,829.5	3,665.8	3,638.3	9.0	8.7	178.91	8.5	433.2	922.7	905.0	17.70	52.138			
4,000.0	3,923.9	3,751.3	3,721.9	9.2	8.9	178.92	9.0	450.9	974.5	956.5	18.00	54.135			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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	89.61	0.4	59.7	59.7						
100.0	100.0	100.0	100.0	0.8	0.8	89.61	0.4	59.7	59.7	57.7	1.99	29.991			
200.0	200.0	200.0	200.0	1.4	1.4	89.61	0.4	59.7	59.7	56.4	3.31	18.034			
300.0	300.0	300.0	300.0	1.9	1.9	89.61	0.4	59.7	59.7	55.5	4.20	14.235			
400.0	400.0	400.0	400.0	2.2	2.2	89.61	0.4	59.7	59.7	54.8	4.91	12.158			
500.0	500.0	500.0	500.0	2.6	2.6	89.61	0.4	59.7	59.7	54.2	5.53	10.793			
600.0	600.0	600.0	600.0	2.8	2.8	89.61	0.4	59.7	59.7	53.6	6.09	9.806			
700.0	700.0	700.0	700.0	3.1	3.1	89.61	0.4	59.7	59.7	53.1	6.60	9.047			
800.0	800.0	800.0	800.0	3.3	3.3	89.61	0.4	59.7	59.7	52.6	7.08	8.439			
900.0	900.0	900.0	900.0	3.6	3.6	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	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	89.61	0.4	59.7	59.7	48.3	11.44	5.220			
2,100.0	2,100.0	2,102.1	2,102.1	5.8	5.8	178.62	0.6	57.9	59.7	47.8	11.89	5.020			
2,200.0	2,199.8	2,204.2	2,204.1	6.0	6.0	178.22	1.1	52.5	59.6	47.3	12.30	4.846			
2,300.0	2,299.5	2,306.3	2,305.8	6.2	6.2	177.55	1.9	43.4	59.5	46.8	12.69	4.686			
2,400.0	2,398.7	2,408.4	2,407.1	6.4	6.4	176.62	3.0	30.8	59.3	46.2	13.06	4.540			
2,451.9	2,450.0	2,461.3	2,459.3	6.5	6.5	176.03	3.8	22.8	59.2	46.0	13.19	4.488 CC, ES			
2,500.0	2,497.5	2,509.4	2,506.8	6.6	6.5	175.50	4.4	15.2	59.6	46.3	13.33	4.473			
2,600.0	2,595.6	2,609.3	2,605.5	6.8	6.6	174.65	5.9	-0.5	63.0	49.4	13.67	4.612			
2,700.0	2,693.1	2,709.1	2,704.0	7.0	6.8	174.18	7.3	-16.3	69.9	55.9	14.01	4.991			
2,800.0	2,789.6	2,808.5	2,802.2	7.2	6.9	174.06	8.7	-31.9	80.3	66.0	14.36	5.592			
2,900.0	2,885.3	2,907.6	2,899.9	7.4	7.1	174.17	10.2	-47.6	94.1	79.4	14.72	6.396			
2,963.5	2,945.4	2,970.1	2,961.7	7.5	7.2	174.33	11.1	-57.4	104.7	89.8	14.89	7.031			
3,000.0	2,979.9	3,006.1	2,997.2	7.6	7.2	174.43	11.6	-63.1	111.2	96.2	14.98	7.423			
3,100.0	3,074.3	3,104.5	3,094.4	7.7	7.4	174.66	13.0	-78.6	128.9	113.6	15.27	8.437			
3,200.0	3,168.7	3,202.9	3,191.6	7.8	7.5	174.84	14.4	-94.1	146.6	131.0	15.58	9.408			
3,300.0	3,263.1	3,301.4	3,288.8	8.0	7.7	174.98	15.8	-109.7	164.3	148.4	15.90	10.333			
3,400.0	3,357.5	3,396.9	3,383.2	8.2	7.8	175.13	17.1	-124.0	182.8	166.5	16.22	11.267			
3,500.0	3,451.9	3,491.7	3,477.2	8.3	8.0	175.32	18.3	-136.7	202.8	186.3	16.55	12.258			
3,600.0	3,546.3	3,585.9	3,570.7	8.5	8.1	175.53	19.3	-147.8	224.5	207.6	16.87	13.307			
3,700.0	3,640.7	3,679.3	3,663.6	8.7	8.3	175.77	20.1	-157.2	247.7	230.6	17.19	14.411			
3,800.0	3,735.1	3,772.0	3,756.0	8.8	8.4	176.01	20.8	-165.1	272.6	255.1	17.51	15.566			
3,900.0	3,829.5	3,863.9	3,847.7	9.0	8.5	176.25	21.4	-171.5	298.9	281.1	17.82	16.772			
4,000.0	3,923.9	3,955.0	3,938.6	9.2	8.7	176.48	21.9	-176.3	326.8	308.7	18.13	18.025			
4,100.0	4,018.3	4,045.3	4,028.8	9.4	8.8	176.71	22.2	-179.7	356.2	337.8	18.43	19.325			
4,200.0	4,112.7	4,134.6	4,118.2	9.6	8.9	176.94	22.3	-181.7	387.1	368.4	18.72	20.673			
4,300.0	4,207.1	4,223.5	4,207.1	9.8	9.0	177.15	22.4	-182.3	419.4	400.4	19.00	22.080			
4,400.0	4,301.5	4,317.9	4,301.5	10.0	9.1	177.36	22.4	-182.3	452.4	433.1	19.28	23.462			
4,500.0	4,395.9	4,412.3	4,395.9	10.3	9.2	177.54	22.4	-182.3	485.4	465.8	19.57	24.801			
4,600.0	4,490.3	4,506.7	4,490.3	10.5	9.3	177.70	22.4	-182.3	518.3	498.5	19.86	26.098			
4,700.0	4,584.7	4,601.1	4,584.7	10.7	9.4	177.84	22.4	-182.3	551.3	531.2	20.15	27.354			
4,726.0	4,609.2	4,625.7	4,609.2	10.8	9.4	177.87	22.4	-182.3	559.9	539.7	20.22	27.691			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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	4,679.2	4,695.7	4,679.2	11.0	9.5	177.97	22.4	-182.3	583.8	563.4	20.42	28.586			
4,900.0	4,774.3	4,790.8	4,774.3	11.2	9.6	178.08	22.4	-182.3	614.8	594.1	20.72	29.671			
5,000.0	4,869.9	4,886.4	4,869.9	11.4	9.7	178.18	22.4	-182.3	644.0	623.0	21.02	30.646			
5,100.0	4,966.0	4,982.5	4,966.0	11.7	9.8	178.26	22.4	-182.3	671.6	650.3	21.31	31.514			
5,200.0	5,062.6	5,079.1	5,062.6	11.9	9.8	178.33	22.4	-182.3	697.6	676.0	21.61	32.280			
5,300.0	5,159.6	5,176.1	5,159.6	12.1	9.9	178.39	22.4	-182.3	721.8	699.9	21.91	32.949			
5,400.0	5,257.0	5,273.5	5,257.0	12.3	10.0	178.45	22.4	-182.3	744.3	722.1	22.20	33.525			
5,500.0	5,354.8	5,371.3	5,354.8	12.5	10.1	178.50	22.4	-182.3	765.2	742.7	22.50	34.013			
5,600.0	5,453.0	5,469.5	5,453.0	12.7	10.2	178.54	22.4	-182.3	784.3	761.5	22.79	34.416			
5,700.0	5,551.5	5,567.9	5,551.5	12.9	10.3	178.58	22.4	-182.3	801.7	778.6	23.08	34.739			
5,800.0	5,650.2	5,666.7	5,650.2	13.0	10.4	178.61	22.4	-182.3	817.4	794.0	23.36	34.985			
5,900.0	5,749.2	5,765.7	5,749.2	13.2	10.5	178.63	22.4	-182.3	831.4	807.7	23.65	35.158			
6,000.0	5,848.5	5,865.0	5,848.5	13.3	10.6	178.66	22.4	-182.3	843.6	819.7	23.92	35.260			
6,100.0	5,947.9	5,964.4	5,947.9	13.5	10.7	178.68	22.4	-182.3	854.1	829.9	24.20	35.297			
6,200.0	6,047.6	6,064.0	6,047.6	13.6	10.8	178.69	22.4	-182.3	862.9	838.4	24.46	35.270			
6,300.0	6,147.3	6,163.8	6,147.3	13.8	10.9	178.70	22.4	-182.3	869.9	845.2	24.72	35.183			
6,400.0	6,247.2	6,263.6	6,247.2	13.9	11.0	178.71	22.4	-182.3	875.2	850.2	24.98	35.040			
6,500.0	6,347.1	6,363.6	6,347.1	14.0	11.0	178.72	22.4	-182.3	878.7	853.5	25.22	34.845			
6,600.0	6,447.1	6,463.6	6,447.1	14.2	11.1	178.72	22.4	-182.3	880.5	855.1	25.44	34.607			
6,652.9	6,500.0	6,516.5	6,500.0	14.2	11.2	89.58	22.4	-182.3	880.7	855.2	25.52	34.509			
6,700.0	6,547.1	6,563.6	6,547.1	14.2	11.2	89.58	22.4	-182.3	880.7	855.2	25.58	34.437			
6,800.0	6,647.1	6,663.6	6,647.1	14.3	11.3	89.58	22.4	-182.3	880.7	855.0	25.72	34.240			
6,900.0	6,747.1	6,763.6	6,747.1	14.3	11.4	89.58	22.4	-182.3	880.7	854.9	25.87	34.044			
7,000.0	6,847.1	6,863.6	6,847.1	14.4	11.5	89.58	22.4	-182.3	880.7	854.7	26.02	33.850			
7,100.0	6,947.1	6,963.6	6,947.1	14.5	11.6	89.58	22.4	-182.3	880.7	854.6	26.17	33.658			
7,200.0	7,047.1	7,063.6	7,047.1	14.5	11.7	89.58	22.4	-182.3	880.7	854.4	26.32	33.468			
7,300.0	7,147.1	7,163.6	7,147.1	14.6	11.8	89.58	22.4	-182.3	880.7	854.3	26.46	33.280			
7,400.0	7,247.1	7,263.6	7,247.1	14.7	11.9	89.58	22.4	-182.3	880.7	854.1	26.61	33.094			
7,500.0	7,347.1	7,363.6	7,347.1	14.7	12.0	89.58	22.4	-182.3	880.7	854.0	26.76	32.910			
7,600.0	7,447.1	7,463.6	7,447.1	14.8	12.1	89.58	22.4	-182.3	880.7	853.8	26.91	32.727			
7,700.0	7,547.1	7,563.6	7,547.1	14.9	12.1	89.58	22.4	-182.3	880.7	853.7	27.06	32.547			
7,800.0	7,647.1	7,663.6	7,647.1	14.9	12.2	89.58	22.4	-182.3	880.7	853.5	27.21	32.368			
7,900.0	7,747.1	7,763.6	7,747.1	15.0	12.3	89.58	22.4	-182.3	880.7	853.4	27.36	32.191			
8,000.0	7,847.1	7,863.6	7,847.1	15.1	12.4	89.58	22.4	-182.3	880.7	853.2	27.51	32.016			
8,100.0	7,947.1	7,963.6	7,947.1	15.1	12.5	89.58	22.4	-182.3	880.7	853.1	27.66	31.843			
8,200.0	8,047.1	8,063.6	8,047.1	15.2	12.6	89.58	22.4	-182.3	880.7	852.9	27.81	31.671			
8,300.0	8,147.1	8,163.6	8,147.1	15.3	12.7	89.58	22.4	-182.3	880.7	852.8	27.96	31.501			
8,400.0	8,247.1	8,263.6	8,247.1	15.3	12.8	89.58	22.4	-182.3	880.7	852.6	28.11	31.333			
8,500.0	8,347.1	8,363.6	8,347.1	15.4	12.9	89.58	22.4	-182.3	880.7	852.5	28.26	31.167			
8,600.0	8,447.1	8,463.6	8,447.1	15.5	13.0	89.58	22.4	-182.3	880.7	852.3	28.41	31.002			
8,700.0	8,547.1	8,563.6	8,547.1	15.5	13.0	89.58	22.4	-182.3	880.7	852.2	28.56	30.838			
8,800.0	8,647.1	8,663.6	8,647.1	15.6	13.1	89.58	22.4	-182.3	880.7	852.0	28.71	30.677			
8,900.0	8,747.1	8,763.6	8,747.1	15.7	13.2	89.58	22.4	-182.3	880.7	851.9	28.86	30.516			
9,000.0	8,847.1	8,863.6	8,847.1	15.7	13.3	89.58	22.4	-182.3	880.7	851.7	29.01	30.358			
9,100.0	8,947.1	8,963.6	8,947.1	15.8	13.4	89.58	22.4	-182.3	880.7	851.6	29.16	30.201			
9,200.0	9,047.1	9,063.6	9,047.1	15.9	13.5	89.58	22.4	-182.3	880.7	851.4	29.31	30.045			
9,300.0	9,147.1	9,163.6	9,147.1	15.9	13.6	89.58	22.4	-182.3	880.7	851.3	29.47	29.891			
9,400.0	9,247.1	9,263.6	9,247.1	16.0	13.7	89.58	22.4	-182.3	880.7	851.1	29.62	29.738			
9,500.0	9,347.1	9,363.6	9,347.1	16.1	13.8	89.58	22.4	-182.3	880.7	851.0	29.77	29.587			
9,600.0	9,447.1	9,463.6	9,447.1	16.1	13.8	89.58	22.4	-182.3	880.7	850.8	29.92	29.437			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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	9,547.1	9,563.6	9,547.1	16.2	13.9	89.58	22.4	-182.3	880.7	850.7	30.07	29.289			
9,800.0	9,647.1	9,663.6	9,647.1	16.3	14.0	89.58	22.4	-182.3	880.7	850.5	30.22	29.142			
9,900.0	9,747.1	9,763.6	9,747.1	16.3	14.1	89.58	22.4	-182.3	880.7	850.4	30.37	28.996			
10,000.0	9,847.1	9,863.6	9,847.1	16.4	14.2	89.58	22.4	-182.3	880.7	850.2	30.53	28.852			
10,100.0	9,947.1	9,963.6	9,947.1	16.5	14.3	89.58	22.4	-182.3	880.7	850.1	30.68	28.709			
10,200.0	10,047.1	10,063.6	10,047.1	16.6	14.4	89.58	22.4	-182.3	880.7	849.9	30.83	28.568			
10,300.0	10,147.1	10,163.6	10,147.1	16.6	14.5	89.58	22.4	-182.3	880.7	849.8	30.98	28.427			
10,400.0	10,247.1	10,263.6	10,247.1	16.7	14.6	89.58	22.4	-182.3	880.7	849.6	31.13	28.288			
10,500.0	10,347.1	10,363.6	10,347.1	16.8	14.6	89.58	22.4	-182.3	880.7	849.5	31.29	28.151			
10,600.0	10,447.1	10,463.6	10,447.1	16.8	14.7	89.58	22.4	-182.3	880.7	849.3	31.44	28.014			
10,700.0	10,547.1	10,563.6	10,547.1	16.9	14.8	89.58	22.4	-182.3	880.7	849.1	31.59	27.879			
10,800.0	10,647.1	10,663.6	10,647.1	17.0	14.9	89.58	22.4	-182.3	880.7	849.0	31.74	27.745			
10,900.0	10,747.1	10,763.6	10,747.1	17.1	15.0	89.58	22.4	-182.3	880.7	848.8	31.90	27.612			
11,000.0	10,847.1	10,863.6	10,847.1	17.1	15.1	89.58	22.4	-182.3	880.7	848.7	32.05	27.481			
11,100.0	10,947.1	10,963.6	10,947.1	17.2	15.2	89.58	22.4	-182.3	880.7	848.5	32.20	27.350			
11,200.0	11,047.1	11,063.6	11,047.1	17.3	15.3	89.58	22.4	-182.3	880.7	848.4	32.36	27.221			
11,300.0	11,147.1	11,163.6	11,147.1	17.4	15.3	89.58	22.4	-182.3	880.7	848.2	32.51	27.093			
11,400.0	11,247.1	11,263.6	11,247.1	17.4	15.4	89.58	22.4	-182.3	880.7	848.1	32.66	26.966			
11,500.0	11,347.1	11,363.6	11,347.1	17.5	15.5	89.58	22.4	-182.3	880.7	847.9	32.81	26.840			
11,600.0	11,447.1	11,463.6	11,447.1	17.6	15.6	89.58	22.4	-182.3	880.7	847.8	32.97	26.716			
11,700.0	11,547.1	11,563.6	11,547.1	17.6	15.7	89.58	22.4	-182.3	880.7	847.6	33.12	26.592			
11,800.0	11,647.1	11,663.6	11,647.1	17.7	15.8	89.58	22.4	-182.3	880.7	847.5	33.27	26.469			
11,900.0	11,747.1	11,763.6	11,747.1	17.8	15.9	89.58	22.4	-182.3	880.7	847.3	33.43	26.348			
12,000.0	11,847.1	11,863.6	11,847.1	17.9	15.9	89.58	22.4	-182.3	880.7	847.2	33.58	26.227			
12,100.0	11,947.1	11,963.6	11,947.1	17.9	16.0	89.58	22.4	-182.3	880.7	847.0	33.73	26.108			
12,200.0	12,047.1	12,063.6	12,047.1	18.0	16.1	89.58	22.4	-182.3	880.7	846.9	33.89	25.990			
12,300.0	12,147.1	12,163.6	12,147.1	18.1	16.2	89.58	22.4	-182.3	880.7	846.7	34.04	25.872			
12,400.0	12,247.1	12,263.6	12,247.1	18.2	16.3	89.58	22.4	-182.3	880.7	846.5	34.19	25.759			
12,425.4	12,272.5	12,289.0	12,272.5	18.2	16.3	89.58	22.4	-182.3	880.7	846.5	34.22	25.737			
12,450.0	12,297.1	12,313.4	12,296.9	18.2	16.3	-89.85	21.8	-182.3	880.7	846.5	34.22	25.738			
12,475.0	12,322.0	12,338.3	12,321.7	18.2	16.3	-89.85	19.9	-182.3	880.7	846.5	34.20	25.749			
12,500.0	12,346.8	12,363.2	12,346.4	18.2	16.3	-89.85	16.6	-182.2	880.7	846.6	34.19	25.762			
12,525.0	12,371.4	12,388.1	12,370.9	18.2	16.3	-89.85	12.2	-182.2	880.7	846.6	34.17	25.776			
12,550.0	12,395.7	12,412.9	12,395.1	18.2	16.3	-89.85	6.4	-182.1	880.7	846.6	34.15	25.790			
12,575.0	12,419.6	12,437.8	12,419.0	18.2	16.2	-89.85	-0.6	-182.1	880.7	846.6	34.13	25.806			
12,600.0	12,443.2	12,462.7	12,442.4	18.2	16.2	-89.86	-8.9	-182.0	880.7	846.6	34.11	25.822			
12,625.0	12,466.3	12,487.6	12,465.4	18.2	16.2	-89.86	-18.3	-181.9	880.7	846.7	34.09	25.838			
12,650.0	12,488.9	12,512.5	12,487.9	18.2	16.2	-89.86	-29.0	-181.8	880.7	846.7	34.06	25.855			
12,675.0	12,510.9	12,537.4	12,509.9	18.2	16.2	-89.87	-40.8	-181.7	880.7	846.7	34.04	25.871			
12,700.0	12,532.2	12,562.3	12,531.1	18.2	16.2	-89.87	-53.7	-181.5	880.7	846.7	34.02	25.887			
12,725.0	12,552.8	12,587.2	12,551.7	18.2	16.2	-89.88	-67.7	-181.4	880.7	846.7	34.00	25.902			
12,750.0	12,572.7	12,612.1	12,571.5	18.2	16.2	-89.88	-82.8	-181.2	880.7	846.8	33.99	25.915			
12,775.0	12,591.7	12,637.0	12,590.5	18.2	16.2	-89.89	-98.9	-181.1	880.7	846.8	33.97	25.927			
12,800.0	12,609.8	12,661.9	12,608.6	18.2	16.2	-89.89	-116.0	-180.9	880.7	846.8	33.96	25.937			
12,825.0	12,627.0	12,686.8	12,625.9	18.2	16.2	-89.90	-134.0	-180.7	880.7	846.8	33.95	25.944			
12,850.0	12,643.3	12,711.7	12,642.1	18.3	16.2	-89.90	-152.8	-180.5	880.7	846.8	33.94	25.949			
12,875.0	12,658.5	12,736.7	12,657.4	18.3	16.2	-89.91	-172.5	-180.3	880.7	846.8	33.94	25.950			
12,900.0	12,672.7	12,761.6	12,671.6	18.3	16.2	-89.92	-193.0	-180.1	880.7	846.8	33.94	25.947			
12,925.0	12,685.8	12,786.5	12,684.8	18.3	16.2	-89.92	-214.2	-179.9	880.7	846.8	33.95	25.941			
12,950.0	12,697.7	12,811.5	12,696.8	18.3	16.3	-89.93	-236.0	-179.7	880.7	846.8	33.97	25.930			
12,975.0	12,708.5	12,836.4	12,707.6	18.4	16.3	-89.94	-258.5	-179.5	880.7	846.8	33.99	25.915			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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)					
13,000.0	12,718.1	12,861.4	12,717.3	18.4	16.3	-89.94	-281.5	-179.3	880.7	846.7	34.01	25.895			
13,025.0	12,726.5	12,886.3	12,725.8	18.4	16.3	-89.95	-305.0	-179.0	880.7	846.7	34.04	25.871			
13,050.0	12,733.6	12,911.3	12,733.0	18.5	16.3	-89.96	-328.9	-178.8	880.7	846.7	34.08	25.842			
13,075.0	12,739.4	12,936.3	12,739.0	18.5	16.3	-89.97	-353.1	-178.5	880.7	846.6	34.13	25.808			
13,100.0	12,744.0	12,961.2	12,743.6	18.6	16.4	-89.98	-377.6	-178.3	880.7	846.6	34.18	25.770			
13,125.0	12,747.3	12,986.2	12,747.1	18.6	16.4	-89.98	-402.4	-178.1	880.7	846.5	34.23	25.727			
13,150.0	12,749.3	13,011.2	12,749.2	18.6	16.4	-89.99	-427.3	-177.8	880.7	846.4	34.30	25.679			
13,175.4	12,750.0	13,036.6	12,750.0	18.7	16.4	-90.00	-452.7	-177.6	880.7	846.4	34.37	25.627			
13,200.0	12,750.0	13,061.2	12,750.0	18.7	16.5	-90.00	-477.3	-177.3	880.7	846.3	34.44	25.571			
13,300.0	12,750.0	13,161.2	12,750.0	19.0	16.6	-90.00	-577.3	-176.3	880.7	845.9	34.82	25.293			
13,400.0	12,750.0	13,261.2	12,750.0	19.2	16.9	-90.00	-677.2	-175.3	880.7	845.5	35.28	24.965			
13,500.0	12,750.0	13,361.2	12,750.0	19.5	17.1	-90.00	-777.2	-174.3	880.7	844.9	35.81	24.593			
13,600.0	12,750.0	13,461.2	12,750.0	19.9	17.5	-90.00	-877.2	-173.3	880.7	844.3	36.42	24.184			
13,700.0	12,750.0	13,561.2	12,750.0	20.2	17.8	-90.00	-977.2	-172.3	880.7	843.6	37.09	23.744			
13,800.0	12,750.0	13,661.2	12,750.0	20.6	18.2	-90.00	-1,077.2	-171.3	880.7	842.9	37.83	23.280			
13,900.0	12,750.0	13,761.2	12,750.0	21.0	18.6	-90.00	-1,177.2	-170.3	880.7	842.1	38.63	22.798			
14,000.0	12,750.0	13,861.2	12,750.0	21.4	19.0	-90.00	-1,277.2	-169.4	880.7	841.2	39.49	22.303			
14,100.0	12,750.0	13,961.2	12,750.0	21.9	19.5	-90.00	-1,377.2	-168.4	880.7	840.3	40.40	21.801			
14,200.0	12,750.0	14,061.2	12,750.0	22.3	20.0	-90.00	-1,477.2	-167.4	880.7	839.4	41.36	21.294			
14,300.0	12,750.0	14,161.2	12,750.0	22.8	20.5	-90.00	-1,577.2	-166.4	880.7	838.4	42.37	20.788			
14,400.0	12,750.0	14,261.2	12,750.0	23.4	21.1	-90.00	-1,677.2	-165.4	880.7	837.3	43.42	20.285			
14,500.0	12,750.0	14,361.2	12,750.0	23.9	21.6	-90.00	-1,777.2	-164.4	880.7	836.2	44.51	19.788			
14,600.0	12,750.0	14,461.2	12,750.0	24.4	22.2	-90.00	-1,877.2	-163.4	880.7	835.1	45.64	19.299			
14,700.0	12,750.0	14,561.2	12,750.0	25.0	22.8	-90.00	-1,977.2	-162.4	880.7	833.9	46.80	18.820			
14,800.0	12,750.0	14,661.2	12,750.0	25.6	23.4	-90.00	-2,077.2	-161.4	880.7	832.7	47.99	18.351			
14,900.0	12,750.0	14,761.2	12,750.0	26.2	24.1	-90.00	-2,177.2	-160.4	880.7	831.5	49.22	17.895			
15,000.0	12,750.0	14,861.2	12,750.0	26.8	24.7	-90.00	-2,277.2	-159.4	880.7	830.3	50.47	17.451			
15,100.0	12,750.0	14,961.2	12,750.0	27.4	25.4	-90.00	-2,377.2	-158.4	880.7	829.0	51.74	17.021			
15,200.0	12,750.0	15,061.2	12,750.0	28.0	26.1	-90.00	-2,477.2	-157.4	880.7	827.7	53.05	16.603			
15,300.0	12,750.0	15,161.2	12,750.0	28.7	26.7	-90.00	-2,577.2	-156.4	880.7	826.4	54.37	16.199			
15,400.0	12,750.0	15,261.2	12,750.0	29.3	27.4	-90.00	-2,677.2	-155.4	880.7	825.0	55.71	15.809			
15,500.0	12,750.0	15,361.2	12,750.0	30.0	28.1	-90.00	-2,777.1	-154.4	880.7	823.7	57.07	15.432			
15,600.0	12,750.0	15,461.2	12,750.0	30.7	28.8	-90.00	-2,877.1	-153.4	880.7	822.3	58.45	15.068			
15,700.0	12,750.0	15,561.2	12,750.0	31.4	29.5	-90.00	-2,977.1	-152.4	880.7	820.9	59.85	14.716			
15,800.0	12,750.0	15,661.2	12,750.0	32.1	30.3	-90.00	-3,077.1	-151.4	880.7	819.5	61.26	14.377			
15,900.0	12,750.0	15,761.2	12,750.0	32.8	31.0	-90.00	-3,177.1	-150.5	880.7	818.0	62.68	14.051			
16,000.0	12,750.0	15,861.2	12,750.0	33.5	31.7	-90.00	-3,277.1	-149.5	880.7	816.6	64.12	13.735			
16,100.0	12,750.0	15,961.2	12,750.0	34.2	32.5	-90.00	-3,377.1	-148.5	880.7	815.1	65.57	13.432			
16,200.0	12,750.0	16,061.2	12,750.0	34.9	33.2	-90.00	-3,477.1	-147.5	880.7	813.7	67.03	13.139			
16,300.0	12,750.0	16,161.2	12,750.0	35.6	34.0	-90.00	-3,577.1	-146.5	880.7	812.2	68.51	12.856			
16,400.0	12,750.0	16,261.2	12,750.0	36.4	34.7	-90.00	-3,677.1	-145.5	880.7	810.7	69.99	12.584			
16,500.0	12,750.0	16,361.2	12,750.0	37.1	35.5	-90.00	-3,777.1	-144.5	880.7	809.2	71.48	12.321			
16,600.0	12,750.0	16,461.2	12,750.0	37.8	36.3	-90.00	-3,877.1	-143.5	880.7	807.7	72.98	12.068			
16,700.0	12,750.0	16,561.2	12,750.0	38.6	37.0	-90.00	-3,977.1	-142.5	880.7	806.2	74.49	11.823			
16,800.0	12,750.0	16,661.2	12,750.0	39.3	37.8	-90.00	-4,077.1	-141.5	880.7	804.7	76.01	11.587			
16,900.0	12,750.0	16,761.2	12,750.0	40.1	38.6	-90.00	-4,177.1	-140.5	880.7	803.2	77.53	11.359			
17,000.0	12,750.0	16,861.2	12,750.0	40.9	39.4	-90.00	-4,277.1	-139.5	880.7	801.7	79.06	11.139			
17,100.0	12,750.0	16,961.2	12,750.0	41.6	40.2	-90.00	-4,377.1	-138.5	880.7	800.1	80.60	10.927			
17,200.0	12,750.0	17,061.2	12,750.0	42.4	41.0	-90.00	-4,477.1	-137.5	880.7	798.6	82.15	10.721			
17,300.0	12,750.0	17,161.2	12,750.0	43.2	41.7	-90.00	-4,577.1	-136.5	880.7	797.0	83.70	10.523			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		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	17,261.2	12,750.0	43.9	42.5	-90.00	-4,677.1	-135.5	880.7	795.5	85.25	10.331			
17,500.0	12,750.0	17,361.2	12,750.0	44.7	43.3	-90.00	-4,777.0	-134.5	880.7	793.9	86.81	10.145			
17,600.0	12,750.0	17,461.2	12,750.0	45.5	44.1	-90.00	-4,877.0	-133.5	880.7	792.3	88.38	9.965			
17,700.0	12,750.0	17,561.2	12,750.0	46.3	44.9	-90.00	-4,977.0	-132.5	880.7	790.8	89.95	9.791			
17,800.0	12,750.0	17,661.2	12,750.0	47.1	45.7	-90.00	-5,077.0	-131.5	880.7	789.2	91.53	9.623			
17,900.0	12,750.0	17,761.2	12,750.0	47.9	46.5	-90.00	-5,177.0	-130.6	880.7	787.6	93.11	9.459			
18,000.0	12,750.0	17,861.2	12,750.0	48.6	47.3	-90.00	-5,277.0	-129.6	880.7	786.0	94.69	9.301			
18,100.0	12,750.0	17,961.2	12,750.0	49.4	48.2	-90.00	-5,377.0	-128.6	880.7	784.4	96.28	9.148			
18,200.0	12,750.0	18,061.2	12,750.0	50.2	49.0	-90.00	-5,477.0	-127.6	880.7	782.8	97.87	8.999			
18,300.0	12,750.0	18,161.2	12,750.0	51.0	49.8	-90.00	-5,577.0	-126.6	880.7	781.2	99.46	8.855			
18,400.0	12,750.0	18,261.2	12,750.0	51.8	50.6	-90.00	-5,677.0	-125.6	880.7	779.7	101.06	8.715			
18,500.0	12,750.0	18,361.2	12,750.0	52.6	51.4	-90.00	-5,777.0	-124.6	880.7	778.0	102.66	8.579			
18,600.0	12,750.0	18,461.2	12,750.0	53.4	52.2	-90.00	-5,877.0	-123.6	880.7	776.4	104.26	8.447			
18,700.0	12,750.0	18,561.2	12,750.0	54.2	53.0	-90.00	-5,977.0	-122.6	880.7	774.8	105.87	8.319			
18,800.0	12,750.0	18,661.2	12,750.0	55.0	53.9	-90.00	-6,077.0	-121.6	880.7	773.2	107.48	8.194			
18,900.0	12,750.0	18,761.2	12,750.0	55.9	54.7	-90.00	-6,177.0	-120.6	880.7	771.6	109.09	8.073			
19,000.0	12,750.0	18,861.2	12,750.0	56.7	55.5	-90.00	-6,277.0	-119.6	880.7	770.0	110.70	7.956			
19,100.0	12,750.0	18,961.2	12,750.0	57.5	56.3	-90.00	-6,377.0	-118.6	880.7	768.4	112.32	7.841			
19,200.0	12,750.0	19,061.2	12,750.0	58.3	57.1	-90.00	-6,477.0	-117.6	880.7	766.8	113.94	7.730			
19,300.0	12,750.0	19,161.2	12,750.0	59.1	58.0	-90.00	-6,577.0	-116.6	880.7	765.1	115.56	7.621			
19,400.0	12,750.0	19,261.2	12,750.0	59.9	58.8	-90.00	-6,677.0	-115.6	880.7	763.5	117.18	7.516			
19,500.0	12,750.0	19,361.2	12,750.0	60.7	59.6	-90.00	-6,776.9	-114.6	880.7	761.9	118.81	7.413			
19,600.0	12,750.0	19,461.2	12,750.0	61.5	60.5	-90.00	-6,876.9	-113.6	880.7	760.3	120.43	7.313			
19,700.0	12,750.0	19,561.2	12,750.0	62.4	61.3	-90.00	-6,976.9	-112.6	880.7	758.6	122.06	7.215			
19,800.0	12,750.0	19,661.2	12,750.0	63.2	62.1	-90.00	-7,076.9	-111.7	880.7	757.0	123.69	7.120			
19,900.0	12,750.0	19,761.2	12,750.0	64.0	62.9	-90.00	-7,176.9	-110.7	880.7	755.4	125.33	7.027			
20,000.0	12,750.0	19,861.2	12,750.0	64.8	63.8	-90.00	-7,276.9	-109.7	880.7	753.7	126.96	6.937			
20,100.0	12,750.0	19,961.2	12,750.0	65.6	64.6	-90.00	-7,376.9	-108.7	880.7	752.1	128.59	6.849			
20,200.0	12,750.0	20,061.2	12,750.0	66.5	65.4	-90.00	-7,476.9	-107.7	880.7	750.5	130.23	6.763			
20,300.0	12,750.0	20,161.2	12,750.0	67.3	66.3	-90.00	-7,576.9	-106.7	880.7	748.8	131.87	6.679			
20,400.0	12,750.0	20,261.2	12,750.0	68.1	67.1	-90.00	-7,676.9	-105.7	880.7	747.2	133.51	6.597			
20,500.0	12,750.0	20,361.2	12,750.0	68.9	67.9	-90.00	-7,776.9	-104.7	880.7	745.5	135.15	6.516			
20,600.0	12,750.0	20,461.2	12,750.0	69.8	68.8	-90.00	-7,876.9	-103.7	880.7	743.9	136.79	6.438			
20,700.0	12,750.0	20,561.2	12,750.0	70.6	69.6	-90.00	-7,976.9	-102.7	880.7	742.3	138.44	6.362			
20,800.0	12,750.0	20,661.2	12,750.0	71.4	70.4	-90.00	-8,076.9	-101.7	880.7	740.6	140.08	6.287			
20,900.0	12,750.0	20,761.2	12,750.0	72.3	71.3	-90.00	-8,176.9	-100.7	880.7	739.0	141.73	6.214			
21,000.0	12,750.0	20,861.2	12,750.0	73.1	72.1	-90.00	-8,276.9	-99.7	880.7	737.3	143.38	6.143			
21,100.0	12,750.0	20,961.2	12,750.0	73.9	72.9	-90.00	-8,376.9	-98.7	880.7	735.7	145.02	6.073			
21,200.0	12,750.0	21,061.2	12,750.0	74.7	73.8	-90.00	-8,476.9	-97.7	880.7	734.0	146.67	6.004			
21,300.0	12,750.0	21,161.2	12,750.0	75.6	74.6	-90.00	-8,576.9	-96.7	880.7	732.4	148.32	5.938			
21,400.0	12,750.0	21,261.2	12,750.0	76.4	75.5	-90.00	-8,676.9	-95.7	880.7	730.7	149.97	5.872			
21,500.0	12,750.0	21,361.2	12,750.0	77.2	76.3	-90.00	-8,776.8	-94.7	880.7	729.1	151.63	5.808			
21,600.0	12,750.0	21,461.2	12,750.0	78.1	77.1	-90.00	-8,876.8	-93.7	880.7	727.4	153.28	5.746			
21,700.0	12,750.0	21,561.2	12,750.0	78.9	78.0	-90.00	-8,976.8	-92.8	880.7	725.8	154.93	5.684			
21,800.0	12,750.0	21,661.2	12,750.0	79.7	78.8	-90.00	-9,076.8	-91.8	880.7	724.1	156.59	5.624			
21,900.0	12,750.0	21,761.2	12,750.0	80.6	79.7	-90.00	-9,176.8	-90.8	880.7	722.4	158.25	5.565			
22,000.0	12,750.0	21,861.2	12,750.0	81.4	80.5	-90.00	-9,276.8	-89.8	880.7	720.8	159.90	5.508			
22,100.0	12,750.0	21,961.2	12,750.0	82.2	81.3	-90.00	-9,376.8	-88.8	880.7	719.1	161.56	5.451			
22,200.0	12,750.0	22,061.2	12,750.0	83.1	82.2	-90.00	-9,476.8	-87.8	880.7	717.5	163.22	5.396			
22,300.0	12,750.0	22,161.2	12,750.0	83.9	83.0	-90.00	-9,576.8	-86.8	880.7	715.8	164.88	5.342			
22,400.0	12,750.0	22,261.2	12,750.0	84.8	83.9	-90.00	-9,676.8	-85.8	880.7	714.2	166.54	5.288			

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 801H - Slot BOATER FED COM 801H
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 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: BOATER FED COM PROJECT - _BOATER FED COM 802H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR														Offset Well Error:	0.0 usft
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)					
22,500.0	12,750.0	22,361.2	12,750.0	85.6	84.7	-90.00	-9,776.8	-84.8	880.7	712.5	168.20	5.236			
22,600.0	12,750.0	22,461.2	12,750.0	86.4	85.6	-90.00	-9,876.8	-83.8	880.7	710.8	169.86	5.185			
22,700.0	12,750.0	22,561.2	12,750.0	87.3	86.4	-90.00	-9,976.8	-82.8	880.7	709.2	171.52	5.135			
22,800.0	12,750.0	22,661.2	12,750.0	88.1	87.2	-90.00	-10,076.8	-81.8	880.7	707.5	173.18	5.085			
22,900.0	12,750.0	22,761.2	12,750.0	88.9	88.1	-90.00	-10,176.8	-80.8	880.7	705.8	174.84	5.037			
23,000.0	12,750.0	22,861.2	12,750.0	89.8	88.9	-90.00	-10,276.8	-79.8	880.7	704.2	176.51	4.989			
23,100.0	12,750.0	22,961.2	12,750.0	90.6	89.8	-90.00	-10,376.8	-78.8	880.7	702.5	178.17	4.943			
23,200.0	12,750.0	23,061.2	12,750.0	91.5	90.6	-90.00	-10,476.8	-77.8	880.7	700.8	179.84	4.897			
23,300.0	12,750.0	23,161.2	12,750.0	92.3	91.5	-90.00	-10,576.8	-76.8	880.7	699.2	181.50	4.852			
23,400.0	12,750.0	23,261.2	12,750.0	93.1	92.3	-90.00	-10,676.8	-75.8	880.7	697.5	183.17	4.808			
23,500.0	12,750.0	23,361.2	12,750.0	94.0	93.2	-90.00	-10,776.7	-74.8	880.7	695.8	184.83	4.765			
23,600.0	12,750.0	23,461.2	12,750.0	94.8	94.0	-90.00	-10,876.7	-73.8	880.7	694.2	186.50	4.722			
23,700.0	12,750.0	23,561.2	12,750.0	95.7	94.9	-90.00	-10,976.7	-72.9	880.7	692.5	188.17	4.680			
23,800.0	12,750.0	23,661.2	12,750.0	96.5	95.7	-90.00	-11,076.7	-71.9	880.7	690.8	189.84	4.639			
23,900.0	12,750.0	23,761.2	12,750.0	97.4	96.5	-90.00	-11,176.7	-70.9	880.7	689.2	191.50	4.599			
24,000.0	12,750.0	23,861.2	12,750.0	98.2	97.4	-90.00	-11,276.7	-69.9	880.7	687.5	193.17	4.559			
24,100.0	12,750.0	23,961.2	12,750.0	99.0	98.2	-90.00	-11,376.7	-68.9	880.7	685.8	194.84	4.520			
24,200.0	12,750.0	24,061.2	12,750.0	99.9	99.1	-90.00	-11,476.7	-67.9	880.7	684.2	196.51	4.482			
24,300.0	12,750.0	24,161.2	12,750.0	100.7	99.9	-90.00	-11,576.7	-66.9	880.7	682.5	198.18	4.444			
24,400.0	12,750.0	24,261.2	12,750.0	101.6	100.8	-90.00	-11,676.7	-65.9	880.7	680.8	199.85	4.407			
24,500.0	12,750.0	24,361.2	12,750.0	102.4	101.6	-90.00	-11,776.7	-64.9	880.7	679.2	201.52	4.370			
24,600.0	12,750.0	24,461.2	12,750.0	103.3	102.5	-90.00	-11,876.7	-63.9	880.7	677.5	203.19	4.334			
24,700.0	12,750.0	24,561.2	12,750.0	104.1	103.3	-90.00	-11,976.7	-62.9	880.7	675.8	204.86	4.299			
24,800.0	12,750.0	24,661.2	12,750.0	104.9	104.2	-90.00	-12,076.7	-61.9	880.7	674.1	206.54	4.264			
24,900.0	12,750.0	24,761.2	12,750.0	105.8	105.0	-90.00	-12,176.7	-60.9	880.7	672.5	208.21	4.230			
25,000.0	12,750.0	24,861.2	12,750.0	106.6	105.9	-90.00	-12,276.7	-59.9	880.7	670.8	209.88	4.196			
25,100.0	12,750.0	24,961.2	12,750.0	107.5	106.7	-90.00	-12,376.7	-58.9	880.7	669.1	211.55	4.163			
25,200.0	12,750.0	25,061.2	12,750.0	108.3	107.6	-90.00	-12,476.7	-57.9	880.7	667.4	213.23	4.130			
25,300.0	12,750.0	25,161.2	12,750.0	109.2	108.4	-90.00	-12,576.7	-56.9	880.7	665.8	214.90	4.098			
25,400.0	12,750.0	25,261.2	12,750.0	110.0	109.3	-90.00	-12,676.7	-55.9	880.7	664.1	216.58	4.066			
25,500.0	12,750.0	25,361.2	12,750.0	110.9	110.1	-90.00	-12,776.7	-54.9	880.7	662.4	218.25	4.035			
25,600.0	12,750.0	25,461.2	12,750.0	111.7	111.0	-90.00	-12,876.6	-54.0	880.7	660.7	219.92	4.004			
25,700.0	12,750.0	25,561.2	12,750.0	112.6	111.8	-90.00	-12,976.6	-53.0	880.7	659.1	221.60	3.974			
25,800.0	12,750.0	25,661.2	12,750.0	113.4	112.7	-90.00	-13,076.6	-52.0	880.7	657.4	223.27	3.944			
25,900.0	12,750.0	25,761.2	12,750.0	114.3	113.5	-90.00	-13,176.6	-51.0	880.7	655.7	224.95	3.915			
25,944.0	12,750.0	25,805.2	12,750.0	114.6	113.9	-90.00	-13,220.6	-50.5	880.7	655.0	225.69	3.902 SF			
26,000.0	12,750.0	25,810.0	12,750.0	115.1	113.9	-90.00	-13,225.4	-50.5	882.2	656.8	225.39	3.914			
26,100.0	12,750.0	25,810.0	12,750.0	115.9	113.9	-90.00	-13,225.4	-50.5	893.6	670.8	222.72	4.012			
26,146.6	12,750.0	25,810.0	12,750.0	116.3	113.9	-90.00	-13,225.4	-50.5	902.6	681.9	220.67	4.090			

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 801H - Slot BOATER FED COM 801H
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 801H	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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning		
20,400.0	12,750.0	17,054.0	12,361.8	68.1	50.8	2.33	-8,529.4	-993.7	928.7	872.8	55.89	16.619			
20,500.0	12,750.0	17,054.0	12,361.8	68.9	50.8	2.33	-8,529.4	-993.7	838.9	780.6	58.33	14.383			
20,600.0	12,750.0	17,054.0	12,361.8	69.8	50.8	2.33	-8,529.4	-993.7	751.7	690.3	61.46	12.232			
20,700.0	12,750.0	17,054.0	12,361.8	70.6	50.8	2.33	-8,529.4	-993.7	668.1	602.7	65.47	10.205			
20,800.0	12,750.0	17,054.0	12,361.8	71.4	50.8	2.33	-8,529.4	-993.7	589.6	519.0	70.61	8.351			
20,900.0	12,750.0	17,054.0	12,361.8	72.3	50.8	2.33	-8,529.4	-993.7	518.6	441.6	77.00	6.735			
21,000.0	12,750.0	17,054.0	12,361.8	73.1	50.8	2.33	-8,529.4	-993.7	458.5	374.1	84.42	5.431			
21,100.0	12,750.0	17,054.0	12,361.8	73.9	50.8	2.33	-8,529.4	-993.7	414.1	322.3	91.81	4.511			
21,200.0	12,750.0	17,054.0	12,361.8	74.7	50.8	2.33	-8,529.4	-993.7	390.9	293.9	96.99	4.030			
21,300.0	12,750.0	16,986.9	12,363.6	75.6	50.2	2.39	-8,596.4	-993.4	386.9	289.2	97.66	3.961			
21,400.0	12,750.0	16,881.0	12,367.5	76.4	49.2	2.54	-8,702.3	-993.2	383.2	285.9	97.33	3.937			
21,500.0	12,750.0	16,781.6	12,371.9	77.2	48.3	2.36	-8,801.6	-990.8	378.7	281.6	97.09	3.901			
21,600.0	12,750.0	16,688.2	12,374.9	78.1	47.5	2.09	-8,894.8	-988.0	375.4	278.5	96.98	3.871			
21,700.0	12,750.0	16,593.6	12,376.5	78.9	46.6	1.91	-8,989.4	-985.8	373.7	276.9	96.87	3.858			
21,766.4	12,750.0	16,530.7	12,376.8	79.5	46.0	1.84	-9,052.3	-984.7	373.4	276.6	96.81	3.857			
21,800.0	12,750.0	16,502.0	12,376.6	79.7	45.8	1.81	-9,081.0	-984.3	373.6	276.8	96.82	3.858			
21,900.0	12,750.0	16,414.0	12,373.7	80.6	45.0	1.67	-9,168.9	-982.6	376.8	280.0	96.78	3.893			
22,000.0	12,750.0	16,309.0	12,369.7	81.4	44.1	1.57	-9,273.8	-980.9	380.6	284.0	96.58	3.941			
22,100.0	12,750.0	16,204.0	12,367.1	82.2	43.2	1.63	-9,378.8	-980.4	383.1	286.6	96.41	3.973			
22,200.0	12,750.0	16,087.6	12,366.8	83.1	42.1	1.79	-9,495.2	-980.3	383.5	287.5	95.99	3.995			
22,298.0	12,750.0	15,999.1	12,369.2	83.9	41.4	1.81	-9,583.6	-979.5	381.0	284.9	96.09	3.965			
22,300.0	12,750.0	15,997.5	12,369.2	83.9	41.3	1.80	-9,585.2	-979.4	381.0	284.9	96.10	3.964			
22,400.0	12,750.0	15,908.2	12,366.9	84.8	40.5	1.30	-9,674.4	-975.3	383.4	287.3	96.09	3.990			
22,500.0	12,750.0	15,789.6	12,365.4	85.6	39.5	0.84	-9,792.9	-971.0	384.7	289.2	95.54	4.027			
22,600.0	12,750.0	15,688.4	12,367.9	86.4	38.6	0.57	-9,894.1	-968.2	382.2	286.7	95.42	4.005			
22,700.0	12,750.0	15,573.2	12,372.7	87.3	37.6	0.29	-10,009.1	-965.1	378.0	283.1	94.87	3.985			
22,800.0	12,750.0	15,477.6	12,378.4	88.1	36.8	0.02	-10,104.5	-962.4	372.1	277.1	94.96	3.918			
22,900.0	12,750.0	15,396.0	12,380.6	88.9	36.1	-0.51	-10,185.9	-958.2	369.4	274.0	95.40	3.873			
23,000.0	12,750.0	15,292.5	12,381.2	89.8	35.2	-1.43	-10,289.1	-951.2	368.9	273.7	95.21	3.875			
23,100.0	12,750.0	15,190.5	12,382.9	90.6	34.4	-2.22	-10,391.0	-945.2	367.4	272.3	95.11	3.863			
23,171.6	12,750.0	15,124.5	12,383.5	91.2	33.8	-2.56	-10,456.9	-942.4	366.8	271.6	95.27	3.850			
23,200.0	12,750.0	15,096.6	12,383.5	91.5	33.6	-2.64	-10,484.9	-941.5	366.9	271.6	95.30	3.850			
23,300.0	12,750.0	14,995.4	12,383.8	92.3	32.8	-2.89	-10,586.0	-939.0	366.7	271.3	95.34	3.846			
23,316.5	12,750.0	14,979.5	12,383.8	92.4	32.6	-2.93	-10,601.8	-938.6	366.7	271.3	95.37	3.845			
23,400.0	12,750.0	14,901.7	12,383.5	93.1	32.0	-3.16	-10,679.6	-936.3	367.1	271.6	95.57	3.841			
23,500.0	12,750.0	14,811.4	12,380.7	94.0	31.3	-3.48	-10,769.9	-933.2	370.3	274.5	95.87	3.863			
23,600.0	12,750.0	14,706.1	12,376.9	94.8	30.4	-3.45	-10,875.1	-932.1	373.9	278.0	95.91	3.899			
23,700.0	12,750.0	14,604.2	12,374.7	95.7	29.6	-2.61	-10,976.8	-936.5	375.8	279.7	96.10	3.910			
23,800.0	12,750.0	14,500.0	12,371.5	96.5	28.8	-1.69	-11,080.9	-941.4	378.6	282.4	96.27	3.933			
23,900.0	12,750.0	14,394.9	12,371.9	97.4	28.0	-0.56	-11,185.8	-947.8	378.1	281.7	96.46	3.920			
24,000.0	12,750.0	14,283.4	12,372.7	98.2	27.2	0.48	-11,297.1	-953.5	377.5	281.1	96.45	3.914			
24,100.0	12,750.0	14,188.6	12,375.5	99.0	26.5	1.11	-11,391.8	-956.7	374.6	277.6	96.97	3.863			
24,200.0	12,750.0	14,083.8	12,377.6	99.9	25.8	1.62	-11,496.6	-958.9	372.7	275.5	97.14	3.837			
24,300.0	12,750.0	13,989.2	12,379.9	100.7	25.1	1.85	-11,591.1	-959.4	370.3	272.7	97.64	3.793			
24,400.0	12,750.0	13,888.0	12,381.8	101.6	24.4	2.08	-11,692.3	-959.8	368.5	270.6	97.91	3.764			
24,500.0	12,750.0	13,791.7	12,383.3	102.4	23.8	1.98	-11,788.6	-958.2	366.9	268.6	98.31	3.732			
24,600.0	12,750.0	13,688.7	12,384.5	103.3	23.1	1.58	-11,891.5	-954.6	365.7	267.3	98.40	3.716			
24,700.0	12,750.0	13,588.0	12,386.1	104.1	22.5	1.24	-11,992.1	-951.4	364.0	265.4	98.62	3.691			
24,800.0	12,750.0	13,484.6	12,388.5	104.9	21.9	0.92	-12,095.4	-948.3	361.7	262.9	98.74	3.663			
24,900.0	12,750.0	13,382.7	12,391.5	105.8	21.3	0.74	-12,197.3	-946.1	358.7	259.8	98.96	3.625			
25,000.0	12,750.0	13,281.3	12,395.2	106.6	20.8	0.62	-12,298.6	-944.3	355.1	255.8	99.23	3.578			

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 801H - Slot BOATER FED COM 801H
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 801H	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
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)				
25,100.0	12,750.0	13,189.8	12,398.0	107.5	20.3	0.52	-12,390.0	-942.7	352.0	252.1	99.94	3.522		
25,127.1	12,750.0	13,167.3	12,398.2	107.7	20.2	0.49	-12,412.6	-942.3	351.8	251.6	100.22	3.511	CC, ES	
25,200.0	12,750.0	13,101.6	12,397.2	108.3	19.9	0.43	-12,478.3	-941.3	352.9	252.1	100.75	3.502	SF	
25,300.0	12,750.0	13,004.5	12,394.7	109.2	19.5	0.53	-12,575.3	-940.9	355.4	254.1	101.27	3.510		
25,400.0	12,750.0	12,904.0	12,392.3	110.0	19.1	1.09	-12,675.7	-943.5	357.9	256.1	101.79	3.516		
25,500.0	12,750.0	12,828.0	12,388.5	110.9	18.8	1.64	-12,751.6	-946.2	363.2	260.2	102.99	3.527		
25,600.0	12,750.0	12,757.0	12,379.7	111.7	18.6	2.65	-12,821.7	-952.3	376.2	272.1	104.05	3.615		
25,700.0	12,750.0	12,703.7	12,368.5	112.6	18.5	3.45	-12,873.6	-957.7	398.2	293.9	104.39	3.815		
25,800.0	12,750.0	12,646.7	12,349.7	113.4	18.4	3.92	-12,927.2	-961.6	431.4	327.4	104.00	4.148		
25,900.0	12,750.0	12,546.7	12,313.5	114.3	18.2	3.42	-13,020.4	-959.3	467.4	362.9	104.51	4.473		
26,000.0	12,750.0	12,476.8	12,287.9	115.1	18.1	3.11	-13,085.4	-957.7	504.3	400.1	104.17	4.841		
26,100.0	12,750.0	12,450.0	12,276.7	115.9	18.1	2.96	-13,109.7	-956.8	548.5	446.4	102.01	5.376		
26,146.6	12,750.0	12,421.5	12,263.0	116.3	18.0	2.76	-13,134.6	-955.6	571.3	469.7	101.58	5.624		

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 801H - Slot BOATER FED COM 801H
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 801H	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													Rule Assigned:				
Offset				Semi Major Axis		Highside		Offset Wellbore Centre		Distance		No-Go		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Distance	Distance	Factor				
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	(usft)					
(usft)	(usft)	(usft)	(usft)														
25,900.0	12,750.0	12,928.4	12,840.4	114.3	24.8	-95.33	-13,336.7	39.4	986.8	824.0	162.85	6.060					
26,000.0	12,750.0	12,870.4	12,786.7	115.1	24.8	-92.17	-13,358.6	40.2	974.3	809.6	164.70	5.915					
26,092.7	12,750.0	12,837.7	12,755.5	115.9	24.8	-90.32	-13,368.5	40.5	970.3	804.8	165.47	5.864 CC, ES					
26,100.0	12,750.0	12,835.6	12,753.5	115.9	24.8	-90.21	-13,369.0	40.5	970.3	804.8	165.49	5.863 SF					
26,146.6	12,750.0	12,824.0	12,742.2	116.3	24.8	-89.54	-13,372.0	40.6	971.7	806.2	165.41	5.874					

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 801H - Slot BOATER FED COM 801H
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 801H	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)					
20,300.0	12,750.0	17,503.0	12,499.7	67.3	58.0	-68.45	-8,294.8	-346.4	988.1	900.3	87.81	11.252			
20,400.0	12,750.0	17,503.0	12,499.7	68.1	58.0	-68.45	-8,294.8	-346.4	918.3	825.4	92.83	9.892			
20,500.0	12,750.0	17,503.0	12,499.7	68.9	58.0	-68.45	-8,294.8	-346.4	854.5	756.2	98.24	8.697			
20,600.0	12,750.0	17,503.0	12,499.7	69.8	58.0	-68.45	-8,294.8	-346.4	798.1	694.3	103.86	7.685			
20,700.0	12,750.0	17,503.0	12,499.7	70.6	58.0	-68.45	-8,294.8	-346.4	750.9	641.6	109.33	6.869			
20,800.0	12,750.0	17,503.0	12,499.7	71.4	58.0	-68.45	-8,294.8	-346.4	714.7	600.6	114.14	6.262			
20,900.0	12,750.0	17,503.0	12,499.7	72.3	58.0	-68.45	-8,294.8	-346.4	691.2	573.5	117.68	5.873			
21,000.0	12,750.0	17,503.0	12,499.7	73.1	58.0	-68.45	-8,294.8	-346.4	681.6	562.2	119.41	5.708			
21,015.5	12,750.0	17,503.0	12,499.7	73.2	58.0	-68.45	-8,294.8	-346.4	681.4	562.0	119.49	5.703			
21,100.0	12,750.0	17,453.5	12,499.2	73.9	57.6	-68.49	-8,344.2	-343.4	684.9	565.2	119.63	5.725			
21,200.0	12,750.0	17,359.1	12,497.7	74.7	56.9	-68.51	-8,438.4	-338.1	689.8	569.9	119.87	5.754			
21,300.0	12,750.0	17,218.4	12,498.5	75.6	55.7	-68.73	-8,578.9	-331.3	693.3	572.9	120.43	5.757			
21,400.0	12,750.0	17,140.0	12,502.3	76.4	55.1	-69.12	-8,657.1	-327.3	695.3	574.4	120.94	5.749			
21,500.0	12,750.0	17,048.7	12,506.1	77.2	54.3	-69.58	-8,748.1	-320.7	699.6	578.1	121.52	5.757			
21,600.0	12,750.0	16,950.9	12,507.7	78.1	53.5	-69.85	-8,845.7	-314.4	704.2	582.2	122.03	5.770			
21,700.0	12,750.0	16,822.2	12,507.4	78.9	52.5	-69.91	-8,974.3	-310.2	706.2	583.7	122.59	5.761			
21,800.0	12,750.0	16,718.4	12,506.8	79.7	51.7	-69.88	-9,078.1	-308.9	706.7	583.7	123.00	5.746			
21,900.0	12,750.0	16,611.6	12,505.1	80.6	50.9	-69.71	-9,184.9	-308.8	706.4	583.0	123.36	5.726			
22,000.0	12,750.0	16,512.0	12,508.4	81.4	50.2	-69.97	-9,284.4	-307.7	705.4	581.4	124.01	5.688			
22,063.3	12,750.0	16,454.0	12,511.6	81.9	49.7	-70.24	-9,342.3	-306.2	705.1	580.6	124.48	5.664			
22,100.0	12,750.0	16,422.0	12,513.4	82.2	49.5	-70.40	-9,374.2	-305.1	705.2	580.5	124.75	5.653			
22,200.0	12,750.0	16,338.8	12,518.4	83.1	48.9	-70.87	-9,457.2	-301.1	707.0	581.5	125.48	5.634			
22,300.0	12,750.0	16,246.3	12,524.2	83.9	48.2	-71.47	-9,549.2	-294.1	711.1	584.8	126.31	5.630			
22,400.0	12,750.0	16,151.3	12,532.0	84.8	47.5	-72.23	-9,643.6	-286.6	715.2	587.9	127.26	5.619			
22,500.0	12,750.0	16,062.4	12,538.3	85.6	46.8	-72.89	-9,731.9	-278.1	721.2	593.1	128.09	5.630			
22,600.0	12,750.0	15,958.4	12,545.0	86.4	46.1	-73.60	-9,835.2	-268.2	727.5	598.4	129.14	5.634			
22,700.0	12,750.0	15,840.3	12,550.0	87.3	45.2	-74.14	-9,952.8	-259.5	732.6	602.3	130.24	5.625			
22,800.0	12,750.0	15,697.7	12,553.1	88.1	44.2	-74.39	-10,095.4	-257.7	731.7	600.6	131.18	5.578			
22,862.4	12,750.0	15,652.1	12,553.2	88.6	43.9	-74.38	-10,140.9	-257.8	731.0	599.5	131.57	5.556			
22,900.0	12,750.0	15,620.4	12,552.5	88.9	43.7	-74.33	-10,172.6	-257.5	731.3	599.5	131.77	5.549			
23,000.0	12,750.0	15,498.7	12,549.4	89.8	42.9	-74.06	-10,294.3	-258.0	730.6	598.2	132.38	5.519			
23,100.0	12,750.0	15,374.8	12,543.0	90.6	42.1	-73.43	-10,417.9	-263.4	726.9	594.2	132.70	5.478			
23,200.0	12,750.0	15,269.4	12,537.3	91.5	41.5	-72.81	-10,522.9	-270.8	720.8	587.7	133.07	5.417			
23,300.0	12,750.0	15,170.9	12,532.3	92.3	40.9	-72.24	-10,621.0	-277.6	714.8	581.3	133.51	5.354			
23,400.0	12,750.0	15,064.0	12,527.3	93.1	40.3	-71.63	-10,727.5	-285.3	708.4	574.5	133.90	5.291			
23,500.0	12,750.0	14,977.8	12,523.2	94.0	39.8	-71.14	-10,813.4	-291.2	702.4	568.0	134.48	5.223			
23,600.0	12,750.0	14,891.9	12,518.3	94.8	39.3	-70.61	-10,899.0	-296.0	698.2	563.2	135.00	5.171			
23,656.0	12,750.0	14,855.9	12,515.7	95.3	39.1	-70.37	-10,934.9	-297.2	697.3	562.0	135.28	5.155			
23,700.0	12,750.0	14,820.4	12,513.8	95.7	38.9	-70.21	-10,970.4	-297.2	697.7	562.2	135.50	5.149			
23,800.0	12,750.0	14,691.3	12,513.2	96.5	38.2	-70.15	-11,099.4	-296.3	697.7	561.3	136.39	5.116			
23,900.0	12,750.0	14,601.4	12,520.3	97.4	37.7	-70.71	-11,189.0	-295.2	695.4	557.8	137.59	5.054			
23,936.7	12,750.0	14,574.6	12,522.7	97.7	37.6	-70.91	-11,215.7	-294.3	695.1	557.1	138.00	5.037			
24,000.0	12,750.0	14,531.9	12,524.2	98.2	37.3	-71.06	-11,258.3	-292.7	696.0	557.5	138.49	5.026			
24,100.0	12,750.0	14,453.0	12,520.9	99.0	36.9	-70.89	-11,337.0	-288.9	700.9	561.9	139.00	5.043			
24,200.0	12,750.0	14,335.9	12,515.4	99.9	36.3	-70.60	-11,453.9	-282.6	706.7	566.8	139.94	5.050			
24,300.0	12,750.0	14,219.2	12,515.1	100.7	35.8	-70.64	-11,570.5	-279.1	708.6	567.6	141.04	5.024			
24,400.0	12,750.0	14,124.4	12,517.4	101.6	35.4	-70.87	-11,665.2	-275.9	710.1	568.0	142.09	4.998			
24,500.0	12,750.0	14,018.8	12,519.4	102.4	34.9	-71.10	-11,770.7	-272.4	711.7	568.5	143.23	4.969			
24,600.0	12,750.0	13,899.8	12,520.4	103.3	34.4	-71.18	-11,889.7	-271.0	711.6	567.3	144.35	4.930			
24,700.0	12,750.0	13,790.4	12,521.0	104.1	34.0	-71.14	-11,999.1	-272.9	708.8	563.5	145.34	4.877			
24,800.0	12,750.0	13,695.3	12,521.4	104.9	33.7	-71.11	-12,094.2	-274.2	706.4	560.1	146.32	4.828			

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 801H - Slot BOATER FED COM 801H
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 801H	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)			
24,900.0	12,750.0	13,595.7	12,521.7	105.8	33.4	-71.08	-12,193.8	-275.3	704.3	557.0	147.32	4.781	
25,000.0	12,750.0	13,469.1	12,523.0	106.6	33.0	-71.07	-12,320.3	-278.2	701.1	552.7	148.32	4.727	
25,100.0	12,750.0	13,378.1	12,525.7	107.5	32.7	-71.17	-12,411.2	-281.7	695.5	546.0	149.46	4.653	
25,200.0	12,750.0	13,270.4	12,528.6	108.3	32.5	-71.27	-12,518.8	-285.3	690.5	540.0	150.57	4.586	
25,300.0	12,750.0	13,183.8	12,530.1	109.2	32.3	-71.28	-12,605.3	-288.4	685.7	534.0	151.68	4.521	
25,400.0	12,750.0	13,081.0	12,529.1	110.0	32.1	-71.06	-12,708.0	-292.8	681.0	528.3	152.62	4.462	
25,500.0	12,750.0	12,987.0	12,526.5	110.9	31.9	-70.72	-12,801.9	-296.5	677.3	523.8	153.49	4.412	
25,600.0	12,750.0	12,893.0	12,522.0	111.7	31.8	-70.26	-12,895.7	-299.1	675.2	520.9	154.29	4.376	
25,665.5	12,750.0	12,843.9	12,517.8	112.3	31.7	-69.85	-12,944.6	-300.9	674.3	519.7	154.67	4.360 CC, ES	
25,700.0	12,750.0	12,818.7	12,514.6	112.6	31.7	-69.57	-12,969.6	-301.6	674.6	519.8	154.78	4.358 SF	
25,800.0	12,750.0	12,763.1	12,504.1	113.4	31.6	-68.69	-13,024.1	-302.7	679.0	524.4	154.54	4.394	
25,900.0	12,750.0	12,704.0	12,484.1	114.3	31.5	-67.13	-13,079.7	-302.3	691.3	538.1	153.27	4.511	
26,000.0	12,750.0	12,676.0	12,471.7	115.1	31.5	-66.20	-13,104.8	-301.3	711.4	560.8	150.57	4.725	
26,100.0	12,750.0	12,638.1	12,452.7	115.9	31.4	-64.85	-13,137.5	-298.9	740.0	592.9	147.09	5.031	
26,146.6	12,750.0	12,610.0	12,437.2	116.3	31.3	-63.79	-13,160.7	-296.3	756.3	610.7	145.59	5.195	

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 801H - Slot BOATER FED COM 801H
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 801H	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)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		No-Go Distance (usft)	Separation Factor	Warning		
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)					
20,300.0	12,750.0	17,275.0	12,593.0	67.3	50.6	2.24	-8,528.5	-984.1	955.8	909.9	45.95	20.803			
20,400.0	12,750.0	17,275.0	12,593.0	68.1	50.6	2.24	-8,528.5	-984.1	857.3	810.8	46.56	18.412			
20,500.0	12,750.0	17,275.0	12,593.0	68.9	50.6	2.24	-8,528.5	-984.1	759.2	711.9	47.37	16.029			
20,600.0	12,750.0	17,275.0	12,593.0	69.8	50.6	2.24	-8,528.5	-984.1	661.7	613.3	48.47	13.653			
20,700.0	12,750.0	17,275.0	12,593.0	70.6	50.6	2.24	-8,528.5	-984.1	565.1	515.0	50.07	11.287			
20,800.0	12,750.0	17,275.0	12,593.0	71.4	50.6	2.24	-8,528.5	-984.1	469.9	417.3	52.55	8.941			
20,900.0	12,750.0	17,275.0	12,593.0	72.3	50.6	2.24	-8,528.5	-984.1	377.1	320.4	56.70	6.651			
21,000.0	12,750.0	17,275.0	12,593.0	73.1	50.6	2.24	-8,528.5	-984.1	289.2	225.1	64.11	4.511			
21,100.0	12,750.0	17,275.0	12,593.0	73.9	50.6	2.24	-8,528.5	-984.1	212.3	134.8	77.47	2.740	Normal Operations		
21,200.0	12,750.0	17,275.0	12,593.0	74.7	50.6	2.24	-8,528.5	-984.1	162.8	68.0	94.85	1.717	Caution - Monitor Closely		
21,242.8	12,750.0	17,275.0	12,593.0	75.1	50.6	2.24	-8,528.5	-984.1	157.1	59.0	98.14	1.601	Caution - Monitor Closely, CC		
21,300.0	12,750.0	17,226.7	12,591.0	75.6	50.2	2.08	-8,576.8	-983.3	159.4	61.4	98.01	1.626	Caution - Monitor Closely		
21,400.0	12,750.0	17,125.2	12,584.9	76.4	49.3	1.55	-8,678.0	-980.9	165.3	67.6	97.68	1.692	Caution - Monitor Closely		
21,500.0	12,750.0	17,020.3	12,582.5	77.2	48.3	1.28	-8,782.9	-979.1	167.5	70.2	97.38	1.720	Caution - Monitor Closely		
21,600.0	12,750.0	16,921.6	12,580.2	78.1	47.4	1.18	-8,881.6	-977.9	169.8	72.6	97.19	1.747	Caution - Monitor Closely		
21,700.0	12,750.0	16,819.6	12,578.2	78.9	46.5	1.22	-8,983.6	-977.1	171.8	74.8	96.99	1.771	Caution - Monitor Closely		
21,800.0	12,750.0	16,718.1	12,577.7	79.7	45.6	1.41	-9,085.0	-976.6	172.4	75.5	96.84	1.780	Caution - Monitor Closely		
21,900.0	12,750.0	16,617.2	12,577.5	80.6	44.7	1.71	-9,186.0	-976.5	172.6	75.8	96.73	1.784	Caution - Monitor Closely		
21,983.4	12,750.0	16,534.1	12,577.8	81.3	44.0	2.16	-9,269.0	-977.1	172.3	75.6	96.73	1.782	Caution - Monitor Closely		
22,000.0	12,750.0	16,517.7	12,577.8	81.4	43.8	2.24	-9,285.4	-977.1	172.3	75.6	96.73	1.782	Caution - Monitor Closely		
22,100.0	12,750.0	16,421.4	12,576.8	82.2	43.0	2.45	-9,381.7	-976.9	173.4	76.6	96.76	1.792	Caution - Monitor Closely		
22,200.0	12,750.0	16,322.3	12,574.0	83.1	42.1	2.19	-9,480.8	-975.2	176.2	79.5	96.63	1.823	Caution - Monitor Closely		
22,300.0	12,750.0	16,222.2	12,571.2	83.9	41.2	1.31	-9,580.8	-971.6	178.9	82.5	96.36	1.856	Caution - Monitor Closely		
22,400.0	12,750.0	16,115.9	12,569.8	84.8	40.2	0.26	-9,686.9	-967.2	180.2	84.3	95.86	1.880	Caution - Monitor Closely		
22,500.0	12,750.0	16,011.2	12,572.6	85.6	39.3	0.25	-9,791.6	-966.2	177.5	82.0	95.54	1.858	Caution - Monitor Closely		
22,600.0	12,750.0	15,913.0	12,575.2	86.4	38.4	0.63	-9,889.7	-966.3	174.8	79.2	95.66	1.828	Caution - Monitor Closely		
22,700.0	12,750.0	15,812.5	12,577.8	87.3	37.5	0.90	-9,990.2	-966.1	172.3	76.6	95.67	1.801	Caution - Monitor Closely		
22,800.0	12,750.0	15,712.8	12,580.5	88.1	36.7	1.10	-10,089.9	-965.7	169.6	73.9	95.72	1.772	Caution - Monitor Closely		
22,900.0	12,750.0	15,615.3	12,582.5	88.9	35.8	1.24	-10,187.4	-965.1	167.5	71.7	95.89	1.747	Caution - Monitor Closely		
22,944.0	12,750.0	15,573.0	12,582.7	89.3	35.5	1.02	-10,229.6	-964.0	167.3	71.4	95.94	1.744	Caution - Monitor Closely		
23,000.0	12,750.0	15,518.2	12,582.5	89.8	35.0	0.34	-10,284.4	-961.5	167.5	71.6	95.89	1.747	Caution - Monitor Closely		
23,100.0	12,750.0	15,422.7	12,581.0	90.6	34.1	-2.34	-10,379.5	-952.6	169.2	73.5	95.73	1.768	Caution - Monitor Closely		
23,200.0	12,750.0	15,321.9	12,577.4	91.5	33.1	-7.04	-10,479.0	-937.2	174.0	78.4	95.62	1.820	Caution - Monitor Closely		
23,300.0	12,750.0	15,224.6	12,575.4	92.3	32.2	-9.56	-10,575.8	-928.2	177.3	81.3	95.95	1.847	Caution - Monitor Closely		
23,400.0	12,750.0	15,123.5	12,570.4	93.1	31.3	-11.33	-10,676.5	-920.6	183.4	87.1	96.32	1.904	Caution - Monitor Closely		
23,500.0	12,750.0	15,011.2	12,568.8	94.0	30.3	-11.74	-10,788.7	-917.8	185.1	88.9	96.19	1.924	Caution - Monitor Closely		
23,600.0	12,750.0	14,912.7	12,570.3	94.8	29.4	-11.23	-10,887.2	-918.8	183.2	86.9	96.33	1.902	Caution - Monitor Closely		
23,700.0	12,750.0	14,812.8	12,570.9	95.7	28.6	-10.49	-10,987.0	-920.3	182.2	85.8	96.39	1.890	Caution - Monitor Closely		
23,800.0	12,750.0	14,709.7	12,571.5	96.5	27.7	-7.72	-11,089.9	-928.3	180.2	84.2	96.07	1.876	Caution - Monitor Closely		
23,900.0	12,750.0	14,612.2	12,571.6	97.4	26.9	-2.85	-11,186.3	-942.6	178.7	82.3	96.40	1.853	Caution - Monitor Closely		
24,000.0	12,750.0	14,510.9	12,572.1	98.2	26.2	3.23	-11,285.9	-960.6	178.2	80.5	97.66	1.825	Caution - Monitor Closely		
24,013.0	12,750.0	14,498.1	12,572.2	98.3	26.1	3.92	-11,298.6	-962.6	178.2	80.3	97.90	1.820	Caution - Monitor Closely		
24,100.0	12,750.0	14,411.2	12,573.1	99.0	25.4	7.53	-11,384.9	-972.9	178.5	79.1	99.41	1.795	Caution - Monitor Closely		
24,200.0	12,750.0	14,310.9	12,573.8	99.9	24.7	9.79	-11,484.9	-978.9	178.8	78.2	100.65	1.777	Caution - Monitor Closely		
24,300.0	12,750.0	14,210.5	12,574.0	100.7	23.9	11.63	-11,585.2	-983.7	179.7	77.8	101.83	1.764	Caution - Monitor Closely		
24,400.0	12,750.0	14,103.9	12,575.9	101.6	23.1	12.55	-11,691.8	-985.2	178.4	76.3	102.10	1.748	Caution - Monitor Closely		
24,500.0	12,750.0	14,002.5	12,582.2	102.4	22.4	15.11	-11,792.8	-990.8	173.9	70.1	103.81	1.675	Caution - Monitor Closely		
24,600.0	12,750.0	13,904.3	12,587.5	103.3	21.7	17.83	-11,890.7	-996.8	170.8	64.6	106.15	1.609	Caution - Monitor Closely		
24,700.0	12,750.0	13,802.0	12,591.9	104.1	21.0	19.22	-11,992.9	-998.6	167.6	60.3	107.30	1.562	Caution - Monitor Closely		
24,800.0	12,750.0	13,703.6	12,595.2	104.9	20.3	18.72	-12,091.1	-995.0	163.6	56.1	107.49	1.522	Caution - Monitor Closely		
24,900.0	12,750.0	13,606.4	12,595.3	105.8	19.6	16.50	-12,188.1	-987.3	161.3	54.7	106.63	1.513	Caution - Monitor Closely, 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 801H - Slot BOATER FED COM 801H
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 801H	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		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)				
25,000.0	12,750.0	13,506.6	12,594.2	106.6	19.0	13.56	-12,287.4	-978.1	160.3	55.2	105.17	1.524	Caution - Monitor Closely	
25,065.5	12,750.0	13,442.5	12,593.4	107.2	18.6	11.68	-12,351.3	-972.3	159.9	55.5	104.46	1.531	Caution - Monitor Closely	
25,100.0	12,750.0	13,408.9	12,592.7	107.5	18.4	10.67	-12,384.6	-969.2	160.0	55.9	104.14	1.537	Caution - Monitor Closely	
25,200.0	12,750.0	13,314.4	12,589.3	108.3	17.9	7.94	-12,478.8	-961.0	162.4	58.8	103.61	1.567	Caution - Monitor Closely	
25,300.0	12,750.0	13,213.8	12,584.2	109.2	17.4	5.61	-12,579.0	-953.9	166.8	63.7	103.02	1.619	Caution - Monitor Closely	
25,400.0	12,750.0	13,110.8	12,580.5	110.0	17.0	3.97	-12,681.7	-948.4	170.0	67.3	102.66	1.656	Caution - Monitor Closely	
25,500.0	12,750.0	13,015.9	12,577.2	110.9	16.6	2.88	-12,776.5	-944.4	173.3	70.2	103.09	1.681	Caution - Monitor Closely	
25,600.0	12,750.0	12,930.3	12,569.6	111.7	16.3	1.58	-12,861.6	-939.8	182.1	78.3	103.76	1.755	Caution - Monitor Closely	
25,700.0	12,750.0	12,852.6	12,555.6	112.6	16.1	-1.09	-12,937.4	-930.4	200.3	96.7	103.62	1.933	Caution - Monitor Closely	
25,800.0	12,750.0	12,783.0	12,535.5	113.4	16.0	-3.67	-13,003.1	-919.7	230.1	127.6	102.55	2.244	Caution - Monitor Closely	
25,900.0	12,750.0	12,715.0	12,508.6	114.3	15.8	-6.19	-13,064.2	-906.6	271.2	170.2	101.07	2.684	Normal Operations	
26,000.0	12,750.0	12,662.2	12,483.1	115.1	15.8	-7.72	-13,109.3	-896.2	321.6	223.2	98.38	3.269		
26,100.0	12,750.0	12,594.0	12,445.6	115.9	15.8	-8.65	-13,165.1	-885.5	378.3	280.8	97.51	3.880		
26,146.6	12,750.0	12,563.4	12,428.1	116.3	15.8	-8.93	-13,189.8	-880.9	405.7	308.6	97.10	4.178		

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 801H - Slot BOATER FED COM 801H
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 801H	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
Rule Assigned:															
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset 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		
20,400.0	12,750.0	17,054.0	12,361.8	68.1	78.4	2.35	-8,529.4	-993.9	928.8	870.9	57.90	16.042			
20,500.0	12,750.0	17,054.0	12,361.8	68.9	78.4	2.35	-8,529.4	-993.9	839.0	779.9	59.13	14.189			
20,600.0	12,750.0	17,054.0	12,361.8	69.8	78.4	2.35	-8,529.4	-993.9	751.8	690.9	60.86	12.353			
20,700.0	12,750.0	17,054.0	12,361.8	70.6	78.4	2.35	-8,529.4	-993.9	668.2	604.9	63.30	10.555			
20,800.0	12,750.0	17,054.0	12,361.8	71.4	78.4	2.35	-8,529.4	-993.9	589.7	522.9	66.75	8.834			
20,900.0	12,750.0	17,054.0	12,361.8	72.3	78.4	2.35	-8,529.4	-993.9	518.6	447.2	71.49	7.255			
21,000.0	12,750.0	17,054.0	12,361.8	73.1	78.4	2.35	-8,529.4	-993.9	458.6	380.9	77.61	5.908			
21,100.0	12,750.0	17,054.0	12,361.8	73.9	78.4	2.35	-8,529.4	-993.9	414.2	329.6	84.53	4.900			
21,200.0	12,750.0	17,054.0	12,361.8	74.7	78.4	2.35	-8,529.4	-993.9	390.9	300.4	90.55	4.317			
21,300.0	12,750.0	16,987.0	12,363.6	75.6	77.3	2.41	-8,596.4	-993.5	386.9	295.0	91.89	4.210			
21,400.0	12,750.0	16,881.0	12,367.5	76.4	75.6	2.57	-8,702.3	-993.4	383.2	291.7	91.58	4.185			
21,500.0	12,750.0	16,781.6	12,371.9	77.2	74.0	2.38	-8,801.6	-991.0	378.7	287.2	91.47	4.140			
21,600.0	12,750.0	16,688.3	12,374.9	78.1	72.5	2.12	-8,894.8	-988.2	375.5	283.8	91.63	4.098			
21,700.0	12,750.0	16,593.6	12,376.5	78.9	71.0	1.94	-8,989.4	-986.0	373.7	282.0	91.75	4.073			
21,766.4	12,750.0	16,530.7	12,376.8	79.5	70.0	1.87	-9,052.4	-984.9	373.4	281.5	91.85	4.065			
21,800.0	12,750.0	16,502.0	12,376.6	79.7	69.6	1.84	-9,081.0	-984.4	373.6	281.6	92.01	4.060			
21,900.0	12,750.0	16,414.0	12,373.7	80.6	68.2	1.70	-9,168.9	-982.7	376.8	284.5	92.36	4.080			
22,000.0	12,750.0	16,309.1	12,369.7	81.4	66.5	1.59	-9,273.8	-981.1	380.6	288.4	92.19	4.129			
22,100.0	12,750.0	16,204.0	12,367.1	82.2	64.9	1.65	-9,378.8	-980.5	383.1	291.0	92.05	4.162			
22,200.0	12,750.0	16,087.7	12,366.8	83.1	63.0	1.81	-9,495.1	-980.5	383.5	292.0	91.45	4.193			
22,298.0	12,750.0	15,999.1	12,369.2	83.9	61.6	1.83	-9,583.7	-979.6	381.0	289.1	91.85	4.147			
22,300.0	12,750.0	15,997.6	12,369.2	83.9	61.6	1.83	-9,585.2	-979.6	381.0	289.1	91.87	4.147			
22,400.0	12,750.0	15,908.3	12,366.9	84.8	60.2	1.33	-9,674.4	-975.4	383.4	291.2	92.23	4.157			
22,500.0	12,750.0	15,789.7	12,365.4	85.6	58.4	0.86	-9,792.9	-971.2	384.7	293.3	91.49	4.205			
22,600.0	12,750.0	15,688.4	12,367.9	86.4	56.8	0.59	-9,894.1	-968.3	382.2	290.7	91.50	4.177			
22,700.0	12,750.0	15,573.2	12,372.7	87.3	55.0	0.32	-10,009.1	-965.3	378.0	287.1	90.85	4.161			
22,800.0	12,750.0	15,477.7	12,378.4	88.1	53.5	0.04	-10,104.5	-962.5	372.1	280.9	91.17	4.081			
22,900.0	12,750.0	15,396.0	12,380.6	88.9	52.3	-0.48	-10,185.9	-958.3	369.4	277.3	92.09	4.012			
23,000.0	12,750.0	15,292.6	12,381.2	89.8	50.7	-1.40	-10,289.2	-951.4	368.9	276.8	92.05	4.008			
23,100.0	12,750.0	15,190.5	12,382.9	90.6	49.1	-2.20	-10,391.0	-945.3	367.4	275.3	92.11	3.989			
23,171.7	12,750.0	15,124.4	12,383.5	91.2	48.1	-2.53	-10,457.0	-942.5	366.8	274.3	92.49	3.966			
23,200.0	12,750.0	15,096.6	12,383.5	91.5	47.7	-2.62	-10,484.9	-941.7	366.9	274.3	92.57	3.963			
23,300.0	12,750.0	14,995.4	12,383.8	92.3	46.2	-2.86	-10,586.0	-939.2	366.7	273.9	92.74	3.954			
23,316.6	12,750.0	14,979.5	12,383.8	92.4	45.9	-2.90	-10,602.0	-938.8	366.7	273.9	92.81	3.951			
23,400.0	12,750.0	14,901.7	12,383.5	93.1	44.8	-3.14	-10,679.6	-936.4	367.1	273.9	93.24	3.938			
23,500.0	12,750.0	14,811.4	12,380.7	94.0	43.5	-3.46	-10,769.9	-933.3	370.3	276.5	93.86	3.946			
23,600.0	12,750.0	14,706.1	12,376.9	94.8	41.9	-3.43	-10,875.1	-932.3	373.9	280.0	93.93	3.981			
23,700.0	12,750.0	14,604.3	12,374.7	95.7	40.4	-2.58	-10,976.8	-936.6	375.8	281.6	94.17	3.991			
23,800.0	12,750.0	14,500.0	12,371.5	96.5	38.9	-1.66	-11,080.9	-941.5	378.6	284.3	94.35	4.013			
23,900.0	12,750.0	14,394.9	12,371.9	97.4	37.4	-0.54	-11,185.8	-947.9	378.1	283.6	94.55	3.999			
24,000.0	12,750.0	14,283.5	12,372.7	98.2	35.9	0.50	-11,297.1	-953.7	377.5	283.0	94.48	3.996			
24,100.0	12,750.0	14,188.7	12,375.5	99.0	34.6	1.14	-11,391.8	-956.9	374.6	279.4	95.20	3.935			
24,200.0	12,750.0	14,083.9	12,377.6	99.9	33.2	1.64	-11,496.6	-959.1	372.7	277.3	95.42	3.906			
24,300.0	12,750.0	13,989.3	12,379.9	100.7	31.9	1.88	-11,591.1	-959.6	370.3	274.2	96.13	3.852			
24,400.0	12,750.0	13,888.0	12,381.8	101.6	30.6	2.10	-11,692.4	-960.0	368.5	272.0	96.52	3.818			
24,500.0	12,750.0	13,791.8	12,383.3	102.4	29.4	2.00	-11,788.6	-958.3	366.9	269.8	97.11	3.779			
24,600.0	12,750.0	13,688.7	12,384.5	103.3	28.2	1.61	-11,891.5	-954.8	365.7	268.4	97.31	3.758			
24,700.0	12,750.0	13,588.1	12,386.1	104.1	27.9	1.27	-11,992.1	-951.5	364.0	266.4	97.66	3.728			
24,800.0	12,750.0	13,484.7	12,388.5	104.9	27.8	0.95	-12,095.4	-948.4	361.7	263.8	97.88	3.695			
24,900.0	12,750.0	13,382.8	12,391.5	105.8	27.8	0.77	-12,197.3	-946.2	358.7	260.5	98.22	3.652			
25,000.0	12,750.0	13,281.4	12,395.2	106.6	27.7	0.65	-12,298.6	-944.4	355.1	256.5	98.61	3.601			

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 801H - Slot BOATER FED COM 801H
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 801H	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												Rule Assigned:	
Measured Vertical				Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
25,100.0	12,750.0	13,189.9	12,398.0	107.5	27.6	0.55	-12,390.0	-942.9	352.0	252.5	99.56	3.536	
25,127.2	12,750.0	13,167.3	12,398.2	107.7	27.6	0.52	-12,412.7	-942.5	351.9	251.9	99.93	3.521 CC, ES	
25,200.0	12,750.0	13,101.6	12,397.2	108.3	22.2	0.45	-12,478.3	-941.4	352.9	252.3	100.61	3.507 SF	
25,300.0	12,750.0	13,004.6	12,394.7	109.2	21.2	0.55	-12,575.3	-941.1	355.4	254.3	101.16	3.514	
25,400.0	12,750.0	12,904.1	12,392.3	110.0	20.3	1.11	-12,675.7	-943.6	357.9	256.3	101.68	3.520	
25,500.0	12,750.0	12,828.0	12,388.5	110.9	19.7	1.66	-12,751.6	-946.4	363.2	260.3	102.94	3.529	
25,600.0	12,750.0	12,757.0	12,379.7	111.7	19.2	2.67	-12,821.8	-952.5	376.2	272.1	104.05	3.615	
25,700.0	12,750.0	12,703.7	12,368.6	112.6	18.8	3.47	-12,873.6	-957.9	398.2	293.7	104.50	3.811	
25,800.0	12,750.0	12,646.7	12,349.7	113.4	18.6	3.94	-12,927.2	-961.8	431.4	327.2	104.18	4.141	
25,900.0	12,750.0	12,546.8	12,313.6	114.3	18.3	3.44	-13,020.4	-959.5	467.4	362.8	104.66	4.466	
26,000.0	12,750.0	12,476.8	12,287.9	115.1	18.3	3.13	-13,085.4	-957.9	504.3	399.9	104.35	4.832	
26,100.0	12,750.0	12,450.0	12,276.7	115.9	18.2	2.98	-13,109.7	-957.0	548.4	446.1	102.29	5.362	
26,146.6	12,750.0	12,421.5	12,263.0	116.3	18.2	2.78	-13,134.6	-955.8	571.3	469.4	101.86	5.608	

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 801H - Slot BOATER FED COM 801H
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 801H	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)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
24,000.0	12,750.0	13,566.0	12,582.2	98.2	22.5	4.30	-12,226.8	-953.8	956.2	903.7	52.46	18.225		
24,100.0	12,750.0	13,566.0	12,582.2	99.0	22.5	4.30	-12,226.8	-953.8	857.9	805.3	52.67	16.289		
24,200.0	12,750.0	13,566.0	12,582.2	99.9	22.5	4.30	-12,226.8	-953.8	760.1	707.2	52.95	14.354		
24,300.0	12,750.0	13,566.0	12,582.2	100.7	22.5	4.30	-12,226.8	-953.8	663.0	609.6	53.39	12.417		
24,400.0	12,750.0	13,566.0	12,582.2	101.6	22.5	4.30	-12,226.8	-953.8	566.8	512.7	54.14	10.470		
24,500.0	12,750.0	13,566.0	12,582.2	102.4	22.5	4.30	-12,226.8	-953.8	472.3	416.8	55.51	8.508		
24,600.0	12,750.0	13,566.0	12,582.2	103.3	22.5	4.30	-12,226.8	-953.8	380.5	322.2	58.26	6.531		
24,700.0	12,750.0	13,566.0	12,582.2	104.1	22.5	4.30	-12,226.8	-953.8	294.2	230.1	64.07	4.591		
24,800.0	12,750.0	13,566.0	12,582.2	104.9	22.5	4.30	-12,226.8	-953.8	219.7	143.5	76.19	2.884 Normal Operations		
24,900.0	12,750.0	13,566.0	12,582.2	105.8	22.5	4.30	-12,226.8	-953.8	173.3	78.8	94.45	1.835 Caution - Monitor Closely		
24,941.3	12,750.0	13,566.0	12,582.2	106.1	22.5	4.30	-12,226.8	-953.8	168.3	68.6	99.66	1.689 Caution - Monitor Closely		
25,000.0	12,750.0	13,508.8	12,581.8	106.6	22.5	4.82	-12,284.0	-954.8	168.8	68.6	100.18	1.685 Caution - Monitor Closely		
25,100.0	12,750.0	13,408.7	12,581.1	107.5	22.4	5.49	-12,384.1	-955.8	169.7	68.9	100.82	1.684 Caution - Monitor Closely		
25,200.0	12,750.0	13,301.2	12,581.8	108.3	22.3	5.53	-12,491.6	-954.8	169.1	68.5	100.60	1.681 Caution - Monitor Closely		
25,278.4	12,750.0	13,228.7	12,583.9	109.0	22.2	5.64	-12,564.1	-954.2	166.9	65.4	101.47	1.645 Caution - Monitor Closely, CC		
25,300.0	12,750.0	13,209.9	12,583.7	109.2	22.2	5.46	-12,582.8	-953.5	167.1	65.4	101.70	1.643 Caution - Monitor Closely, ES, SF		
25,400.0	12,750.0	13,110.8	12,580.5	110.0	22.2	3.97	-12,681.7	-948.4	170.0	68.3	101.71	1.671 Caution - Monitor Closely		
25,500.0	12,750.0	13,015.9	12,577.2	110.9	22.1	2.88	-12,776.5	-944.4	173.3	71.1	102.17	1.696 Caution - Monitor Closely		
25,600.0	12,750.0	12,930.3	12,569.6	111.7	22.0	1.58	-12,861.6	-939.8	182.1	79.2	102.86	1.770 Caution - Monitor Closely		
25,700.0	12,750.0	12,852.6	12,555.6	112.6	22.0	-1.08	-12,937.4	-930.4	200.3	97.5	102.81	1.948 Caution - Monitor Closely		
25,800.0	12,750.0	12,783.0	12,535.5	113.4	21.9	-3.66	-13,003.1	-919.7	230.1	128.2	101.88	2.259 Caution - Monitor Closely		
25,900.0	12,750.0	12,715.0	12,508.6	114.3	21.8	-6.18	-13,064.2	-906.6	271.3	170.7	100.57	2.697 Normal Operations		
26,000.0	12,750.0	12,662.1	12,483.1	115.1	21.8	-7.71	-13,109.3	-896.2	321.6	223.5	98.13	3.277		
26,100.0	12,750.0	12,594.0	12,445.6	115.9	21.7	-8.64	-13,165.1	-885.5	378.3	281.0	97.35	3.886		
26,146.6	12,750.0	12,563.3	12,428.1	116.3	21.7	-8.93	-13,189.8	-881.0	405.7	308.7	96.99	4.183		

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 801H - Slot BOATER FED COM 801H
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 801H	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														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)	Offset Wellbore Centre	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
22,200.0	12,750.0	15,379.0	12,575.9	83.1	29.2	-5.23	-10,422.3	-943.2	953.1	899.3	53.80	17.715			
22,300.0	12,750.0	15,379.0	12,575.9	83.9	29.2	-5.23	-10,422.3	-943.2	855.0	801.0	53.98	15.839			
22,400.0	12,750.0	15,379.0	12,575.9	84.8	29.2	-5.23	-10,422.3	-943.2	757.4	703.2	54.23	13.967			
22,500.0	12,750.0	15,379.0	12,575.9	85.6	29.2	-5.23	-10,422.3	-943.2	660.5	605.9	54.60	12.097			
22,600.0	12,750.0	15,379.0	12,575.9	86.4	29.2	-5.23	-10,422.3	-943.2	564.7	509.5	55.24	10.223			
22,700.0	12,750.0	15,379.0	12,575.9	87.3	29.2	-5.23	-10,422.3	-943.2	470.6	414.2	56.40	8.344			
22,800.0	12,750.0	15,379.0	12,575.9	88.1	29.2	-5.23	-10,422.3	-943.2	379.6	320.9	58.72	6.465			
22,900.0	12,750.0	15,379.0	12,575.9	88.9	29.2	-5.23	-10,422.3	-943.2	294.5	230.9	63.61	4.629			
23,000.0	12,750.0	15,379.0	12,575.9	89.8	29.2	-5.23	-10,422.3	-943.2	222.1	148.4	73.67	3.015			
23,100.0	12,750.0	15,379.0	12,575.9	90.6	29.2	-5.23	-10,422.3	-943.2	178.7	90.5	88.24	2.025 Caution - Monitor Closely			
23,137.0	12,750.0	15,379.0	12,575.9	90.9	29.2	-5.23	-10,422.3	-943.2	174.8	82.9	91.89	1.903 Caution - Monitor Closely			
23,200.0	12,750.0	15,322.1	12,574.0	91.5	28.7	-7.74	-10,478.6	-934.6	177.8	85.2	92.56	1.921 Caution - Monitor Closely			
23,300.0	12,750.0	15,224.7	12,572.0	92.3	27.9	-10.20	-10,575.5	-925.5	181.1	87.9	93.24	1.943 Caution - Monitor Closely			
23,400.0	12,750.0	15,123.5	12,566.9	93.1	27.3	-11.92	-10,676.3	-917.9	187.3	93.5	93.79	1.997 Caution - Monitor Closely			
23,500.0	12,750.0	15,010.8	12,565.4	94.0	26.9	-12.31	-10,788.8	-915.2	189.0	95.5	93.53	2.021 Caution - Monitor Closely			
23,600.0	12,750.0	14,912.5	12,566.8	94.8	26.8	-11.82	-10,887.1	-916.2	187.1	93.3	93.79	1.995 Caution - Monitor Closely			
23,700.0	12,750.0	14,812.4	12,567.4	95.7	26.7	-11.09	-10,987.2	-917.7	186.0	92.1	93.92	1.981 Caution - Monitor Closely			
23,800.0	12,750.0	14,709.1	12,568.0	96.5	26.6	-8.37	-11,090.2	-925.7	184.0	90.5	93.50	1.968 Caution - Monitor Closely			
23,900.0	12,750.0	14,611.4	12,568.1	97.4	26.5	-3.58	-11,186.8	-940.1	182.3	88.5	93.72	1.945 Caution - Monitor Closely			
24,000.0	12,750.0	14,510.2	12,568.6	98.2	26.4	2.38	-11,286.4	-958.0	181.5	86.7	94.77	1.915 Caution - Monitor Closely			
24,033.9	12,750.0	14,476.6	12,569.0	98.5	26.4	4.06	-11,319.6	-963.0	181.4	86.1	95.37	1.902 Caution - Monitor Closely			
24,100.0	12,750.0	14,410.6	12,569.6	99.0	26.3	6.58	-11,385.1	-970.3	181.6	85.1	96.46	1.882 Caution - Monitor Closely			
24,200.0	12,750.0	14,310.6	12,570.3	99.9	26.2	8.79	-11,485.0	-976.3	181.8	84.1	97.74	1.860 Caution - Monitor Closely			
24,300.0	12,750.0	14,210.1	12,570.6	100.7	26.1	10.60	-11,585.3	-981.1	182.5	83.6	98.97	1.844 Caution - Monitor Closely			
24,400.0	12,750.0	14,103.3	12,572.5	101.6	26.0	11.50	-11,692.1	-982.6	181.2	82.0	99.21	1.827 Caution - Monitor Closely			
24,500.0	12,750.0	14,001.9	12,578.8	102.4	25.9	14.01	-11,793.2	-988.2	176.6	75.7	100.92	1.750 Caution - Monitor Closely			
24,600.0	12,750.0	13,903.7	12,584.0	103.3	25.8	16.66	-11,891.0	-994.1	173.3	70.0	103.32	1.677 Caution - Monitor Closely			
24,700.0	12,750.0	13,801.6	12,588.4	104.1	25.7	18.00	-11,993.0	-996.0	170.0	65.5	104.52	1.627 Caution - Monitor Closely			
24,800.0	12,750.0	13,703.5	12,591.7	104.9	25.6	17.47	-12,091.0	-992.3	166.0	61.1	104.89	1.583 Caution - Monitor Closely			
24,900.0	12,750.0	13,606.4	12,591.9	105.8	25.5	15.27	-12,187.8	-984.7	163.9	59.6	104.28	1.572 Caution - Monitor Closely, ES, SF			
25,000.0	12,750.0	13,506.6	12,590.7	106.6	25.4	12.37	-12,287.1	-975.5	163.1	60.0	103.08	1.582 Caution - Monitor Closely			
25,056.7	12,750.0	13,451.0	12,590.1	107.1	25.4	10.78	-12,342.5	-970.4	162.8	60.2	102.62	1.586 Caution - Monitor Closely, CC			
25,100.0	12,750.0	13,409.0	12,589.3	107.5	25.3	9.54	-12,384.3	-966.6	163.0	60.6	102.35	1.592 Caution - Monitor Closely			
25,200.0	12,750.0	13,314.5	12,585.8	108.3	25.3	6.87	-12,478.4	-958.4	165.5	63.3	102.17	1.620 Caution - Monitor Closely			
25,300.0	12,750.0	13,209.9	12,583.7	109.2	22.2	5.46	-12,582.8	-953.5	167.1	65.4	101.69	1.643 Caution - Monitor Closely			
25,400.0	12,750.0	13,110.8	12,580.5	110.0	22.2	3.97	-12,681.7	-948.4	170.0	68.3	101.71	1.671 Caution - Monitor Closely			
25,500.0	12,750.0	13,015.9	12,577.2	110.9	22.1	2.88	-12,776.5	-944.4	173.3	71.1	102.17	1.696 Caution - Monitor Closely			
25,600.0	12,750.0	12,930.3	12,569.6	111.7	22.0	1.58	-12,861.6	-939.8	182.1	79.2	102.86	1.770 Caution - Monitor Closely			
25,700.0	12,750.0	12,852.6	12,555.6	112.6	22.0	-1.08	-12,937.4	-930.4	200.3	97.5	102.81	1.948 Caution - Monitor Closely			
25,800.0	12,750.0	12,783.0	12,535.5	113.4	21.9	-3.66	-13,003.1	-919.7	230.1	128.2	101.88	2.259 Caution - Monitor Closely			
25,900.0	12,750.0	12,715.0	12,508.6	114.3	21.8	-6.18	-13,064.2	-906.6	271.3	170.7	100.57	2.697 Normal Operations			
26,000.0	12,750.0	12,662.1	12,483.1	115.1	21.8	-7.71	-13,109.3	-896.2	321.6	223.5	98.13	3.277			
26,100.0	12,750.0	12,594.0	12,445.6	115.9	21.7	-8.64	-13,165.1	-885.5	378.3	281.0	97.35	3.886			
26,146.6	12,750.0	12,563.3	12,428.1	116.3	21.7	-8.93	-13,189.8	-881.0	405.7	308.7	96.99	4.183			

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 801H - Slot BOATER FED COM 801H
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 801H	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: CHARLIE MURPHY 6 FC (18H, 15H, 14H, 12H) - CHARLIE MURPHY 6 WXY FC 18H (MRO) - CHARLIE MURPHY 6 WA FC 18H - Final												Offset Site Error:	0.0 usft
Survey Program: 20-r.5 MWD, 22789-r.5 MWD												Offset Well Error:	0.0 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis 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)			
20,800.0	12,750.0	12,519.0	12,402.0	71.4	23.5	68.62	-8,355.1	-1,868.8	989.7	892.4	97.31	10.171	
20,900.0	12,750.0	12,533.9	12,414.8	72.3	23.5	69.42	-8,362.1	-1,872.2	968.0	867.0	101.06	9.579	
21,000.0	12,750.0	12,583.5	12,456.9	73.1	23.3	72.04	-8,385.7	-1,883.5	954.7	850.5	104.28	9.155	
21,100.0	12,750.0	12,629.7	12,495.7	73.9	23.2	74.46	-8,408.7	-1,893.4	949.1	842.2	106.89	8.878	
21,117.3	12,750.0	12,635.9	12,500.7	74.1	23.2	74.77	-8,412.0	-1,894.8	948.9	841.7	107.27	8.846 CC, ES	
21,200.0	12,750.0	12,667.2	12,525.7	74.7	23.1	76.34	-8,429.6	-1,901.7	951.8	843.0	108.78	8.749	
21,300.0	12,750.0	12,765.9	12,596.5	75.6	23.3	80.76	-8,495.0	-1,921.6	960.9	850.6	110.38	8.706	
21,400.0	12,750.0	12,936.0	12,660.6	76.4	24.1	84.68	-8,649.2	-1,937.7	966.1	854.2	111.88	8.635	
21,500.0	12,750.0	12,992.8	12,664.9	77.2	24.3	84.96	-8,705.7	-1,941.5	973.1	860.0	113.13	8.602	
21,600.0	12,750.0	13,085.5	12,660.0	78.1	24.8	84.73	-8,797.8	-1,949.9	983.6	869.2	114.35	8.602	
21,700.0	12,750.0	13,199.4	12,650.4	78.9	25.4	84.22	-8,911.0	-1,958.2	992.6	877.0	115.65	8.583 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 801H - Slot BOATER FED COM 801H
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 801H	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											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)					
11,800.0	11,647.1	19,807.9	12,589.6	17.7	57.3	87.05	32.7	-740.1	996.5	900.9	95.57	10.426			
11,900.0	11,747.1	19,806.3	12,589.6	17.8	57.3	86.77	34.2	-740.2	902.4	807.0	95.40	9.459			
12,000.0	11,847.1	19,804.7	12,589.7	17.9	57.3	86.48	35.8	-740.4	809.9	714.8	95.12	8.514			
12,100.0	11,947.1	19,803.1	12,589.7	17.9	57.3	86.20	37.4	-740.6	719.3	624.6	94.67	7.598			
12,200.0	12,047.1	19,801.5	12,589.7	18.0	57.3	85.91	39.1	-740.7	631.5	537.6	93.96	6.721			
12,300.0	12,147.1	19,799.9	12,589.8	18.1	57.3	85.62	40.7	-740.9	548.0	455.2	92.86	5.901			
12,400.0	12,247.1	19,798.2	12,589.8	18.2	57.2	85.32	42.3	-741.1	470.9	379.8	91.18	5.165			
12,425.4	12,272.5	19,797.8	12,589.8	18.2	57.2	85.25	42.8	-741.1	452.8	362.1	90.64	4.995			
12,450.0	12,297.1	19,797.9	12,589.8	18.2	57.2	-96.92	42.6	-741.1	435.9	345.9	90.07	4.840			
12,475.0	12,322.0	19,799.1	12,589.8	18.2	57.2	-99.23	41.4	-741.0	419.7	330.3	89.43	4.693			
12,500.0	12,346.8	19,801.5	12,589.7	18.2	57.3	-101.08	39.1	-740.7	404.6	315.8	88.76	4.558			
12,525.0	12,371.4	19,805.0	12,589.7	18.2	57.3	-102.47	35.6	-740.4	390.6	302.6	88.06	4.436			
12,550.0	12,395.7	19,809.5	12,589.6	18.2	57.3	-103.41	31.1	-739.9	378.0	290.6	87.34	4.328			
12,575.0	12,419.6	19,815.2	12,589.5	18.2	57.4	-103.93	25.4	-739.3	366.8	280.2	86.62	4.235			
12,600.0	12,443.2	19,822.0	12,589.3	18.2	57.4	-104.05	18.7	-738.5	357.2	271.3	85.93	4.157			
12,625.0	12,466.3	19,829.8	12,589.2	18.2	57.5	-103.79	10.9	-737.6	349.3	264.0	85.29	4.095			
12,650.0	12,488.9	19,838.7	12,589.0	18.2	57.5	-103.17	2.1	-736.6	343.1	258.3	84.74	4.049			
12,675.0	12,510.9	19,848.0	12,588.9	18.2	57.6	-102.29	-7.1	-735.4	338.6	254.3	84.26	4.018			
12,700.0	12,532.2	19,859.8	12,588.7	18.2	57.7	-100.89	-18.8	-733.9	335.8	251.8	83.98	3.999			
12,725.0	12,552.8	19,871.9	12,588.5	18.2	57.8	-99.29	-30.9	-732.3	334.6	250.8	83.80	3.993 SF			
12,731.1	12,557.7	19,875.1	12,588.5	18.2	57.8	-98.86	-34.0	-731.9	334.6	250.8	83.78	3.993 CC, ES			
12,750.0	12,572.7	19,885.1	12,588.4	18.2	57.9	-97.43	-43.9	-730.5	335.0	251.2	83.77	3.999			
12,775.0	12,591.7	19,899.3	12,588.2	18.2	58.0	-95.35	-57.9	-728.5	336.8	252.9	83.87	4.016			
12,800.0	12,609.8	19,914.3	12,588.1	18.2	58.1	-93.10	-72.8	-726.3	339.8	255.7	84.07	4.042			
12,825.0	12,627.0	19,930.2	12,588.0	18.2	58.2	-90.74	-88.6	-723.9	343.9	259.5	84.37	4.076			
12,850.0	12,643.3	19,947.5	12,588.0	18.3	58.3	-88.25	-105.6	-721.2	348.9	264.2	84.75	4.117			
12,875.0	12,658.5	19,966.3	12,587.9	18.3	58.5	-85.68	-124.2	-718.1	354.6	269.4	85.21	4.162			
12,900.0	12,672.7	19,985.8	12,587.9	18.3	58.6	-83.16	-143.4	-715.0	360.8	275.1	85.69	4.210			
12,925.0	12,685.8	20,006.0	12,587.7	18.3	58.8	-80.73	-163.3	-711.7	367.2	281.1	86.17	4.262			
12,950.0	12,697.7	20,027.3	12,587.6	18.3	58.9	-78.41	-184.3	-708.1	373.9	287.3	86.66	4.315			
12,975.0	12,708.5	20,049.5	12,587.5	18.4	59.1	-76.24	-206.2	-704.4	380.6	293.5	87.15	4.367			
13,000.0	12,718.1	20,072.3	12,587.3	18.4	59.3	-74.28	-228.7	-700.7	387.2	299.6	87.61	4.420			
13,025.0	12,726.5	20,073.0	12,587.3	18.4	59.3	-73.40	-229.4	-700.6	394.3	307.1	87.10	4.526			
13,050.0	12,733.6	20,073.0	12,587.3	18.5	59.3	-72.41	-229.4	-700.6	402.4	316.0	86.34	4.660			
13,075.0	12,739.4	20,073.0	12,587.3	18.5	59.3	-71.30	-229.4	-700.6	411.5	326.1	85.35	4.821			
13,100.0	12,744.0	20,073.0	12,587.3	18.6	59.3	-70.06	-229.4	-700.6	421.5	337.3	84.17	5.008			
13,125.0	12,747.3	20,073.0	12,587.3	18.6	59.3	-68.71	-229.4	-700.6	432.3	349.5	82.82	5.220			
13,150.0	12,749.3	20,073.0	12,587.3	18.6	59.3	-67.25	-229.4	-700.6	443.9	362.6	81.33	5.458			
13,175.4	12,750.0	20,073.0	12,587.3	18.7	59.3	-65.69	-229.4	-700.6	456.3	376.7	79.68	5.727			
13,200.0	12,750.0	20,073.0	12,587.3	18.7	59.3	-65.69	-229.4	-700.6	469.1	391.1	78.02	6.013			
13,300.0	12,750.0	20,073.0	12,587.3	19.0	59.3	-65.69	-229.4	-700.6	529.8	458.4	71.41	7.420			
13,400.0	12,750.0	20,073.0	12,587.3	19.2	59.3	-65.69	-229.4	-700.6	601.1	535.5	65.57	9.167			
13,500.0	12,750.0	20,073.0	12,587.3	19.5	59.3	-65.69	-229.4	-700.6	679.6	618.9	60.79	11.180			
13,600.0	12,750.0	20,073.0	12,587.3	19.9	59.3	-65.69	-229.4	-700.6	763.2	706.2	56.99	13.393			
13,700.0	12,750.0	20,073.0	12,587.3	20.2	59.3	-65.69	-229.4	-700.6	850.4	796.4	53.99	15.751			
13,800.0	12,750.0	20,073.0	12,587.3	20.6	59.3	-65.69	-229.4	-700.6	940.1	888.5	51.63	18.208			

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 801H - Slot BOATER FED COM 801H
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 801H	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:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor					
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)							
12,200.0	12,047.1	20,236.5	12,732.2	18.0	59.2	89.01	28.4	-343.5	993.6	900.6	92.97	10.688					
12,300.0	12,147.1	20,234.1	12,732.3	18.1	59.2	88.82	30.8	-343.6	927.5	835.5	92.00	10.082					
12,400.0	12,247.1	20,231.8	12,732.3	18.2	59.2	88.64	33.1	-343.7	867.9	777.0	90.88	9.549					
12,425.4	12,272.5	20,231.3	12,732.3	18.2	59.2	88.59	33.7	-343.7	853.9	763.3	90.58	9.427					
12,450.0	12,297.1	20,231.5	12,732.3	18.2	59.2	-92.65	33.5	-343.7	841.0	750.7	90.29	9.314					
12,475.0	12,322.0	20,233.2	12,732.3	18.2	59.2	-94.26	31.8	-343.6	828.4	738.4	90.00	9.204					
12,500.0	12,346.8	20,236.4	12,732.2	18.2	59.2	-95.64	28.6	-343.5	816.4	726.7	89.73	9.098					
12,525.0	12,371.4	20,241.0	12,732.1	18.2	59.3	-96.78	23.9	-343.3	805.2	715.7	89.48	8.999					
12,550.0	12,395.7	20,247.1	12,732.0	18.2	59.3	-97.69	17.8	-343.1	794.6	705.4	89.24	8.904					
12,575.0	12,419.6	20,254.6	12,731.8	18.2	59.4	-98.38	10.3	-342.8	784.9	695.9	89.03	8.816					
12,600.0	12,443.2	20,263.5	12,731.6	18.2	59.4	-98.86	1.5	-342.6	775.9	687.1	88.85	8.733					
12,625.0	12,466.3	20,273.7	12,731.4	18.2	59.5	-99.15	-8.7	-342.2	767.8	679.1	88.69	8.657					
12,650.0	12,488.9	20,285.2	12,731.1	18.2	59.6	-99.25	-20.2	-341.9	760.4	671.8	88.56	8.586					
12,675.0	12,510.9	20,297.9	12,730.7	18.2	59.7	-99.17	-32.9	-341.5	753.8	665.4	88.46	8.521					
12,700.0	12,532.2	20,311.8	12,730.3	18.2	59.8	-98.94	-46.8	-341.1	748.0	659.6	88.40	8.462					
12,725.0	12,552.8	20,326.7	12,729.8	18.2	59.9	-98.58	-61.7	-340.7	742.9	654.6	88.37	8.408					
12,750.0	12,572.7	20,342.6	12,729.2	18.2	60.0	-98.09	-77.5	-340.2	738.6	650.2	88.36	8.359					
12,775.0	12,591.7	20,359.4	12,728.5	18.2	60.2	-97.50	-94.4	-339.8	734.9	646.5	88.39	8.314					
12,800.0	12,609.8	20,377.1	12,727.7	18.2	60.3	-96.81	-112.1	-339.4	731.9	643.4	88.46	8.274					
12,825.0	12,627.0	20,395.8	12,726.8	18.2	60.4	-96.05	-130.7	-339.0	729.4	640.9	88.55	8.237					
12,850.0	12,643.3	20,415.2	12,725.7	18.3	60.6	-95.23	-150.1	-338.5	727.5	638.8	88.67	8.204					
12,875.0	12,658.5	20,434.0	12,724.6	18.3	60.7	-94.43	-168.9	-338.1	726.0	637.2	88.80	8.176					
12,900.0	12,672.7	20,453.7	12,723.4	18.3	60.9	-93.59	-188.5	-337.7	725.0	636.1	88.96	8.150					
12,925.0	12,685.8	20,474.2	12,722.2	18.3	61.0	-92.74	-209.0	-337.3	724.4	635.3	89.14	8.127					
12,950.0	12,697.7	20,493.0	12,721.1	18.3	61.2	-91.98	-227.7	-336.9	724.1	634.8	89.31	8.108 ES, SF					
12,952.1	12,698.7	20,493.0	12,721.1	18.3	61.2	-91.98	-227.7	-336.9	724.1	634.8	89.30	8.109 CC					
12,975.0	12,708.5	20,493.0	12,721.1	18.4	61.2	-91.94	-227.7	-336.9	724.5	635.3	89.21	8.121					
13,000.0	12,718.1	20,493.0	12,721.1	18.4	61.2	-91.78	-227.7	-336.9	725.8	636.7	89.06	8.149					
13,025.0	12,726.5	20,493.0	12,721.1	18.4	61.2	-91.52	-227.7	-336.9	728.0	639.1	88.84	8.194					
13,050.0	12,733.6	20,493.0	12,721.1	18.5	61.2	-91.15	-227.7	-336.9	731.0	642.5	88.55	8.256					
13,075.0	12,739.4	20,493.0	12,721.1	18.5	61.2	-90.68	-227.7	-336.9	734.9	646.8	88.18	8.334					
13,100.0	12,744.0	20,493.0	12,721.1	18.6	61.2	-90.09	-227.7	-336.9	739.7	652.0	87.75	8.430					
13,125.0	12,747.3	20,493.0	12,721.1	18.6	61.2	-89.41	-227.7	-336.9	745.3	658.0	87.24	8.543					
13,150.0	12,749.3	20,493.0	12,721.1	18.6	61.2	-88.62	-227.7	-336.9	751.6	665.0	86.66	8.673					
13,175.4	12,750.0	20,493.0	12,721.1	18.7	61.2	-87.71	-227.7	-336.9	758.9	672.8	86.01	8.823					
13,200.0	12,750.0	20,493.0	12,721.1	18.7	61.2	-87.71	-227.7	-336.9	766.6	681.2	85.32	8.985					
13,300.0	12,750.0	20,493.0	12,721.1	19.0	61.2	-87.71	-227.7	-336.9	804.9	722.7	82.13	9.799					
13,400.0	12,750.0	20,493.0	12,721.1	19.2	61.2	-87.71	-227.7	-336.9	853.3	774.7	78.58	10.858					
13,500.0	12,750.0	20,493.0	12,721.1	19.5	61.2	-87.71	-227.7	-336.9	910.1	835.1	74.96	12.141					
13,600.0	12,750.0	20,493.0	12,721.1	19.9	61.2	-87.71	-227.7	-336.9	973.9	902.4	71.48	13.625					

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 801H - Slot BOATER FED COM 801H
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 801H	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: PITCHBLENDE FEDERAL PROJECT - PITCHBLENDE 19 30 FEDERAL #358H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11853-MWD+IFR1+FDIR											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)				
11,800.0	11,647.1	19,707.9	12,294.8	17.7	65.9	-88.97	28.0	-1,729.8	929.7	833.5	96.20	9.664		
11,900.0	11,747.1	19,710.6	12,294.9	17.8	65.9	-89.20	25.3	-1,729.7	863.0	766.7	96.26	8.965		
12,000.0	11,847.1	19,713.4	12,295.0	17.9	65.9	-89.44	22.5	-1,729.7	803.2	707.0	96.26	8.344		
12,100.0	11,947.1	19,716.2	12,295.1	17.9	66.0	-89.68	19.7	-1,729.7	752.0	655.8	96.22	7.816		
12,200.0	12,047.1	19,719.0	12,295.2	18.0	66.0	-89.92	16.9	-1,729.6	711.3	615.2	96.14	7.399		
12,300.0	12,147.1	19,721.8	12,295.3	18.1	66.0	-90.16	14.1	-1,729.6	682.9	586.9	96.03	7.112		
12,400.0	12,247.1	19,724.7	12,295.3	18.2	66.0	-90.41	11.2	-1,729.6	668.3	572.4	95.93	6.967		
12,425.4	12,272.5	19,725.4	12,295.4	18.2	66.0	-90.47	10.5	-1,729.6	667.0	571.1	95.91	6.955		
12,448.3	12,295.4	19,726.6	12,295.4	18.2	66.0	90.04	9.3	-1,729.6	666.6	570.7	95.90	6.951 CC, ES, SF		
12,450.0	12,297.1	19,726.7	12,295.4	18.2	66.0	90.03	9.2	-1,729.6	666.6	570.7	95.90	6.951		
12,475.0	12,322.0	19,729.3	12,295.5	18.2	66.1	89.75	6.7	-1,729.5	667.1	571.2	95.90	6.956		
12,500.0	12,346.8	19,733.0	12,295.6	18.2	66.1	89.26	2.9	-1,729.5	668.6	572.6	95.92	6.970		
12,525.0	12,371.4	19,738.0	12,295.8	18.2	66.1	88.56	-2.1	-1,729.5	670.9	574.9	95.97	6.991		
12,550.0	12,395.7	19,744.2	12,295.9	18.2	66.2	87.67	-8.3	-1,729.4	674.0	578.0	96.03	7.019		
12,575.0	12,419.6	19,751.6	12,296.2	18.2	66.3	86.59	-15.6	-1,729.4	678.0	581.9	96.12	7.054		
12,600.0	12,443.2	19,760.1	12,296.5	18.2	66.3	85.34	-24.2	-1,729.3	682.6	586.4	96.22	7.095		
12,625.0	12,466.3	19,769.8	12,296.8	18.2	66.4	83.94	-33.9	-1,729.3	688.0	591.6	96.34	7.141		
12,650.0	12,488.9	19,781.0	12,297.1	18.2	66.5	82.38	-45.0	-1,729.2	693.8	597.3	96.49	7.191		
12,675.0	12,510.9	19,793.5	12,297.6	18.2	66.6	80.70	-57.6	-1,729.2	700.2	603.5	96.65	7.244		
12,700.0	12,532.2	19,807.2	12,298.1	18.2	66.7	78.92	-71.3	-1,729.1	706.9	610.0	96.83	7.300		
12,725.0	12,552.8	19,822.1	12,298.6	18.2	66.9	77.09	-86.1	-1,729.1	713.9	616.8	97.03	7.357		
12,750.0	12,572.7	19,838.0	12,299.2	18.2	67.0	75.23	-102.0	-1,729.1	721.1	623.8	97.24	7.415		
12,775.0	12,591.7	19,854.9	12,299.9	18.2	67.1	73.36	-118.9	-1,729.0	728.4	630.9	97.46	7.473		
12,800.0	12,609.8	19,875.6	12,300.8	18.2	67.3	71.38	-139.6	-1,729.0	735.7	637.9	97.72	7.528		
12,825.0	12,627.0	19,908.2	12,302.5	18.2	67.6	68.95	-172.1	-1,728.7	742.6	644.6	98.05	7.574		
12,850.0	12,643.3	19,929.8	12,303.8	18.3	67.8	67.22	-193.6	-1,728.3	749.2	650.9	98.31	7.621		
12,875.0	12,658.5	19,950.5	12,305.1	18.3	68.0	65.66	-214.3	-1,727.9	755.5	656.9	98.57	7.665		
12,900.0	12,672.7	19,971.9	12,306.4	18.3	68.1	64.21	-235.7	-1,727.5	761.5	662.7	98.84	7.705		
12,925.0	12,685.8	19,975.0	12,306.6	18.3	68.2	63.46	-238.8	-1,727.5	767.3	668.3	99.00	7.751		
12,950.0	12,697.7	19,975.0	12,306.6	18.3	68.2	62.80	-238.8	-1,727.5	773.3	674.2	99.08	7.805		
12,975.0	12,708.5	19,975.0	12,306.6	18.4	68.2	62.12	-238.8	-1,727.5	779.5	680.4	99.11	7.865		
13,000.0	12,718.1	19,975.0	12,306.6	18.4	68.2	61.42	-238.8	-1,727.5	785.8	686.8	99.07	7.932		
13,025.0	12,726.5	19,975.0	12,306.6	18.4	68.2	60.72	-238.8	-1,727.5	792.3	693.4	98.96	8.007		
13,050.0	12,733.6	19,975.0	12,306.6	18.5	68.2	60.01	-238.8	-1,727.5	798.9	700.2	98.78	8.088		
13,075.0	12,739.4	19,975.0	12,306.6	18.5	68.2	59.29	-238.8	-1,727.5	805.6	707.1	98.53	8.177		
13,100.0	12,744.0	19,975.0	12,306.6	18.6	68.2	58.56	-238.8	-1,727.5	812.4	714.2	98.21	8.272		
13,125.0	12,747.3	19,975.0	12,306.6	18.6	68.2	57.84	-238.8	-1,727.5	819.2	721.4	97.81	8.375		
13,150.0	12,749.3	19,975.0	12,306.6	18.6	68.2	57.12	-238.8	-1,727.5	826.1	728.7	97.35	8.485		
13,175.4	12,750.0	19,975.0	12,306.6	18.7	68.2	56.39	-238.8	-1,727.5	833.1	736.3	96.82	8.605		
13,200.0	12,750.0	19,975.0	12,306.6	18.7	68.2	56.39	-238.8	-1,727.5	840.2	743.9	96.24	8.730		
13,300.0	12,750.0	19,975.0	12,306.6	19.0	68.2	56.39	-238.8	-1,727.5	875.6	782.2	93.44	9.370		
13,400.0	12,750.0	19,975.0	12,306.6	19.2	68.2	56.39	-238.8	-1,727.5	920.6	830.4	90.15	10.211		
13,500.0	12,750.0	19,975.0	12,306.6	19.5	68.2	56.39	-238.8	-1,727.5	973.8	887.1	86.65	11.238		

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 801H - Slot BOATER FED COM 801H
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 801H	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: PITCHBLENDE FEDERAL PROJECT - SQUARE BILL FED COM #21Y - OWB - AWP														Offset Site Error:	0.0 usft
Survey Program: 10-Standard Keeper 104, 15088-r.5 MWD+IFR1+MS										Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,300.0	12,147.1	19,982.0	12,583.6	18.1	53.2	-131.75	-554.1	-1,701.7	961.0	880.3	80.76	11.900			
12,400.0	12,247.1	19,982.0	12,583.6	18.2	53.2	-131.75	-554.1	-1,701.7	919.9	840.3	79.62	11.553			
12,425.4	12,272.5	19,982.0	12,583.6	18.2	53.2	-131.75	-554.1	-1,701.7	910.9	831.7	79.28	11.490			
12,450.0	12,297.1	19,982.0	12,583.6	18.2	53.2	49.64	-554.1	-1,701.7	902.4	823.5	78.93	11.433			
12,475.0	12,322.0	19,982.0	12,583.6	18.2	53.2	50.51	-554.1	-1,701.7	893.6	815.1	78.54	11.378			
12,500.0	12,346.8	19,982.0	12,583.6	18.2	53.2	51.41	-554.1	-1,701.7	884.6	806.5	78.13	11.323			
12,525.0	12,371.4	19,982.0	12,583.6	18.2	53.2	52.33	-554.1	-1,701.7	875.5	797.8	77.69	11.270			
12,550.0	12,395.7	19,982.0	12,583.6	18.2	53.2	53.29	-554.1	-1,701.7	866.2	789.0	77.22	11.218			
12,575.0	12,419.6	19,982.0	12,583.6	18.2	53.2	54.26	-554.1	-1,701.7	856.9	780.1	76.74	11.167			
12,600.0	12,443.2	19,982.0	12,583.6	18.2	53.2	55.27	-554.1	-1,701.7	847.4	771.2	76.23	11.117			
12,625.0	12,466.3	19,982.0	12,583.6	18.2	53.2	56.29	-554.1	-1,701.7	837.9	762.2	75.71	11.068			
12,650.0	12,488.9	19,982.0	12,583.6	18.2	53.2	57.32	-554.1	-1,701.7	828.4	753.2	75.17	11.020			
12,675.0	12,510.9	19,982.0	12,583.6	18.2	53.2	58.37	-554.1	-1,701.7	818.8	744.2	74.62	10.973			
12,700.0	12,532.2	19,982.0	12,583.6	18.2	53.2	59.43	-554.1	-1,701.7	809.3	735.2	74.07	10.926			
12,725.0	12,552.8	19,982.0	12,583.6	18.2	53.2	60.50	-554.1	-1,701.7	799.8	726.3	73.51	10.880			
12,750.0	12,572.7	19,982.0	12,583.6	18.2	53.2	61.56	-554.1	-1,701.7	790.4	717.4	72.95	10.835			
12,775.0	12,591.7	19,982.0	12,583.6	18.2	53.2	62.63	-554.1	-1,701.7	781.1	708.7	72.40	10.789			
12,800.0	12,609.8	19,982.0	12,583.6	18.2	53.2	63.68	-554.1	-1,701.7	771.9	700.0	71.85	10.743			
12,825.0	12,627.0	19,982.0	12,583.6	18.2	53.2	64.73	-554.1	-1,701.7	762.9	691.6	71.32	10.697			
12,850.0	12,643.3	19,982.0	12,583.6	18.3	53.2	65.76	-554.1	-1,701.7	754.0	683.2	70.80	10.650			
12,875.0	12,658.5	19,982.0	12,583.6	18.3	53.2	66.76	-554.1	-1,701.7	745.4	675.1	70.31	10.602			
12,900.0	12,672.7	19,982.0	12,583.6	18.3	53.2	67.74	-554.1	-1,701.7	737.1	667.3	69.84	10.553			
12,925.0	12,685.8	19,982.0	12,583.6	18.3	53.2	68.69	-554.1	-1,701.7	729.0	659.6	69.41	10.504			
12,950.0	12,697.7	19,982.0	12,583.6	18.3	53.2	69.60	-554.1	-1,701.7	721.3	652.3	69.01	10.452			
12,975.0	12,708.5	19,982.0	12,583.6	18.4	53.2	70.48	-554.1	-1,701.7	713.9	645.3	68.65	10.400			
13,000.0	12,718.1	19,982.0	12,583.6	18.4	53.2	71.30	-554.1	-1,701.7	706.9	638.6	68.33	10.346			
13,025.0	12,726.5	19,982.0	12,583.6	18.4	53.2	72.08	-554.1	-1,701.7	700.3	632.3	68.06	10.291			
13,050.0	12,733.6	19,982.0	12,583.6	18.5	53.2	72.81	-554.1	-1,701.7	694.2	626.4	67.83	10.235			
13,075.0	12,739.4	19,982.0	12,583.6	18.5	53.2	73.47	-554.1	-1,701.7	688.5	620.9	67.64	10.179			
13,100.0	12,744.0	19,982.0	12,583.6	18.6	53.2	74.08	-554.1	-1,701.7	683.4	615.8	67.51	10.123			
13,125.0	12,747.3	19,982.0	12,583.6	18.6	53.2	74.63	-554.1	-1,701.7	678.7	611.3	67.42	10.067			
13,150.0	12,749.3	19,982.0	12,583.6	18.6	53.2	75.11	-554.1	-1,701.7	674.6	607.3	67.37	10.014			
13,175.4	12,750.0	19,982.0	12,583.6	18.7	53.2	75.53	-554.1	-1,701.7	671.1	603.7	67.36	9.962			
13,200.0	12,750.0	19,982.0	12,583.6	18.7	53.2	75.53	-554.1	-1,701.7	668.3	601.0	67.40	9.917			
13,300.0	12,750.0	19,934.1	12,583.9	19.0	53.1	75.53	-602.0	-1,700.5	664.7	597.5	67.26	9.883			
13,376.4	12,750.0	19,867.3	12,584.4	19.2	53.0	75.56	-688.8	-1,699.3	664.1	597.2	66.83	9.937			
13,400.0	12,750.0	19,848.1	12,584.5	19.2	53.0	75.57	-688.0	-1,699.2	664.1	597.4	66.70	9.956			
13,500.0	12,750.0	19,767.0	12,584.5	19.5	52.8	75.61	-769.0	-1,700.1	666.2	600.0	66.23	10.059			
13,600.0	12,750.0	19,703.0	12,584.0	19.9	52.7	75.63	-833.0	-1,702.4	671.4	605.3	66.13	10.153			
13,700.0	12,750.0	19,627.4	12,583.8	20.2	52.6	75.77	-908.4	-1,708.7	680.9	615.0	65.89	10.333			
13,800.0	12,750.0	19,519.2	12,585.2	20.6	52.4	76.17	-1,015.7	-1,722.1	693.6	628.5	65.13	10.649			
13,900.0	12,750.0	19,385.1	12,585.8	21.0	52.1	76.42	-1,149.4	-1,731.1	700.6	636.6	63.95	10.955			
14,000.0	12,750.0	19,305.7	12,586.0	21.4	52.0	76.57	-1,228.6	-1,736.9	708.5	644.7	63.79	11.106			
14,100.0	12,750.0	19,190.6	12,584.6	21.9	51.8	76.62	-1,343.5	-1,744.9	716.5	653.4	63.09	11.357			
14,200.0	12,750.0	19,054.5	12,579.6	22.3	51.5	76.34	-1,479.4	-1,749.1	721.5	659.4	62.13	11.613			
14,300.0	12,750.0	18,914.6	12,575.0	22.8	51.2	75.90	-1,619.0	-1,743.5	718.9	657.7	61.13	11.759			
14,366.3	12,750.0	18,874.3	12,573.5	23.2	51.1	75.77	-1,659.2	-1,742.0	717.7	656.4	61.24	11.720			
14,400.0	12,750.0	18,841.0	12,572.5	23.4	51.1	75.70	-1,692.6	-1,741.9	718.2	657.1	61.10	11.755			
14,500.0	12,750.0	18,723.5	12,566.8	23.9	50.8	75.23	-1,809.8	-1,739.6	718.7	658.2	60.54	11.871			
14,600.0	12,750.0	18,614.4	12,562.4	24.4	50.6	74.77	-1,918.7	-1,732.7	714.5	654.3	60.16	11.876			
14,685.2	12,750.0	18,555.0	12,561.6	24.9	50.5	74.68	-1,978.0	-1,730.6	712.7	652.4	60.36	11.808			

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 801H - Slot BOATER FED COM 801H
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 801H	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: PITCHBLENDE FEDERAL PROJECT - SQUARE BILL FED COM #21Y - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 10-Standard Keeper 104, 15088-r.5 MWD+IFR1+MS										Rule Assigned:			Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
14,700.0	12,750.0	18,555.0	12,561.6	25.0	50.5	74.68	-1,978.0	-1,730.6	712.9	652.3	60.59	11.766		
14,800.0	12,750.0	18,460.0	12,563.1	25.6	50.3	74.84	-2,073.0	-1,732.1	715.0	654.6	60.42	11.833		
14,900.0	12,750.0	18,383.6	12,565.0	26.2	50.2	75.09	-2,149.2	-1,736.2	720.2	659.5	60.71	11.862		
15,000.0	12,750.0	18,269.0	12,565.5	26.8	50.0	75.26	-2,263.7	-1,741.5	725.6	665.3	60.33	12.027		
15,100.0	12,750.0	18,031.9	12,562.5	27.4	49.6	74.65	-2,499.3	-1,721.0	716.2	658.2	58.05	12.337		
15,200.0	12,750.0	17,943.9	12,560.6	28.0	49.4	74.19	-2,586.1	-1,706.1	701.5	643.4	58.15	12.065		
15,300.0	12,750.0	17,869.7	12,559.0	28.7	49.3	73.86	-2,659.6	-1,696.1	690.1	631.6	58.48	11.800		
15,400.0	12,750.0	17,790.0	12,556.8	29.3	49.1	73.50	-2,738.8	-1,687.7	681.7	622.8	58.87	11.580		
15,500.0	12,750.0	17,710.4	12,556.1	30.0	49.0	73.33	-2,818.2	-1,682.2	676.3	617.0	59.31	11.403		
15,600.0	12,750.0	17,633.7	12,557.1	30.7	48.8	73.38	-2,894.8	-1,680.1	674.2	614.3	59.90	11.255		
15,610.5	12,750.0	17,625.7	12,557.1	30.8	48.8	73.37	-2,902.8	-1,680.0	674.2	614.2	59.97	11.242		
15,700.0	12,750.0	17,532.0	12,554.6	31.4	48.6	73.17	-2,996.5	-1,678.7	674.6	614.5	60.07	11.230		
15,800.0	12,750.0	17,433.4	12,548.7	32.1	48.5	72.61	-3,094.9	-1,674.9	673.6	613.2	60.39	11.154		
15,825.3	12,750.0	17,410.5	12,547.0	32.2	48.4	72.47	-3,117.7	-1,674.1	673.6	613.0	60.52	11.129		
15,900.0	12,750.0	17,352.3	12,544.2	32.8	48.3	72.23	-3,175.8	-1,673.3	674.4	613.4	61.07	11.044		
16,000.0	12,750.0	17,269.1	12,545.2	33.5	48.2	72.41	-3,258.9	-1,676.3	678.4	616.7	61.71	10.992		
16,100.0	12,750.0	17,175.1	12,547.1	34.2	48.0	72.71	-3,352.8	-1,681.4	683.9	621.7	62.18	10.999		
16,200.0	12,750.0	17,078.4	12,549.1	34.9	47.8	73.04	-3,449.3	-1,687.0	689.8	627.2	62.62	11.016		
16,300.0	12,750.0	16,982.9	12,548.5	35.6	47.7	73.15	-3,544.6	-1,692.6	696.5	633.3	63.14	11.031		
16,400.0	12,750.0	16,884.5	12,543.3	36.4	47.5	72.87	-3,642.8	-1,697.1	703.4	639.7	63.67	11.047		
16,500.0	12,750.0	16,788.7	12,536.4	37.1	47.3	72.46	-3,738.2	-1,701.4	710.7	646.4	64.32	11.050		
16,600.0	12,750.0	16,691.8	12,528.9	37.8	47.1	72.02	-3,834.7	-1,706.1	718.7	653.7	64.97	11.062		
16,700.0	12,750.0	16,596.3	12,521.3	38.6	46.9	71.59	-3,929.8	-1,710.8	726.9	661.2	65.68	11.068		
16,800.0	12,750.0	16,502.3	12,514.5	39.3	46.8	71.26	-4,023.3	-1,716.7	736.0	669.6	66.43	11.079		
16,900.0	12,750.0	16,403.9	12,509.5	40.1	46.6	71.09	-4,121.4	-1,723.9	745.6	678.5	67.10	11.111		
17,000.0	12,750.0	16,271.5	12,503.4	40.9	46.4	70.88	-4,253.4	-1,731.9	754.0	686.9	67.09	11.239		
17,100.0	12,750.0	16,081.9	12,519.5	41.6	46.1	72.11	-4,442.0	-1,732.8	752.0	686.1	65.95	11.403		
17,200.0	12,750.0	15,887.7	12,554.1	42.4	45.8	74.41	-4,632.4	-1,718.8	742.0	677.0	65.07	11.404		
17,300.0	12,750.0	15,755.8	12,571.2	43.2	45.6	75.21	-4,760.3	-1,692.4	719.9	654.7	65.28	11.028		
17,400.0	12,750.0	15,669.9	12,572.3	43.9	45.4	74.87	-4,843.7	-1,671.6	697.2	631.0	66.20	10.531		
17,500.0	12,750.0	15,596.0	12,570.2	44.7	45.3	74.34	-4,915.6	-1,655.1	677.2	609.8	67.39	10.049		
17,600.0	12,750.0	15,508.0	12,567.8	45.5	45.2	73.74	-5,001.9	-1,637.6	659.7	591.3	68.39	9.646		
17,700.0	12,750.0	15,453.4	12,567.4	46.3	45.1	73.51	-5,055.8	-1,629.1	646.2	576.2	69.98	9.234		
17,800.0	12,750.0	15,397.0	12,568.2	47.1	45.0	73.49	-5,112.0	-1,625.4	640.1	568.5	71.60	8.940		
17,820.1	12,750.0	15,397.0	12,568.2	47.2	45.0	73.49	-5,112.0	-1,625.4	639.8	567.5	72.21	8.859 CC, ES		
17,900.0	12,750.0	15,361.8	12,569.0	47.9	44.9	73.59	-5,147.1	-1,626.2	642.2	568.5	73.71	8.713		
18,000.0	12,750.0	15,316.0	12,569.6	48.6	44.8	73.80	-5,192.6	-1,632.0	654.1	578.6	75.44	8.670		
18,100.0	12,750.0	15,249.8	12,569.9	49.4	44.7	74.15	-5,257.6	-1,644.6	672.7	595.9	76.88	8.750		
18,200.0	12,750.0	15,056.4	12,571.4	50.2	19.5	74.91	-5,448.8	-1,671.0	687.4	611.1	76.37	9.001		
18,300.0	12,750.0	14,980.0	12,575.6	51.0	19.3	75.41	-5,524.8	-1,677.9	695.6	618.2	77.43	8.985		
18,400.0	12,750.0	14,882.3	12,583.1	51.8	19.0	76.25	-5,621.6	-1,688.8	705.6	627.3	78.31	9.010		
18,500.0	12,750.0	14,713.0	12,589.0	52.6	18.6	76.86	-5,790.3	-1,694.6	707.9	629.4	78.49	9.018		
18,600.0	12,750.0	14,576.6	12,593.8	53.4	18.2	77.19	-5,926.5	-1,690.8	705.3	626.5	78.80	8.950		
18,700.0	12,750.0	14,474.7	12,597.5	54.2	18.0	77.41	-6,028.3	-1,685.8	700.7	621.0	79.69	8.792		
18,800.0	12,750.0	14,350.0	12,596.9	55.0	17.7	77.17	-6,152.3	-1,673.9	692.0	611.9	80.11	8.639		
18,900.0	12,750.0	14,265.0	12,593.5	55.9	17.5	76.76	-6,236.9	-1,665.8	684.6	603.2	81.41	8.410		
19,000.0	12,750.0	14,193.6	12,592.1	56.7	17.3	76.57	-6,308.1	-1,661.2	679.9	597.0	82.96	8.196		
19,026.4	12,750.0	14,182.9	12,592.0	56.9	17.3	76.56	-6,318.7	-1,661.0	679.6	596.2	83.48	8.141		
19,100.0	12,750.0	14,130.0	12,591.8	57.5	17.2	76.56	-6,371.7	-1,661.2	680.7	596.2	84.50	8.056		
19,200.0	12,750.0	14,077.0	12,593.1	58.3	17.1	76.74	-6,424.6	-1,664.6	687.3	601.4	85.91	8.000		

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 801H - Slot BOATER FED COM 801H
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 801H	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: PITCHBLENDE FEDERAL PROJECT - SQUARE BILL FED COM #21Y - OWB - AWP														Offset Site Error:	0.0 usft		
Survey Program: 10-Standard Keeper 104, 15088-r.5 MWD+IFR1+MS														Offset Well Error:	3.0 usft		
Reference														Rule Assigned:		Warning	
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)							
19,300.0	12,750.0	13,923.9	12,595.3	59.1	16.8	77.09	-6,577.3	-1,672.2	692.5	606.1	86.41	8.013					
19,400.0	12,750.0	13,774.3	12,599.2	59.9	16.5	77.41	-6,726.9	-1,671.4	693.0	606.4	86.59	8.003					
19,500.0	12,750.0	13,672.4	12,602.8	60.7	16.4	77.61	-6,828.5	-1,665.0	687.0	599.5	87.58	7.845					
19,600.0	12,750.0	13,577.9	12,604.7	61.5	16.2	77.69	-6,922.8	-1,659.5	681.9	593.2	88.72	7.686					
19,700.0	12,750.0	13,501.7	12,603.6	62.4	16.1	77.55	-6,998.9	-1,656.4	679.1	588.9	90.21	7.529					
19,729.6	12,750.0	13,478.7	12,603.2	62.6	16.1	77.51	-7,021.9	-1,655.9	679.0	588.4	90.62	7.492					
19,800.0	12,750.0	13,420.0	12,602.5	63.2	16.0	77.46	-7,080.6	-1,655.7	679.6	588.1	91.53	7.425					
19,900.0	12,750.0	13,315.1	12,601.6	64.0	15.9	77.43	-7,185.5	-1,656.9	681.9	589.4	92.52	7.370					
20,000.0	12,750.0	13,188.0	12,602.8	64.8	15.8	77.52	-7,312.6	-1,655.4	681.7	588.5	93.13	7.319					
20,100.0	12,750.0	13,100.0	12,605.5	65.6	15.7	77.72	-7,400.5	-1,653.0	679.4	585.0	94.42	7.195					
20,200.0	12,750.0	13,007.8	12,607.5	66.5	15.6	77.88	-7,492.6	-1,651.9	678.7	583.1	95.64	7.097					
20,204.4	12,750.0	13,004.0	12,607.5	66.5	15.6	77.88	-7,496.4	-1,651.9	678.7	583.1	95.69	7.093					
20,300.0	12,750.0	12,945.5	12,604.5	67.3	15.6	77.65	-7,554.8	-1,652.1	681.2	584.1	97.18	7.010					
20,400.0	12,750.0	12,887.2	12,595.3	68.1	15.5	76.94	-7,612.3	-1,654.3	689.5	591.1	98.45	7.004 SF					
20,500.0	12,750.0	12,830.0	12,581.5	68.9	15.5	75.93	-7,667.7	-1,658.8	704.1	604.7	99.38	7.085					
20,600.0	12,750.0	12,770.7	12,560.9	69.8	15.5	74.44	-7,722.9	-1,665.1	725.0	625.1	99.97	7.253					
20,700.0	12,750.0	12,705.5	12,529.4	70.6	15.4	72.15	-7,779.6	-1,670.3	750.3	650.1	100.25	7.485					
20,800.0	12,750.0	12,635.2	12,487.6	71.4	15.4	69.15	-7,835.9	-1,673.9	780.7	680.5	100.21	7.791					
20,900.0	12,750.0	12,570.0	12,446.0	72.3	15.4	66.29	-7,886.1	-1,676.7	815.9	716.1	99.82	8.174					
21,000.0	12,750.0	12,523.7	12,414.5	73.1	15.4	64.21	-7,920.0	-1,678.3	856.4	757.5	98.84	8.664					
21,100.0	12,750.0	12,480.0	12,382.8	73.9	15.4	62.18	-7,950.0	-1,679.5	902.7	805.1	97.54	9.255					
21,200.0	12,750.0	12,450.0	12,359.7	74.7	15.4	60.73	-7,969.1	-1,680.0	954.7	858.9	95.76	9.970					

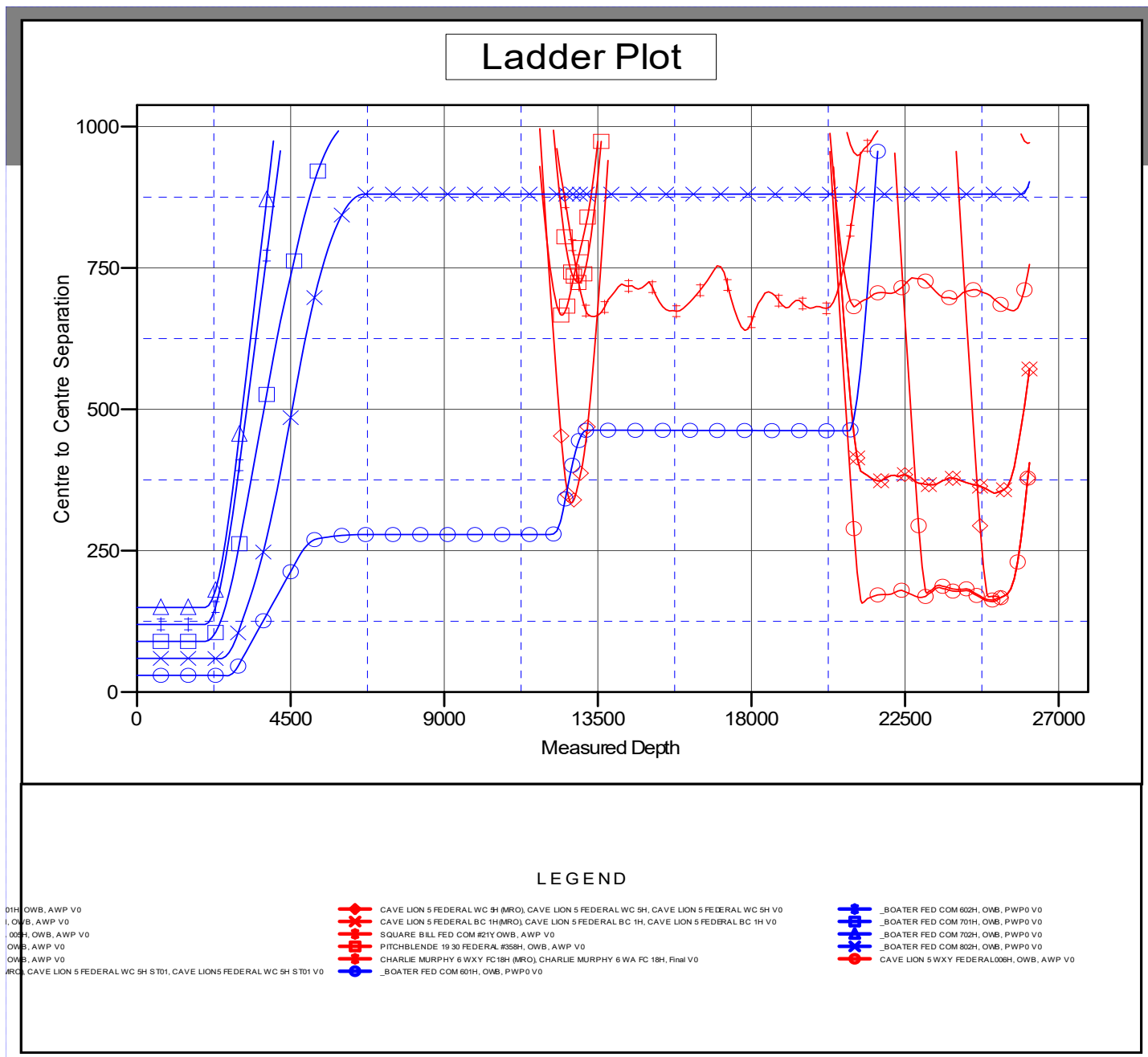
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

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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 801H - Slot BOATER FED COM
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.50°



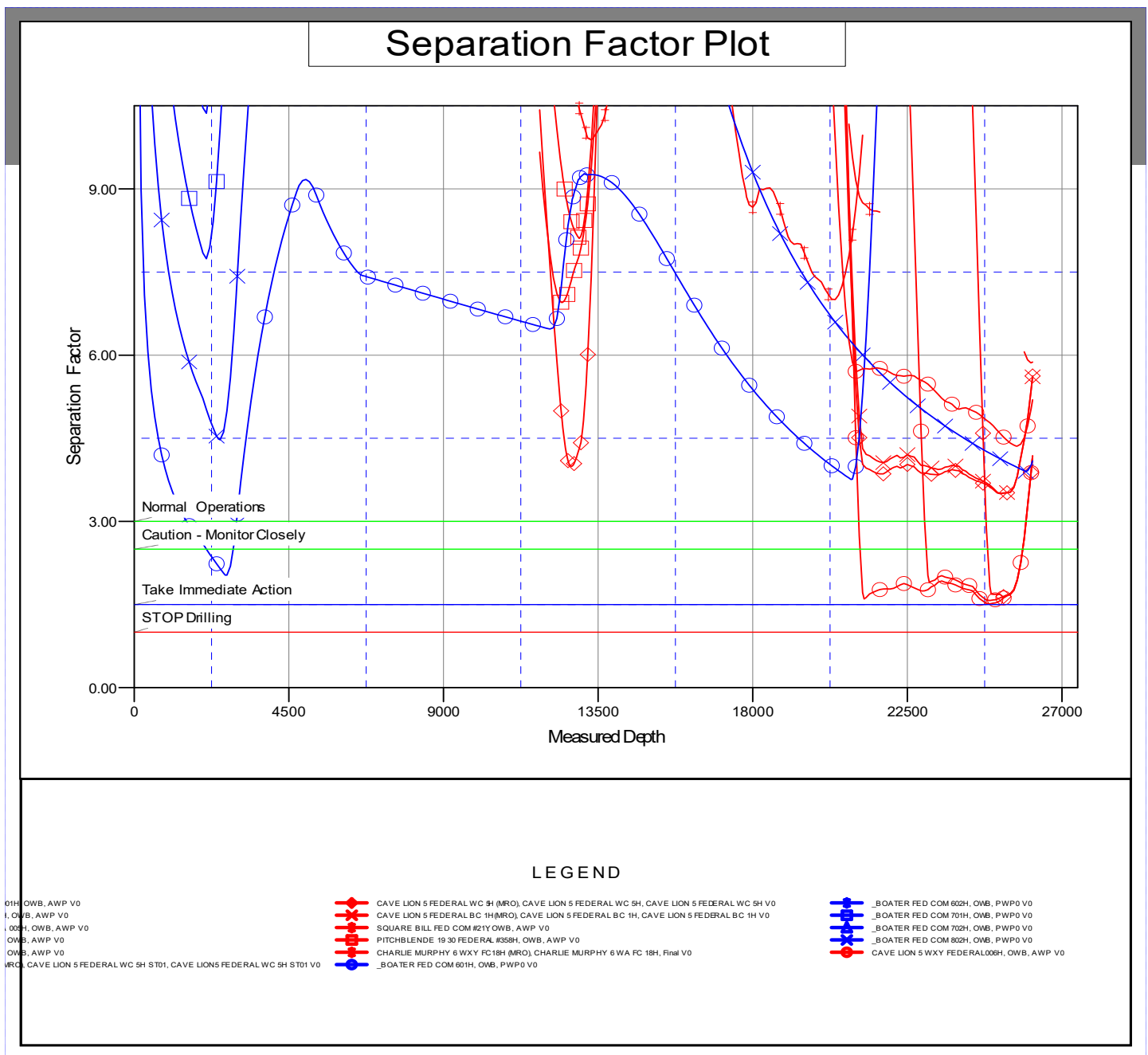
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 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: _BOATER FED COM 801H - 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

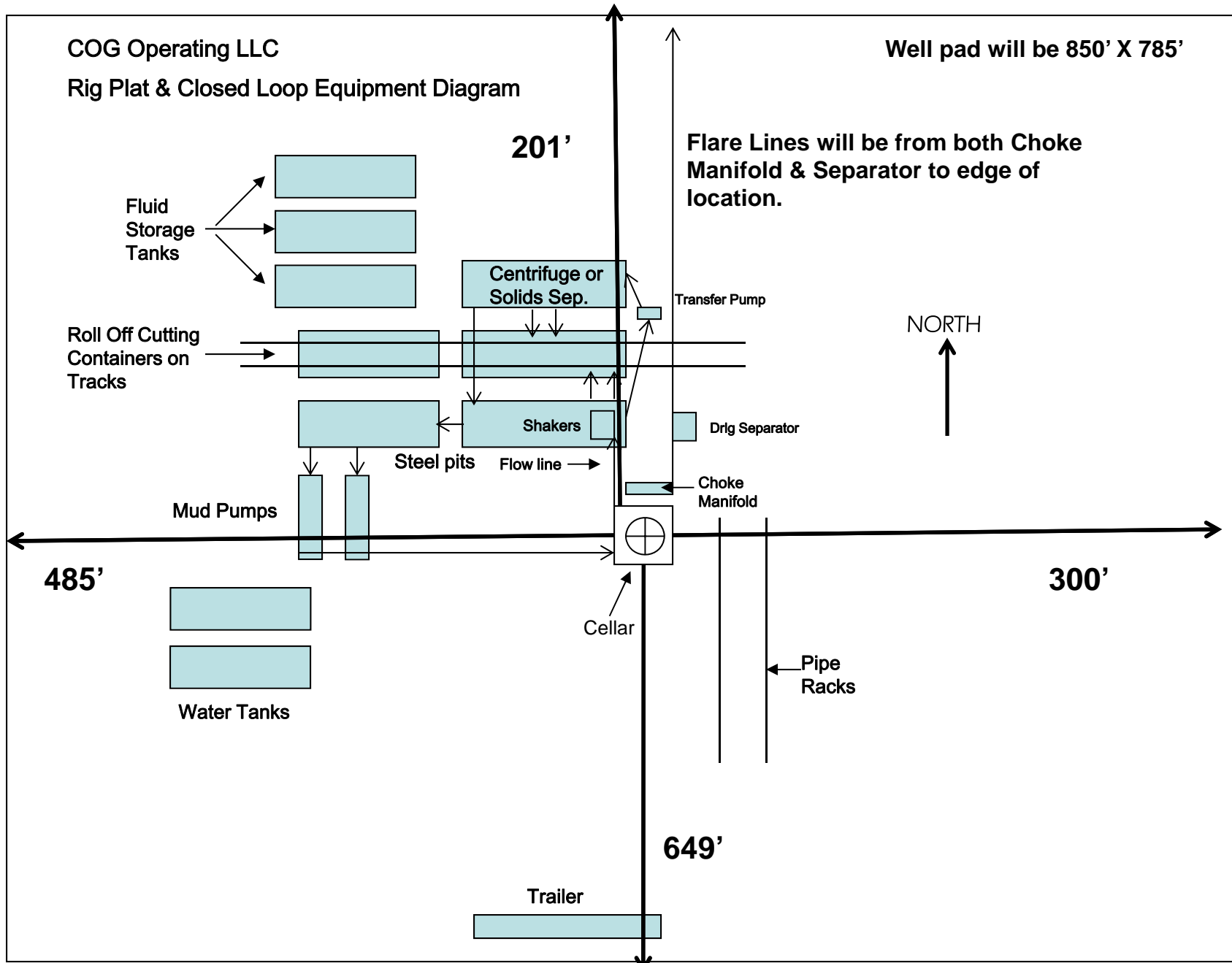


Exhibit 1

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 07/14/2025

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

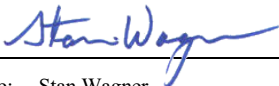
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

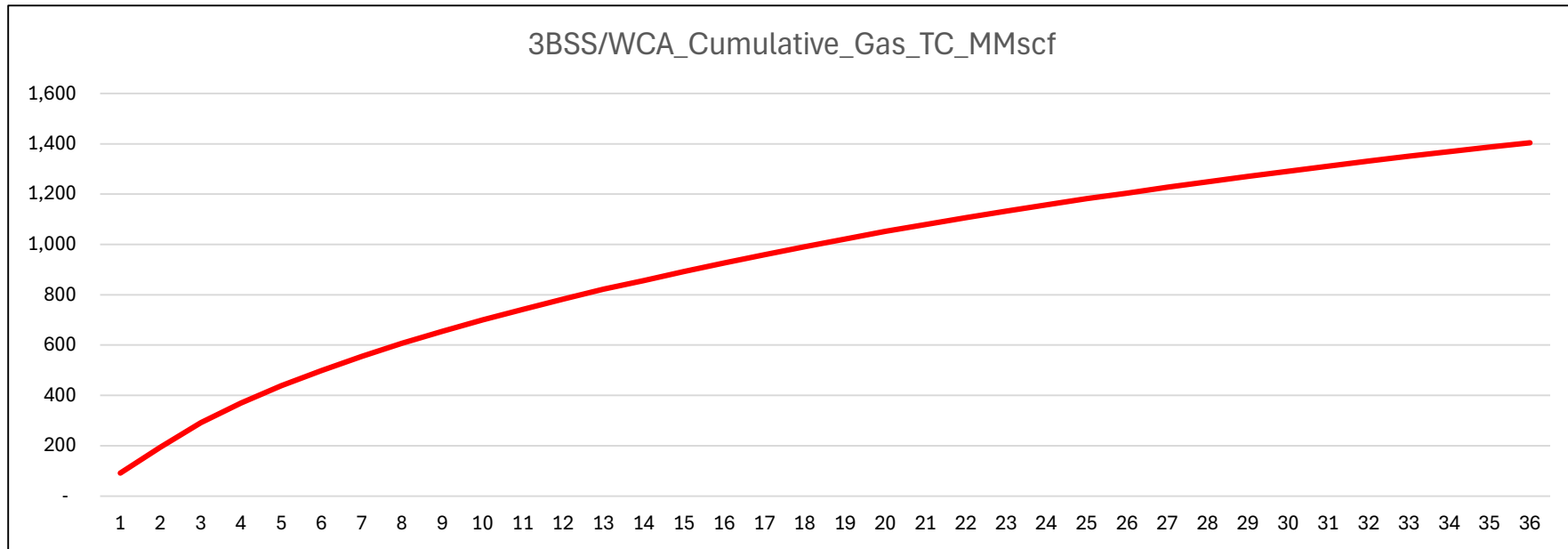
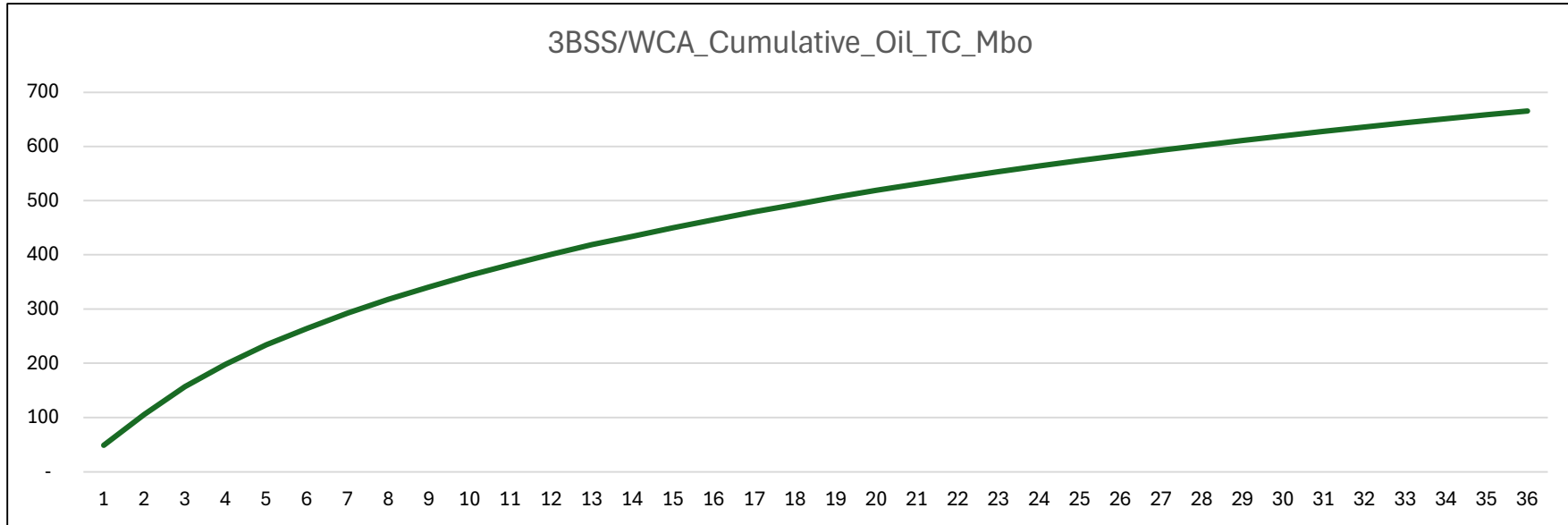
F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

Anticipated Production Decline Curve



Waste Minimization Plan

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

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	BOATER FED COM 801H
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 539904

ACKNOWLEDGMENTS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539904
	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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**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

CONDITIONS

Action 539904

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 539904
	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