

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [40143]
2. Name of Operator [217955]		9. API Well No. 30-025-52450
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory XXXXXX [98248]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

NGMP Rec 01/16/2024

SL

(Continued on page 2)



Approval Date: 01/11/2024

KZ
01/22/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 685 FNL / 1305 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193746 / LONG: -103.709455 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 685 FNL / 1305 FEL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.195342 / LONG: -103.712702 (TVD: 11911 feet, MD: 12040 feet)

BHL: SWSE / 50 FSL / 2310 FEL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.166717 / LONG: -103.712649 (TVD: 12100 feet, MD: 22261 feet)

BLM Point of Contact

Name: CIJI METHOLA

Title: GIS Support - Adjudicator

Phone: (575) 234-5924

Email: cmethola@blm.gov

CONFIDENTIAL

DISTRICT I
1825 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-8720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 478-3480 Fax: (505) 478-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 30-025-52450	Pool Code 98248	Pool Name WC-025 G-08 S243217P;UPR WC
Property Code 40143	Property Name WINDWARD FEDERAL	Well Number 707H
OGRID No. 217955	Operator Name COG PRODUCTION, LLC	Elevation 3550.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	30	24-S	32-E		685	NORTH	1305	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	31	24-S	32-E		50	SOUTH	2310	EAST	LEA
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

FTP 100' FNL & 2310' FEL Y=435353.9 N X=733318.5 E LAT.=32.195342° N LONG.=103.712702° W GRID AZ. TO FTP 299°41'46" <table border="1"> <thead> <tr> <th colspan="2">POINT LEGEND</th> </tr> </thead> <tbody> <tr><td>1</td><td>Y=435477.4 N X=735627.9 E</td></tr> <tr><td>2</td><td>Y=432838.9 N X=735641.2 E</td></tr> <tr><td>3</td><td>Y=430198.2 N X=735682.0 E</td></tr> <tr><td>4</td><td>Y=427560.0 N X=735684.2 E</td></tr> <tr><td>5</td><td>Y=424920.7 N X=735705.1 E</td></tr> <tr><td>6</td><td>Y=424888.2 N X=733080.2 E</td></tr> <tr><td>7</td><td>Y=430178.4 N X=733021.2 E</td></tr> <tr><td>8</td><td>Y=435450.5 N X=732978.6 E</td></tr> </tbody> </table> LTP 100' FSL & 2310' FEL Y=424990.6 N X=733394.5 E LAT.=32.166855° N LONG.=103.712649° W	POINT LEGEND		1	Y=435477.4 N X=735627.9 E	2	Y=432838.9 N X=735641.2 E	3	Y=430198.2 N X=735682.0 E	4	Y=427560.0 N X=735684.2 E	5	Y=424920.7 N X=735705.1 E	6	Y=424888.2 N X=733080.2 E	7	Y=430178.4 N X=733021.2 E	8	Y=435450.5 N X=732978.6 E	NAD 83 NME SURFACE LOCATION Y=434779.1 N X=734326.3 E LAT.=32.193746° N LONG.=103.709455° W NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=424940.6 N X=733394.9 E LAT.=32.166717° N LONG.=103.712649° W	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and 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 such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 6/07/2022 Signature Date Stan Wagner Printed Name E-mail Address SURVEYOR CERTIFICATION 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. APRIL 27, 2022 Date of Survey Signature & Seal of Professional Surveyor <i>Chad L. Harcrow</i> 5/4/22 Certificate No. CHAD HARCROW 17777 W.O. # 22-552 DRAWN BY: WN
POINT LEGEND																				
1	Y=435477.4 N X=735627.9 E																			
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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 Production LLC

OGRID: 229137

Date: 06/07/2022

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
Windward Federal 707H	30-025-	A-30-24S-32E	685 FNL & 1305 FEL	± 1801	± 5071	± 2019
Windward Federal 708H	30-025-	1-30-24S-32E	710 FNL & 670 FWL	± 1801	± 5071	± 2019

IV. Central Delivery Point Name: Windward Federal 30 C CTB NE/NW 30-24S-32E [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
Windward Federal	Pending	± 6/1/2024	± 25 days from spud	TBD	TBD	TBD
707H, 708H						

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: 06/07/2022
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

COG Operating, LLC - Windward Federal 707H

1. Geologic Formations

TVD of target	12,100' EOL	Pilot hole depth	NA
MD at TD:	22,261'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	776	Water	
Top of Salt	1072	Salt	
Base of Salt	4391	Salt	
Lamar	4627	Salt Water	
Bell Canyon	4651	Salt Water	
Cherry Canyon	5569	Oil/Gas	
Brushy Canyon	6863	Oil/Gas	
BSPG	8490	Oil/Gas	
BS1S	9629	Oil/Gas	
BS1SH	9864	Oil/Gas	
BS2S	10233	Oil/Gas	
WFMP	11957	Oil/Gas	
Wolfcamp A Shale	12100	Target Oil/Gas	
0	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1022	10.75"	45.5	J55	BTC	4.47	1.08	15.38	17.12
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.50	1.10	2.88	2.90
8.750"	8500	11500	7.625"	29.7	P110 RY	W513	1.31	1.46	2.75	1.65
6.75"	0	11000	5.5"	23	P110	BTC	2.03	2.40	2.88	2.86
6.75"	11000	22,261	5.5"	23	P110	W441	1.85	2.18	2.62	2.38
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 and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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

COG Operating, LLC - Windward Federal 707H

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

COG Operating, LLC - Windward Federal 707H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	487	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	840	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	510	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1062	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

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%
1 st Intermediate	0'	50%
Production	11,000'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Windward Federal 707H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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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	5000psi
			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 Onshore Order 2 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 Onshore Order #2. 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 Onshore Oil and Gas Order #2 III.B.1.i.
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 Onshore Order #2 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.

COG Operating, LLC - Windward Federal 707H

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	8.4 - 9.4	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 12.5	35-45	<20

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

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

6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

COG Operating, LLC - Windward Federal 707H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7865 psi at 12100' TVD
Abnormal Temperature	NO 175 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 Onshore Oil and Gas Order #6. 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	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

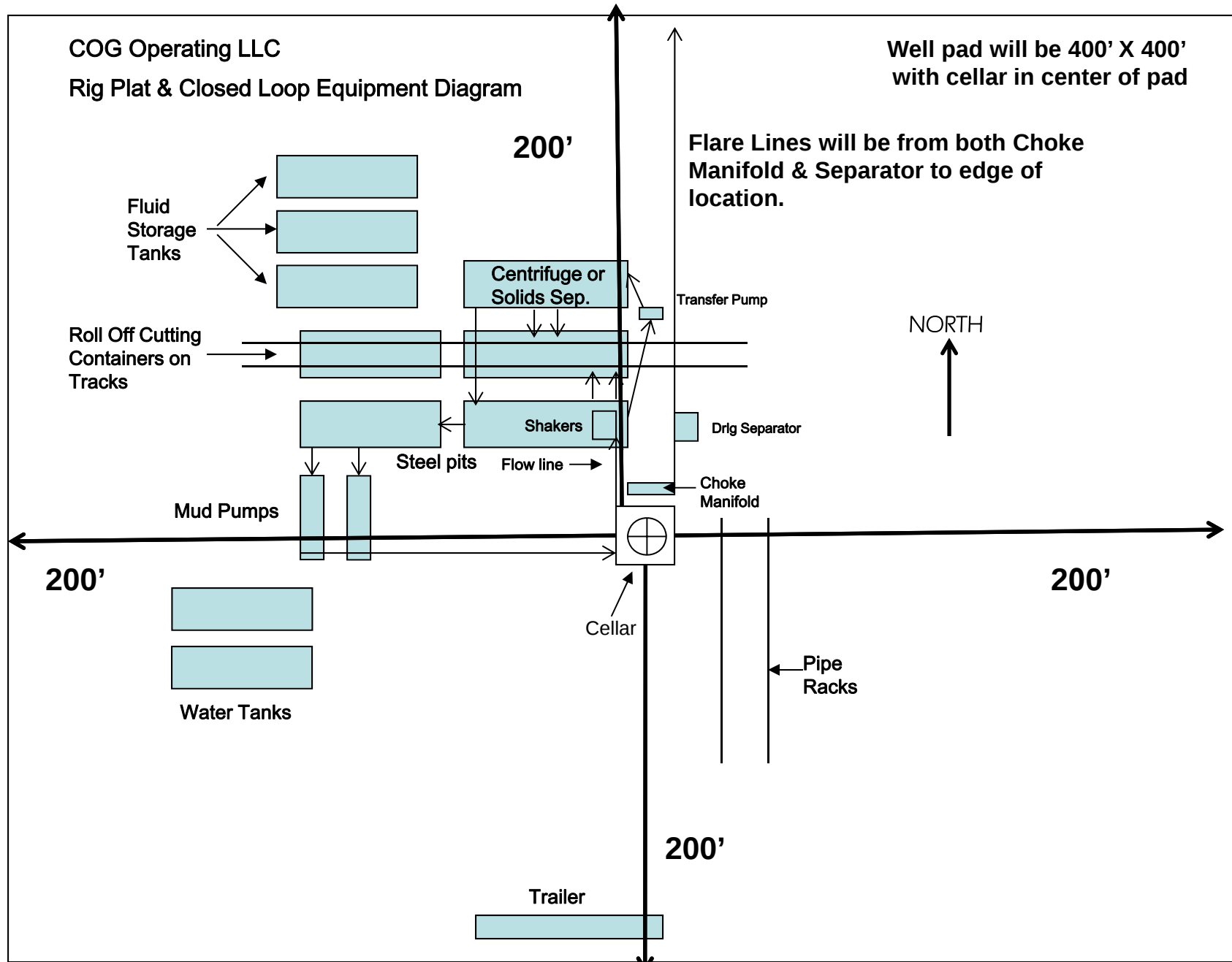


Exhibit 1

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

WINDWARD FEDERAL PROJECT (BULLDOG 2432)

WINDWARD FEDERAL #707H

OWB

PWP0

Anticollision Report

25 May, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 95.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	5/25/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
2,000.0	11,730.6	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
11,730.6	22,261.7	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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						
AZORES FEDERAL PROJECT (BULLDOG 2432)						
PAYNE #1 - OWB - AWP						Out of range
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
*WINDWARD FED #701H - OWB - PWP0	2,000.0	1,993.8	90.1	83.5	13.691	CC, ES
*WINDWARD FED #701H - OWB - PWP0	2,200.0	2,193.6	96.5	89.2	13.135	SF
*WINDWARD FED #702H - OWB - PWP0	2,000.0	1,994.3	60.1	53.5	9.130	CC, ES
*WINDWARD FED #702H - OWB - PWP0	2,185.0	2,179.2	65.6	58.4	9.041	SF
*WINDWARD FED #703H - OWB - PWP0	2,000.0	1,994.1	30.1	23.5	4.575	CC, ES
*WINDWARD FED #703H - OWB - PWP0	22,261.7	22,324.3	661.4	495.7	3.991	SF
*WINDWARD FED #704H - OWB - PWP0	12,000.8	12,053.7	867.7	818.7	17.719	CC
*WINDWARD FED #704H - OWB - PWP0	22,261.7	22,299.1	880.1	705.2	5.031	ES, SF
*WINDWARD FED #705H - OWB - PWP0						Out of range
*WINDWARD FED #706H - OWB - PWP0						Out of range
KING TUT FEDERAL #2H - OWB - AWP						Out of range
KING TUT FEDERAL #3H - OWB - AWP	7,260.6	7,155.9	104.0	58.2	2.271	CC
KING TUT FEDERAL #3H - OWB - AWP	7,300.0	7,194.8	104.2	58.2	2.265	ES
KING TUT FEDERAL #3H - OWB - AWP	8,265.0	8,162.4	116.1	63.7	2.215	SF
KING TUT FEDERAL #4H - OWB - AWP						Out of range
PADUCA 30 FEDERAL #1 (P&A) - OWB - AWP	13,723.7	12,075.8	325.9	-24.7	0.930	Advise and Monitor, CC, ES,
TURQUOISE 30 FEDERAL SWD #1 (P&A) - OWB - AW						Out of range
WINDWARD FEDERAL #10H - OWB - AWP	6,011.1	5,932.3	179.9	159.0	8.597	CC, ES
WINDWARD FEDERAL #10H - OWB - AWP	6,100.0	6,019.2	180.8	159.7	8.539	SF
WINDWARD FEDERAL #11H - OWB - AWP	416.0	407.6	884.7	878.7	146.749	CC
WINDWARD FEDERAL #11H - OWB - AWP	2,143.5	2,160.0	885.4	878.4	127.020	ES
WINDWARD FEDERAL #11H - OWB - AWP	3,325.0	3,298.7	996.0	985.7	96.770	SF
WINDWARD FEDERAL #12H - OWB - AWP	1,949.5	1,941.7	901.5	894.8	133.690	CC, ES
WINDWARD FEDERAL #12H - OWB - AWP	2,900.0	2,852.2	995.2	986.3	111.298	SF
WINDWARD FEDERAL #2H - LAT 01 - AWP						Out of range
WINDWARD FEDERAL #2H - OWB (PH) - AWP						Out of range
WINDWARD FEDERAL #3H - OWB - AWP	6,786.2	6,685.8	148.7	127.2	6.900	CC, ES
WINDWARD FEDERAL #3H - OWB - AWP	10,400.0	10,292.0	185.2	150.4	5.320	SF
WINDWARD FEDERAL #4H - OWB - AWP						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
			Between Centres (usft)	Between Ellipses (usft)		
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
WINDWARD FEDERAL #6H - OWB - AWP						Out of range
WINDWARD FEDERAL #7H - OWB - AWP						Out of range
WINDWARD FEDERAL #8H - OWB - AWP						Out of range
WINDWARD FEDERAL #9H - OWB - AWP	6,403.1	6,312.8	163.7	141.0	7.210	CC, ES
WINDWARD FEDERAL #9H - OWB - AWP	9,093.1	9,022.0	239.7	204.2	6.754	SF

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Anticollision Report

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Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
AZORES FEDERAL PROJECT (BULLDOG 2432)						
PAYNE #1 - OWB - AWP	22,261.7	4,806.0				Out of Range @TD
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
*WINDWARD FED #701H - OWB - PWP0	22,261.7	22,015.7				Out of Range @TD
*WINDWARD FED #702H - OWB - PWP0	22,261.7	22,318.7				Out of Range @TD
*WINDWARD FED #703H - OWB - PWP0	22,261.7	22,324.3	661.4	495.7	3.991	SF
*WINDWARD FED #704H - OWB - PWP0	22,261.7	22,299.1	880.1	705.2	5.031	ES, SF
*WINDWARD FED #705H - OWB - PWP0	22,261.7	22,386.3				Out of Range @TD
*WINDWARD FED #706H - OWB - PWP0	22,261.7	22,300.0				Out of Range @TD
KING TUT FEDERAL #2H - OWB - AWP	22,261.7	18,142.0				Out of Range @TD
KING TUT FEDERAL #3H - OWB - AWP	22,261.7	18,277.0				Out of Range @TD
KING TUT FEDERAL #4H - OWB - AWP	22,261.7	18,222.0				Out of Range @TD
PADUCA 30 FEDERAL #1 (P&A) - OWB - AWP	22,261.7	12,333.7				Out of Range @TD
TURQUOISE 30 FEDERAL SWD #1 (P&A) - OWB - AW	22,261.7	8,750.0				Out of Range @TD
WINDWARD FEDERAL #10H - OWB - AWP	22,261.7	19,025.0				Out of Range @TD
WINDWARD FEDERAL #11H - OWB - AWP	22,261.7	19,115.0				Out of Range @TD
WINDWARD FEDERAL #12H - OWB - AWP	22,261.7	19,062.0				Out of Range @TD
WINDWARD FEDERAL #2H - LAT 01 - AWP	22,261.7	20,401.0				Out of Range @TD
WINDWARD FEDERAL #2H - OWB (PH) - AWP	22,261.7	11,220.0				Out of Range @TD
WINDWARD FEDERAL #3H - OWB - AWP	22,261.7	20,366.0				Out of Range @TD
WINDWARD FEDERAL #4H - OWB - AWP	22,261.7	20,361.0				Out of Range @TD
WINDWARD FEDERAL #6H - OWB - AWP	22,261.7	18,904.4				Out of Range @TD
WINDWARD FEDERAL #7H - OWB - AWP	22,261.7	19,120.0				Out of Range @TD
WINDWARD FEDERAL #8H - OWB - AWP	22,261.7	19,115.0				Out of Range @TD
WINDWARD FEDERAL #9H - OWB - AWP	22,261.7	19,035.0				Out of Range @TD

Offset Design:	WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 11592-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis				Offset Wellbore Centre			Rule Assigned:					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Between	Between	Minimum	Separation	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		Centres	Ellipses	Separation	Factor	
										(usft)	(usft)	(usft)		
0.0	0.0	0.0	0.0	3.0	3.0	89.83	0.3	90.1	90.3					
95.0	95.0	88.8	88.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1		6.00	15.011	
100.0	100.0	93.8	93.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1		6.00	15.011	
190.0	190.0	183.8	183.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1		6.00	15.005	
200.0	200.0	193.8	193.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1		6.00	15.004	
285.0	285.0	278.8	278.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1		6.01	14.992	

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

ConocoPhillips

Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #701H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11592-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Offset		Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
300.0	300.0	293.8	293.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1	6.01	14.989		
380.0	380.0	373.8	373.8	3.0	3.0	89.83	0.3	90.1	90.1	84.1	6.02	14.972		
400.0	400.0	393.8	393.8	3.0	3.0	89.83	0.3	90.1	90.1	84.0	6.02	14.967		
475.0	475.0	468.8	468.8	3.0	3.0	89.83	0.3	90.1	90.1	84.0	6.03	14.944		
500.0	500.0	493.8	493.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.03	14.936		
570.0	570.0	563.8	563.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.04	14.910		
600.0	600.0	593.8	593.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.05	14.897		
665.0	665.0	658.8	658.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.06	14.868		
700.0	700.0	693.8	693.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.06	14.851		
760.0	760.0	753.8	753.8	3.1	3.1	89.83	0.3	90.1	90.1	84.0	6.08	14.820		
800.0	800.0	793.8	793.8	3.2	3.2	89.83	0.3	90.1	90.1	84.0	6.09	14.798		
855.0	855.0	848.8	848.8	3.2	3.2	89.83	0.3	90.1	90.1	84.0	6.10	14.765		
900.0	900.0	893.8	893.8	3.2	3.2	89.83	0.3	90.1	90.1	84.0	6.11	14.737		
950.0	950.0	943.8	943.8	3.2	3.2	89.83	0.3	90.1	90.1	83.9	6.13	14.704		
1,000.0	1,000.0	993.8	993.8	3.2	3.2	89.83	0.3	90.1	90.1	83.9	6.14	14.670		
1,045.0	1,045.0	1,038.8	1,038.8	3.3	3.3	89.83	0.3	90.1	90.1	83.9	6.15	14.637		
1,100.0	1,100.0	1,093.8	1,093.8	3.3	3.3	89.83	0.3	90.1	90.1	83.9	6.17	14.596		
1,140.0	1,140.0	1,133.8	1,133.8	3.3	3.3	89.83	0.3	90.1	90.1	83.9	6.18	14.565		
1,200.0	1,200.0	1,193.8	1,193.8	3.4	3.4	89.83	0.3	90.1	90.1	83.9	6.20	14.516		
1,235.0	1,235.0	1,228.8	1,228.8	3.4	3.4	89.83	0.3	90.1	90.1	83.9	6.22	14.486		
1,300.0	1,300.0	1,293.8	1,293.8	3.4	3.4	89.83	0.3	90.1	90.1	83.8	6.24	14.430		
1,330.0	1,330.0	1,323.8	1,323.8	3.4	3.4	89.83	0.3	90.1	90.1	83.8	6.25	14.403		
1,400.0	1,400.0	1,393.8	1,393.8	3.5	3.5	89.83	0.3	90.1	90.1	83.8	6.28	14.338		
1,425.0	1,425.0	1,418.8	1,418.8	3.5	3.5	89.83	0.3	90.1	90.1	83.8	6.29	14.314		
1,500.0	1,500.0	1,493.8	1,493.8	3.5	3.5	89.83	0.3	90.1	90.1	83.7	6.32	14.241		
1,520.0	1,520.0	1,513.8	1,513.8	3.6	3.6	89.83	0.3	90.1	90.1	83.7	6.33	14.221		
1,600.0	1,600.0	1,593.8	1,593.8	3.6	3.6	89.83	0.3	90.1	90.1	83.7	6.37	14.139		
1,615.0	1,615.0	1,608.8	1,608.8	3.6	3.6	89.83	0.3	90.1	90.1	83.7	6.38	14.123		
1,700.0	1,700.0	1,693.8	1,693.8	3.7	3.7	89.83	0.3	90.1	90.1	83.6	6.42	14.033		
1,710.0	1,710.0	1,703.8	1,703.8	3.7	3.7	89.83	0.3	90.1	90.1	83.6	6.42	14.022		
1,800.0	1,800.0	1,793.8	1,793.8	3.8	3.8	89.83	0.3	90.1	90.1	83.6	6.47	13.922		
1,805.0	1,805.0	1,798.8	1,798.8	3.8	3.8	89.83	0.3	90.1	90.1	83.6	6.47	13.917		
1,900.0	1,900.0	1,893.8	1,893.8	3.9	3.9	89.83	0.3	90.1	90.1	83.5	6.52	13.808		
1,995.0	1,995.0	1,988.8	1,988.8	3.9	3.9	89.83	0.3	90.1	90.1	83.5	6.58	13.697		
2,000.0	2,000.0	1,993.8	1,993.8	3.9	3.9	89.83	0.3	90.1	90.1	83.5	6.58	13.691 CC, ES		
2,090.0	2,090.0	2,083.8	2,083.8	4.0	4.0	157.52	0.3	90.1	91.4	84.6	6.74	13.547		
2,100.0	2,100.0	2,093.8	2,093.8	4.1	4.0	157.60	0.3	90.1	91.7	84.9	6.77	13.552		
2,185.0	2,184.9	2,178.7	2,178.7	4.5	4.1	158.53	0.3	90.1	95.6	88.4	7.25	13.187		
2,200.0	2,199.8	2,193.6	2,193.6	4.6	4.1	158.74	0.3	90.1	96.5	89.2	7.35	13.135 SF		
2,280.0	2,279.6	2,273.4	2,273.4	5.1	4.2	160.05	0.3	90.1	102.8	95.0	7.81	13.164		
2,300.0	2,299.5	2,293.3	2,293.3	5.2	4.2	160.42	0.3	90.1	104.7	96.8	7.94	13.196		
2,375.0	2,373.9	2,367.7	2,367.7	5.6	4.3	161.86	0.3	90.1	113.1	104.7	8.37	13.500		
2,400.0	2,398.7	2,392.5	2,392.5	5.8	4.3	162.36	0.3	90.1	116.3	107.7	8.53	13.632		
2,470.0	2,467.9	2,461.7	2,461.7	6.2	4.4	163.76	0.3	90.1	126.4	117.5	8.94	14.134		
2,500.0	2,497.5	2,491.3	2,491.3	6.3	4.4	164.35	0.3	90.1	131.3	122.1	9.13	14.383		
2,565.0	2,561.3	2,552.9	2,552.9	6.7	4.4	165.43	0.5	90.5	143.3	133.8	9.50	15.087		
2,600.2	2,595.8	2,585.8	2,585.8	6.9	4.5	165.88	0.8	91.2	150.9	141.2	9.70	15.565		
2,660.0	2,654.3	2,641.4	2,641.3	7.0	4.5	166.46	1.7	93.3	164.9	155.1	9.88	16.694		
2,700.0	2,693.4	2,678.3	2,678.2	7.2	4.5	166.69	2.5	95.1	174.9	164.9	10.00	17.493		
2,755.0	2,747.2	2,728.8	2,728.5	7.3	4.5	166.82	4.0	98.4	189.2	179.1	10.09	18.740		
2,800.0	2,791.2	2,769.7	2,769.3	7.3	4.6	166.81	5.4	101.7	201.5	191.3	10.17	19.809		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11592-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)			
2,850.0	2,840.2	2,814.9	2,814.3	7.4	4.6	166.69	7.3	105.9	215.7	205.4	10.26	21.031	
2,900.0	2,889.1	2,859.7	2,858.8	7.5	4.6	166.49	9.5	110.7	230.6	220.2	10.34	22.300	
2,945.0	2,933.1	2,900.0	2,898.7	7.6	4.7	166.24	11.6	115.5	244.5	234.1	10.42	23.466	
3,000.0	2,986.9	2,951.9	2,950.1	7.7	4.7	165.91	14.6	122.1	261.8	251.3	10.53	24.868	
3,040.0	3,026.0	2,989.9	2,987.7	7.8	4.7	165.70	16.7	126.9	274.4	263.8	10.62	25.851	
3,100.0	3,084.7	3,046.8	3,044.1	7.9	4.7	165.42	20.0	134.2	293.3	282.6	10.75	27.287	
3,135.0	3,118.9	3,080.0	3,077.0	8.0	4.8	165.27	21.9	138.4	304.4	293.5	10.83	28.094	
3,200.0	3,182.5	3,141.7	3,138.0	8.2	4.8	165.02	25.3	146.2	324.9	313.9	10.99	29.553	
3,230.0	3,211.8	3,170.1	3,166.2	8.3	4.8	164.91	27.0	149.9	334.3	323.3	11.07	30.201	
3,300.0	3,280.3	3,236.5	3,232.0	8.4	4.9	164.69	30.7	158.3	356.4	345.2	11.25	31.670	
3,325.0	3,304.8	3,260.3	3,255.5	8.5	4.9	164.62	32.1	161.3	364.3	353.0	11.32	32.175	
3,400.0	3,378.1	3,331.4	3,325.9	8.7	5.0	164.41	36.1	170.4	388.0	376.4	11.53	33.644	
3,420.0	3,397.7	3,350.4	3,344.7	8.7	5.0	164.36	37.2	172.8	394.3	382.7	11.59	34.020	
3,500.0	3,475.9	3,426.3	3,419.9	8.9	5.0	164.18	41.5	182.4	419.5	407.7	11.82	35.480	
3,515.0	3,490.6	3,440.5	3,434.0	9.0	5.0	164.15	42.3	184.2	424.3	412.4	11.87	35.742	
3,600.0	3,573.8	3,521.2	3,513.8	9.2	5.1	163.98	46.9	194.5	451.1	439.0	12.13	37.186	
3,610.0	3,583.5	3,530.7	3,523.2	9.2	5.1	163.96	47.4	195.7	454.2	442.1	12.16	37.349	
3,700.0	3,671.6	3,616.1	3,607.8	9.5	5.2	163.80	52.3	206.5	482.7	470.2	12.45	38.770	
3,705.0	3,676.5	3,620.8	3,612.5	9.5	5.2	163.80	52.5	207.1	484.2	471.8	12.47	38.846	
3,800.0	3,769.4	3,710.9	3,701.7	9.8	5.3	163.65	57.6	218.6	514.2	501.5	12.78	40.240	
3,895.0	3,862.3	3,801.1	3,791.0	10.1	5.3	163.52	62.8	230.0	544.2	531.1	13.10	41.538	
3,900.0	3,867.2	3,805.8	3,795.7	10.1	5.3	163.52	63.0	230.6	545.8	532.7	13.12	41.604	
3,990.0	3,955.2	3,891.2	3,880.2	10.3	5.4	163.41	67.9	241.5	574.2	560.8	13.43	42.747	
4,000.0	3,965.0	3,900.7	3,889.6	10.4	5.4	163.39	68.4	242.7	577.4	563.9	13.47	42.870	
4,085.0	4,048.2	3,981.3	3,969.5	10.6	5.5	163.30	73.0	252.9	604.2	590.5	13.77	43.872	
4,100.0	4,062.8	3,995.6	3,983.6	10.7	5.5	163.29	73.8	254.8	609.0	595.1	13.83	44.043	
4,180.0	4,141.1	4,071.5	4,058.8	10.9	5.6	163.21	78.1	264.4	634.2	620.1	14.12	44.920	
4,200.0	4,160.6	4,090.4	4,077.6	11.0	5.6	163.19	79.2	266.8	640.5	626.4	14.19	45.133	
4,275.0	4,234.0	4,161.6	4,148.0	11.2	5.7	163.12	83.2	275.9	664.2	649.8	14.47	45.897	
4,300.0	4,258.4	4,185.3	4,171.5	11.3	5.7	163.10	84.6	278.9	672.1	657.6	14.57	46.144	
4,370.0	4,326.9	4,251.7	4,237.3	11.5	5.7	163.04	88.3	287.3	694.2	679.4	14.83	46.808	
4,400.0	4,356.3	4,280.2	4,265.5	11.6	5.8	163.02	89.9	290.9	703.7	688.8	14.95	47.084	
4,465.0	4,419.8	4,341.9	4,326.5	11.8	5.8	162.97	93.4	298.8	724.3	709.1	15.20	47.658	
4,500.0	4,454.1	4,375.1	4,359.4	11.9	5.9	162.95	95.3	303.0	735.3	720.0	15.33	47.958	
4,560.0	4,512.8	4,432.0	4,415.8	12.1	5.9	162.90	98.6	310.2	754.3	738.7	15.57	48.451	
4,600.0	4,551.9	4,469.9	4,453.4	12.3	6.0	162.88	100.7	315.0	766.9	751.2	15.72	48.770	
4,655.0	4,605.7	4,522.1	4,505.0	12.4	6.0	162.84	103.7	321.7	784.3	768.3	15.94	49.192	
4,700.0	4,649.7	4,564.8	4,547.3	12.6	6.1	162.82	106.1	327.1	798.5	782.4	16.12	49.527	
4,750.0	4,698.6	4,612.3	4,594.3	12.8	6.1	162.79	108.8	333.1	814.3	798.0	16.32	49.885	
4,800.0	4,747.5	4,659.7	4,641.3	12.9	6.1	162.76	111.5	339.2	830.1	813.5	16.52	50.232	
4,845.0	4,791.5	4,702.4	4,683.5	13.1	6.2	162.73	113.9	344.6	844.3	827.6	16.71	50.533	
4,900.0	4,845.3	4,754.6	4,735.2	13.3	6.2	162.71	116.9	351.2	861.7	844.7	16.93	50.889	
4,940.0	4,884.5	4,792.5	4,772.8	13.4	6.3	162.68	119.0	356.0	874.3	857.2	17.10	51.139	
5,000.0	4,943.1	4,849.4	4,829.2	13.6	6.3	162.66	122.2	363.3	893.3	875.9	17.34	51.502	
5,035.0	4,977.4	4,882.7	4,862.1	13.7	6.4	162.64	124.1	367.5	904.3	886.8	17.49	51.707	
5,100.0	5,041.0	4,944.3	4,923.1	14.0	6.4	162.61	127.6	375.3	924.8	907.1	17.76	52.075	
5,130.0	5,070.3	4,972.8	4,951.3	14.1	6.5	162.60	129.2	378.9	934.3	916.4	17.89	52.239	
5,200.0	5,138.8	5,039.2	5,017.1	14.3	6.5	162.57	133.0	387.4	956.4	938.3	18.18	52.610	
5,225.0	5,163.2	5,062.9	5,040.6	14.4	6.6	162.56	134.3	390.4	964.3	946.0	18.29	52.738	
5,300.0	5,236.6	5,134.1	5,111.0	14.6	6.6	162.53	138.4	399.4	988.0	969.4	18.60	53.111	
5,320.0	5,256.1	5,153.0	5,129.8	14.7	6.7	162.52	139.5	401.9	994.3	975.7	18.69	53.207	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.68	0.3	60.1	60.3				
95.0	95.0	89.3	89.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.00	10.011	
100.0	100.0	94.3	94.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.00	10.011	
190.0	190.0	184.3	184.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.00	10.007	
200.0	200.0	194.3	194.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.00	10.007	
285.0	285.0	279.3	279.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.01	9.999	
300.0	300.0	294.3	294.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.01	9.997	
380.0	380.0	374.3	374.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.02	9.985	
400.0	400.0	394.3	394.3	3.0	3.0	89.68	0.3	60.1	60.1	54.1	6.02	9.982	
475.0	475.0	469.3	469.3	3.0	3.0	89.68	0.3	60.1	60.1	54.0	6.03	9.967	
500.0	500.0	494.3	494.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.03	9.961	
570.0	570.0	564.3	564.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.04	9.944	
600.0	600.0	594.3	594.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.05	9.935	
665.0	665.0	659.3	659.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.06	9.916	
700.0	700.0	694.3	694.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.06	9.905	
760.0	760.0	754.3	754.3	3.1	3.1	89.68	0.3	60.1	60.1	54.0	6.08	9.884	
800.0	800.0	794.3	794.3	3.2	3.2	89.68	0.3	60.1	60.1	54.0	6.09	9.869	
855.0	855.0	849.3	849.3	3.2	3.2	89.68	0.3	60.1	60.1	54.0	6.10	9.847	
900.0	900.0	894.3	894.3	3.2	3.2	89.68	0.3	60.1	60.1	54.0	6.11	9.829	
950.0	950.0	944.3	944.3	3.2	3.2	89.68	0.3	60.1	60.1	53.9	6.13	9.807	
1,000.0	1,000.0	994.3	994.3	3.2	3.2	89.68	0.3	60.1	60.1	53.9	6.14	9.784	
1,045.0	1,045.0	1,039.3	1,039.3	3.3	3.3	89.68	0.3	60.1	60.1	53.9	6.15	9.762	
1,100.0	1,100.0	1,094.3	1,094.3	3.3	3.3	89.68	0.3	60.1	60.1	53.9	6.17	9.734	
1,140.0	1,140.0	1,134.3	1,134.3	3.3	3.3	89.68	0.3	60.1	60.1	53.9	6.18	9.713	
1,200.0	1,200.0	1,194.3	1,194.3	3.4	3.4	89.68	0.3	60.1	60.1	53.9	6.20	9.681	
1,235.0	1,235.0	1,229.3	1,229.3	3.4	3.4	89.68	0.3	60.1	60.1	53.9	6.22	9.661	
1,300.0	1,300.0	1,294.3	1,294.3	3.4	3.4	89.68	0.3	60.1	60.1	53.8	6.24	9.623	
1,330.0	1,330.0	1,324.3	1,324.3	3.4	3.4	89.68	0.3	60.1	60.1	53.8	6.25	9.605	
1,400.0	1,400.0	1,394.3	1,394.3	3.5	3.5	89.68	0.3	60.1	60.1	53.8	6.28	9.562	
1,425.0	1,425.0	1,419.3	1,419.3	3.5	3.5	89.68	0.3	60.1	60.1	53.8	6.29	9.546	
1,500.0	1,500.0	1,494.3	1,494.3	3.5	3.5	89.68	0.3	60.1	60.1	53.7	6.32	9.497	
1,520.0	1,520.0	1,514.3	1,514.3	3.6	3.6	89.68	0.3	60.1	60.1	53.7	6.33	9.484	
1,600.0	1,600.0	1,594.3	1,594.3	3.6	3.6	89.68	0.3	60.1	60.1	53.7	6.37	9.430	
1,615.0	1,615.0	1,609.3	1,609.3	3.6	3.6	89.68	0.3	60.1	60.1	53.7	6.38	9.419	
1,700.0	1,700.0	1,694.3	1,694.3	3.7	3.7	89.68	0.3	60.1	60.1	53.6	6.42	9.359	
1,710.0	1,710.0	1,704.3	1,704.3	3.7	3.7	89.68	0.3	60.1	60.1	53.6	6.42	9.351	
1,800.0	1,800.0	1,794.3	1,794.3	3.8	3.8	89.68	0.3	60.1	60.1	53.6	6.47	9.285	
1,805.0	1,805.0	1,799.3	1,799.3	3.8	3.8	89.68	0.3	60.1	60.1	53.6	6.47	9.281	
1,900.0	1,900.0	1,894.3	1,894.3	3.9	3.9	89.68	0.3	60.1	60.1	53.5	6.52	9.209	
1,995.0	1,995.0	1,989.3	1,989.3	3.9	3.9	89.68	0.3	60.1	60.1	53.5	6.58	9.134	
2,000.0	2,000.0	1,994.3	1,994.3	3.9	3.9	89.68	0.3	60.1	60.1	53.5	6.58	9.130 CC, ES	
2,090.0	2,090.0	2,084.3	2,084.3	4.0	4.0	157.55	0.3	60.1	61.4	54.6	6.75	9.099	
2,100.0	2,100.0	2,094.3	2,094.3	4.1	4.0	157.66	0.3	60.1	61.7	54.9	6.77	9.117	
2,185.0	2,184.9	2,179.2	2,179.2	4.5	4.1	159.04	0.3	60.1	65.6	58.4	7.26	9.041 SF	
2,200.0	2,199.8	2,194.1	2,194.1	4.6	4.1	159.34	0.3	60.1	66.5	59.2	7.36	9.043	
2,280.0	2,279.6	2,273.9	2,273.9	5.1	4.2	161.16	0.3	60.1	72.9	65.0	7.84	9.297	
2,300.0	2,299.5	2,293.8	2,293.8	5.2	4.2	161.64	0.3	60.1	74.8	66.8	7.97	9.385	
2,375.0	2,373.9	2,368.2	2,368.2	5.6	4.3	163.51	0.3	60.1	83.2	74.8	8.43	9.872	
2,400.0	2,398.7	2,393.0	2,393.0	5.8	4.3	164.12	0.3	60.1	86.4	77.8	8.59	10.063	
2,470.0	2,467.9	2,462.2	2,462.2	6.2	4.4	165.79	0.3	60.1	96.7	87.6	9.02	10.717	
2,500.0	2,497.5	2,491.8	2,491.8	6.3	4.4	166.47	0.3	60.1	101.6	92.4	9.21	11.029	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #702H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 11620-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,561.3	2,555.2	2,555.2	6.7	4.4	167.56	0.8	60.3	113.4	103.8	9.59	11.824		
2,600.2	2,595.8	2,589.4	2,589.3	6.9	4.5	167.84	1.6	60.6	120.5	110.7	9.79	12.314		
2,660.0	2,654.3	2,647.3	2,647.2	7.0	4.5	167.93	3.8	61.5	133.2	123.2	9.96	13.368		
2,700.0	2,693.4	2,686.0	2,685.8	7.2	4.6	167.71	5.9	62.4	141.8	131.7	10.07	14.083		
2,755.0	2,747.2	2,739.0	2,738.8	7.3	4.6	167.14	9.5	63.9	153.8	143.7	10.15	15.157		
2,800.0	2,791.2	2,782.3	2,781.9	7.3	4.7	166.48	13.2	65.4	163.8	153.6	10.20	16.054		
2,850.0	2,840.2	2,830.3	2,829.6	7.4	4.7	165.58	17.9	67.4	175.2	164.9	10.27	17.057		
2,900.0	2,889.1	2,878.1	2,877.0	7.5	4.7	164.56	23.3	69.6	186.7	176.4	10.33	18.080		
2,945.0	2,933.1	2,921.3	2,919.8	7.6	4.8	163.55	28.8	71.9	197.4	187.0	10.39	19.002		
3,000.0	2,986.9	2,974.6	2,972.6	7.7	4.8	162.43	35.7	74.7	210.5	200.0	10.47	20.110		
3,040.0	3,026.0	3,013.3	3,010.9	7.8	4.9	161.70	40.7	76.8	220.0	209.5	10.53	20.889		
3,100.0	3,084.7	3,071.5	3,068.5	7.9	4.9	160.71	48.1	79.9	234.4	223.8	10.64	22.030		
3,135.0	3,118.9	3,105.4	3,102.1	8.0	5.0	160.19	52.5	81.7	242.9	232.1	10.71	22.671		
3,200.0	3,182.5	3,168.3	3,164.4	8.2	5.0	159.31	60.6	85.1	258.6	247.7	10.85	23.830		
3,230.0	3,211.8	3,197.4	3,193.2	8.3	5.0	158.93	64.3	86.6	265.8	254.9	10.92	24.344		
3,300.0	3,280.3	3,265.2	3,260.3	8.4	5.1	158.14	73.0	90.2	282.8	271.7	11.09	25.510		
3,325.0	3,304.8	3,289.4	3,284.3	8.5	5.1	157.88	76.1	91.5	288.9	277.7	11.15	25.909		
3,400.0	3,378.1	3,362.1	3,356.3	8.7	5.2	157.16	85.5	95.4	307.2	295.8	11.35	27.071		
3,420.0	3,397.7	3,381.4	3,375.4	8.7	5.2	156.98	88.0	96.4	312.0	300.6	11.40	27.368		
3,500.0	3,475.9	3,458.9	3,452.2	8.9	5.3	156.33	97.9	100.5	331.6	319.9	11.63	28.519		
3,515.0	3,490.6	3,473.5	3,466.6	9.0	5.3	156.21	99.8	101.3	335.2	323.6	11.67	28.725		
3,600.0	3,573.8	3,555.8	3,548.1	9.2	5.4	155.60	110.4	105.7	356.0	344.1	11.92	29.858		
3,610.0	3,583.5	3,565.5	3,557.7	9.2	5.4	155.54	111.6	106.2	358.5	346.5	11.96	29.986		
3,700.0	3,671.6	3,652.7	3,644.0	9.5	5.5	154.98	122.8	110.9	380.6	368.3	12.24	31.097		
3,705.0	3,676.5	3,657.5	3,648.8	9.5	5.5	154.95	123.5	111.1	381.8	369.5	12.25	31.156		
3,800.0	3,769.4	3,749.5	3,740.0	9.8	5.6	154.42	135.3	116.0	405.1	392.6	12.57	32.240		
3,895.0	3,862.3	3,841.6	3,831.1	10.1	5.7	153.96	147.1	120.9	428.5	415.6	12.89	33.246		
3,900.0	3,867.2	3,846.4	3,835.9	10.1	5.7	153.93	147.8	121.2	429.7	416.8	12.91	33.297		
3,990.0	3,955.2	3,933.6	3,922.2	10.3	5.8	153.54	159.0	125.8	451.9	438.7	13.22	34.178		
4,000.0	3,965.0	3,943.3	3,931.8	10.4	5.8	153.50	160.2	126.4	454.3	441.1	13.26	34.273		
4,085.0	4,048.2	4,025.6	4,013.3	10.6	5.9	153.16	170.8	130.7	475.3	461.7	13.56	35.042		
4,100.0	4,062.8	4,040.1	4,027.7	10.7	5.9	153.10	172.7	131.5	479.0	465.4	13.62	35.174		
4,180.0	4,141.1	4,117.6	4,104.5	10.9	6.0	152.82	182.6	135.7	498.7	484.8	13.91	35.845		
4,200.0	4,160.6	4,137.0	4,123.7	11.0	6.0	152.75	185.1	136.7	503.6	489.7	13.99	36.007		
4,275.0	4,234.0	4,209.6	4,195.6	11.2	6.1	152.51	194.5	140.6	522.1	507.9	14.27	36.589		
4,300.0	4,258.4	4,233.9	4,219.6	11.3	6.1	152.43	197.6	141.9	528.3	514.0	14.37	36.777		
4,370.0	4,326.9	4,301.7	4,286.7	11.5	6.2	152.22	206.3	145.5	545.6	531.0	14.63	37.281		
4,400.0	4,356.3	4,330.7	4,315.5	11.6	6.2	152.14	210.0	147.0	553.0	538.3	14.75	37.489		
4,465.0	4,419.8	4,393.7	4,377.9	11.8	6.3	151.96	218.1	150.4	569.1	554.1	15.01	37.923		
4,500.0	4,454.1	4,427.6	4,411.4	11.9	6.3	151.87	222.5	152.2	577.7	562.6	15.14	38.149		
4,560.0	4,512.8	4,485.7	4,469.0	12.1	6.4	151.72	229.9	155.3	592.5	577.2	15.38	38.520		
4,600.0	4,551.9	4,524.5	4,507.4	12.3	6.4	151.63	234.9	157.3	602.4	586.9	15.54	38.760		
4,655.0	4,605.7	4,577.7	4,560.1	12.4	6.5	151.50	241.8	160.2	616.0	600.3	15.76	39.076		
4,700.0	4,649.7	4,621.3	4,603.3	12.6	6.5	151.40	247.4	162.5	627.1	611.2	15.95	39.327		
4,750.0	4,698.6	4,669.8	4,651.2	12.8	6.6	151.30	253.6	165.1	639.5	623.4	16.15	39.594		
4,800.0	4,747.5	4,718.2	4,699.2	12.9	6.7	151.19	259.8	167.7	651.9	635.5	16.36	39.853		
4,845.0	4,791.5	4,761.8	4,742.4	13.1	6.7	151.10	265.4	170.0	663.0	646.5	16.54	40.077		
4,900.0	4,845.3	4,815.1	4,795.1	13.3	6.8	151.00	272.3	172.8	676.6	659.8	16.77	40.342		
4,940.0	4,884.5	4,853.8	4,833.5	13.4	6.8	150.93	277.3	174.9	686.5	669.6	16.94	40.527		
5,000.0	4,943.1	4,911.9	4,891.1	13.6	6.9	150.82	284.7	178.0	701.4	684.2	17.19	40.796		
5,035.0	4,977.4	4,945.8	4,924.6	13.7	6.9	150.76	289.1	179.8	710.0	692.7	17.34	40.947		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #702H - OWB - PWP0											Offset Site Error:		0.0 usft
Survey Program:		0-Standard Keeper 104, 11620-MWD+IFR1+MS							Rule Assigned:				Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.0	5,041.0	5,008.8	4,987.0	14.0	7.0	150.65	297.2	183.2	726.1	708.5	17.62	41.218			
5,130.0	5,070.3	5,037.9	5,015.8	14.1	7.0	150.60	300.9	184.7	733.5	715.8	17.74	41.339			
5,200.0	5,138.8	5,105.7	5,082.9	14.3	7.1	150.50	309.6	188.3	750.9	732.8	18.04	41.612			
5,225.0	5,163.2	5,129.9	5,106.9	14.4	7.1	150.46	312.8	189.6	757.1	738.9	18.15	41.705			
5,300.0	5,236.6	5,202.5	5,178.8	14.6	7.2	150.35	322.1	193.5	775.6	757.1	18.48	41.978			
5,320.0	5,256.1	5,221.9	5,198.0	14.7	7.2	150.32	324.6	194.5	780.6	762.0	18.56	42.048			
5,400.0	5,334.4	5,299.4	5,274.8	15.0	7.3	150.21	334.6	198.7	800.4	781.5	18.91	42.320			
5,415.0	5,349.1	5,313.9	5,289.1	15.0	7.3	150.19	336.4	199.4	804.1	785.1	18.98	42.369			
5,500.0	5,432.2	5,396.3	5,370.7	15.3	7.4	150.08	347.0	203.8	825.2	805.8	19.35	42.639			
5,510.0	5,442.0	5,406.0	5,380.3	15.4	7.4	150.07	348.3	204.3	827.6	808.2	19.40	42.669			
5,600.0	5,530.0	5,493.1	5,466.6	15.7	7.5	149.96	359.5	209.0	849.9	830.1	19.80	42.936			
5,605.0	5,534.9	5,498.0	5,471.4	15.7	7.5	149.96	360.1	209.2	851.2	831.4	19.82	42.951			
5,700.0	5,627.8	5,590.0	5,562.5	16.0	7.7	149.85	371.9	214.1	874.7	854.5	20.24	43.214			
5,795.0	5,720.8	5,682.0	5,653.7	16.4	7.8	149.74	383.7	219.1	898.3	877.6	20.67	43.461			
5,800.0	5,725.7	5,686.9	5,658.5	16.4	7.8	149.74	384.4	219.3	899.5	878.8	20.69	43.474			
5,890.0	5,813.7	5,774.1	5,744.8	16.7	7.9	149.65	395.6	224.0	921.8	900.7	21.10	43.693			
5,900.0	5,823.5	5,783.7	5,754.4	16.8	7.9	149.64	396.8	224.5	924.3	903.1	21.14	43.717			
5,985.0	5,906.6	5,866.1	5,835.9	17.1	8.0	149.55	407.4	228.9	945.3	923.8	21.53	43.911			
6,000.0	5,921.3	5,880.6	5,850.3	17.1	8.0	149.54	409.3	229.6	949.1	927.5	21.60	43.944			
6,080.0	5,999.5	5,958.1	5,927.0	17.4	8.1	149.46	419.2	233.8	968.9	946.9	21.96	44.115			
6,100.0	6,019.1	5,977.5	5,946.2	17.5	8.1	149.45	421.7	234.8	973.8	951.8	22.05	44.157			
6,175.0	6,092.5	6,050.1	6,018.2	17.7	8.2	149.38	431.1	238.7	992.4	970.0	22.40	44.308			
6,200.0	6,116.9	6,074.3	6,042.2	17.8	8.2	149.36	434.2	240.0	998.6	976.1	22.51	44.356			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Factor	
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.3	30.1	30.7				
95.0	95.0	89.1	89.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.00	5.017
100.0	100.0	94.1	94.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.00	5.017
190.0	190.0	184.1	184.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.00	5.015
200.0	200.0	194.1	194.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.00	5.015
285.0	285.0	279.1	279.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.01	5.010
300.0	300.0	294.1	294.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.01	5.010
380.0	380.0	374.1	374.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.02	5.004
400.0	400.0	394.1	394.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.02	5.002
475.0	475.0	469.1	469.1	3.0	3.0	89.43	0.3	30.1	30.1	24.1		6.03	4.994
500.0	500.0	494.1	494.1	3.1	3.1	89.43	0.3	30.1	30.1	24.1		6.03	4.992
570.0	570.0	564.1	564.1	3.1	3.1	89.43	0.3	30.1	30.1	24.1		6.04	4.983
600.0	600.0	594.1	594.1	3.1	3.1	89.43	0.3	30.1	30.1	24.1		6.05	4.979
665.0	665.0	659.1	659.1	3.1	3.1	89.43	0.3	30.1	30.1	24.0		6.06	4.969
700.0	700.0	694.1	694.1	3.1	3.1	89.43	0.3	30.1	30.1	24.0		6.06	4.963
760.0	760.0	754.1	754.1	3.1	3.1	89.43	0.3	30.1	30.1	24.0		6.08	4.953
800.0	800.0	794.1	794.1	3.2	3.2	89.43	0.3	30.1	30.1	24.0		6.09	4.946
855.0	855.0	849.1	849.1	3.2	3.2	89.43	0.3	30.1	30.1	24.0		6.10	4.935
900.0	900.0	894.1	894.1	3.2	3.2	89.43	0.3	30.1	30.1	24.0		6.11	4.925
950.0	950.0	944.1	944.1	3.2	3.2	89.43	0.3	30.1	30.1	24.0		6.13	4.914
1,000.0	1,000.0	994.1	994.1	3.2	3.2	89.43	0.3	30.1	30.1	24.0		6.14	4.903
1,045.0	1,045.0	1,039.1	1,039.1	3.3	3.3	89.43	0.3	30.1	30.1	23.9		6.15	4.892
1,100.0	1,100.0	1,094.1	1,094.1	3.3	3.3	89.43	0.3	30.1	30.1	23.9		6.17	4.878
1,140.0	1,140.0	1,134.1	1,134.1	3.3	3.3	89.43	0.3	30.1	30.1	23.9		6.18	4.868
1,200.0	1,200.0	1,194.1	1,194.1	3.4	3.4	89.43	0.3	30.1	30.1	23.9		6.20	4.851
1,235.0	1,235.0	1,229.1	1,229.1	3.4	3.4	89.43	0.3	30.1	30.1	23.9		6.22	4.841
1,300.0	1,300.0	1,294.1	1,294.1	3.4	3.4	89.43	0.3	30.1	30.1	23.9		6.24	4.822
1,330.0	1,330.0	1,324.1	1,324.1	3.4	3.4	89.43	0.3	30.1	30.1	23.8		6.25	4.813
1,400.0	1,400.0	1,394.1	1,394.1	3.5	3.5	89.43	0.3	30.1	30.1	23.8		6.28	4.792
1,425.0	1,425.0	1,419.1	1,419.1	3.5	3.5	89.43	0.3	30.1	30.1	23.8		6.29	4.784
1,500.0	1,500.0	1,494.1	1,494.1	3.5	3.5	89.43	0.3	30.1	30.1	23.8		6.32	4.759
1,520.0	1,520.0	1,514.1	1,514.1	3.6	3.6	89.43	0.3	30.1	30.1	23.8		6.33	4.753
1,600.0	1,600.0	1,594.1	1,594.1	3.6	3.6	89.43	0.3	30.1	30.1	23.7		6.37	4.725
1,615.0	1,615.0	1,609.1	1,609.1	3.6	3.6	89.43	0.3	30.1	30.1	23.7		6.38	4.720
1,700.0	1,700.0	1,694.1	1,694.1	3.7	3.7	89.43	0.3	30.1	30.1	23.7		6.42	4.690
1,710.0	1,710.0	1,704.1	1,704.1	3.7	3.7	89.43	0.3	30.1	30.1	23.7		6.42	4.686
1,800.0	1,800.0	1,794.1	1,794.1	3.8	3.8	89.43	0.3	30.1	30.1	23.6		6.47	4.653
1,805.0	1,805.0	1,799.1	1,799.1	3.8	3.8	89.43	0.3	30.1	30.1	23.6		6.47	4.651
1,900.0	1,900.0	1,894.1	1,894.1	3.9	3.9	89.43	0.3	30.1	30.1	23.6		6.52	4.615
1,995.0	1,995.0	1,989.1	1,989.1	3.9	3.9	89.43	0.3	30.1	30.1	23.5		6.58	4.577
2,000.0	2,000.0	1,994.1	1,994.1	3.9	3.9	89.43	0.3	30.1	30.1	23.5		6.58	4.575 CC, ES
2,090.0	2,090.0	2,084.1	2,084.1	4.0	4.0	157.80	0.3	30.1	31.4	24.7		6.75	4.656
2,100.0	2,100.0	2,094.1	2,094.1	4.1	4.0	158.02	0.3	30.1	31.7	24.9		6.77	4.686
2,185.0	2,184.9	2,179.0	2,179.0	4.5	4.1	160.53	0.3	30.1	35.7	28.4		7.28	4.900
2,200.0	2,199.8	2,193.9	2,193.9	4.6	4.1	161.05	0.3	30.1	36.6	29.2		7.39	4.956
2,280.0	2,279.6	2,273.7	2,273.7	5.1	4.2	163.91	0.3	30.1	43.0	35.1		7.91	5.440
2,300.0	2,299.5	2,293.6	2,293.6	5.2	4.2	164.62	0.3	30.1	45.0	36.9		8.05	5.586
2,375.0	2,373.9	2,368.0	2,368.0	5.6	4.3	167.08	0.3	30.1	53.5	45.0		8.54	6.264
2,400.0	2,398.7	2,392.8	2,392.8	5.8	4.3	167.83	0.3	30.1	56.8	48.1		8.71	6.519
2,470.0	2,467.9	2,462.0	2,462.0	6.2	4.4	169.69	0.3	30.1	67.2	58.0		9.16	7.332
2,500.0	2,497.5	2,491.6	2,491.6	6.3	4.4	170.40	0.3	30.1	72.2	62.8		9.36	7.711

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,565.0	2,561.3	2,556.6	2,556.6	6.7	4.4	171.48	0.8	29.8	83.6	73.9	9.76	8.572	
2,600.2	2,595.8	2,592.0	2,592.0	6.9	4.5	171.74	1.6	29.3	90.0	80.1	9.97	9.033	
2,660.0	2,654.3	2,652.4	2,652.3	7.0	4.5	171.76	3.7	27.9	100.5	90.4	10.16	9.895	
2,700.0	2,693.4	2,692.9	2,692.8	7.2	4.6	171.51	5.8	26.6	107.0	96.8	10.28	10.414	
2,755.0	2,747.2	2,748.8	2,748.5	7.3	4.6	170.88	9.4	24.4	115.3	105.0	10.37	11.123	
2,800.0	2,791.2	2,794.7	2,794.2	7.3	4.7	170.16	13.1	22.0	121.6	111.1	10.43	11.652	
2,850.0	2,840.2	2,845.8	2,845.0	7.4	4.7	169.16	18.0	19.0	127.9	117.4	10.50	12.181	
2,900.0	2,889.1	2,897.0	2,895.8	7.5	4.7	167.97	23.6	15.5	133.7	123.2	10.56	12.660	
2,945.0	2,933.1	2,941.8	2,940.1	7.6	4.8	166.88	28.8	12.2	138.7	128.1	10.62	13.056	
3,000.0	2,986.9	2,996.4	2,994.1	7.7	4.8	165.65	35.3	8.1	144.8	134.1	10.70	13.533	
3,040.0	3,026.0	3,036.1	3,033.4	7.8	4.9	164.82	39.9	5.2	149.3	138.5	10.76	13.869	
3,100.0	3,084.7	3,095.6	3,092.4	7.9	4.9	163.66	46.9	0.8	156.1	145.2	10.87	14.363	
3,135.0	3,118.9	3,130.3	3,126.8	8.0	5.0	163.03	51.0	-1.8	160.1	149.1	10.93	14.640	
3,200.0	3,182.5	3,194.8	3,190.7	8.2	5.0	161.94	58.6	-6.6	167.5	156.4	11.06	15.144	
3,230.0	3,211.8	3,224.6	3,220.1	8.3	5.0	161.47	62.1	-8.8	171.0	159.8	11.13	15.367	
3,300.0	3,280.3	3,294.0	3,288.9	8.4	5.1	160.44	70.3	-13.9	179.1	167.8	11.28	15.873	
3,325.0	3,304.8	3,318.9	3,313.5	8.5	5.1	160.09	73.3	-15.8	182.0	170.6	11.34	16.047	
3,400.0	3,378.1	3,393.3	3,387.2	8.7	5.2	159.12	82.0	-21.3	190.7	179.2	11.52	16.552	
3,420.0	3,397.7	3,413.1	3,406.8	8.7	5.2	158.88	84.4	-22.7	193.1	181.5	11.58	16.680	
3,500.0	3,475.9	3,492.5	3,485.4	8.9	5.3	157.96	93.7	-28.6	202.5	190.7	11.79	17.179	
3,515.0	3,490.6	3,507.4	3,500.2	9.0	5.3	157.79	95.5	-29.7	204.3	192.5	11.83	17.268	
3,600.0	3,573.8	3,591.7	3,583.7	9.2	5.4	156.92	105.4	-36.0	214.3	202.3	12.07	17.758	
3,610.0	3,583.5	3,601.6	3,593.5	9.2	5.4	156.82	106.6	-36.7	215.5	203.4	12.10	17.813	
3,700.0	3,671.6	3,691.0	3,682.0	9.5	5.5	155.99	117.1	-43.3	226.2	213.9	12.37	18.291	
3,705.0	3,676.5	3,695.9	3,686.9	9.5	5.5	155.95	117.7	-43.7	226.8	214.5	12.38	18.317	
3,800.0	3,769.4	3,790.2	3,780.2	9.8	5.6	155.16	128.8	-50.7	238.2	225.5	12.68	18.782	
3,895.0	3,862.3	3,884.4	3,873.6	10.1	5.7	154.44	139.9	-57.7	249.6	236.6	12.99	19.210	
3,900.0	3,867.2	3,889.4	3,878.5	10.1	5.7	154.40	140.5	-58.0	250.2	237.2	13.01	19.232	
3,990.0	3,955.2	3,978.7	3,966.9	10.3	5.8	153.78	151.0	-64.6	261.0	247.7	13.31	19.604	
4,000.0	3,965.0	3,988.6	3,976.7	10.4	5.8	153.71	152.2	-65.4	262.2	248.9	13.35	19.644	
4,085.0	4,048.2	4,073.0	4,060.3	10.6	5.9	153.18	162.1	-71.6	272.5	258.8	13.65	19.968	
4,100.0	4,062.8	4,087.9	4,075.0	10.7	5.9	153.09	163.9	-72.7	274.3	260.6	13.70	20.023	
4,180.0	4,141.1	4,167.2	4,153.6	10.9	6.0	152.62	173.2	-78.6	284.0	270.0	13.99	20.303	
4,200.0	4,160.6	4,187.1	4,173.3	11.0	6.0	152.51	175.6	-80.1	286.4	272.3	14.06	20.371	
4,275.0	4,234.0	4,261.5	4,247.0	11.2	6.1	152.11	184.3	-85.6	295.5	281.1	14.34	20.612	
4,300.0	4,258.4	4,286.3	4,271.5	11.3	6.1	151.99	187.2	-87.4	298.5	284.1	14.43	20.689	
4,370.0	4,326.9	4,355.8	4,340.3	11.5	6.2	151.64	195.4	-92.6	307.0	292.3	14.69	20.896	
4,400.0	4,356.3	4,385.5	4,369.8	11.6	6.2	151.50	198.9	-94.8	310.7	295.8	14.81	20.982	
4,465.0	4,419.8	4,450.0	4,433.7	11.8	6.3	151.21	206.5	-99.5	318.6	303.5	15.06	21.158	
4,500.0	4,454.1	4,484.8	4,468.0	11.9	6.3	151.05	210.6	-102.1	322.8	307.6	15.19	21.250	
4,560.0	4,512.8	4,544.3	4,527.0	12.1	6.4	150.80	217.6	-106.5	330.1	314.7	15.43	21.400	
4,600.0	4,551.9	4,584.0	4,566.3	12.3	6.4	150.64	222.3	-109.5	335.0	319.4	15.58	21.496	
4,655.0	4,605.7	4,638.6	4,620.3	12.4	6.5	150.42	228.8	-113.5	341.7	325.9	15.80	21.623	
4,700.0	4,649.7	4,683.2	4,664.6	12.6	6.5	150.25	234.0	-116.8	347.2	331.2	15.98	21.723	
4,750.0	4,698.6	4,732.8	4,713.7	12.8	6.6	150.06	239.9	-120.5	353.3	337.1	16.19	21.828	
4,800.0	4,747.5	4,782.4	4,762.8	12.9	6.7	149.89	245.7	-124.2	359.4	343.0	16.39	21.930	
4,845.0	4,791.5	4,827.1	4,807.0	13.1	6.7	149.73	251.0	-127.5	364.9	348.3	16.57	22.018	
4,900.0	4,845.3	4,881.7	4,861.1	13.3	6.8	149.55	257.4	-131.5	371.7	354.8	16.80	22.121	
4,940.0	4,884.5	4,921.4	4,900.4	13.4	6.8	149.42	262.1	-134.5	376.5	359.6	16.97	22.193	
5,000.0	4,943.1	4,980.9	4,959.3	13.6	6.9	149.23	269.1	-138.9	383.9	366.7	17.22	22.297	
5,035.0	4,977.4	5,015.6	4,993.7	13.7	6.9	149.13	273.2	-141.4	388.2	370.8	17.36	22.354	

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

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 11620-MWD+IFR1+MS						Rule Assigned:					Offset Well Error:	3.0 usft
Reference		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)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,041.0	5,080.1	5,057.6	14.0	7.0	148.94	280.8	-146.2	396.1	378.5	17.64	22.458		
5,130.0	5,070.3	5,109.9	5,087.1	14.1	7.0	148.85	284.3	-148.4	399.8	382.1	17.77	22.504		
5,200.0	5,138.8	5,179.4	5,155.9	14.3	7.1	148.66	292.5	-153.6	408.4	390.3	18.07	22.606		
5,225.0	5,163.2	5,204.2	5,180.4	14.4	7.1	148.59	295.4	-155.4	411.5	393.3	18.17	22.641		
5,300.0	5,236.6	5,278.6	5,254.1	14.6	7.2	148.40	304.2	-160.9	420.7	402.2	18.50	22.743		
5,320.0	5,256.1	5,298.4	5,273.8	14.7	7.2	148.35	306.5	-162.4	423.1	404.5	18.58	22.769		
5,400.0	5,334.4	5,377.8	5,352.4	15.0	7.3	148.15	315.9	-168.3	433.0	414.0	18.93	22.868		
5,415.0	5,349.1	5,392.7	5,367.1	15.0	7.3	148.11	317.6	-169.4	434.8	415.8	19.00	22.886		
5,500.0	5,432.2	5,477.0	5,450.7	15.3	7.4	147.92	327.5	-175.6	445.2	425.9	19.37	22.983		
5,510.0	5,442.0	5,487.0	5,460.5	15.4	7.5	147.89	328.7	-176.4	446.5	427.0	19.42	22.994		
5,600.0	5,530.0	5,576.3	5,548.9	15.7	7.6	147.69	339.2	-183.0	457.5	437.7	19.82	23.089		
5,605.0	5,534.9	5,581.2	5,553.8	15.7	7.6	147.68	339.8	-183.3	458.1	438.3	19.84	23.095		
5,700.0	5,627.8	5,675.5	5,647.2	16.0	7.7	147.49	350.9	-190.3	469.8	449.6	20.26	23.187		
5,795.0	5,720.8	5,769.7	5,740.5	16.4	7.8	147.30	362.0	-197.3	481.5	460.8	20.69	23.272		
5,800.0	5,725.7	5,774.7	5,745.4	16.4	7.8	147.29	362.6	-197.7	482.1	461.4	20.71	23.277		
5,890.0	5,813.7	5,864.0	5,833.9	16.7	7.9	147.12	373.1	-204.3	493.2	472.1	21.12	23.351		
5,900.0	5,823.5	5,873.9	5,843.7	16.8	7.9	147.10	374.3	-205.0	494.4	473.3	21.17	23.359		
5,985.0	5,906.6	5,958.3	5,927.2	17.1	8.0	146.94	384.2	-211.3	504.9	483.4	21.56	23.423		
6,000.0	5,921.3	5,973.2	5,942.0	17.1	8.0	146.92	386.0	-212.4	506.8	485.1	21.62	23.435		
6,080.0	5,999.5	6,052.5	6,020.6	17.4	8.1	146.78	395.4	-218.2	516.6	494.6	21.99	23.490		
6,100.0	6,019.1	6,072.4	6,040.2	17.5	8.1	146.75	397.7	-219.7	519.1	497.0	22.08	23.504		
6,175.0	6,092.5	6,146.8	6,113.9	17.7	8.2	146.62	406.5	-225.2	528.3	505.9	22.43	23.552		
6,200.0	6,116.9	6,171.6	6,138.5	17.8	8.3	146.58	409.4	-227.1	531.4	508.9	22.55	23.567		
6,270.0	6,185.4	6,241.1	6,207.3	18.1	8.3	146.47	417.6	-232.2	540.0	517.2	22.87	23.609		
6,300.0	6,214.7	6,270.8	6,236.7	18.2	8.4	146.43	421.1	-234.4	543.7	520.7	23.01	23.626		
6,365.0	6,278.3	6,335.3	6,300.6	18.4	8.5	146.33	428.7	-239.2	551.7	528.4	23.32	23.661		
6,400.0	6,312.5	6,370.1	6,335.0	18.6	8.5	146.28	432.8	-241.8	556.1	532.6	23.48	23.679		
6,460.0	6,371.2	6,429.6	6,394.0	18.8	8.6	146.19	439.8	-246.2	563.5	539.7	23.77	23.709		
6,500.0	6,410.3	6,469.3	6,433.3	18.9	8.6	146.14	444.5	-249.1	568.4	544.4	23.96	23.728		
6,555.0	6,464.1	6,523.9	6,487.3	19.1	8.7	146.06	450.9	-253.2	575.2	551.0	24.22	23.752		
6,600.0	6,508.2	6,568.5	6,531.5	19.3	8.7	146.00	456.1	-256.5	580.7	556.3	24.43	23.772		
6,650.0	6,557.1	6,618.1	6,580.7	19.5	8.8	145.93	462.0	-260.1	586.9	562.2	24.67	23.793		
6,700.0	6,606.0	6,667.7	6,629.8	19.7	8.9	145.87	467.8	-263.8	593.1	568.2	24.91	23.812		
6,745.0	6,650.0	6,712.4	6,674.0	19.8	8.9	145.81	473.1	-267.1	598.6	573.5	25.12	23.829		
6,800.0	6,703.8	6,767.0	6,728.0	20.0	9.0	145.74	479.5	-271.2	605.4	580.0	25.39	23.849		
6,840.0	6,742.9	6,806.7	6,767.3	20.2	9.0	145.69	484.2	-274.1	610.4	584.8	25.58	23.863		
6,900.0	6,801.6	6,866.2	6,826.3	20.4	9.1	145.62	491.2	-278.5	617.8	591.9	25.87	23.882		
6,935.0	6,835.8	6,900.9	6,860.7	20.5	9.1	145.58	495.3	-281.1	622.1	596.1	26.04	23.893		
6,942.7	6,843.4	6,908.6	6,868.3	20.5	9.2	145.57	496.2	-281.7	623.0	597.0	26.07	23.896		
7,000.0	6,899.5	6,965.5	6,924.6	20.7	9.2	145.53	502.9	-285.9	629.9	603.5	26.35	23.905		
7,030.0	6,928.9	6,995.3	6,954.1	20.8	9.3	145.50	506.4	-288.1	633.3	606.8	26.49	23.903		
7,100.0	6,997.7	7,064.8	7,023.0	21.1	9.3	145.39	514.6	-293.2	640.7	613.9	26.83	23.881		
7,125.0	7,022.2	7,089.7	7,047.6	21.2	9.4	145.33	517.6	-295.1	643.2	616.2	26.95	23.868		
7,200.0	7,096.2	7,164.3	7,121.5	21.5	9.5	145.15	526.4	-300.6	650.1	622.8	27.31	23.809		
7,220.0	7,115.9	7,184.3	7,141.3	21.5	9.5	145.09	528.7	-302.1	651.8	624.4	27.40	23.789		
7,300.0	7,194.9	7,263.9	7,220.2	21.8	9.6	144.83	538.1	-308.0	658.1	630.3	27.78	23.692		
7,315.0	7,209.8	7,278.9	7,235.0	21.9	9.6	144.77	539.8	-309.1	659.2	631.3	27.85	23.671		
7,400.0	7,294.0	7,363.6	7,318.8	22.2	9.7	144.42	549.8	-315.4	664.7	636.5	28.25	23.533		
7,410.0	7,303.9	7,373.5	7,328.7	22.2	9.7	144.38	551.0	-316.1	665.3	637.0	28.29	23.515		
7,500.0	7,393.3	7,461.0	7,415.4	22.5	9.8	143.97	561.0	-322.4	670.1	641.4	28.70	23.346		
7,505.0	7,398.2	7,465.8	7,420.1	22.5	9.8	143.94	561.6	-322.7	670.3	641.6	28.72	23.336		

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

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Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Rule Assigned:		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
7,600.0	7,492.7	7,557.1	7,510.8	22.9	10.0	143.56	570.9	-328.6	674.6	645.4	29.14	23.146	
7,695.0	7,587.4	7,648.6	7,601.7	23.2	10.1	143.21	578.9	-333.7	678.1	648.5	29.55	22.942	
7,700.0	7,592.3	7,653.4	7,606.5	23.2	10.1	143.19	579.3	-333.9	678.2	648.6	29.58	22.931	
7,790.0	7,682.1	7,740.1	7,692.9	23.5	10.2	142.90	585.8	-338.0	680.8	650.8	29.96	22.726	
7,800.0	7,692.1	7,749.8	7,702.5	23.6	10.2	142.87	586.4	-338.4	681.0	651.0	30.00	22.702	
7,885.0	7,777.0	7,831.7	7,784.3	23.8	10.3	142.63	591.4	-341.5	682.7	652.4	30.35	22.497	
7,900.0	7,792.0	7,846.2	7,798.7	23.9	10.3	142.59	592.2	-342.0	683.0	652.6	30.41	22.460	
7,980.0	7,871.9	7,923.4	7,875.8	24.2	10.4	142.39	595.8	-344.2	683.9	653.2	30.73	22.258	
8,000.0	7,891.9	7,942.7	7,895.1	24.2	10.4	142.34	596.6	-344.7	684.0	653.2	30.80	22.208	
8,075.0	7,966.9	8,015.2	7,967.5	24.5	10.5	142.19	598.9	-346.2	684.3	653.2	31.09	22.013	
8,100.0	7,991.9	8,039.3	7,991.6	24.6	10.5	142.14	599.6	-346.6	684.3	653.1	31.18	21.947	
8,143.1	8,035.0	8,081.0	8,033.3	24.7	10.6	74.71	600.4	-347.2	684.1	652.7	31.33	21.832	
8,170.0	8,061.9	8,107.0	8,059.3	24.8	10.6	74.67	600.8	-347.4	683.9	652.5	31.43	21.761	
8,200.0	8,091.9	8,136.0	8,088.3	24.9	10.7	74.64	601.2	-347.6	683.8	652.3	31.54	21.684	
8,265.0	8,156.9	8,198.8	8,151.1	25.1	10.7	74.61	601.5	-347.8	683.7	651.9	31.77	21.519	
8,277.7	8,169.6	8,211.4	8,163.7	25.1	10.7	74.61	601.5	-347.8	683.7	651.9	31.82	21.487	
8,300.0	8,191.9	8,233.7	8,186.0	25.2	10.8	74.61	601.5	-347.8	683.7	651.8	31.90	21.432	
8,360.0	8,251.9	8,293.7	8,246.0	25.3	10.8	74.61	601.5	-347.8	683.7	651.6	32.13	21.281	
8,400.0	8,291.9	8,333.7	8,286.0	25.5	10.9	74.61	601.5	-347.8	683.7	651.4	32.28	21.182	
8,455.0	8,346.9	8,388.7	8,341.0	25.6	11.0	74.61	601.5	-347.8	683.7	651.2	32.48	21.046	
8,500.0	8,391.9	8,433.7	8,386.0	25.8	11.0	74.61	601.5	-347.8	683.7	651.0	32.65	20.937	
8,550.0	8,441.9	8,483.7	8,436.0	25.9	11.1	74.61	601.5	-347.8	683.7	650.8	32.84	20.816	
8,600.0	8,491.9	8,533.7	8,486.0	26.1	11.1	74.61	601.5	-347.8	683.7	650.7	33.03	20.697	
8,645.0	8,536.9	8,578.7	8,531.0	26.2	11.2	74.61	601.5	-347.8	683.7	650.5	33.20	20.590	
8,700.0	8,591.9	8,633.7	8,586.0	26.4	11.3	74.61	601.5	-347.8	683.7	650.3	33.41	20.462	
8,740.0	8,631.9	8,673.7	8,626.0	26.5	11.3	74.61	601.5	-347.8	683.7	650.1	33.57	20.369	
8,800.0	8,691.9	8,733.7	8,686.0	26.7	11.4	74.61	601.5	-347.8	683.7	649.9	33.79	20.231	
8,835.0	8,726.9	8,768.7	8,721.0	26.8	11.4	74.61	601.5	-347.8	683.7	649.8	33.93	20.151	
8,900.0	8,791.9	8,833.7	8,786.0	27.0	11.5	74.61	601.5	-347.8	683.7	649.5	34.18	20.005	
8,930.0	8,821.9	8,863.7	8,816.0	27.1	11.5	74.61	601.5	-347.8	683.7	649.4	34.29	19.938	
9,000.0	8,891.9	8,933.7	8,886.0	27.3	11.6	74.61	601.5	-347.8	683.7	649.1	34.56	19.783	
9,025.0	8,916.9	8,958.7	8,911.0	27.4	11.6	74.61	601.5	-347.8	683.7	649.0	34.66	19.728	
9,100.0	8,991.9	9,033.7	8,986.0	27.6	11.7	74.61	601.5	-347.8	683.7	648.8	34.94	19.566	
9,120.0	9,011.9	9,053.7	9,006.0	27.7	11.8	74.61	601.5	-347.8	683.7	648.7	35.02	19.523	
9,200.0	9,091.9	9,133.7	9,086.0	28.0	11.9	74.61	601.5	-347.8	683.7	648.4	35.33	19.352	
9,215.0	9,106.9	9,148.7	9,101.0	28.0	11.9	74.61	601.5	-347.8	683.7	648.3	35.39	19.321	
9,300.0	9,191.9	9,233.7	9,186.0	28.3	12.0	74.61	601.5	-347.8	683.7	648.0	35.71	19.143	
9,310.0	9,201.9	9,243.7	9,196.0	28.3	12.0	74.61	601.5	-347.8	683.7	647.9	35.75	19.122	
9,400.0	9,291.9	9,333.7	9,286.0	28.6	12.1	74.61	601.5	-347.8	683.7	647.6	36.10	18.938	
9,405.0	9,296.9	9,338.7	9,291.0	28.6	12.1	74.61	601.5	-347.8	683.7	647.6	36.12	18.928	
9,500.0	9,391.9	9,433.7	9,386.0	28.9	12.2	74.61	601.5	-347.8	683.7	647.2	36.49	18.737	
9,595.0	9,486.9	9,528.7	9,481.0	29.2	12.3	74.61	601.5	-347.8	683.7	646.8	36.86	18.549	
9,600.0	9,491.9	9,533.7	9,486.0	29.2	12.3	74.61	601.5	-347.8	683.7	646.8	36.88	18.539	
9,690.0	9,581.9	9,623.7	9,576.0	29.5	12.4	74.61	601.5	-347.8	683.7	646.5	37.23	18.364	
9,700.0	9,591.9	9,633.7	9,586.0	29.6	12.5	74.61	601.5	-347.8	683.7	646.4	37.27	18.345	
9,785.0	9,676.9	9,718.7	9,671.0	29.8	12.6	74.61	601.5	-347.8	683.7	646.1	37.60	18.183	
9,800.0	9,691.9	9,733.7	9,686.0	29.9	12.6	74.61	601.5	-347.8	683.7	646.0	37.66	18.155	
9,880.0	9,771.9	9,813.7	9,766.0	30.1	12.7	74.61	601.5	-347.8	683.7	645.7	37.97	18.005	
9,900.0	9,791.9	9,833.7	9,786.0	30.2	12.7	74.61	601.5	-347.8	683.7	645.6	38.05	17.968	
9,975.0	9,866.9	9,908.7	9,861.0	30.4	12.8	74.61	601.5	-347.8	683.7	645.3	38.34	17.830	
10,000.0	9,891.9	9,933.7	9,886.0	30.5	12.8	74.61	601.5	-347.8	683.7	645.3	38.44	17.785	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												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 Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,070.0	9,961.9	10,003.7	9,956.0	30.8	12.9	74.61	601.5	-347.8	683.7	645.0	38.72	17.659	
10,100.0	9,991.9	10,033.7	9,986.0	30.8	13.0	74.61	601.5	-347.8	683.7	644.9	38.83	17.605	
10,165.0	10,056.9	10,098.7	10,051.0	31.1	13.0	74.61	601.5	-347.8	683.7	644.6	39.09	17.490	
10,200.0	10,091.9	10,133.7	10,086.0	31.2	13.1	74.61	601.5	-347.8	683.7	644.5	39.23	17.428	
10,260.0	10,151.9	10,193.7	10,146.0	31.4	13.1	74.61	601.5	-347.8	683.7	644.2	39.47	17.324	
10,300.0	10,191.9	10,233.7	10,186.0	31.5	13.2	74.61	601.5	-347.8	683.7	644.1	39.62	17.255	
10,355.0	10,246.9	10,288.7	10,241.0	31.7	13.3	74.61	601.5	-347.8	683.7	643.9	39.84	17.161	
10,400.0	10,291.9	10,333.7	10,286.0	31.8	13.3	74.61	601.5	-347.8	683.7	643.7	40.02	17.085	
10,450.0	10,341.9	10,383.7	10,336.0	32.0	13.4	74.61	601.5	-347.8	683.7	643.5	40.22	17.001	
10,500.0	10,391.9	10,433.7	10,386.0	32.2	13.4	74.61	601.5	-347.8	683.7	643.3	40.41	16.917	
10,545.0	10,436.9	10,478.7	10,431.0	32.3	13.5	74.61	601.5	-347.8	683.7	643.1	40.59	16.843	
10,600.0	10,491.9	10,533.7	10,486.0	32.5	13.6	74.61	601.5	-347.8	683.7	642.9	40.81	16.753	
10,640.0	10,531.9	10,573.7	10,526.0	32.6	13.6	74.61	601.5	-347.8	683.7	642.7	40.97	16.688	
10,700.0	10,591.9	10,633.7	10,586.0	32.8	13.7	74.61	601.5	-347.8	683.7	642.5	41.21	16.592	
10,735.0	10,626.9	10,668.7	10,621.0	32.9	13.7	74.61	601.5	-347.8	683.7	642.3	41.35	16.536	
10,800.0	10,691.9	10,733.7	10,686.0	33.1	13.8	74.61	601.5	-347.8	683.7	642.1	41.60	16.433	
10,830.0	10,721.9	10,763.7	10,716.0	33.2	13.9	74.61	601.5	-347.8	683.7	642.0	41.72	16.386	
10,900.0	10,791.9	10,833.7	10,786.0	33.5	13.9	74.61	601.5	-347.8	683.7	641.7	42.00	16.277	
10,925.0	10,816.9	10,858.7	10,811.0	33.6	14.0	74.61	601.5	-347.8	683.7	641.6	42.10	16.239	
11,000.0	10,891.9	10,933.7	10,886.0	33.8	14.1	74.61	601.5	-347.8	683.7	641.3	42.40	16.124	
11,020.0	10,911.9	10,953.7	10,906.0	33.9	14.1	74.61	601.5	-347.8	683.7	641.2	42.48	16.094	
11,100.0	10,991.9	11,033.7	10,986.0	34.1	14.2	74.61	601.5	-347.8	683.7	640.9	42.80	15.974	
11,115.0	11,006.9	11,048.7	11,001.0	34.2	14.2	74.61	601.5	-347.8	683.7	640.8	42.86	15.951	
11,200.0	11,091.9	11,133.7	11,086.0	34.5	14.3	74.61	601.5	-347.8	683.7	640.5	43.20	15.826	
11,210.0	11,101.9	11,143.7	11,096.0	34.5	14.3	74.61	601.5	-347.8	683.7	640.5	43.24	15.811	
11,300.0	11,191.9	11,233.7	11,186.0	34.8	14.4	74.61	601.5	-347.8	683.7	640.1	43.60	15.680	
11,305.0	11,196.9	11,238.7	11,191.0	34.8	14.4	74.61	601.5	-347.8	683.7	640.1	43.62	15.673	
11,400.0	11,291.9	11,333.7	11,286.0	35.1	14.6	74.61	601.5	-347.8	683.7	639.7	44.00	15.537	
11,495.0	11,386.9	11,428.7	11,381.0	35.5	14.7	74.61	601.5	-347.8	683.7	639.3	44.38	15.404	
11,500.0	11,391.9	11,433.7	11,386.0	35.5	14.7	74.61	601.5	-347.8	683.7	639.3	44.40	15.397	
11,590.0	11,481.9	11,523.7	11,476.0	35.8	14.8	74.61	601.5	-347.8	683.7	638.9	44.77	15.272	
11,600.0	11,491.9	11,533.7	11,486.0	35.8	14.8	74.61	601.5	-347.8	683.7	638.9	44.81	15.259	
11,685.0	11,576.9	11,618.7	11,571.0	36.1	14.9	74.61	601.5	-347.8	683.7	638.5	45.14	15.145	
11,700.0	11,591.9	11,641.6	11,593.9	36.1	14.9	74.64	601.0	-347.8	683.6	638.4	45.23	15.116	
11,730.6	11,622.5	11,689.8	11,641.8	36.2	15.0	75.02	596.4	-347.8	682.9	637.5	45.37	15.050	
11,750.0	11,641.9	11,719.7	11,671.2	36.2	15.0	-104.27	591.2	-347.8	682.1	636.7	45.44	15.012	
11,775.0	11,666.8	11,757.6	11,708.0	36.2	15.0	-103.84	581.9	-347.7	681.0	635.5	45.53	14.958	
11,780.0	11,671.8	11,765.1	11,715.2	36.2	15.0	-103.75	579.7	-347.7	680.8	635.2	45.55	14.947	
11,800.0	11,691.7	11,794.8	11,743.3	36.2	15.1	-103.36	569.9	-347.6	679.8	634.1	45.62	14.900	
11,825.0	11,716.3	11,831.2	11,776.7	36.2	15.1	-102.83	555.6	-347.5	678.4	632.7	45.71	14.841	
11,850.0	11,740.7	11,866.7	11,808.2	36.2	15.2	-102.25	539.3	-347.4	677.0	631.2	45.80	14.781	
11,875.0	11,764.7	11,901.2	11,837.6	36.3	15.2	-101.64	521.2	-347.3	675.5	629.6	45.88	14.722	
11,900.0	11,788.4	11,934.9	11,864.9	36.3	15.3	-101.00	501.5	-347.1	674.0	628.1	45.96	14.666	
11,925.0	11,811.6	11,967.7	11,890.1	36.3	15.3	-100.33	480.6	-347.0	672.5	626.5	46.03	14.612	
11,950.0	11,834.3	11,999.5	11,913.2	36.3	15.4	-99.64	458.6	-346.8	671.1	625.0	46.08	14.562	
11,970.0	11,852.0	12,024.4	11,930.1	36.3	15.4	-99.08	440.4	-346.7	669.9	623.8	46.12	14.525	
11,975.0	11,856.4	12,030.6	11,934.2	36.3	15.4	-98.94	435.8	-346.6	669.6	623.5	46.13	14.516	
12,000.0	11,877.8	12,060.7	11,953.1	36.3	15.4	-98.21	412.3	-346.5	668.3	622.1	46.17	14.475	
12,025.0	11,898.6	12,090.1	11,970.1	36.3	15.5	-97.48	388.4	-346.3	667.0	620.8	46.19	14.438	
12,050.0	11,918.6	12,118.7	11,985.2	36.4	15.5	-96.74	364.1	-346.1	665.8	619.6	46.21	14.406	
12,065.0	11,930.2	12,135.5	11,993.4	36.4	15.5	-96.29	349.4	-346.0	665.1	618.9	46.22	14.389	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,075.0	11,937.8	12,146.5	11,998.5	36.4	15.5	-95.99	339.6	-345.9	664.7	618.4	46.23	14.378	
12,100.0	11,956.1	12,173.7	12,010.1	36.4	15.6	-95.23	315.0	-345.8	663.7	617.4	46.23	14.354	
12,125.0	11,973.6	12,200.2	12,020.0	36.4	15.6	-94.47	290.5	-345.6	662.8	616.6	46.24	14.334	
12,150.0	11,990.0	12,226.1	12,028.4	36.4	15.6	-93.71	266.0	-345.4	662.1	615.8	46.24	14.318	
12,160.0	11,996.3	12,236.3	12,031.3	36.4	15.6	-93.41	256.2	-345.3	661.8	615.6	46.24	14.312	
12,175.0	12,005.5	12,251.4	12,035.3	36.4	15.6	-92.95	241.6	-345.2	661.5	615.2	46.25	14.304	
12,200.0	12,019.9	12,276.2	12,040.7	36.5	15.6	-92.19	217.4	-345.0	661.0	614.8	46.25	14.292	
12,225.0	12,033.2	12,300.5	12,044.9	36.5	15.6	-91.43	193.5	-344.9	660.7	614.4	46.26	14.283	
12,250.0	12,045.4	12,324.3	12,047.8	36.5	15.7	-90.67	169.9	-344.7	660.5	614.2	46.27	14.276	
12,255.0	12,047.7	12,329.0	12,048.2	36.5	15.7	-90.52	165.2	-344.7	660.5	614.2	46.27	14.274	
12,272.4	12,055.3	12,345.2	12,049.3	36.5	15.7	-89.99	149.1	-344.5	660.5	614.2	46.28	14.270	
12,275.0	12,056.4	12,347.6	12,049.4	36.5	15.7	-89.91	146.6	-344.5	660.5	614.2	46.28	14.270	
12,300.0	12,066.2	12,370.5	12,050.0	36.5	15.7	-89.16	123.7	-344.4	660.5	614.2	46.30	14.265	
12,325.0	12,074.9	12,394.0	12,050.0	36.5	15.7	-88.44	100.2	-344.2	660.7	614.4	46.34	14.258	
12,350.0	12,082.2	12,417.9	12,050.0	36.5	15.7	-87.80	76.4	-344.0	661.0	614.6	46.39	14.247	
12,375.0	12,088.4	12,442.1	12,050.0	36.5	15.7	-87.25	52.1	-343.8	661.2	614.8	46.46	14.232	
12,400.0	12,093.2	12,466.7	12,050.0	36.6	15.7	-86.81	27.6	-343.7	661.5	615.0	46.54	14.215	
12,425.0	12,096.8	12,491.4	12,050.0	36.6	15.7	-86.48	2.9	-343.5	661.7	615.1	46.61	14.195	
12,445.0	12,098.7	12,511.3	12,050.0	36.6	15.7	-86.30	-17.0	-343.3	661.8	615.1	46.69	14.176	
12,450.0	12,099.0	12,516.3	12,050.0	36.6	15.7	-86.27	-22.0	-343.3	661.8	615.1	46.71	14.170	
12,475.0	12,100.0	12,541.3	12,050.0	36.6	15.7	-86.18	-47.0	-343.1	661.9	615.1	46.81	14.142	
12,480.6	12,100.0	12,546.9	12,050.0	36.6	15.7	-86.18	-52.6	-343.1	661.9	615.1	46.83	14.135	
12,500.0	12,100.0	12,566.3	12,050.0	36.6	15.7	-86.18	-72.0	-342.9	661.9	615.0	46.91	14.111	
12,540.0	12,100.0	12,606.3	12,050.0	36.6	15.7	-86.18	-112.0	-342.6	661.9	614.8	47.08	14.060	
12,600.0	12,100.0	12,666.3	12,050.0	36.6	15.8	-86.18	-172.0	-342.2	661.9	614.6	47.35	13.978	
12,635.0	12,100.0	12,701.3	12,050.0	36.6	15.8	-86.18	-207.0	-342.0	661.9	614.4	47.52	13.929	
12,700.0	12,100.0	12,766.3	12,050.0	36.7	15.8	-86.18	-272.0	-341.5	661.9	614.0	47.85	13.832	
12,730.0	12,100.0	12,796.3	12,050.0	36.7	15.8	-86.18	-302.0	-341.3	661.9	613.9	48.01	13.786	
12,800.0	12,100.0	12,866.3	12,050.0	36.7	15.9	-86.18	-372.0	-340.8	661.9	613.5	48.40	13.675	
12,825.0	12,100.0	12,891.3	12,050.0	36.7	15.9	-86.18	-397.0	-340.6	661.9	613.3	48.55	13.634	
12,900.0	12,100.0	12,966.3	12,050.0	36.8	15.9	-86.18	-472.0	-340.0	661.9	612.9	48.99	13.509	
12,920.0	12,100.0	12,986.3	12,050.0	36.8	15.9	-86.18	-492.0	-339.9	661.9	612.8	49.12	13.475	
13,000.0	12,100.0	13,066.3	12,050.0	36.9	16.0	-86.18	-572.0	-339.3	661.9	612.3	49.63	13.337	
13,015.0	12,100.0	13,081.3	12,050.0	36.9	16.0	-86.18	-587.0	-339.2	661.9	612.2	49.73	13.310	
13,100.0	12,100.0	13,166.3	12,050.0	37.0	16.1	-86.18	-672.0	-338.6	661.9	611.6	50.30	13.158	
13,110.0	12,100.0	13,176.3	12,050.0	37.0	16.1	-86.18	-682.0	-338.5	661.9	611.5	50.37	13.140	
13,200.0	12,100.0	13,266.3	12,050.0	37.1	16.3	-86.18	-772.0	-337.8	661.9	610.9	51.01	12.975	
13,205.0	12,100.0	13,271.3	12,050.0	37.1	16.3	-86.18	-777.0	-337.8	661.9	610.8	51.05	12.966	
13,300.0	12,100.0	13,366.3	12,050.0	37.2	16.5	-86.18	-872.0	-337.1	661.9	610.1	51.75	12.789	
13,395.0	12,100.0	13,461.3	12,050.0	37.3	16.7	-86.18	-967.0	-336.4	661.9	609.4	52.49	12.609	
13,400.0	12,100.0	13,466.3	12,050.0	37.3	16.8	-86.18	-972.0	-336.4	661.9	609.3	52.53	12.600	
13,490.0	12,100.0	13,556.3	12,050.0	37.5	17.1	-86.18	-1,062.0	-335.7	661.9	608.6	53.25	12.429	
13,500.0	12,100.0	13,566.3	12,050.0	37.5	17.2	-86.18	-1,072.0	-335.7	661.9	608.5	53.33	12.410	
13,585.0	12,100.0	13,651.3	12,050.0	37.6	17.6	-86.18	-1,157.0	-335.0	661.9	607.8	54.04	12.248	
13,600.0	12,100.0	13,666.3	12,050.0	37.6	17.6	-86.18	-1,172.0	-334.9	661.9	607.7	54.16	12.219	
13,680.0	12,100.0	13,746.3	12,050.0	37.8	18.1	-86.18	-1,252.0	-334.4	661.8	607.0	54.85	12.066	
13,700.0	12,100.0	13,766.3	12,050.0	37.8	18.2	-86.18	-1,272.0	-334.2	661.8	606.8	55.02	12.029	
13,775.0	12,100.0	13,841.3	12,050.0	38.0	18.6	-86.18	-1,347.0	-333.7	661.8	606.2	55.68	11.886	
13,800.0	12,100.0	13,866.3	12,050.0	38.0	18.8	-86.18	-1,372.0	-333.5	661.8	605.9	55.91	11.838	
13,870.0	12,100.0	13,936.3	12,050.0	38.2	19.2	-86.18	-1,442.0	-333.0	661.8	605.3	56.54	11.706	
13,900.0	12,100.0	13,966.3	12,050.0	38.3	19.4	-86.18	-1,472.0	-332.8	661.8	605.0	56.81	11.649	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)			
13,965.0	12,100.0	14,031.3	12,050.0	38.4	19.8	-86.18	-1,537.0	-332.3	661.8	604.4	57.42	11.527	
14,000.0	12,100.0	14,066.3	12,050.0	38.5	20.0	-86.18	-1,572.0	-332.0	661.8	604.1	57.74	11.462	
14,060.0	12,100.0	14,126.3	12,050.0	38.7	20.4	-86.18	-1,632.0	-331.6	661.8	603.5	58.31	11.350	
14,100.0	12,100.0	14,166.3	12,050.0	38.8	20.7	-86.18	-1,672.0	-331.3	661.8	603.1	58.69	11.276	
14,155.0	12,100.0	14,221.3	12,050.0	38.9	21.0	-86.18	-1,727.0	-330.9	661.8	602.6	59.22	11.175	
14,200.0	12,100.0	14,266.3	12,050.0	39.1	21.3	-86.18	-1,772.0	-330.6	661.8	602.2	59.66	11.093	
14,250.0	12,100.0	14,316.3	12,050.0	39.2	21.6	-86.18	-1,822.0	-330.2	661.8	601.7	60.15	11.002	
14,300.0	12,100.0	14,366.3	12,050.0	39.4	22.0	-86.18	-1,872.0	-329.8	661.8	601.2	60.65	10.912	
14,345.0	12,100.0	14,411.3	12,050.0	39.5	22.3	-86.18	-1,917.0	-329.5	661.8	600.7	61.10	10.831	
14,400.0	12,100.0	14,466.3	12,050.0	39.7	22.7	-86.18	-1,972.0	-329.1	661.8	600.2	61.66	10.734	
14,440.0	12,100.0	14,506.3	12,050.0	39.8	22.9	-86.18	-2,012.0	-328.8	661.8	599.7	62.07	10.663	
14,500.0	12,100.0	14,566.3	12,050.0	40.0	23.3	-86.18	-2,072.0	-328.4	661.8	599.1	62.68	10.558	
14,535.0	12,100.0	14,601.3	12,050.0	40.1	23.6	-86.18	-2,107.0	-328.1	661.8	598.8	63.05	10.497	
14,600.0	12,100.0	14,666.3	12,050.0	40.3	24.0	-86.18	-2,172.0	-327.7	661.8	598.1	63.72	10.385	
14,630.0	12,100.0	14,696.3	12,050.0	40.4	24.2	-86.18	-2,202.0	-327.4	661.8	597.8	64.04	10.334	
14,700.0	12,100.0	14,766.3	12,050.0	40.7	24.7	-86.18	-2,272.0	-326.9	661.8	597.0	64.78	10.216	
14,725.0	12,100.0	14,791.3	12,050.0	40.8	24.9	-86.18	-2,297.0	-326.8	661.8	596.7	65.05	10.174	
14,800.0	12,100.0	14,866.3	12,050.0	41.0	25.4	-86.18	-2,372.0	-326.2	661.8	595.9	65.85	10.049	
14,820.0	12,100.0	14,886.3	12,050.0	41.1	25.5	-86.18	-2,392.0	-326.1	661.8	595.7	66.07	10.016	
14,900.0	12,100.0	14,966.3	12,050.0	41.4	26.1	-86.18	-2,472.0	-325.5	661.8	594.8	66.94	9.886	
14,915.0	12,100.0	14,981.3	12,050.0	41.5	26.2	-86.18	-2,487.0	-325.4	661.8	594.7	67.11	9.862	
15,000.0	12,100.0	15,066.3	12,050.0	41.8	26.8	-86.18	-2,571.9	-324.8	661.8	593.7	68.04	9.726	
15,010.0	12,100.0	15,076.3	12,050.0	41.8	26.9	-86.18	-2,581.9	-324.7	661.8	593.6	68.15	9.710	
15,100.0	12,100.0	15,166.3	12,050.0	42.2	27.5	-86.18	-2,671.9	-324.0	661.8	592.6	69.16	9.569	
15,105.0	12,100.0	15,171.3	12,050.0	42.2	27.6	-86.18	-2,676.9	-324.0	661.8	592.6	69.21	9.561	
15,200.0	12,100.0	15,266.3	12,050.0	42.6	28.2	-86.18	-2,771.9	-323.3	661.8	591.5	70.29	9.415	
15,295.0	12,100.0	15,361.3	12,050.0	43.0	28.9	-86.18	-2,866.9	-322.6	661.8	590.4	71.37	9.272	
15,300.0	12,100.0	15,366.3	12,050.0	43.0	28.9	-86.18	-2,871.9	-322.6	661.8	590.3	71.43	9.265	
15,390.0	12,100.0	15,456.3	12,050.0	43.4	29.6	-86.18	-2,961.9	-321.9	661.8	589.3	72.46	9.132	
15,400.0	12,100.0	15,466.3	12,050.0	43.4	29.7	-86.18	-2,971.9	-321.8	661.8	589.2	72.58	9.118	
15,485.0	12,100.0	15,551.3	12,050.0	43.8	30.3	-86.18	-3,056.9	-321.2	661.7	588.2	73.57	8.995	
15,500.0	12,100.0	15,566.3	12,050.0	43.9	30.4	-86.18	-3,071.9	-321.1	661.7	588.0	73.74	8.974	
15,580.0	12,100.0	15,646.3	12,050.0	44.2	31.0	-86.18	-3,151.9	-320.5	661.7	587.1	74.68	8.861	
15,600.0	12,100.0	15,666.3	12,050.0	44.3	31.1	-86.18	-3,171.9	-320.4	661.7	586.8	74.92	8.833	
15,675.0	12,100.0	15,741.3	12,050.0	44.6	31.6	-86.18	-3,246.9	-319.8	661.7	585.9	75.81	8.729	
15,700.0	12,100.0	15,766.3	12,050.0	44.7	31.8	-86.18	-3,271.9	-319.7	661.7	585.6	76.10	8.695	
15,770.0	12,100.0	15,836.3	12,050.0	45.1	32.3	-86.18	-3,341.9	-319.2	661.7	584.8	76.94	8.601	
15,800.0	12,100.0	15,866.3	12,050.0	45.2	32.6	-86.18	-3,371.9	-318.9	661.7	584.4	77.30	8.561	
15,865.0	12,100.0	15,931.3	12,050.0	45.5	33.0	-86.18	-3,436.9	-318.5	661.7	583.6	78.08	8.475	
15,900.0	12,100.0	15,966.3	12,050.0	45.7	33.3	-86.18	-3,471.9	-318.2	661.7	583.2	78.50	8.429	
15,960.0	12,100.0	16,026.3	12,050.0	46.0	33.7	-86.18	-3,531.9	-317.8	661.7	582.5	79.23	8.352	
16,000.0	12,100.0	16,066.3	12,050.0	46.2	34.0	-86.18	-3,571.9	-317.5	661.7	582.0	79.72	8.301	
16,055.0	12,100.0	16,121.3	12,050.0	46.4	34.4	-86.18	-3,626.9	-317.1	661.7	581.3	80.39	8.231	
16,100.0	12,100.0	16,166.3	12,050.0	46.6	34.7	-86.18	-3,671.9	-316.8	661.7	580.8	80.94	8.175	
16,150.0	12,100.0	16,216.3	12,050.0	46.9	35.1	-86.18	-3,721.9	-316.4	661.7	580.2	81.56	8.113	
16,200.0	12,100.0	16,266.3	12,050.0	47.1	35.5	-86.18	-3,771.9	-316.0	661.7	579.5	82.18	8.052	
16,245.0	12,100.0	16,311.3	12,050.0	47.4	35.8	-86.18	-3,816.9	-315.7	661.7	579.0	82.74	7.998	
16,300.0	12,100.0	16,366.3	12,050.0	47.6	36.2	-86.18	-3,871.9	-315.3	661.7	578.3	83.42	7.932	
16,340.0	12,100.0	16,406.3	12,050.0	47.8	36.5	-86.18	-3,911.9	-315.0	661.7	577.8	83.92	7.885	
16,400.0	12,100.0	16,466.3	12,050.0	48.1	36.9	-86.18	-3,971.9	-314.6	661.7	577.0	84.67	7.815	
16,435.0	12,100.0	16,501.3	12,050.0	48.3	37.2	-86.18	-4,006.9	-314.3	661.7	576.6	85.11	7.775	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 11620-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
16,500.0	12,100.0	16,566.3	12,050.0	48.7	37.7	-86.18	-4,071.9	-313.8	661.7	575.8	85.93	7.701		
16,530.0	12,100.0	16,596.3	12,050.0	48.8	37.9	-86.18	-4,101.9	-313.6	661.7	575.4	86.30	7.667		
16,600.0	12,100.0	16,666.3	12,050.0	49.2	38.4	-86.18	-4,171.9	-313.1	661.7	574.5	87.19	7.589		
16,625.0	12,100.0	16,691.3	12,050.0	49.3	38.6	-86.18	-4,196.9	-312.9	661.7	574.2	87.51	7.561		
16,700.0	12,100.0	16,766.3	12,050.0	49.7	39.2	-86.18	-4,271.9	-312.4	661.7	573.2	88.46	7.480		
16,720.0	12,100.0	16,786.3	12,050.0	49.8	39.3	-86.18	-4,291.9	-312.2	661.7	573.0	88.72	7.458		
16,800.0	12,100.0	16,866.3	12,050.0	50.2	39.9	-86.18	-4,371.9	-311.7	661.7	571.9	89.74	7.373		
16,815.0	12,100.0	16,881.3	12,050.0	50.3	40.0	-86.18	-4,386.9	-311.6	661.7	571.7	89.94	7.357		
16,900.0	12,100.0	16,966.3	12,050.0	50.8	40.6	-86.18	-4,471.9	-310.9	661.7	570.6	91.03	7.269		
16,910.0	12,100.0	16,976.3	12,050.0	50.8	40.7	-86.18	-4,481.9	-310.9	661.7	570.5	91.16	7.259		
17,000.0	12,100.0	17,066.3	12,050.0	51.3	41.4	-86.18	-4,571.9	-310.2	661.7	569.3	92.32	7.167		
17,005.0	12,100.0	17,071.3	12,050.0	51.4	41.4	-86.18	-4,576.9	-310.2	661.7	569.3	92.39	7.162		
17,100.0	12,100.0	17,166.3	12,050.0	51.9	42.1	-86.18	-4,671.9	-309.5	661.7	568.0	93.62	7.067		
17,195.0	12,100.0	17,261.3	12,050.0	52.4	42.8	-86.18	-4,766.9	-308.8	661.7	566.8	94.86	6.975		
17,200.0	12,100.0	17,266.3	12,050.0	52.4	42.9	-86.18	-4,771.9	-308.8	661.7	566.7	94.93	6.970		
17,290.0	12,100.0	17,356.3	12,050.0	52.9	43.5	-86.18	-4,861.9	-308.1	661.7	565.5	96.11	6.885		
17,300.0	12,100.0	17,366.3	12,050.0	53.0	43.6	-86.18	-4,871.9	-308.0	661.7	565.4	96.24	6.875		
17,385.0	12,100.0	17,451.3	12,050.0	53.5	44.2	-86.18	-4,956.9	-307.4	661.6	564.3	97.36	6.796		
17,400.0	12,100.0	17,466.3	12,050.0	53.6	44.4	-86.18	-4,971.9	-307.3	661.6	564.1	97.55	6.782		
17,480.0	12,100.0	17,546.3	12,050.0	54.0	44.9	-86.18	-5,051.9	-306.7	661.6	563.0	98.61	6.710		
17,500.0	12,100.0	17,566.3	12,050.0	54.1	45.1	-86.18	-5,071.9	-306.6	661.6	562.8	98.88	6.692		
17,575.0	12,100.0	17,641.3	12,050.0	54.6	45.7	-86.18	-5,146.9	-306.0	661.6	561.8	99.87	6.625		
17,600.0	12,100.0	17,666.3	12,050.0	54.7	45.8	-86.18	-5,171.9	-305.8	661.6	561.4	100.20	6.603		
17,670.0	12,100.0	17,736.3	12,050.0	55.1	46.4	-86.18	-5,241.9	-305.3	661.6	560.5	101.14	6.542		
17,700.0	12,100.0	17,766.3	12,050.0	55.3	46.6	-86.18	-5,271.9	-305.1	661.6	560.1	101.54	6.516		
17,765.0	12,100.0	17,831.3	12,050.0	55.7	47.1	-86.18	-5,336.9	-304.6	661.6	559.2	102.41	6.461		
17,800.0	12,100.0	17,866.3	12,050.0	55.9	47.3	-86.18	-5,371.9	-304.4	661.6	558.7	102.87	6.431		
17,860.0	12,100.0	17,926.3	12,050.0	56.2	47.8	-86.18	-5,431.9	-304.0	661.6	557.9	103.68	6.381		
17,900.0	12,100.0	17,966.3	12,050.0	56.5	48.1	-86.18	-5,471.9	-303.7	661.6	557.4	104.22	6.348		
17,955.0	12,100.0	18,021.3	12,050.0	56.8	48.5	-86.18	-5,526.9	-303.3	661.6	556.7	104.96	6.304		
18,000.0	12,100.0	18,066.3	12,050.0	57.1	48.8	-86.18	-5,571.9	-302.9	661.6	556.0	105.56	6.267		
18,050.0	12,100.0	18,116.3	12,050.0	57.4	49.2	-86.18	-5,621.9	-302.6	661.6	555.4	106.24	6.227		
18,100.0	12,100.0	18,166.3	12,050.0	57.7	49.6	-86.18	-5,671.9	-302.2	661.6	554.7	106.92	6.188		
18,145.0	12,100.0	18,211.3	12,050.0	57.9	49.9	-86.18	-5,716.9	-301.9	661.6	554.1	107.53	6.153		
18,200.0	12,100.0	18,266.3	12,050.0	58.3	50.3	-86.18	-5,771.9	-301.5	661.6	553.3	108.27	6.111		
18,240.0	12,100.0	18,306.3	12,050.0	58.5	50.6	-86.18	-5,811.9	-301.2	661.6	552.8	108.82	6.080		
18,300.0	12,100.0	18,366.3	12,050.0	58.9	51.1	-86.18	-5,871.9	-300.8	661.6	552.0	109.63	6.035		
18,335.0	12,100.0	18,401.3	12,050.0	59.1	51.3	-86.18	-5,906.9	-300.5	661.6	551.5	110.11	6.009		
18,400.0	12,100.0	18,466.3	12,050.0	59.5	51.8	-86.18	-5,971.9	-300.0	661.6	550.6	111.00	5.960		
18,430.0	12,100.0	18,496.3	12,050.0	59.7	52.1	-86.18	-6,001.9	-299.8	661.6	550.2	111.41	5.938		
18,500.0	12,100.0	18,566.3	12,050.0	60.1	52.6	-86.18	-6,071.9	-299.3	661.6	549.2	112.37	5.888		
18,525.0	12,100.0	18,591.3	12,050.0	60.3	52.8	-86.18	-6,096.9	-299.1	661.6	548.9	112.71	5.870		
18,600.0	12,100.0	18,666.3	12,050.0	60.7	53.3	-86.18	-6,171.9	-298.6	661.6	547.8	113.74	5.817		
18,620.0	12,100.0	18,686.3	12,050.0	60.8	53.5	-86.18	-6,191.9	-298.4	661.6	547.6	114.01	5.803		
18,700.0	12,100.0	18,766.3	12,050.0	61.3	54.1	-86.18	-6,271.8	-297.8	661.6	546.5	115.11	5.747		
18,715.0	12,100.0	18,781.3	12,050.0	61.4	54.2	-86.18	-6,286.8	-297.7	661.6	546.3	115.32	5.737		
18,800.0	12,100.0	18,866.3	12,050.0	62.0	54.8	-86.18	-6,371.8	-297.1	661.6	545.1	116.49	5.679		
18,810.0	12,100.0	18,876.3	12,050.0	62.0	54.9	-86.18	-6,381.8	-297.0	661.6	544.9	116.63	5.672		
18,900.0	12,100.0	18,966.3	12,050.0	62.6	55.6	-86.18	-6,471.8	-296.4	661.6	543.7	117.87	5.612		
18,905.0	12,100.0	18,971.3	12,050.0	62.6	55.6	-86.18	-6,476.8	-296.4	661.6	543.6	117.94	5.609		
19,000.0	12,100.0	19,066.3	12,050.0	63.2	56.3	-86.18	-6,571.8	-295.7	661.6	542.3	119.26	5.547		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 11620-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,095.0	12,100.0	19,161.3	12,050.0	63.8	57.1	-86.18	-6,666.8	-295.0	661.6	541.0	120.58	5.486		
19,100.0	12,100.0	19,166.3	12,050.0	63.8	57.1	-86.18	-6,671.8	-294.9	661.6	540.9	120.65	5.483		
19,190.0	12,100.0	19,256.3	12,050.0	64.4	57.8	-86.18	-6,761.8	-294.3	661.5	539.6	121.90	5.427		
19,200.0	12,100.0	19,266.3	12,050.0	64.5	57.9	-86.18	-6,771.8	-294.2	661.5	539.5	122.04	5.421		
19,285.0	12,100.0	19,351.3	12,050.0	65.0	58.5	-86.18	-6,856.8	-293.6	661.5	538.3	123.23	5.368		
19,300.0	12,100.0	19,366.3	12,050.0	65.1	58.6	-86.18	-6,871.8	-293.5	661.5	538.1	123.44	5.359		
19,380.0	12,100.0	19,446.3	12,050.0	65.6	59.2	-86.18	-6,951.8	-292.9	661.5	537.0	124.56	5.311		
19,400.0	12,100.0	19,466.3	12,050.0	65.8	59.4	-86.18	-6,971.8	-292.8	661.5	536.7	124.84	5.299		
19,475.0	12,100.0	19,541.3	12,050.0	66.2	59.9	-86.18	-7,046.8	-292.2	661.5	535.6	125.89	5.255		
19,500.0	12,100.0	19,566.3	12,050.0	66.4	60.1	-86.18	-7,071.8	-292.0	661.5	535.3	126.24	5.240		
19,570.0	12,100.0	19,636.3	12,050.0	66.9	60.6	-86.18	-7,141.8	-291.5	661.5	534.3	127.22	5.200		
19,600.0	12,100.0	19,666.3	12,050.0	67.0	60.9	-86.18	-7,171.8	-291.3	661.5	533.9	127.64	5.183		
19,665.0	12,100.0	19,731.3	12,050.0	67.5	61.4	-86.18	-7,236.8	-290.8	661.5	533.0	128.56	5.146		
19,700.0	12,100.0	19,766.3	12,050.0	67.7	61.6	-86.18	-7,271.8	-290.6	661.5	532.5	129.05	5.126		
19,760.0	12,100.0	19,826.3	12,050.0	68.1	62.1	-86.18	-7,331.8	-290.1	661.5	531.6	129.89	5.093		
19,800.0	12,100.0	19,866.3	12,050.0	68.3	62.4	-86.18	-7,371.8	-289.8	661.5	531.1	130.46	5.071		
19,855.0	12,100.0	19,921.3	12,050.0	68.7	62.8	-86.18	-7,426.8	-289.4	661.5	530.3	131.23	5.041		
19,900.0	12,100.0	19,966.3	12,050.0	69.0	63.1	-86.18	-7,471.8	-289.1	661.5	529.6	131.87	5.016		
19,950.0	12,100.0	20,016.3	12,050.0	69.3	63.5	-86.18	-7,521.8	-288.8	661.5	528.9	132.58	4.990		
20,000.0	12,100.0	20,066.3	12,050.0	69.7	63.9	-86.18	-7,571.8	-288.4	661.5	528.2	133.28	4.963		
20,045.0	12,100.0	20,111.3	12,050.0	70.0	64.2	-86.18	-7,616.8	-288.1	661.5	527.6	133.92	4.939		
20,100.0	12,100.0	20,166.3	12,050.0	70.3	64.6	-86.18	-7,671.8	-287.7	661.5	526.8	134.70	4.911		
20,140.0	12,100.0	20,206.3	12,050.0	70.6	65.0	-86.18	-7,711.8	-287.4	661.5	526.2	135.27	4.890		
20,200.0	12,100.0	20,266.3	12,050.0	71.0	65.4	-86.18	-7,771.8	-286.9	661.5	525.4	136.12	4.860		
20,235.0	12,100.0	20,301.3	12,050.0	71.2	65.7	-86.18	-7,806.8	-286.7	661.5	524.9	136.62	4.842		
20,300.0	12,100.0	20,366.3	12,050.0	71.6	66.2	-86.18	-7,871.8	-286.2	661.5	523.9	137.54	4.809		
20,330.0	12,100.0	20,396.3	12,050.0	71.8	66.4	-86.18	-7,901.8	-286.0	661.5	523.5	137.97	4.794		
20,400.0	12,100.0	20,466.3	12,050.0	72.3	66.9	-86.18	-7,971.8	-285.5	661.5	522.5	138.97	4.760		
20,425.0	12,100.0	20,491.3	12,050.0	72.5	67.1	-86.18	-7,996.8	-285.3	661.5	522.2	139.32	4.748		
20,500.0	12,100.0	20,566.3	12,050.0	73.0	67.7	-86.18	-8,071.8	-284.8	661.5	521.1	140.39	4.712		
20,520.0	12,100.0	20,586.3	12,050.0	73.1	67.8	-86.18	-8,091.8	-284.6	661.5	520.8	140.68	4.702		
20,600.0	12,100.0	20,666.3	12,050.0	73.6	68.4	-86.18	-8,171.8	-284.0	661.5	519.7	141.82	4.664		
20,615.0	12,100.0	20,681.3	12,050.0	73.7	68.5	-86.18	-8,186.8	-283.9	661.5	519.4	142.03	4.657		
20,700.0	12,100.0	20,766.3	12,050.0	74.3	69.2	-86.18	-8,271.8	-283.3	661.5	518.2	143.25	4.618		
20,710.0	12,100.0	20,776.3	12,050.0	74.4	69.3	-86.18	-8,281.8	-283.2	661.5	518.1	143.39	4.613		
20,800.0	12,100.0	20,866.3	12,050.0	75.0	69.9	-86.18	-8,371.8	-282.6	661.5	516.8	144.68	4.572		
20,805.0	12,100.0	20,871.3	12,050.0	75.0	70.0	-86.18	-8,376.8	-282.5	661.5	516.7	144.75	4.570		
20,900.0	12,100.0	20,966.3	12,050.0	75.7	70.7	-86.18	-8,471.8	-281.8	661.5	515.3	146.11	4.527		
20,995.0	12,100.0	21,061.3	12,050.0	76.3	71.4	-86.18	-8,566.8	-281.2	661.5	514.0	147.48	4.485		
21,000.0	12,100.0	21,066.3	12,050.0	76.3	71.5	-86.18	-8,571.8	-281.1	661.5	513.9	147.55	4.483		
21,090.0	12,100.0	21,156.3	12,050.0	76.9	72.1	-86.18	-8,661.8	-280.5	661.4	512.6	148.84	4.444		
21,100.0	12,100.0	21,166.3	12,050.0	77.0	72.2	-86.18	-8,671.8	-280.4	661.4	512.5	148.99	4.440		
21,185.0	12,100.0	21,251.3	12,050.0	77.6	72.9	-86.18	-8,756.8	-279.8	661.4	511.2	150.21	4.403		
21,200.0	12,100.0	21,266.3	12,050.0	77.7	73.0	-86.18	-8,771.8	-279.7	661.4	511.0	150.43	4.397		
21,280.0	12,100.0	21,346.3	12,050.0	78.2	73.6	-86.18	-8,851.8	-279.1	661.4	509.9	151.58	4.364		
21,300.0	12,100.0	21,366.3	12,050.0	78.4	73.7	-86.18	-8,871.8	-278.9	661.4	509.6	151.87	4.355		
21,375.0	12,100.0	21,441.3	12,050.0	78.9	74.3	-86.18	-8,946.8	-278.4	661.4	508.5	152.95	4.325		
21,400.0	12,100.0	21,466.3	12,050.0	79.0	74.5	-86.18	-8,971.8	-278.2	661.4	508.1	153.31	4.314		
21,470.0	12,100.0	21,536.3	12,050.0	79.5	75.0	-86.18	-9,041.8	-277.7	661.4	507.1	154.32	4.286		
21,500.0	12,100.0	21,566.3	12,050.0	79.7	75.3	-86.18	-9,071.8	-277.5	661.4	506.7	154.75	4.274		
21,565.0	12,100.0	21,631.3	12,050.0	80.2	75.7	-86.18	-9,136.8	-277.0	661.4	505.7	155.69	4.248		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #703H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11620-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
21,600.0	12,100.0	21,666.3	12,050.0	80.4	76.0	-86.18	-9,171.8	-276.8	661.4	505.2	156.20	4.234
21,660.0	12,100.0	21,726.3	12,050.0	80.8	76.5	-86.18	-9,231.8	-276.3	661.4	504.3	157.07	4.211
21,700.0	12,100.0	21,766.3	12,050.0	81.1	76.8	-86.18	-9,271.8	-276.0	661.4	503.8	157.65	4.196
21,755.0	12,100.0	21,821.3	12,050.0	81.5	77.2	-86.18	-9,326.8	-275.6	661.4	503.0	158.44	4.174
21,800.0	12,100.0	21,866.3	12,050.0	81.8	77.5	-86.18	-9,371.8	-275.3	661.4	502.3	159.10	4.157
21,850.0	12,100.0	21,916.3	12,050.0	82.1	77.9	-86.18	-9,421.8	-274.9	661.4	501.6	159.82	4.138
21,900.0	12,100.0	21,966.3	12,050.0	82.5	78.3	-86.18	-9,471.8	-274.6	661.4	500.9	160.55	4.120
21,945.0	12,100.0	22,011.3	12,050.0	82.8	78.6	-86.18	-9,516.8	-274.2	661.4	500.2	161.20	4.103
22,000.0	12,100.0	22,066.3	12,050.0	83.2	79.1	-86.18	-9,571.8	-273.8	661.4	499.4	162.00	4.083
22,040.0	12,100.0	22,106.3	12,050.0	83.4	79.4	-86.18	-9,611.8	-273.6	661.4	498.8	162.58	4.068
22,100.0	12,100.0	22,166.3	12,050.0	83.9	79.8	-86.18	-9,671.8	-273.1	661.4	497.9	163.45	4.046
22,135.0	12,100.0	22,201.3	12,050.0	84.1	80.1	-86.18	-9,706.8	-272.9	661.4	497.4	163.96	4.034
22,200.0	12,100.0	22,266.3	12,050.0	84.5	80.6	-86.18	-9,771.8	-272.4	661.4	496.5	164.91	4.011
22,211.7	12,100.0	22,278.0	12,050.0	84.6	80.7	-86.18	-9,783.5	-272.3	661.4	496.3	165.08	4.007
22,230.0	12,100.0	22,296.3	12,050.0	84.8	80.8	-86.18	-9,801.8	-272.2	661.4	496.0	165.34	4.000
22,257.5	12,100.0	22,323.8	12,050.0	84.9	81.0	-86.18	-9,829.3	-272.0	661.4	495.7	165.70	3.991
22,261.7	12,100.0	22,324.3	12,050.0	85.0	81.0	-86.18	-9,829.7	-272.0	661.4	495.7	165.71	3.991 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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
9,880.0	9,771.9	10,100.0	9,942.8	30.1	15.6	-90.43	412.8	-1,977.3	988.0	948.1	39.97	24.717
9,900.0	9,791.9	10,113.5	9,956.0	30.2	15.6	-90.38	413.6	-1,974.9	984.4	944.3	40.10	24.550
9,975.0	9,866.9	10,176.9	10,018.3	30.4	15.7	-90.17	417.2	-1,963.7	971.1	930.6	40.50	23.978
10,000.0	9,891.9	10,200.0	10,041.1	30.5	15.8	-90.09	418.5	-1,959.8	966.8	926.2	40.63	23.799
10,070.0	9,961.9	10,257.5	10,097.7	30.8	15.9	-89.91	421.5	-1,950.4	955.4	914.4	41.01	23.297
10,100.0	9,991.9	10,283.1	10,122.9	30.8	16.0	-89.83	422.8	-1,946.4	950.8	909.6	41.17	23.092
10,165.0	10,056.9	10,338.5	10,177.7	31.1	16.1	-89.66	425.5	-1,938.2	941.1	899.5	41.52	22.663
10,200.0	10,091.9	10,368.5	10,207.3	31.2	16.1	-89.58	426.8	-1,933.9	936.1	894.4	41.71	22.442
10,260.0	10,151.9	10,419.9	10,258.3	31.4	16.2	-89.43	429.1	-1,926.9	928.0	885.9	42.04	22.076
10,300.0	10,191.9	10,454.3	10,292.3	31.5	16.3	-89.34	430.5	-1,922.5	922.8	880.6	42.25	21.842
10,355.0	10,246.9	10,500.0	10,337.6	31.7	16.4	-89.22	432.3	-1,916.9	916.2	873.6	42.56	21.528
10,400.0	10,291.9	10,540.4	10,377.8	31.8	16.4	-89.13	433.8	-1,912.3	911.0	868.2	42.79	21.291
10,450.0	10,341.9	10,583.6	10,420.7	32.0	16.5	-89.02	435.3	-1,907.6	905.7	862.6	43.06	21.033
10,500.0	10,391.9	10,626.9	10,463.7	32.2	16.5	-88.93	436.7	-1,903.3	900.7	857.3	43.33	20.787
10,545.0	10,436.9	10,665.9	10,502.5	32.3	16.6	-88.85	437.9	-1,899.6	896.5	852.9	43.57	20.575
10,600.0	10,491.9	10,713.6	10,550.1	32.5	16.7	-88.76	439.3	-1,895.5	891.7	847.8	43.87	20.328
10,640.0	10,531.9	10,748.4	10,584.7	32.6	16.7	-88.70	440.2	-1,892.7	888.5	844.5	44.08	20.157
10,700.0	10,591.9	10,800.0	10,636.2	32.8	16.8	-88.61	441.4	-1,888.9	884.2	839.8	44.41	19.912
10,735.0	10,626.9	10,831.1	10,667.1	32.9	16.8	-88.57	442.0	-1,886.9	881.9	837.3	44.59	19.779
10,800.0	10,691.9	10,887.7	10,723.7	33.1	16.9	-88.49	443.1	-1,883.6	878.1	833.2	44.94	19.542
10,830.0	10,721.9	10,913.9	10,749.8	33.2	16.9	-88.46	443.6	-1,882.2	876.6	831.5	45.09	19.439
10,900.0	10,791.9	10,975.0	10,810.9	33.5	16.9	-88.40	444.4	-1,879.5	873.5	828.0	45.46	19.213
10,925.0	10,816.9	11,000.0	10,835.9	33.6	16.9	-88.37	444.7	-1,878.6	872.6	827.0	45.58	19.145
11,000.0	10,891.9	11,062.4	10,898.3	33.8	17.0	-88.33	445.3	-1,876.7	870.3	824.3	45.99	18.923
11,020.0	10,911.9	11,079.9	10,915.7	33.9	17.0	-88.32	445.5	-1,876.3	869.8	823.7	46.10	18.870
11,100.0	10,991.9	11,149.9	10,985.7	34.1	17.0	-88.29	445.8	-1,875.1	868.5	822.0	46.52	18.672
11,115.0	11,006.9	11,163.0	10,998.8	34.2	17.0	-88.29	445.9	-1,875.0	868.4	821.8	46.60	18.637
11,200.0	11,091.9	11,240.9	11,076.7	34.5	17.0	-88.29	446.0	-1,874.8	868.2	821.2	47.00	18.473
11,210.0	11,101.9	11,250.9	11,086.7	34.5	17.0	-88.29	446.0	-1,874.8	868.2	821.1	47.03	18.458
11,300.0	11,191.9	11,340.9	11,176.7	34.8	17.1	-88.29	446.0	-1,874.8	868.2	820.8	47.37	18.326
11,305.0	11,196.9	11,345.9	11,181.7	34.8	17.1	-88.29	446.0	-1,874.8	868.2	820.8	47.39	18.319
11,400.0	11,291.9	11,440.9	11,276.7	35.1	17.2	-88.29	446.0	-1,874.8	868.2	820.4	47.75	18.181
11,495.0	11,386.9	11,535.9	11,371.7	35.5	17.2	-88.29	446.0	-1,874.8	868.2	820.1	48.11	18.045
11,500.0	11,391.9	11,540.9	11,376.7	35.5	17.2	-88.29	446.0	-1,874.8	868.2	820.0	48.13	18.038
11,590.0	11,481.9	11,630.9	11,466.7	35.8	17.3	-88.29	446.0	-1,874.8	868.2	819.7	48.47	17.911
11,600.0	11,491.9	11,640.9	11,476.7	35.8	17.3	-88.29	446.0	-1,874.8	868.2	819.7	48.51	17.897
11,685.0	11,576.9	11,725.9	11,561.7	36.1	17.3	-88.29	446.0	-1,874.8	868.2	819.3	48.83	17.780
11,700.0	11,591.9	11,741.2	11,577.0	36.1	17.4	-88.29	445.9	-1,874.8	868.2	819.3	48.88	17.761
11,730.6	11,622.5	11,773.9	11,609.7	36.2	17.4	-88.38	444.5	-1,874.8	868.1	819.2	48.93	17.742
11,750.0	11,641.9	11,794.5	11,630.1	36.2	17.4	91.94	442.5	-1,874.8	868.1	819.1	48.93	17.742
11,775.0	11,666.8	11,820.9	11,656.3	36.2	17.4	91.80	438.6	-1,874.7	868.0	819.1	48.93	17.741
11,780.0	11,671.8	11,826.2	11,661.4	36.2	17.4	91.77	437.6	-1,874.7	868.0	819.1	48.93	17.741
11,800.0	11,691.7	11,847.2	11,682.0	36.2	17.4	91.66	433.2	-1,874.7	868.0	819.0	48.93	17.740
11,825.0	11,716.3	11,873.4	11,707.3	36.2	17.4	91.52	426.5	-1,874.7	867.9	819.0	48.93	17.739
11,850.0	11,740.7	11,899.4	11,732.1	36.2	17.4	91.37	418.5	-1,874.6	867.9	818.9	48.93	17.737
11,875.0	11,764.7	11,925.3	11,756.3	36.3	17.4	91.22	409.2	-1,874.6	867.8	818.9	48.93	17.736
11,900.0	11,788.4	11,951.1	11,779.8	36.3	17.4	91.06	398.6	-1,874.5	867.8	818.8	48.93	17.733
11,925.0	11,811.6	11,976.7	11,802.6	36.3	17.4	90.90	386.9	-1,874.4	867.7	818.8	48.94	17.731
11,950.0	11,834.3	12,002.2	11,824.6	36.3	17.4	90.75	374.0	-1,874.3	867.7	818.8	48.95	17.727
11,970.0	11,852.0	12,022.6	11,841.6	36.3	17.4	90.62	362.9	-1,874.3	867.7	818.8	48.96	17.724
11,975.0	11,856.4	12,027.6	11,845.8	36.3	17.4	90.58	360.0	-1,874.3	867.7	818.8	48.96	17.723

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
12,000.0	11,877.8	12,052.9	11,866.1	36.3	17.5	90.42	345.0	-1,874.2	867.7	818.7	48.97	17.719
12,000.8	11,878.5	12,053.7	11,866.7	36.3	17.5	90.42	344.6	-1,874.2	867.7	818.7	48.97	17.719 CC
12,025.0	11,898.6	12,078.0	11,885.4	36.3	17.5	90.26	329.1	-1,874.1	867.7	818.7	48.99	17.714
12,050.0	11,918.6	12,102.9	11,903.9	36.4	17.5	90.10	312.2	-1,874.0	867.7	818.7	49.00	17.707
12,065.0	11,930.2	12,117.9	11,914.5	36.4	17.5	90.00	301.7	-1,873.9	867.7	818.7	49.02	17.703
12,075.0	11,937.8	12,127.8	11,921.3	36.4	17.5	89.93	294.5	-1,873.9	867.7	818.7	49.02	17.700
12,100.0	11,956.1	12,152.5	11,937.7	36.4	17.5	89.77	276.0	-1,873.7	867.8	818.7	49.05	17.692
12,125.0	11,973.6	12,177.1	11,953.1	36.4	17.6	89.61	256.8	-1,873.6	867.8	818.7	49.08	17.683
12,150.0	11,990.0	12,201.6	11,967.4	36.4	17.6	89.45	236.9	-1,873.5	867.9	818.7	49.11	17.672
12,160.0	11,996.3	12,211.4	11,972.8	36.4	17.6	89.39	228.8	-1,873.4	867.9	818.8	49.12	17.668
12,175.0	12,005.5	12,226.0	11,980.5	36.4	17.6	89.29	216.5	-1,873.4	867.9	818.8	49.14	17.661
12,200.0	12,019.9	12,250.0	11,992.5	36.5	17.6	89.14	195.6	-1,873.2	868.0	818.8	49.18	17.648
12,225.0	12,033.2	12,274.4	12,003.5	36.5	17.6	88.98	173.9	-1,873.1	868.0	818.8	49.23	17.634
12,250.0	12,045.4	12,298.4	12,013.3	36.5	17.6	88.83	151.9	-1,873.0	868.1	818.8	49.27	17.618
12,255.0	12,047.7	12,303.2	12,015.1	36.5	17.6	88.80	147.5	-1,872.9	868.1	818.8	49.28	17.615
12,275.0	12,056.4	12,322.3	12,022.0	36.5	17.7	88.68	129.6	-1,872.8	868.2	818.8	49.32	17.602
12,300.0	12,066.2	12,346.2	12,029.4	36.5	17.7	88.54	107.0	-1,872.7	868.2	818.9	49.38	17.584
12,325.0	12,074.9	12,369.9	12,035.8	36.5	17.7	88.40	84.1	-1,872.6	868.3	818.9	49.44	17.564
12,350.0	12,082.2	12,393.6	12,040.9	36.5	17.7	88.27	61.0	-1,872.4	868.4	818.9	49.50	17.544
12,375.0	12,088.4	12,417.1	12,044.9	36.5	17.7	88.14	37.8	-1,872.3	868.5	818.9	49.57	17.522
12,400.0	12,093.2	12,440.6	12,047.7	36.6	17.7	88.01	14.5	-1,872.1	868.6	819.0	49.63	17.500
12,425.0	12,096.8	12,464.0	12,049.4	36.6	17.7	87.89	-8.8	-1,872.0	868.7	819.0	49.71	17.476
12,445.0	12,098.7	12,482.7	12,049.9	36.6	17.7	87.80	-27.5	-1,871.9	868.8	819.0	49.77	17.457
12,450.0	12,099.0	12,487.4	12,050.0	36.6	17.7	87.78	-32.2	-1,871.8	868.8	819.0	49.78	17.452
12,475.0	12,100.0	12,512.4	12,050.0	36.6	17.7	87.71	-57.2	-1,871.7	868.9	819.0	49.86	17.425
12,480.6	12,100.0	12,518.0	12,050.0	36.6	17.7	87.70	-62.8	-1,871.6	868.9	819.0	49.88	17.418
12,500.0	12,100.0	12,537.4	12,050.0	36.6	17.7	87.70	-82.2	-1,871.5	868.9	818.9	49.95	17.396
12,540.0	12,100.0	12,577.4	12,050.0	36.6	17.7	87.70	-122.2	-1,871.3	868.9	818.8	50.09	17.348
12,600.0	12,100.0	12,637.4	12,050.0	36.6	17.8	87.70	-182.2	-1,870.9	869.0	818.7	50.32	17.270
12,635.0	12,100.0	12,672.4	12,050.0	36.6	17.8	87.70	-217.2	-1,870.7	869.0	818.6	50.46	17.221
12,700.0	12,100.0	12,737.4	12,050.0	36.7	17.8	87.70	-282.2	-1,870.3	869.1	818.4	50.75	17.125
12,730.0	12,100.0	12,767.4	12,050.0	36.7	17.8	87.70	-312.2	-1,870.1	869.1	818.3	50.89	17.077
12,800.0	12,100.0	12,837.4	12,050.0	36.7	17.8	87.70	-382.2	-1,869.7	869.2	818.0	51.24	16.963
12,825.0	12,100.0	12,862.4	12,050.0	36.7	17.8	87.70	-407.2	-1,869.5	869.3	817.9	51.37	16.920
12,900.0	12,100.0	12,937.4	12,050.0	36.8	17.8	87.70	-482.2	-1,869.1	869.3	817.6	51.78	16.788
12,920.0	12,100.0	12,957.4	12,050.0	36.8	17.8	87.70	-502.2	-1,868.9	869.4	817.5	51.90	16.750
13,000.0	12,100.0	13,037.4	12,050.0	36.9	17.9	87.70	-582.2	-1,868.4	869.5	817.1	52.38	16.600
13,015.0	12,100.0	13,052.4	12,050.0	36.9	17.9	87.70	-597.2	-1,868.3	869.5	817.0	52.47	16.570
13,100.0	12,100.0	13,137.4	12,050.0	37.0	17.9	87.70	-682.2	-1,867.8	869.6	816.6	53.02	16.402
13,110.0	12,100.0	13,147.4	12,050.0	37.0	17.9	87.70	-692.2	-1,867.8	869.6	816.5	53.08	16.381
13,200.0	12,100.0	13,237.4	12,050.0	37.1	18.0	87.70	-782.2	-1,867.2	869.7	816.0	53.70	16.195
13,205.0	12,100.0	13,242.4	12,050.0	37.1	18.0	87.70	-787.2	-1,867.2	869.7	816.0	53.74	16.184
13,300.0	12,100.0	13,337.4	12,050.0	37.2	18.1	87.70	-882.2	-1,866.6	869.8	815.4	54.43	15.981
13,395.0	12,100.0	13,432.4	12,050.0	37.3	18.5	87.71	-977.2	-1,866.0	869.9	814.8	55.15	15.773
13,400.0	12,100.0	13,437.4	12,050.0	37.3	18.6	87.71	-982.2	-1,866.0	869.9	814.7	55.19	15.762
13,490.0	12,100.0	13,527.4	12,050.0	37.5	19.1	87.71	-1,072.2	-1,865.4	870.0	814.1	55.91	15.561
13,500.0	12,100.0	13,537.4	12,050.0	37.5	19.1	87.71	-1,082.2	-1,865.4	870.0	814.0	55.99	15.539
13,585.0	12,100.0	13,622.4	12,050.0	37.6	19.7	87.71	-1,167.2	-1,864.8	870.1	813.4	56.70	15.346
13,600.0	12,100.0	13,637.4	12,050.0	37.6	19.8	87.71	-1,182.2	-1,864.7	870.1	813.3	56.83	15.312
13,680.0	12,100.0	13,717.4	12,050.0	37.8	20.3	87.71	-1,262.2	-1,864.2	870.2	812.7	57.52	15.130
13,700.0	12,100.0	13,737.4	12,050.0	37.8	20.4	87.71	-1,282.2	-1,864.1	870.3	812.6	57.69	15.084

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)				
13,775.0	12,100.0	13,812.4	12,050.0	38.0	20.9	87.71	-1,357.2	-1,863.7	870.4	812.0	58.36	14.913
13,800.0	12,100.0	13,837.4	12,050.0	38.0	21.0	87.71	-1,382.2	-1,863.5	870.4	811.8	58.59	14.855
13,870.0	12,100.0	13,907.4	12,050.0	38.2	21.5	87.71	-1,452.1	-1,863.1	870.5	811.2	59.24	14.695
13,900.0	12,100.0	13,937.4	12,050.0	38.3	21.7	87.71	-1,482.1	-1,862.9	870.5	811.0	59.52	14.626
13,965.0	12,100.0	14,002.4	12,050.0	38.4	22.1	87.71	-1,547.1	-1,862.5	870.6	810.4	60.13	14.477
14,000.0	12,100.0	14,037.4	12,050.0	38.5	22.4	87.71	-1,582.1	-1,862.3	870.6	810.1	60.47	14.398
14,060.0	12,100.0	14,097.4	12,050.0	38.7	22.8	87.71	-1,642.1	-1,861.9	870.7	809.6	61.05	14.261
14,100.0	12,100.0	14,137.4	12,050.0	38.8	23.1	87.71	-1,682.1	-1,861.6	870.7	809.3	61.45	14.170
14,155.0	12,100.0	14,192.4	12,050.0	38.9	23.5	87.71	-1,737.1	-1,861.3	870.8	808.8	62.00	14.046
14,200.0	12,100.0	14,237.4	12,050.0	39.1	23.8	87.71	-1,782.1	-1,861.0	870.8	808.4	62.45	13.944
14,250.0	12,100.0	14,287.4	12,050.0	39.2	24.1	87.71	-1,832.1	-1,860.7	870.9	807.9	62.96	13.832
14,300.0	12,100.0	14,337.4	12,050.0	39.4	24.5	87.71	-1,882.1	-1,860.4	871.0	807.5	63.48	13.721
14,345.0	12,100.0	14,382.4	12,050.0	39.5	24.8	87.71	-1,927.1	-1,860.1	871.0	807.1	63.95	13.621
14,400.0	12,100.0	14,437.4	12,050.0	39.7	25.2	87.71	-1,982.1	-1,859.8	871.1	806.5	64.52	13.500
14,440.0	12,100.0	14,477.4	12,050.0	39.8	25.5	87.71	-2,022.1	-1,859.6	871.1	806.2	64.95	13.412
14,500.0	12,100.0	14,537.4	12,050.0	40.0	25.9	87.71	-2,082.1	-1,859.2	871.2	805.6	65.59	13.282
14,535.0	12,100.0	14,572.4	12,050.0	40.1	26.2	87.71	-2,117.1	-1,859.0	871.2	805.3	65.97	13.206
14,600.0	12,100.0	14,637.4	12,050.0	40.3	26.7	87.71	-2,182.1	-1,858.6	871.3	804.6	66.68	13.067
14,630.0	12,100.0	14,667.4	12,050.0	40.4	26.9	87.71	-2,212.1	-1,858.4	871.3	804.3	67.01	13.003
14,700.0	12,100.0	14,737.4	12,050.0	40.7	27.4	87.71	-2,282.1	-1,857.9	871.4	803.6	67.78	12.856
14,725.0	12,100.0	14,762.4	12,050.0	40.8	27.6	87.71	-2,307.1	-1,857.8	871.4	803.4	68.07	12.803
14,800.0	12,100.0	14,837.4	12,050.0	41.0	28.2	87.71	-2,382.1	-1,857.3	871.5	802.6	68.91	12.648
14,820.0	12,100.0	14,857.4	12,050.0	41.1	28.3	87.71	-2,402.1	-1,857.2	871.6	802.4	69.14	12.606
14,900.0	12,100.0	14,937.4	12,050.0	41.4	28.9	87.71	-2,482.1	-1,856.7	871.6	801.6	70.05	12.443
14,915.0	12,100.0	14,952.4	12,050.0	41.5	29.0	87.71	-2,497.1	-1,856.6	871.7	801.4	70.22	12.413
15,000.0	12,100.0	15,037.4	12,050.0	41.8	29.7	87.71	-2,582.1	-1,856.1	871.8	800.6	71.21	12.243
15,010.0	12,100.0	15,047.4	12,050.0	41.8	29.8	87.71	-2,592.1	-1,856.0	871.8	800.5	71.32	12.223
15,100.0	12,100.0	15,137.4	12,050.0	42.2	30.5	87.71	-2,682.1	-1,855.5	871.9	799.5	72.38	12.046
15,105.0	12,100.0	15,142.4	12,050.0	42.2	30.5	87.71	-2,687.1	-1,855.4	871.9	799.4	72.44	12.036
15,200.0	12,100.0	15,237.4	12,050.0	42.6	31.2	87.71	-2,782.1	-1,854.9	872.0	798.4	73.57	11.853
15,295.0	12,100.0	15,332.4	12,050.0	43.0	32.0	87.71	-2,877.1	-1,854.3	872.1	797.4	74.71	11.673
15,300.0	12,100.0	15,337.4	12,050.0	43.0	32.0	87.71	-2,882.1	-1,854.2	872.1	797.3	74.77	11.664
15,390.0	12,100.0	15,427.4	12,050.0	43.4	32.7	87.71	-2,972.1	-1,853.7	872.2	796.4	75.86	11.497
15,400.0	12,100.0	15,437.4	12,050.0	43.4	32.8	87.71	-2,982.1	-1,853.6	872.2	796.2	75.98	11.479
15,485.0	12,100.0	15,522.4	12,050.0	43.8	33.5	87.71	-3,067.1	-1,853.1	872.3	795.3	77.03	11.325
15,500.0	12,100.0	15,537.4	12,050.0	43.9	33.6	87.71	-3,082.1	-1,853.0	872.3	795.1	77.21	11.298
15,580.0	12,100.0	15,617.4	12,050.0	44.2	34.2	87.71	-3,162.1	-1,852.5	872.4	794.2	78.20	11.156
15,600.0	12,100.0	15,637.4	12,050.0	44.3	34.4	87.71	-3,182.1	-1,852.4	872.5	794.0	78.45	11.121
15,675.0	12,100.0	15,712.4	12,050.0	44.6	35.0	87.71	-3,257.1	-1,851.9	872.5	793.2	79.39	10.990
15,700.0	12,100.0	15,737.4	12,050.0	44.7	35.2	87.71	-3,282.1	-1,851.8	872.6	792.9	79.71	10.948
15,770.0	12,100.0	15,807.4	12,050.0	45.1	35.7	87.71	-3,352.1	-1,851.3	872.7	792.1	80.59	10.828
15,800.0	12,100.0	15,837.4	12,050.0	45.2	36.0	87.71	-3,382.1	-1,851.2	872.7	791.7	80.97	10.778
15,865.0	12,100.0	15,902.4	12,050.0	45.5	36.5	87.71	-3,447.1	-1,850.8	872.8	791.0	81.80	10.670
15,900.0	12,100.0	15,937.4	12,050.0	45.7	36.8	87.71	-3,482.1	-1,850.5	872.8	790.6	82.24	10.612
15,960.0	12,100.0	15,997.4	12,050.0	46.0	37.2	87.71	-3,542.1	-1,850.2	872.9	789.9	83.01	10.515
16,000.0	12,100.0	16,037.4	12,050.0	46.2	37.6	87.71	-3,582.1	-1,849.9	872.9	789.4	83.53	10.450
16,055.0	12,100.0	16,092.4	12,050.0	46.4	38.0	87.71	-3,637.1	-1,849.6	873.0	788.7	84.24	10.363
16,100.0	12,100.0	16,137.4	12,050.0	46.6	38.4	87.71	-3,682.1	-1,849.3	873.0	788.2	84.83	10.292
16,150.0	12,100.0	16,187.4	12,050.0	46.9	38.8	87.71	-3,732.1	-1,849.0	873.1	787.6	85.48	10.214
16,200.0	12,100.0	16,237.4	12,050.0	47.1	39.2	87.71	-3,782.1	-1,848.7	873.1	787.0	86.13	10.137
16,245.0	12,100.0	16,282.4	12,050.0	47.4	39.5	87.71	-3,827.1	-1,848.4	873.2	786.5	86.72	10.069

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
16,300.0	12,100.0	16,337.4	12,050.0	47.6	40.0	87.71	-3,882.1	-1,848.1	873.3	785.8	87.45	9.986
16,340.0	12,100.0	16,377.4	12,050.0	47.8	40.3	87.71	-3,922.1	-1,847.8	873.3	785.3	87.97	9.927
16,400.0	12,100.0	16,437.4	12,050.0	48.1	40.8	87.72	-3,982.1	-1,847.5	873.4	784.6	88.77	9.839
16,435.0	12,100.0	16,472.4	12,050.0	48.3	41.1	87.72	-4,017.1	-1,847.2	873.4	784.2	89.24	9.788
16,500.0	12,100.0	16,537.4	12,050.0	48.7	41.6	87.72	-4,082.1	-1,846.8	873.5	783.4	90.10	9.695
16,530.0	12,100.0	16,567.4	12,050.0	48.8	41.9	87.72	-4,112.1	-1,846.7	873.5	783.0	90.50	9.652
16,600.0	12,100.0	16,637.4	12,050.0	49.2	42.4	87.72	-4,182.1	-1,846.2	873.6	782.2	91.44	9.554
16,625.0	12,100.0	16,662.4	12,050.0	49.3	42.6	87.72	-4,207.1	-1,846.1	873.6	781.9	91.78	9.519
16,700.0	12,100.0	16,737.4	12,050.0	49.7	43.2	87.72	-4,282.1	-1,845.6	873.7	780.9	92.79	9.416
16,720.0	12,100.0	16,757.4	12,050.0	49.8	43.4	87.72	-4,302.1	-1,845.5	873.7	780.7	93.06	9.389
16,800.0	12,100.0	16,837.4	12,050.0	50.2	44.1	87.72	-4,382.1	-1,845.0	873.8	779.7	94.15	9.282
16,815.0	12,100.0	16,852.4	12,050.0	50.3	44.2	87.72	-4,397.1	-1,844.9	873.9	779.5	94.35	9.262
16,900.0	12,100.0	16,937.4	12,050.0	50.8	44.9	87.72	-4,482.1	-1,844.4	874.0	778.4	95.51	9.150
16,910.0	12,100.0	16,947.4	12,050.0	50.8	45.0	87.72	-4,492.1	-1,844.3	874.0	778.3	95.65	9.137
17,000.0	12,100.0	17,037.4	12,050.0	51.3	45.7	87.72	-4,582.1	-1,843.7	874.1	777.2	96.88	9.022
17,005.0	12,100.0	17,042.4	12,050.0	51.4	45.7	87.72	-4,587.1	-1,843.7	874.1	777.1	96.95	9.016
17,100.0	12,100.0	17,137.4	12,050.0	51.9	46.5	87.72	-4,682.1	-1,843.1	874.2	775.9	98.26	8.897
17,195.0	12,100.0	17,232.4	12,050.0	52.4	47.3	87.72	-4,777.1	-1,842.5	874.3	774.7	99.58	8.780
17,200.0	12,100.0	17,237.4	12,050.0	52.4	47.4	87.72	-4,782.1	-1,842.5	874.3	774.7	99.65	8.774
17,290.0	12,100.0	17,327.4	12,050.0	52.9	48.1	87.72	-4,872.1	-1,842.0	874.4	773.5	100.90	8.666
17,300.0	12,100.0	17,337.4	12,050.0	53.0	48.2	87.72	-4,882.1	-1,841.9	874.4	773.4	101.04	8.654
17,385.0	12,100.0	17,422.4	12,050.0	53.5	48.9	87.72	-4,967.1	-1,841.4	874.5	772.3	102.23	8.555
17,400.0	12,100.0	17,437.4	12,050.0	53.6	49.0	87.72	-4,982.1	-1,841.3	874.5	772.1	102.43	8.537
17,480.0	12,100.0	17,517.4	12,050.0	54.0	49.7	87.72	-5,062.1	-1,840.8	874.6	771.1	103.56	8.446
17,500.0	12,100.0	17,537.4	12,050.0	54.1	49.8	87.72	-5,082.1	-1,840.7	874.6	770.8	103.84	8.423
17,575.0	12,100.0	17,612.4	12,050.0	54.6	50.5	87.72	-5,157.1	-1,840.2	874.7	769.8	104.89	8.339
17,600.0	12,100.0	17,637.4	12,050.0	54.7	50.7	87.72	-5,182.1	-1,840.0	874.8	769.5	105.25	8.312
17,670.0	12,100.0	17,707.4	12,050.0	55.1	51.2	87.72	-5,252.1	-1,839.6	874.8	768.6	106.24	8.235
17,700.0	12,100.0	17,737.4	12,050.0	55.3	51.5	87.72	-5,282.1	-1,839.4	874.9	768.2	106.66	8.202
17,765.0	12,100.0	17,802.4	12,050.0	55.7	52.0	87.72	-5,347.1	-1,839.0	875.0	767.4	107.58	8.133
17,800.0	12,100.0	17,837.4	12,050.0	55.9	52.3	87.72	-5,382.1	-1,838.8	875.0	766.9	108.08	8.096
17,860.0	12,100.0	17,897.4	12,050.0	56.2	52.8	87.72	-5,442.1	-1,838.4	875.1	766.1	108.94	8.033
17,900.0	12,100.0	17,937.4	12,050.0	56.5	53.2	87.72	-5,482.1	-1,838.2	875.1	765.6	109.51	7.991
17,955.0	12,100.0	17,992.4	12,050.0	56.8	53.6	87.72	-5,537.1	-1,837.9	875.2	764.9	110.29	7.935
18,000.0	12,100.0	18,037.4	12,050.0	57.1	54.0	87.72	-5,582.1	-1,837.6	875.2	764.3	110.94	7.889
18,050.0	12,100.0	18,087.4	12,050.0	57.4	54.4	87.72	-5,632.1	-1,837.3	875.3	763.6	111.66	7.839
18,100.0	12,100.0	18,137.4	12,050.0	57.7	54.8	87.72	-5,682.1	-1,837.0	875.3	763.0	112.37	7.790
18,145.0	12,100.0	18,182.4	12,050.0	57.9	55.2	87.72	-5,727.1	-1,836.7	875.4	762.4	113.02	7.745
18,200.0	12,100.0	18,237.4	12,050.0	58.3	55.7	87.72	-5,782.1	-1,836.3	875.5	761.6	113.81	7.692
18,240.0	12,100.0	18,277.4	12,050.0	58.5	56.0	87.72	-5,822.1	-1,836.1	875.5	761.1	114.39	7.654
18,300.0	12,100.0	18,337.4	12,050.0	58.9	56.5	87.72	-5,882.1	-1,835.7	875.6	760.3	115.26	7.597
18,335.0	12,100.0	18,372.4	12,050.0	59.1	56.8	87.72	-5,917.1	-1,835.5	875.6	759.8	115.76	7.564
18,400.0	12,100.0	18,437.4	12,050.0	59.5	57.3	87.72	-5,982.1	-1,835.1	875.7	759.0	116.71	7.503
18,430.0	12,100.0	18,467.4	12,050.0	59.7	57.6	87.72	-6,012.1	-1,834.9	875.7	758.6	117.14	7.476
18,500.0	12,100.0	18,537.4	12,050.0	60.1	58.2	87.72	-6,082.1	-1,834.5	875.8	757.6	118.16	7.412
18,525.0	12,100.0	18,562.4	12,050.0	60.3	58.4	87.72	-6,107.1	-1,834.3	875.8	757.3	118.52	7.390
18,600.0	12,100.0	18,637.4	12,050.0	60.7	59.0	87.72	-6,182.1	-1,833.9	875.9	756.3	119.62	7.323
18,620.0	12,100.0	18,657.4	12,050.0	60.8	59.2	87.72	-6,202.1	-1,833.8	875.9	756.0	119.91	7.305
18,700.0	12,100.0	18,737.4	12,050.0	61.3	59.9	87.72	-6,282.1	-1,833.3	876.0	755.0	121.08	7.235
18,715.0	12,100.0	18,752.4	12,050.0	61.4	60.0	87.72	-6,297.1	-1,833.2	876.1	754.8	121.30	7.222
18,800.0	12,100.0	18,837.4	12,050.0	62.0	60.7	87.72	-6,382.1	-1,832.6	876.1	753.6	122.54	7.150

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Factor	
							+N/-S (usft)	+E/-W (usft)				
18,810.0	12,100.0	18,847.4	12,050.0	62.0	60.8	87.72	-6,392.1	-1,832.6	876.2	753.5	122.69	7.141
18,900.0	12,100.0	18,937.4	12,050.0	62.6	61.5	87.72	-6,482.0	-1,832.0	876.3	752.3	124.01	7.066
18,905.0	12,100.0	18,942.4	12,050.0	62.6	61.6	87.72	-6,487.0	-1,832.0	876.3	752.2	124.08	7.062
19,000.0	12,100.0	19,037.4	12,050.0	63.2	62.4	87.72	-6,582.0	-1,831.4	876.4	750.9	125.48	6.984
19,095.0	12,100.0	19,132.4	12,050.0	63.8	63.2	87.72	-6,677.0	-1,830.8	876.5	749.6	126.88	6.908
19,100.0	12,100.0	19,137.4	12,050.0	63.8	63.2	87.72	-6,682.0	-1,830.8	876.5	749.5	126.96	6.904
19,190.0	12,100.0	19,227.4	12,050.0	64.4	64.0	87.72	-6,772.0	-1,830.2	876.6	748.3	128.29	6.833
19,200.0	12,100.0	19,237.4	12,050.0	64.5	64.1	87.72	-6,782.0	-1,830.2	876.6	748.2	128.44	6.825
19,285.0	12,100.0	19,322.4	12,050.0	65.0	64.8	87.72	-6,867.0	-1,829.6	876.7	747.0	129.70	6.760
19,300.0	12,100.0	19,337.4	12,050.0	65.1	64.9	87.72	-6,882.0	-1,829.6	876.7	746.8	129.92	6.748
19,380.0	12,100.0	19,417.4	12,050.0	65.6	65.6	87.72	-6,962.0	-1,829.1	876.8	745.7	131.11	6.688
19,400.0	12,100.0	19,437.4	12,050.0	65.8	65.7	87.72	-6,982.0	-1,828.9	876.8	745.4	131.40	6.673
19,475.0	12,100.0	19,512.4	12,050.0	66.2	66.4	87.73	-7,057.0	-1,828.5	876.9	744.4	132.52	6.617
19,500.0	12,100.0	19,537.4	12,050.0	66.4	66.6	87.73	-7,082.0	-1,828.3	877.0	744.1	132.89	6.599
19,570.0	12,100.0	19,607.4	12,050.0	66.9	67.2	87.73	-7,152.0	-1,827.9	877.0	743.1	133.94	6.548
19,600.0	12,100.0	19,637.4	12,050.0	67.0	67.4	87.73	-7,182.0	-1,827.7	877.1	742.7	134.38	6.527
19,665.0	12,100.0	19,702.4	12,050.0	67.5	68.0	87.73	-7,247.0	-1,827.3	877.1	741.8	135.36	6.480
19,700.0	12,100.0	19,737.4	12,050.0	67.7	68.3	87.73	-7,282.0	-1,827.1	877.2	741.3	135.88	6.456
19,760.0	12,100.0	19,797.4	12,050.0	68.1	68.8	87.73	-7,342.0	-1,826.7	877.3	740.5	136.78	6.414
19,800.0	12,100.0	19,837.4	12,050.0	68.3	69.1	87.73	-7,382.0	-1,826.5	877.3	739.9	137.38	6.386
19,855.0	12,100.0	19,892.4	12,050.0	68.7	69.6	87.73	-7,437.0	-1,826.1	877.4	739.2	138.20	6.348
19,900.0	12,100.0	19,937.4	12,050.0	69.0	70.0	87.73	-7,482.0	-1,825.8	877.4	738.5	138.88	6.318
19,950.0	12,100.0	19,987.4	12,050.0	69.3	70.4	87.73	-7,532.0	-1,825.5	877.5	737.8	139.63	6.284
20,000.0	12,100.0	20,037.4	12,050.0	69.7	70.8	87.73	-7,582.0	-1,825.2	877.5	737.2	140.38	6.251
20,045.0	12,100.0	20,082.4	12,050.0	70.0	71.2	87.73	-7,627.0	-1,825.0	877.6	736.5	141.06	6.222
20,100.0	12,100.0	20,137.4	12,050.0	70.3	71.7	87.73	-7,682.0	-1,824.6	877.6	735.8	141.88	6.186
20,140.0	12,100.0	20,177.4	12,050.0	70.6	72.0	87.73	-7,722.0	-1,824.4	877.7	735.2	142.49	6.160
20,200.0	12,100.0	20,237.4	12,050.0	71.0	72.5	87.73	-7,782.0	-1,824.0	877.8	734.4	143.39	6.121
20,235.0	12,100.0	20,272.4	12,050.0	71.2	72.8	87.73	-7,817.0	-1,823.8	877.8	733.9	143.92	6.099
20,300.0	12,100.0	20,337.4	12,050.0	71.6	73.4	87.73	-7,882.0	-1,823.4	877.9	733.0	144.90	6.058
20,330.0	12,100.0	20,367.4	12,050.0	71.8	73.6	87.73	-7,912.0	-1,823.2	877.9	732.6	145.36	6.040
20,400.0	12,100.0	20,437.4	12,050.0	72.3	74.2	87.73	-7,982.0	-1,822.8	878.0	731.6	146.41	5.997
20,425.0	12,100.0	20,462.4	12,050.0	72.5	74.4	87.73	-8,007.0	-1,822.6	878.0	731.2	146.79	5.981
20,500.0	12,100.0	20,537.4	12,050.0	73.0	75.0	87.73	-8,082.0	-1,822.1	878.1	730.2	147.93	5.936
20,520.0	12,100.0	20,557.4	12,050.0	73.1	75.2	87.73	-8,102.0	-1,822.0	878.1	729.9	148.23	5.924
20,600.0	12,100.0	20,637.4	12,050.0	73.6	75.9	87.73	-8,182.0	-1,821.5	878.2	728.8	149.45	5.877
20,615.0	12,100.0	20,652.4	12,050.0	73.7	76.0	87.73	-8,197.0	-1,821.4	878.2	728.6	149.67	5.868
20,700.0	12,100.0	20,737.4	12,050.0	74.3	76.7	87.73	-8,282.0	-1,820.9	878.3	727.4	150.96	5.818
20,710.0	12,100.0	20,747.4	12,050.0	74.4	76.8	87.73	-8,292.0	-1,820.9	878.4	727.2	151.12	5.812
20,800.0	12,100.0	20,837.4	12,050.0	75.0	77.6	87.73	-8,382.0	-1,820.3	878.5	726.0	152.49	5.761
20,805.0	12,100.0	20,842.4	12,050.0	75.0	77.6	87.73	-8,387.0	-1,820.3	878.5	725.9	152.56	5.758
20,900.0	12,100.0	20,937.4	12,050.0	75.7	78.4	87.73	-8,482.0	-1,819.7	878.6	724.6	154.01	5.705
20,995.0	12,100.0	21,032.4	12,050.0	76.3	79.2	87.73	-8,577.0	-1,819.1	878.7	723.2	155.46	5.652
21,000.0	12,100.0	21,037.4	12,050.0	76.3	79.3	87.73	-8,582.0	-1,819.1	878.7	723.2	155.53	5.649
21,090.0	12,100.0	21,127.4	12,050.0	76.9	80.1	87.73	-8,672.0	-1,818.5	878.8	721.9	156.91	5.601
21,100.0	12,100.0	21,137.4	12,050.0	77.0	80.1	87.73	-8,682.0	-1,818.4	878.8	721.7	157.06	5.595
21,185.0	12,100.0	21,222.4	12,050.0	77.6	80.9	87.73	-8,767.0	-1,817.9	878.9	720.5	158.36	5.550
21,200.0	12,100.0	21,237.4	12,050.0	77.7	81.0	87.73	-8,782.0	-1,817.8	878.9	720.3	158.59	5.542
21,280.0	12,100.0	21,317.4	12,050.0	78.2	81.7	87.73	-8,862.0	-1,817.3	879.0	719.2	159.82	5.500
21,300.0	12,100.0	21,337.4	12,050.0	78.4	81.8	87.73	-8,882.0	-1,817.2	879.0	718.9	160.12	5.490
21,375.0	12,100.0	21,412.4	12,050.0	78.9	82.5	87.73	-8,957.0	-1,816.7	879.1	717.8	161.27	5.451

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		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)		
21,400.0	12,100.0	21,437.4	12,050.0	79.0	82.7	87.73	-8,982.0	-1,816.6	879.1	717.5	161.65	5.438
21,470.0	12,100.0	21,507.4	12,050.0	79.5	83.3	87.73	-9,052.0	-1,816.2	879.2	716.5	162.73	5.403
21,500.0	12,100.0	21,537.4	12,050.0	79.7	83.5	87.73	-9,082.0	-1,816.0	879.3	716.1	163.19	5.388
21,565.0	12,100.0	21,602.4	12,050.0	80.2	84.1	87.73	-9,147.0	-1,815.6	879.3	715.2	164.19	5.356
21,600.0	12,100.0	21,637.4	12,050.0	80.4	84.4	87.73	-9,182.0	-1,815.4	879.4	714.7	164.72	5.338
21,660.0	12,100.0	21,697.4	12,050.0	80.8	84.9	87.73	-9,242.0	-1,815.0	879.4	713.8	165.65	5.309
21,700.0	12,100.0	21,737.4	12,050.0	81.1	85.2	87.73	-9,282.0	-1,814.7	879.5	713.2	166.26	5.290
21,755.0	12,100.0	21,792.4	12,050.0	81.5	85.7	87.73	-9,337.0	-1,814.4	879.6	712.5	167.11	5.263
21,800.0	12,100.0	21,837.4	12,050.0	81.8	86.1	87.73	-9,382.0	-1,814.1	879.6	711.8	167.80	5.242
21,850.0	12,100.0	21,887.4	12,050.0	82.1	86.5	87.73	-9,432.0	-1,813.8	879.7	711.1	168.57	5.218
21,900.0	12,100.0	21,937.4	12,050.0	82.5	86.9	87.73	-9,482.0	-1,813.5	879.7	710.4	169.34	5.195
21,945.0	12,100.0	21,982.4	12,050.0	82.8	87.3	87.73	-9,527.0	-1,813.2	879.8	709.7	170.04	5.174
22,000.0	12,100.0	22,037.4	12,050.0	83.2	87.8	87.73	-9,582.0	-1,812.9	879.8	709.0	170.88	5.149
22,040.0	12,100.0	22,077.4	12,050.0	83.4	88.1	87.73	-9,622.0	-1,812.6	879.9	708.4	171.50	5.130
22,100.0	12,100.0	22,137.4	12,050.0	83.9	88.6	87.73	-9,682.0	-1,812.3	880.0	707.5	172.43	5.103
22,135.0	12,100.0	22,172.4	12,050.0	84.1	88.9	87.73	-9,717.0	-1,812.1	880.0	707.0	172.97	5.088
22,200.0	12,100.0	22,237.4	12,050.0	84.5	89.5	87.73	-9,782.0	-1,811.7	880.1	706.1	173.97	5.059
22,211.7	12,100.0	22,249.1	12,050.0	84.6	89.6	87.73	-9,793.7	-1,811.6	880.1	705.9	174.16	5.053
22,230.0	12,100.0	22,267.4	12,050.0	84.8	89.8	87.73	-9,812.0	-1,811.5	880.1	705.7	174.44	5.045
22,261.7	12,100.0	22,299.1	12,050.0	85.0	90.0	87.73	-9,843.7	-1,811.3	880.1	705.2	174.93	5.031 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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - KING TUT FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 196-MWD													Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (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)				
2,375.0	2,373.9	2,367.9	2,367.7	5.6	8.9	6.87	499.4	-890.4	996.5	982.4	14.15	70.426		
2,400.0	2,398.7	2,392.8	2,392.6	5.8	9.0	6.93	500.0	-890.2	993.3	978.9	14.39	69.044		
2,470.0	2,467.9	2,462.3	2,462.1	6.2	9.2	7.12	501.5	-889.8	983.2	968.2	15.01	65.491		
2,500.0	2,497.5	2,492.1	2,491.9	6.3	9.3	7.21	502.2	-889.5	978.3	963.0	15.28	64.008		
2,565.0	2,561.3	2,558.7	2,558.4	6.7	9.5	7.46	504.1	-888.7	966.7	950.8	15.86	60.958		
2,600.2	2,595.8	2,598.3	2,598.0	6.9	9.7	7.61	505.0	-888.2	959.6	943.4	16.18	59.293		
2,660.0	2,654.3	2,659.9	2,659.6	7.0	9.9	7.78	505.8	-887.3	946.9	930.3	16.57	57.143		
2,700.0	2,693.4	2,697.1	2,696.8	7.2	10.0	7.88	506.1	-886.9	938.4	921.6	16.82	55.795		
2,755.0	2,747.2	2,750.6	2,750.3	7.3	10.2	8.00	506.4	-886.5	926.9	909.8	17.10	54.194		
2,800.0	2,791.2	2,797.4	2,797.1	7.3	10.4	8.11	506.6	-886.0	917.4	900.0	17.35	52.887		
2,850.0	2,840.2	2,847.7	2,847.4	7.4	10.6	8.25	506.9	-885.4	906.6	889.0	17.62	51.463		
2,900.0	2,889.1	2,896.4	2,896.1	7.5	10.7	8.37	507.1	-884.8	895.9	878.0	17.88	50.094		
2,945.0	2,933.1	2,937.7	2,937.4	7.6	10.9	8.47	507.1	-884.4	886.3	868.2	18.13	48.895		
3,000.0	2,986.9	2,985.6	2,985.4	7.7	11.0	8.55	506.8	-884.4	874.8	856.4	18.42	47.501		
3,040.0	3,026.0	3,021.6	3,021.3	7.8	11.2	8.59	506.4	-884.7	866.7	848.1	18.65	46.486		
3,100.0	3,084.7	3,080.1	3,079.8	7.9	11.4	8.64	505.7	-885.5	854.7	835.6	19.03	44.900		
3,135.0	3,118.9	3,114.1	3,113.8	8.0	11.5	8.67	505.2	-886.0	847.6	828.4	19.25	44.028		
3,200.0	3,182.5	3,176.5	3,176.2	8.2	11.7	8.76	504.8	-886.6	834.6	815.0	19.61	42.564		
3,230.0	3,211.8	3,205.6	3,205.3	8.3	11.8	8.82	504.9	-886.8	828.6	808.9	19.78	41.901		
3,300.0	3,280.3	3,275.2	3,274.9	8.4	12.0	8.99	505.2	-887.1	814.7	794.5	20.17	40.389		
3,325.0	3,304.8	3,299.7	3,299.4	8.5	12.1	9.06	505.3	-887.2	809.7	789.4	20.31	39.856		
3,400.0	3,378.1	3,368.7	3,368.4	8.7	12.3	9.21	505.5	-887.8	794.9	774.1	20.75	38.302		
3,420.0	3,397.7	3,389.0	3,388.7	8.7	12.4	9.24	505.4	-888.1	791.0	770.1	20.88	37.891		
3,500.0	3,475.9	3,463.5	3,463.2	8.9	12.7	9.35	505.1	-889.5	775.7	754.3	21.37	36.303		
3,515.0	3,490.6	3,477.8	3,477.5	9.0	12.7	9.38	505.1	-889.8	772.8	751.4	21.47	36.001		
3,600.0	3,573.8	3,560.7	3,560.3	9.2	13.0	9.54	505.2	-891.3	756.7	734.7	21.98	34.423		
3,610.0	3,583.5	3,570.4	3,570.1	9.2	13.0	9.56	505.2	-891.5	754.8	732.8	22.04	34.242		
3,700.0	3,671.6	3,657.2	3,656.8	9.5	13.3	9.77	505.8	-893.0	737.9	715.3	22.59	32.667		
3,705.0	3,676.5	3,662.0	3,661.6	9.5	13.3	9.79	505.8	-893.0	737.0	714.4	22.62	32.581		
3,800.0	3,769.4	3,764.1	3,763.7	9.8	13.7	10.00	505.7	-894.7	718.8	695.5	23.26	30.905		
3,895.0	3,862.3	3,861.1	3,860.7	10.1	14.0	10.09	503.8	-896.4	699.7	675.8	23.88	29.295		
3,900.0	3,867.2	3,866.2	3,865.8	10.1	14.1	10.09	503.7	-896.5	698.6	674.7	23.91	29.214		
3,990.0	3,955.2	3,958.1	3,957.6	10.3	14.4	10.18	501.6	-897.5	680.0	655.5	24.48	27.782		
4,000.0	3,965.0	3,967.8	3,967.4	10.4	14.4	10.19	501.4	-897.6	677.9	653.4	24.54	27.626		
4,085.0	4,048.2	4,050.8	4,050.3	10.6	14.7	10.33	500.0	-898.1	660.1	635.1	25.07	26.333		
4,100.0	4,062.8	4,066.1	4,065.6	10.7	14.7	10.36	499.7	-898.2	657.0	631.8	25.16	26.110		
4,180.0	4,141.1	4,147.8	4,147.4	10.9	15.0	10.54	498.5	-898.1	640.0	614.3	25.67	24.934		
4,200.0	4,160.6	4,169.9	4,169.4	11.0	15.1	10.60	498.2	-898.0	635.6	609.8	25.80	24.641		
4,275.0	4,234.0	4,251.7	4,251.2	11.2	15.3	10.81	496.4	-897.0	618.6	592.4	26.27	23.545		
4,300.0	4,258.4	4,278.3	4,277.7	11.3	15.4	10.88	495.6	-896.5	612.8	586.3	26.43	23.182		
4,370.0	4,326.9	4,349.1	4,348.5	11.5	15.7	11.02	493.1	-895.0	595.9	569.0	26.88	22.172		
4,400.0	4,356.3	4,375.8	4,375.2	11.6	15.7	11.06	492.0	-894.6	588.7	561.7	27.07	21.750		
4,465.0	4,419.8	4,434.4	4,433.7	11.8	15.9	11.14	489.8	-894.0	573.6	546.1	27.48	20.871		
4,500.0	4,454.1	4,467.9	4,467.2	11.9	16.1	11.19	488.5	-893.8	565.6	537.9	27.71	20.413		
4,560.0	4,512.8	4,525.7	4,525.0	12.1	16.2	11.26	486.4	-893.6	551.9	523.8	28.09	19.646		
4,600.0	4,551.9	4,564.8	4,564.1	12.3	16.4	11.32	485.0	-893.4	542.8	514.5	28.35	19.146		
4,655.0	4,605.7	4,618.0	4,617.2	12.4	16.6	11.39	483.1	-893.1	530.3	501.6	28.71	18.471		
4,700.0	4,649.7	4,657.2	4,656.4	12.6	16.7	11.47	481.8	-893.0	520.3	491.3	29.00	17.940		
4,750.0	4,698.6	4,700.5	4,699.7	12.8	16.8	11.58	480.9	-893.1	509.6	480.3	29.33	17.372		
4,800.0	4,747.5	4,747.7	4,746.9	12.9	17.0	11.74	480.4	-893.4	499.4	469.7	29.67	16.832		
4,845.0	4,791.5	4,791.6	4,790.8	13.1	17.2	11.89	479.9	-893.7	490.2	460.2	29.97	16.357		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - KING TUT FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		196-MWD				Rule Assigned:								Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
4,900.0	4,845.3	4,845.2	4,844.4	13.3	17.4	12.09	479.3	-894.1	479.0	448.6	30.34	15.789			
4,940.0	4,884.5	4,884.1	4,883.3	13.4	17.5	12.23	478.9	-894.5	470.8	440.2	30.60	15.384			
5,000.0	4,943.1	4,943.6	4,942.7	13.6	17.7	12.44	478.1	-895.0	458.6	427.6	31.01	14.790			
5,035.0	4,977.4	4,978.5	4,977.6	13.7	17.8	12.55	477.5	-895.3	451.5	420.2	31.24	14.449			
5,100.0	5,041.0	5,038.6	5,037.8	14.0	18.0	12.77	476.6	-896.0	438.2	406.6	31.69	13.829			
5,130.0	5,070.3	5,065.7	5,064.8	14.1	18.1	12.89	476.4	-896.4	432.4	400.5	31.90	13.556			
5,200.0	5,138.8	5,131.3	5,130.5	14.3	18.3	13.24	476.5	-897.5	419.2	386.8	32.38	12.946			
5,225.0	5,163.2	5,155.3	5,154.4	14.4	18.4	13.38	476.7	-897.9	414.6	382.1	32.56	12.735			
5,300.0	5,236.6	5,227.9	5,227.0	14.6	18.7	13.86	477.4	-899.2	401.0	367.9	33.08	12.122			
5,320.0	5,256.1	5,247.4	5,246.5	14.7	18.7	14.00	477.7	-899.6	397.3	364.1	33.21	11.963			
5,400.0	5,334.4	5,326.1	5,325.2	15.0	19.0	14.60	478.7	-901.0	382.9	349.2	33.77	11.340			
5,415.0	5,349.1	5,341.0	5,340.1	15.0	19.0	14.71	478.8	-901.3	380.2	346.4	33.87	11.226			
5,500.0	5,432.2	5,425.1	5,424.2	15.3	19.3	15.37	479.6	-902.9	364.9	330.4	34.46	10.587			
5,510.0	5,442.0	5,435.0	5,434.1	15.4	19.4	15.45	479.7	-903.0	363.0	328.5	34.53	10.513			
5,600.0	5,530.0	5,523.6	5,522.7	15.7	19.7	16.21	480.4	-904.6	346.7	311.5	35.16	9.858			
5,605.0	5,534.9	5,528.5	5,527.6	15.7	19.7	16.25	480.4	-904.7	345.7	310.5	35.20	9.823			
5,700.0	5,627.8	5,621.7	5,620.7	16.0	20.0	17.15	481.2	-906.3	328.5	292.7	35.87	9.160			
5,795.0	5,720.8	5,714.9	5,713.9	16.4	20.3	18.21	482.3	-907.7	311.5	274.9	36.54	8.525			
5,800.0	5,725.7	5,719.8	5,718.8	16.4	20.3	18.26	482.4	-907.8	310.6	274.0	36.57	8.492			
5,890.0	5,813.7	5,808.2	5,807.2	16.7	20.6	19.39	483.4	-909.1	294.5	257.3	37.21	7.915			
5,900.0	5,823.5	5,818.0	5,817.0	16.8	20.7	19.52	483.5	-909.3	292.7	255.4	37.28	7.852			
5,985.0	5,906.6	5,904.7	5,903.6	17.1	21.0	20.79	484.4	-910.2	277.3	239.5	37.87	7.324			
6,000.0	5,921.3	5,920.2	5,919.2	17.1	21.0	21.06	484.6	-910.2	274.5	236.5	37.97	7.229			
6,080.0	5,999.5	5,999.5	5,998.5	17.4	21.3	22.62	485.3	-909.6	259.1	220.6	38.54	6.722			
6,100.0	6,019.1	6,019.0	6,018.0	17.5	21.4	23.02	485.5	-909.4	255.3	216.6	38.69	6.598			
6,175.0	6,092.5	6,093.1	6,092.1	17.7	21.6	24.65	485.9	-908.9	240.9	201.7	39.22	6.143			
6,200.0	6,116.9	6,117.8	6,116.8	17.8	21.7	25.24	486.1	-908.7	236.1	196.7	39.40	5.993			
6,270.0	6,185.4	6,185.5	6,184.5	18.1	22.0	27.01	486.4	-908.0	222.8	182.9	39.90	5.585			
6,300.0	6,214.7	6,214.5	6,213.4	18.2	22.1	27.81	486.6	-907.8	217.3	177.2	40.11	5.417			
6,365.0	6,278.3	6,277.3	6,276.2	18.4	22.3	29.67	487.1	-907.6	205.6	165.0	40.57	5.068			
6,400.0	6,312.5	6,311.1	6,310.1	18.6	22.4	30.73	487.4	-907.6	199.5	158.7	40.82	4.888			
6,460.0	6,371.2	6,369.9	6,368.9	18.8	22.6	32.72	487.9	-907.7	189.3	148.1	41.24	4.591			
6,500.0	6,410.3	6,409.1	6,408.1	18.9	22.7	34.17	488.2	-907.8	182.6	141.1	41.51	4.399			
6,555.0	6,464.1	6,463.1	6,462.0	19.1	22.9	36.35	488.7	-907.8	173.6	131.7	41.89	4.144			
6,600.0	6,508.2	6,507.2	6,506.2	19.3	23.1	38.30	489.0	-907.8	166.4	124.2	42.19	3.944			
6,650.0	6,557.1	6,556.1	6,555.1	19.5	23.2	40.65	489.3	-907.9	158.6	116.1	42.53	3.730			
6,700.0	6,606.0	6,605.1	6,604.0	19.7	23.4	43.21	489.6	-908.0	151.2	108.3	42.86	3.526			
6,745.0	6,650.0	6,649.4	6,648.4	19.8	23.6	45.76	489.9	-908.1	144.7	101.5	43.15	3.352			
6,800.0	6,703.8	6,703.6	6,702.5	20.0	23.7	49.21	490.1	-908.0	137.0	93.5	43.49	3.151			
6,840.0	6,742.9	6,742.8	6,741.7	20.2	23.9	51.95	490.2	-908.0	131.8	88.0	43.73	3.013			
6,900.0	6,801.6	6,801.6	6,800.6	20.4	24.1	56.46	490.3	-907.9	124.5	80.4	44.08	2.824			
6,935.0	6,835.8	6,836.0	6,834.9	20.5	24.2	59.34	490.4	-907.9	120.5	76.3	44.26	2.723			
6,942.7	6,843.4	6,843.5	6,842.5	20.5	24.2	60.01	490.4	-907.8	119.7	75.4	44.30	2.702			
7,000.0	6,899.5	6,899.7	6,898.6	20.7	24.4	65.06	490.4	-907.6	114.2	69.6	44.59	2.562			
7,030.0	6,928.9	6,929.0	6,927.9	20.8	24.5	67.80	490.4	-907.4	111.9	67.1	44.73	2.500			
7,100.0	6,997.7	6,997.6	6,996.5	21.1	24.8	74.40	490.4	-906.8	107.6	62.6	45.06	2.389			
7,125.0	7,022.2	7,022.2	7,021.2	21.2	24.8	76.79	490.5	-906.6	106.6	61.4	45.18	2.359			
7,200.0	7,096.2	7,096.1	7,095.1	21.5	25.1	83.90	490.4	-905.9	104.5	59.0	45.52	2.296			
7,220.0	7,115.9	7,115.9	7,114.8	21.5	25.2	85.74	490.4	-905.7	104.2	58.6	45.61	2.285			
7,260.6	7,156.0	7,155.9	7,154.9	21.7	25.3	89.35	490.3	-905.4	104.0	58.2	45.80	2.271 CC			
7,300.0	7,194.9	7,194.8	7,193.8	21.8	25.4	92.66	490.3	-905.2	104.2	58.2	46.00	2.265 ES			

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - KING TUT FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 196-MWD				Rule Assigned:									Offset Well Error:	2.0 usft
Reference		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)	Minimum Separation (usft)	Separation Factor		
7,315.0	7,209.8	7,209.6	7,208.6	21.9	25.5	93.88	490.3	-905.2	104.4	58.3	46.08	2.265		
7,400.0	7,294.0	7,293.8	7,292.7	22.2	25.8	100.25	490.5	-904.8	106.2	59.6	46.53	2.281		
7,410.0	7,303.9	7,303.8	7,302.7	22.2	25.8	100.93	490.5	-904.8	106.4	59.8	46.59	2.284		
7,500.0	7,393.3	7,393.3	7,392.3	22.5	26.1	106.54	490.6	-904.7	109.1	62.0	47.12	2.315		
7,505.0	7,398.2	7,398.3	7,397.2	22.5	26.1	106.82	490.6	-904.7	109.3	62.1	47.15	2.317		
7,600.0	7,492.7	7,492.7	7,491.6	22.9	26.5	111.71	490.5	-904.4	112.7	64.9	47.74	2.360		
7,695.0	7,587.4	7,587.6	7,586.6	23.2	26.8	115.72	490.3	-904.0	116.1	67.7	48.37	2.400		
7,700.0	7,592.3	7,592.6	7,591.6	23.2	26.8	115.90	490.3	-904.0	116.2	67.8	48.40	2.401		
7,790.0	7,682.1	7,682.9	7,681.8	23.5	27.1	118.80	489.8	-904.0	118.8	69.8	49.01	2.424		
7,800.0	7,692.1	7,692.9	7,691.8	23.6	27.1	119.08	489.8	-904.0	119.1	70.0	49.08	2.426		
7,885.0	7,777.0	7,777.9	7,776.8	23.8	27.4	121.08	489.2	-904.2	120.8	71.1	49.65	2.433		
7,900.0	7,792.0	7,792.8	7,791.8	23.9	27.5	121.37	489.1	-904.3	121.1	71.3	49.76	2.433		
7,980.0	7,871.9	7,873.1	7,872.0	24.2	27.8	122.79	488.4	-904.4	122.1	71.8	50.30	2.426		
8,000.0	7,891.9	7,893.4	7,892.3	24.2	27.8	123.17	488.0	-904.3	122.2	71.7	50.44	2.422		
8,075.0	7,966.9	7,971.2	7,969.8	24.5	28.1	126.34	482.4	-902.7	121.3	70.3	50.98	2.379		
8,100.0	7,991.9	7,996.6	7,995.1	24.6	28.2	128.07	478.9	-901.7	120.6	69.5	51.16	2.358		
8,143.1	8,035.0	8,040.9	8,038.6	24.7	28.3	64.55	471.2	-899.4	119.2	67.7	51.48	2.316		
8,170.0	8,061.9	8,068.9	8,065.9	24.8	28.4	67.52	465.1	-897.9	118.1	66.5	51.69	2.286		
8,200.0	8,091.9	8,099.0	8,094.9	24.9	28.5	71.37	457.3	-896.2	117.0	65.1	51.92	2.253		
8,250.8	8,142.7	8,148.7	8,141.8	25.0	28.7	79.50	441.1	-892.9	116.0	63.7	52.32	2.218		
8,265.0	8,156.9	8,162.4	8,154.4	25.1	28.7	82.08	436.0	-892.0	116.1	63.7	52.42	2.215 SF		
8,300.0	8,191.9	8,194.4	8,183.5	25.2	28.9	88.67	422.7	-889.8	117.4	64.9	52.56	2.234		
8,360.0	8,251.9	8,245.7	8,228.4	25.3	29.0	100.22	398.3	-886.3	124.7	72.4	52.30	2.384		
8,400.0	8,291.9	8,277.8	8,255.3	25.5	29.1	107.64	381.0	-884.2	133.7	82.0	51.71	2.585		
8,455.0	8,346.9	8,318.2	8,287.5	25.6	29.3	116.94	356.6	-882.3	151.6	101.3	50.32	3.013		
8,500.0	8,391.9	8,346.9	8,308.9	25.8	29.4	123.33	337.5	-881.6	171.1	122.4	48.75	3.510		
8,550.0	8,441.9	8,375.4	8,328.8	25.9	29.5	129.26	317.2	-881.2	197.4	150.5	46.90	4.209		
8,600.0	8,491.9	8,401.3	8,346.0	26.1	29.6	134.14	297.8	-881.1	227.6	182.4	45.21	5.035		
8,645.0	8,536.9	8,423.0	8,359.8	26.2	29.7	137.80	281.0	-881.0	257.4	213.5	43.93	5.860		
8,700.0	8,591.9	8,446.7	8,374.1	26.4	29.7	141.35	262.2	-880.8	296.4	253.9	42.54	6.968		
8,740.0	8,631.9	8,461.7	8,382.9	26.5	29.8	143.39	250.0	-880.7	326.3	284.6	41.63	7.837		
8,800.0	8,691.9	8,486.0	8,396.1	26.7	29.9	146.39	229.6	-880.4	373.1	332.4	40.73	9.160		
8,835.0	8,726.9	8,486.0	8,396.1	26.8	29.9	146.39	229.6	-880.4	401.4	361.9	39.46	10.171		
8,900.0	8,791.9	8,507.8	8,407.1	27.0	30.0	148.79	210.7	-880.2	455.3	416.5	38.80	11.733		
8,930.0	8,821.9	8,517.0	8,411.4	27.1	30.0	149.73	202.6	-880.1	480.7	442.2	38.53	12.477		
9,000.0	8,891.9	8,529.5	8,417.0	27.3	30.1	150.94	191.5	-880.0	541.3	503.6	37.65	14.376		
9,025.0	8,916.9	8,534.1	8,419.0	27.4	30.1	151.37	187.3	-880.0	563.3	525.9	37.42	15.053		
9,100.0	8,991.9	8,549.0	8,425.1	27.6	30.1	152.70	173.7	-879.9	630.1	593.2	36.91	17.071		
9,120.0	9,011.9	8,549.0	8,425.1	27.7	30.1	152.70	173.7	-879.9	648.1	611.5	36.66	17.679		
9,200.0	9,091.9	8,561.7	8,429.9	28.0	30.2	153.76	162.0	-879.8	721.0	684.7	36.27	19.879		
9,215.0	9,106.9	8,563.7	8,430.6	28.0	30.2	153.92	160.1	-879.8	734.7	698.5	36.20	20.296		
9,300.0	9,191.9	8,580.0	8,436.2	28.3	30.3	155.20	144.8	-879.8	813.4	777.4	36.06	22.559		
9,310.0	9,201.9	8,580.0	8,436.2	28.3	30.3	155.20	144.8	-879.8	822.7	786.7	35.99	22.857		
9,400.0	9,291.9	8,580.0	8,436.2	28.6	30.3	155.20	144.8	-879.8	907.0	871.5	35.54	25.523		
9,405.0	9,296.9	8,580.0	8,436.2	28.6	30.3	155.20	144.8	-879.8	911.7	876.2	35.52	25.670		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - PADUCA 30 FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 285-INC-ONLY				Rule Assigned:					Offset Well Error: 3.0 usft					
Reference		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)	Minimum Separation (usft)	Separation Factor	Warning	
12,800.0	12,100.0	12,067.1	12,061.0	36.7	313.1	-88.48	-1,298.0	-668.5	979.5	629.7	349.72	2.801		
12,825.0	12,100.0	12,067.3	12,061.3	36.7	313.1	-88.52	-1,298.0	-668.5	955.9	606.2	349.74	2.733		
12,900.0	12,100.0	12,068.0	12,061.9	36.8	313.1	-88.63	-1,298.0	-668.5	885.8	536.0	349.81	2.532		
12,920.0	12,100.0	12,068.2	12,062.1	36.8	313.1	-88.67	-1,298.0	-668.5	867.2	517.4	349.83	2.479		
13,000.0	12,100.0	12,068.9	12,062.8	36.9	313.1	-88.79	-1,298.0	-668.5	793.7	443.7	349.92	2.268		
13,015.0	12,100.0	12,069.0	12,063.0	36.9	313.1	-88.82	-1,298.0	-668.5	780.0	430.1	349.93	2.229		
13,100.0	12,100.0	12,069.8	12,063.7	37.0	313.1	-88.95	-1,298.0	-668.5	703.7	353.6	350.04	2.010		
13,110.0	12,100.0	12,069.9	12,063.8	37.0	313.2	-88.97	-1,298.0	-668.5	694.8	344.8	350.05	1.985	Advise and Monitor	
13,200.0	12,100.0	12,070.7	12,064.7	37.1	313.2	-89.12	-1,298.0	-668.5	616.8	266.6	350.18	1.761	Advise and Monitor	
13,205.0	12,100.0	12,070.8	12,064.7	37.1	313.2	-89.12	-1,298.0	-668.5	612.6	262.4	350.19	1.749	Advise and Monitor	
13,300.0	12,100.0	12,071.7	12,065.6	37.2	313.2	-89.28	-1,298.0	-668.5	534.5	184.2	350.34	1.526	Advise and Monitor	
13,395.0	12,100.0	12,072.6	12,066.5	37.3	313.2	-89.44	-1,298.0	-668.5	462.9	112.4	350.52	1.321	Advise and Monitor	
13,400.0	12,100.0	12,072.6	12,066.6	37.3	313.2	-89.45	-1,298.0	-668.5	459.3	108.8	350.53	1.310	Advise and Monitor	
13,490.0	12,100.0	12,073.5	12,067.4	37.5	313.3	-89.60	-1,298.0	-668.5	401.0	50.4	350.69	1.144	Advise and Monitor	
13,500.0	12,100.0	12,073.6	12,067.5	37.5	313.3	-89.62	-1,298.1	-668.5	395.3	44.6	350.70	1.127	Advise and Monitor	
13,585.0	12,100.0	12,074.4	12,068.4	37.6	313.3	-89.77	-1,298.1	-668.5	354.2	3.4	350.79	1.010	Advise and Monitor	
13,600.0	12,100.0	12,074.6	12,068.5	37.6	313.3	-89.79	-1,298.1	-668.5	348.6	-2.2	350.80	0.994	Advise and Monitor	
13,680.0	12,100.0	12,075.4	12,069.3	37.8	313.3	-89.93	-1,298.1	-668.5	328.9	-21.9	350.74	0.938	Advise and Monitor	
13,700.0	12,100.0	12,075.6	12,069.5	37.8	313.4	-89.97	-1,298.1	-668.5	326.8	-23.9	350.71	0.932	Advise and Monitor	
13,723.7	12,100.0	12,075.8	12,069.7	37.9	313.4	-90.01	-1,298.1	-668.5	325.9	-24.7	350.65	0.930	Advise and Monitor, CC, ES, SF	
13,775.0	12,100.0	12,076.3	12,070.3	38.0	313.4	-90.10	-1,298.1	-668.5	330.0	-20.6	350.51	0.941	Advise and Monitor	
13,800.0	12,100.0	12,076.6	12,070.5	38.0	313.4	-90.14	-1,298.1	-668.5	334.8	-15.7	350.43	0.955	Advise and Monitor	
13,870.0	12,100.0	12,077.3	12,071.2	38.2	313.4	-90.27	-1,298.1	-668.5	357.3	7.1	350.22	1.020	Advise and Monitor	
13,900.0	12,100.0	12,077.6	12,071.6	38.3	313.4	-90.33	-1,298.1	-668.5	370.6	20.4	350.13	1.058	Advise and Monitor	
13,965.0	12,100.0	12,078.3	12,072.2	38.4	313.4	-90.45	-1,298.1	-668.5	405.5	55.6	350.00	1.159	Advise and Monitor	
14,000.0	12,100.0	12,078.7	12,072.6	38.5	313.5	-90.51	-1,298.1	-668.5	427.3	77.4	349.94	1.221	Advise and Monitor	
14,060.0	12,100.0	12,079.3	12,073.2	38.7	313.5	-90.62	-1,298.1	-668.5	468.3	118.5	349.88	1.339	Advise and Monitor	
14,100.0	12,100.0	12,079.7	12,073.7	38.8	313.5	-90.70	-1,298.1	-668.5	497.8	148.0	349.86	1.423	Advise and Monitor	
14,155.0	12,100.0	12,080.3	12,074.3	38.9	313.5	-90.80	-1,298.1	-668.5	540.6	190.8	349.85	1.545	Advise and Monitor	
14,200.0	12,100.0	12,080.8	12,074.7	39.1	313.5	-90.89	-1,298.1	-668.5	577.1	227.3	349.85	1.650	Advise and Monitor	
14,250.0	12,100.0	12,081.4	12,075.3	39.2	313.6	-90.98	-1,298.1	-668.5	619.1	269.2	349.86	1.769	Advise and Monitor	
14,300.0	12,100.0	12,081.9	12,075.8	39.4	313.6	-91.08	-1,298.1	-668.5	662.1	312.2	349.88	1.892	Advise and Monitor	
14,345.0	12,100.0	12,082.4	12,076.3	39.5	313.6	-91.17	-1,298.1	-668.5	701.6	351.7	349.91	2.005		
14,400.0	12,100.0	12,083.0	12,077.0	39.7	313.6	-91.28	-1,298.1	-668.5	750.7	400.8	349.94	2.145		
14,440.0	12,100.0	12,083.5	12,077.4	39.8	313.6	-91.36	-1,298.2	-668.5	787.0	437.0	349.96	2.249		
14,500.0	12,100.0	12,084.2	12,078.1	40.0	313.7	-91.48	-1,298.2	-668.5	841.9	491.9	350.01	2.405		
14,535.0	12,100.0	12,084.6	12,078.5	40.1	313.7	-91.55	-1,298.2	-668.5	874.3	524.3	350.03	2.498		
14,600.0	12,100.0	12,085.3	12,079.3	40.3	313.7	-91.68	-1,298.2	-668.5	934.9	584.9	350.08	2.671		
14,630.0	12,100.0	12,085.7	12,079.6	40.4	313.7	-91.74	-1,298.2	-668.5	963.1	613.0	350.10	2.751		

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-54.11	468.4	-647.3	799.0				
95.0	95.0	88.6	88.6	3.0	3.0	-54.10	468.5	-647.3	799.1	793.1	6.00	133.169	
100.0	100.0	93.5	93.5	3.0	3.0	-54.10	468.5	-647.3	799.1	793.1	6.00	133.169	
190.0	190.0	182.6	182.6	3.0	3.0	-54.09	468.7	-647.4	799.3	793.3	6.01	133.095	
200.0	200.0	192.2	192.2	3.0	3.0	-54.09	468.8	-647.4	799.3	793.3	6.01	133.079	
285.0	285.0	277.4	277.4	3.0	3.0	-54.08	469.0	-647.5	799.5	793.5	6.02	132.886	
300.0	300.0	292.7	292.7	3.0	3.0	-54.08	469.1	-647.5	799.6	793.5	6.02	132.839	
380.0	380.0	372.0	372.0	3.0	3.0	-54.07	469.3	-647.5	799.7	793.7	6.03	132.545	
400.0	400.0	392.3	392.3	3.0	3.0	-54.06	469.4	-647.6	799.8	793.8	6.04	132.452	
475.0	475.0	466.9	466.9	3.0	3.0	-54.06	469.6	-647.7	800.0	794.0	6.06	132.034	
500.0	500.0	491.9	491.9	3.1	3.0	-54.06	469.7	-647.8	800.1	794.0	6.07	131.872	
570.0	570.0	560.8	560.8	3.1	3.1	-54.05	469.8	-648.0	800.4	794.3	6.09	131.367	
600.0	600.0	591.0	591.0	3.1	3.1	-54.05	469.9	-648.1	800.5	794.4	6.11	131.126	
665.0	665.0	657.3	657.3	3.1	3.1	-54.05	470.2	-648.2	800.8	794.7	6.13	130.545	
700.0	700.0	693.5	693.5	3.1	3.1	-54.05	470.2	-648.3	800.9	794.7	6.15	130.203	
760.0	760.0	757.5	757.5	3.1	3.1	-54.06	470.1	-648.3	800.8	794.6	6.17	129.879	
800.0	800.0	798.0	798.0	3.2	3.1	-54.07	469.8	-648.3	800.6	794.5	6.17	129.705	
855.0	855.0	853.3	853.3	3.2	3.1	-54.08	469.5	-648.2	800.4	794.2	6.18	129.414	
900.0	900.0	897.5	897.5	3.2	3.1	-54.10	469.3	-648.2	800.3	794.1	6.20	129.138	
950.0	950.0	945.8	945.8	3.2	3.1	-54.12	469.0	-648.3	800.2	794.0	6.21	128.783	
1,000.0	1,000.0	994.7	994.7	3.2	3.1	-54.14	468.7	-648.4	800.1	793.9	6.23	128.389	
1,045.0	1,045.0	1,040.3	1,040.3	3.3	3.1	-54.16	468.5	-648.6	800.1	793.8	6.25	128.003	
1,099.6	1,099.6	1,094.3	1,094.2	3.3	3.1	-54.18	468.2	-648.7	800.0	793.8	6.27	127.523	
1,100.0	1,100.0	1,094.6	1,094.6	3.3	3.1	-54.18	468.2	-648.7	800.0	793.8	6.27	127.520	
1,140.0	1,140.0	1,134.5	1,134.5	3.3	3.1	-54.20	468.0	-648.9	800.1	793.8	6.29	127.140	
1,200.0	1,200.0	1,195.0	1,195.0	3.4	3.1	-54.22	467.8	-649.0	800.0	793.7	6.32	126.557	
1,235.0	1,235.0	1,230.2	1,230.2	3.4	3.1	-54.23	467.7	-649.1	800.0	793.7	6.34	126.219	
1,259.1	1,259.1	1,253.8	1,253.7	3.4	3.2	-54.23	467.6	-649.1	800.0	793.7	6.35	125.980	
1,300.0	1,300.0	1,293.9	1,293.9	3.4	3.2	-54.25	467.5	-649.3	800.1	793.7	6.37	125.533	
1,330.0	1,330.0	1,323.5	1,323.5	3.4	3.2	-54.26	467.4	-649.4	800.1	793.7	6.39	125.204	
1,400.0	1,400.0	1,393.3	1,393.3	3.5	3.2	-54.28	467.1	-649.7	800.2	793.8	6.43	124.402	
1,425.0	1,425.0	1,418.1	1,418.1	3.5	3.2	-54.29	467.0	-649.8	800.2	793.8	6.45	124.104	
1,500.0	1,500.0	1,492.1	1,492.1	3.5	3.2	-54.31	467.0	-650.1	800.4	793.9	6.50	123.139	
1,520.0	1,520.0	1,511.9	1,511.9	3.6	3.3	-54.31	466.9	-650.2	800.5	794.0	6.52	122.864	
1,600.0	1,600.0	1,590.7	1,590.7	3.6	3.3	-54.32	467.1	-650.5	800.9	794.3	6.58	121.702	
1,615.0	1,615.0	1,605.6	1,605.6	3.6	3.3	-54.32	467.2	-650.6	800.9	794.3	6.59	121.476	
1,700.0	1,700.0	1,690.8	1,690.8	3.7	3.3	-54.30	467.7	-650.8	801.4	794.7	6.67	120.233	
1,710.0	1,710.0	1,700.7	1,700.7	3.7	3.3	-54.29	467.8	-650.8	801.4	794.8	6.67	120.074	
1,800.0	1,800.0	1,789.0	1,789.0	3.8	3.3	-54.24	468.7	-650.8	802.0	795.3	6.75	118.799	
1,805.0	1,805.0	1,793.9	1,793.9	3.8	3.3	-54.23	468.8	-650.8	802.1	795.3	6.76	118.729	
1,900.0	1,900.0	1,888.6	1,888.6	3.9	3.4	-54.14	470.2	-650.6	802.7	795.9	6.84	117.403	
1,995.0	1,995.0	1,985.3	1,985.2	3.9	3.4	-54.01	472.1	-650.0	803.3	796.4	6.92	116.089	
2,000.0	2,000.0	1,990.1	1,990.1	3.9	3.4	-54.00	472.2	-649.9	803.4	796.4	6.92	116.021	
2,090.0	2,090.0	2,079.7	2,079.6	4.0	3.4	13.55	474.4	-649.0	802.5	795.4	7.15	112.174	
2,100.0	2,100.0	2,089.3	2,089.2	4.1	3.4	13.57	474.6	-648.9	802.3	795.1	7.19	111.593	
2,185.0	2,184.9	2,181.4	2,181.3	4.5	3.5	13.75	475.7	-648.5	798.5	790.6	7.83	101.979	
2,200.0	2,199.8	2,197.1	2,197.0	4.6	3.5	13.77	475.6	-648.5	797.5	789.5	7.96	100.207	
2,280.0	2,279.6	2,279.1	2,279.0	5.1	3.5	13.90	475.2	-648.4	790.6	782.2	8.49	93.174	
2,300.0	2,299.5	2,299.3	2,299.2	5.2	3.5	13.95	475.2	-648.3	788.6	779.9	8.62	91.443	
2,375.0	2,373.9	2,375.0	2,374.9	5.6	3.5	14.20	475.3	-647.5	779.4	770.4	9.08	85.814	
2,400.0	2,398.7	2,401.0	2,400.9	5.8	3.5	14.30	475.3	-647.2	775.9	766.7	9.24	83.972	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		100-Standard Keeper 104, 8683-MWD+IFR1+MS								Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Vertical	Measured Vertical	Reference	Offset	Highside									Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
2,470.0	2,467.9	2,469.6	2,469.5	6.2	3.5	14.61	475.6	-646.1	765.0	755.4	9.65	79.301			
2,500.0	2,497.5	2,499.0	2,498.9	6.3	3.5	14.77	475.8	-645.6	759.9	750.0	9.83	77.338			
2,565.0	2,561.3	2,563.4	2,563.2	6.7	3.5	15.16	476.3	-644.5	747.6	737.4	10.19	73.381			
2,600.2	2,595.8	2,597.3	2,597.2	6.9	3.5	15.40	476.7	-643.8	740.4	730.1	10.39	71.278			
2,660.0	2,654.3	2,657.3	2,657.1	7.0	3.6	15.78	477.6	-642.3	727.8	717.2	10.58	68.796			
2,700.0	2,693.4	2,695.4	2,695.2	7.2	3.6	16.05	478.1	-641.3	719.4	708.6	10.71	67.174			
2,755.0	2,747.2	2,749.5	2,749.3	7.3	3.6	16.44	479.1	-639.9	707.8	697.0	10.82	65.409			
2,800.0	2,791.2	2,793.4	2,793.1	7.3	3.6	16.77	479.9	-638.7	698.4	687.5	10.91	63.987			
2,850.0	2,840.2	2,842.0	2,841.8	7.4	3.6	17.15	480.7	-637.3	687.9	676.9	11.03	62.391			
2,900.0	2,889.1	2,889.5	2,889.3	7.5	3.7	17.51	481.4	-636.2	677.5	666.4	11.14	60.828			
2,945.0	2,933.1	2,933.6	2,933.3	7.6	3.7	17.80	481.6	-635.5	668.2	657.0	11.24	59.430			
3,000.0	2,986.9	2,986.6	2,986.3	7.7	3.7	18.14	481.7	-635.0	656.9	645.5	11.37	57.764			
3,040.0	3,026.0	3,025.0	3,024.7	7.8	3.7	18.38	481.7	-634.6	648.7	637.2	11.47	56.545			
3,100.0	3,084.7	3,083.4	3,083.1	7.9	3.7	18.78	481.8	-634.0	636.5	624.9	11.62	54.758			
3,135.0	3,118.9	3,117.3	3,117.0	8.0	3.7	19.02	481.9	-633.6	629.4	617.7	11.72	53.719			
3,200.0	3,182.5	3,181.3	3,181.0	8.2	3.8	19.49	482.1	-633.0	616.2	604.3	11.89	51.831			
3,230.0	3,211.8	3,210.9	3,210.6	8.3	3.8	19.71	482.2	-632.6	610.1	598.2	11.97	50.962			
3,300.0	3,280.3	3,277.2	3,276.9	8.4	3.8	20.27	482.7	-631.6	596.0	583.8	12.17	48.968			
3,325.0	3,304.8	3,301.9	3,301.6	8.5	3.9	20.50	483.0	-631.2	591.0	578.8	12.24	48.269			
3,400.0	3,378.1	3,371.4	3,371.1	8.7	3.9	21.17	484.2	-630.1	576.4	563.9	12.47	46.222			
3,420.0	3,397.7	3,391.2	3,390.9	8.7	3.9	21.38	484.6	-629.8	572.6	560.0	12.53	45.690			
3,500.0	3,475.9	3,470.7	3,470.3	8.9	4.0	22.21	486.1	-628.6	557.2	544.5	12.78	43.612			
3,515.0	3,490.6	3,485.4	3,485.0	9.0	4.0	22.34	486.2	-628.5	554.3	541.5	12.82	43.225			
3,600.0	3,573.8	3,570.0	3,569.7	9.2	4.0	23.07	486.1	-628.4	537.9	524.8	13.09	41.096			
3,610.0	3,583.5	3,580.0	3,579.6	9.2	4.0	23.16	486.1	-628.4	535.9	522.8	13.12	40.850			
3,700.0	3,671.6	3,669.2	3,668.8	9.5	4.1	24.03	486.2	-627.9	518.4	505.0	13.41	38.671			
3,705.0	3,676.5	3,674.1	3,673.8	9.5	4.1	24.08	486.2	-627.9	517.4	504.0	13.42	38.551			
3,800.0	3,769.4	3,771.0	3,770.6	9.8	4.1	25.25	486.8	-625.9	498.5	484.8	13.73	36.312			
3,895.0	3,862.3	3,858.9	3,858.4	10.1	4.2	26.45	487.4	-623.7	479.7	465.6	14.06	34.123			
3,900.0	3,867.2	3,863.4	3,863.0	10.1	4.2	26.51	487.4	-623.7	478.7	464.6	14.07	34.013			
3,990.0	3,955.2	3,950.0	3,949.6	10.3	4.3	27.64	488.0	-623.0	461.9	447.6	14.39	32.106			
4,000.0	3,965.0	3,959.8	3,959.4	10.4	4.3	27.78	488.1	-622.9	460.1	445.7	14.42	31.901			
4,085.0	4,048.2	4,042.8	4,042.4	10.6	4.3	29.05	489.2	-621.6	444.5	429.7	14.72	30.190			
4,100.0	4,062.8	4,057.4	4,056.9	10.7	4.3	29.29	489.4	-621.3	441.7	427.0	14.78	29.897			
4,180.0	4,141.1	4,137.7	4,137.2	10.9	4.4	30.68	490.6	-619.7	427.2	412.2	15.06	28.375			
4,200.0	4,160.6	4,158.9	4,158.5	11.0	4.4	31.07	490.9	-619.1	423.5	408.4	15.12	28.004			
4,275.0	4,234.0	4,237.6	4,237.1	11.2	4.5	32.61	491.4	-616.6	409.1	393.7	15.38	26.605			
4,300.0	4,258.4	4,262.2	4,261.7	11.3	4.5	33.12	491.4	-615.7	404.2	388.7	15.46	26.137			
4,370.0	4,326.9	4,331.7	4,331.1	11.5	4.5	34.48	490.7	-613.6	390.3	374.6	15.71	24.843			
4,400.0	4,356.3	4,359.7	4,359.1	11.6	4.5	34.94	490.0	-613.5	384.5	368.6	15.82	24.300			
4,465.0	4,419.8	4,423.1	4,422.5	11.8	4.6	35.94	488.2	-613.7	372.0	355.9	16.06	23.167			
4,500.0	4,454.1	4,457.1	4,456.4	11.9	4.6	36.52	487.3	-613.8	365.3	349.1	16.18	22.574			
4,560.0	4,512.8	4,515.0	4,514.4	12.1	4.6	37.59	486.0	-613.8	354.1	337.7	16.40	21.589			
4,600.0	4,551.9	4,553.8	4,553.1	12.3	4.6	38.34	485.1	-613.8	346.7	330.1	16.55	20.952			
4,655.0	4,605.7	4,605.7	4,605.1	12.4	4.6	39.39	484.0	-614.0	336.8	320.0	16.75	20.104			
4,700.0	4,649.7	4,649.5	4,648.9	12.6	4.6	40.30	483.1	-614.2	328.9	311.9	16.92	19.442			
4,750.0	4,698.6	4,698.7	4,698.0	12.8	4.6	41.39	482.2	-614.4	320.2	303.1	17.10	18.728			
4,800.0	4,747.5	4,747.9	4,747.2	12.9	4.6	42.52	481.2	-614.7	311.6	294.3	17.28	18.038			
4,845.0	4,791.5	4,791.9	4,791.2	13.1	4.6	43.59	480.3	-615.0	304.0	286.6	17.44	17.434			
4,900.0	4,845.3	4,845.8	4,845.0	13.3	4.7	44.95	479.1	-615.3	294.7	277.1	17.63	16.714			
4,940.0	4,884.5	4,885.6	4,884.8	13.4	4.7	46.00	478.2	-615.6	288.1	270.3	17.77	16.208			

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-Standard Keeper 104, 8683-MWD+IFR1+MS						Rule Assigned:					Offset Well Error:	3.0 usft
Reference		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)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,943.1	4,944.1	4,943.4	13.6	4.7	47.64	476.8	-616.0	278.3	260.3	17.99	15.470		
5,035.0	4,977.4	4,978.4	4,977.7	13.7	4.7	48.66	475.9	-616.3	272.6	254.5	18.11	15.054		
5,100.0	5,041.0	5,041.6	5,040.8	14.0	4.7	50.64	474.5	-616.7	262.4	244.1	18.34	14.313		
5,130.0	5,070.3	5,071.3	5,070.5	14.1	4.7	51.63	473.8	-616.8	257.8	239.4	18.44	13.985		
5,200.0	5,138.8	5,139.2	5,138.4	14.3	4.8	54.01	472.2	-617.3	247.5	228.8	18.68	13.252		
5,225.0	5,163.2	5,163.7	5,162.9	14.4	4.8	54.91	471.6	-617.5	243.9	225.1	18.76	13.002		
5,300.0	5,236.6	5,237.2	5,236.4	14.6	4.8	57.77	469.9	-618.2	233.5	214.5	19.00	12.290		
5,320.0	5,256.1	5,256.9	5,256.0	14.7	4.8	58.57	469.4	-618.3	230.8	211.8	19.06	12.108		
5,400.0	5,334.4	5,334.7	5,333.8	15.0	4.8	61.94	467.6	-619.0	220.7	201.4	19.31	11.426		
5,415.0	5,349.1	5,349.3	5,348.4	15.0	4.9	62.60	467.3	-619.1	218.9	199.5	19.36	11.306		
5,500.0	5,432.2	5,432.4	5,431.5	15.3	4.9	66.58	465.4	-619.9	209.2	189.6	19.61	10.671		
5,510.0	5,442.0	5,442.4	5,441.5	15.4	4.9	67.08	465.2	-620.0	208.2	188.5	19.64	10.602		
5,600.0	5,530.0	5,530.5	5,529.6	15.7	4.9	71.74	463.1	-620.7	199.3	179.4	19.88	10.023		
5,605.0	5,534.9	5,535.3	5,534.3	15.7	4.9	72.00	463.0	-620.8	198.8	178.9	19.90	9.993		
5,700.0	5,627.8	5,628.1	5,627.1	16.0	5.0	77.36	460.8	-621.5	191.2	171.0	20.14	9.491		
5,795.0	5,720.8	5,720.9	5,719.9	16.4	5.0	83.08	458.6	-622.3	185.3	165.0	20.38	9.097		
5,800.0	5,725.7	5,725.8	5,724.8	16.4	5.0	83.39	458.5	-622.3	185.1	164.7	20.39	9.079		
5,890.0	5,813.7	5,813.8	5,812.7	16.7	5.1	89.06	456.5	-623.1	181.6	161.0	20.61	8.811		
5,900.0	5,823.5	5,823.4	5,822.4	16.8	5.1	89.69	456.3	-623.2	181.3	160.7	20.63	8.787		
5,985.0	5,906.6	5,906.6	5,905.6	17.1	5.1	95.19	454.5	-624.0	180.0	159.1	20.85	8.630		
6,000.0	5,921.3	5,921.5	5,920.4	17.1	5.2	96.17	454.1	-624.2	179.9	159.0	20.89	8.610		
6,011.1	5,932.2	5,932.3	5,931.3	17.2	5.2	96.89	453.9	-624.3	179.9	159.0	20.92	8.597 CC, ES		
6,080.0	5,999.5	5,999.9	5,998.8	17.4	5.2	101.35	452.4	-625.1	180.5	159.4	21.12	8.545		
6,100.0	6,019.1	6,019.2	6,018.2	17.5	5.2	102.62	452.0	-625.3	180.8	159.7	21.18	8.539 SF		
6,175.0	6,092.5	6,092.6	6,091.5	17.7	5.3	107.36	450.3	-626.2	183.1	161.7	21.41	8.549		
6,200.0	6,116.9	6,117.2	6,116.1	17.8	5.3	108.92	449.8	-626.5	184.1	162.6	21.50	8.564		
6,270.0	6,185.4	6,185.5	6,184.4	18.1	5.3	113.11	448.4	-627.3	187.7	166.0	21.74	8.634		
6,300.0	6,214.7	6,215.0	6,213.8	18.2	5.3	114.87	447.8	-627.8	189.6	167.7	21.86	8.674		
6,365.0	6,278.3	6,278.6	6,277.4	18.4	5.4	118.51	446.6	-628.7	194.2	172.1	22.11	8.785		
6,400.0	6,312.5	6,313.2	6,312.0	18.6	5.4	120.43	445.8	-629.2	197.0	174.7	22.25	8.853		
6,460.0	6,371.2	6,371.9	6,370.7	18.8	5.4	123.56	444.6	-630.0	202.3	179.8	22.50	8.989		
6,500.0	6,410.3	6,410.9	6,409.7	18.9	5.5	125.54	443.8	-630.6	206.1	183.4	22.67	9.091		
6,555.0	6,464.1	6,464.8	6,463.6	19.1	5.5	128.16	442.7	-631.4	211.8	188.8	22.91	9.242		
6,600.0	6,508.2	6,508.8	6,507.6	19.3	5.5	130.16	442.0	-632.1	216.7	193.6	23.11	9.377		
6,650.0	6,557.1	6,557.9	6,556.6	19.5	5.6	132.31	441.0	-632.9	222.6	199.2	23.34	9.534		
6,700.0	6,606.0	6,607.0	6,605.7	19.7	5.6	134.34	440.1	-633.7	228.6	205.1	23.58	9.698		
6,745.0	6,650.0	6,651.5	6,650.2	19.8	5.6	136.10	439.2	-634.5	234.3	210.5	23.79	9.850		
6,800.0	6,703.8	6,704.6	6,703.3	20.0	5.7	138.09	438.2	-635.3	241.6	217.5	24.04	10.048		
6,840.0	6,742.9	6,743.4	6,742.1	20.2	5.7	139.47	437.5	-635.9	247.1	222.9	24.23	10.200		
6,900.0	6,801.6	6,797.7	6,796.3	20.4	5.7	141.25	436.8	-636.4	256.1	231.6	24.47	10.466		
6,935.0	6,835.8	6,830.6	6,829.2	20.5	5.8	142.18	436.9	-636.3	262.0	237.3	24.62	10.640		
6,942.7	6,843.4	6,838.1	6,836.8	20.5	5.8	142.39	436.9	-636.3	263.3	238.6	24.66	10.677		
7,000.0	6,899.5	6,893.5	6,892.2	20.7	5.8	143.83	437.4	-636.1	273.0	248.1	24.92	10.956		
7,030.0	6,928.9	6,923.1	6,921.8	20.8	5.8	144.52	437.7	-635.9	278.0	252.9	25.06	11.094		
7,100.0	6,997.7	6,992.0	6,990.6	21.1	5.8	145.98	438.3	-635.7	289.2	263.8	25.38	11.395		
7,125.0	7,022.2	7,016.4	7,015.1	21.2	5.8	146.44	438.5	-635.6	293.0	267.6	25.49	11.497		
7,200.0	7,096.2	7,090.3	7,089.0	21.5	5.9	147.73	439.1	-635.2	304.2	278.4	25.83	11.780		
7,220.0	7,115.9	7,110.5	7,109.2	21.5	5.9	148.05	439.2	-635.2	307.1	281.2	25.92	11.848		
7,300.0	7,194.9	7,189.6	7,188.3	21.8	5.9	149.18	439.8	-634.9	317.9	291.7	26.28	12.100		
7,315.0	7,209.8	7,204.5	7,203.1	21.9	5.9	149.38	439.9	-634.9	319.9	293.5	26.34	12.143		
7,400.0	7,294.0	7,288.5	7,287.2	22.2	5.9	150.38	440.4	-634.6	330.3	303.6	26.71	12.364		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8683-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)						
7,410.0	7,303.9	7,298.5	7,297.1	22.2	6.0	150.49	440.4	-634.6	331.5	304.7	26.76	12.387		
7,500.0	7,393.3	7,387.6	7,386.3	22.5	6.0	151.37	440.8	-634.2	341.3	314.2	27.15	12.572		
7,505.0	7,398.2	7,392.5	7,391.2	22.5	6.0	151.41	440.8	-634.2	341.8	314.7	27.17	12.581		
7,600.0	7,492.7	7,487.0	7,485.7	22.9	6.1	152.19	441.0	-633.7	350.9	323.3	27.58	12.724		
7,695.0	7,587.4	7,581.0	7,579.7	23.2	6.1	152.81	441.2	-633.2	358.7	330.7	27.98	12.821		
7,700.0	7,592.3	7,585.9	7,584.6	23.2	6.1	152.84	441.2	-633.2	359.1	331.1	28.00	12.825		
7,790.0	7,682.1	7,675.1	7,673.7	23.5	6.2	153.30	441.3	-632.6	365.3	336.9	28.38	12.874		
7,800.0	7,692.1	7,685.1	7,683.7	23.6	6.2	153.34	441.3	-632.5	365.9	337.5	28.42	12.877		
7,885.0	7,777.0	7,769.9	7,768.6	23.8	6.3	153.68	441.3	-631.8	370.6	341.8	28.77	12.880		
7,900.0	7,792.0	7,784.7	7,783.4	23.9	6.3	153.73	441.3	-631.7	371.3	342.5	28.83	12.878		
7,980.0	7,871.9	7,864.6	7,863.2	24.2	6.3	153.96	441.2	-631.0	374.5	345.4	29.16	12.842		
8,000.0	7,891.9	7,884.4	7,883.1	24.2	6.4	154.01	441.1	-630.8	375.2	345.9	29.25	12.829		
8,075.0	7,966.9	7,959.4	7,958.1	24.5	6.4	154.16	440.8	-630.1	377.1	347.5	29.55	12.761		
8,100.0	7,991.9	7,984.6	7,983.3	24.6	6.4	154.20	440.7	-629.9	377.5	347.9	29.66	12.731		
8,143.1	8,035.0	8,027.6	8,026.3	24.7	6.5	86.88	440.6	-629.5	378.0	348.2	29.83	12.675		
8,170.0	8,061.9	8,054.5	8,053.2	24.8	6.5	86.90	440.5	-629.3	378.3	348.4	29.93	12.638		
8,200.0	8,091.9	8,084.6	8,083.2	24.9	6.5	86.92	440.3	-629.0	378.5	348.5	30.05	12.597		
8,265.0	8,156.9	8,150.2	8,148.9	25.1	6.6	86.97	440.0	-628.5	379.1	348.8	30.32	12.505		
8,300.0	8,191.9	8,185.3	8,183.9	25.2	6.6	87.00	439.8	-628.2	379.3	348.9	30.46	12.455		
8,360.0	8,251.9	8,246.0	8,244.6	25.3	6.7	87.06	439.5	-627.8	379.7	349.0	30.70	12.366		
8,400.0	8,291.9	8,286.4	8,285.1	25.5	6.7	87.10	439.2	-627.7	379.8	349.0	30.86	12.307		
8,455.0	8,346.9	8,341.1	8,339.8	25.6	6.7	87.17	438.8	-627.4	380.0	348.9	31.08	12.227		
8,500.0	8,391.9	8,387.1	8,385.7	25.8	6.8	87.23	438.4	-627.3	380.2	348.9	31.27	12.159		
8,550.0	8,441.9	8,436.7	8,435.3	25.9	6.8	87.30	437.9	-627.1	380.3	348.9	31.46	12.088		
8,600.0	8,491.9	8,486.6	8,485.3	26.1	6.9	87.38	437.4	-626.9	380.5	348.8	31.66	12.017		
8,645.0	8,536.9	8,530.8	8,529.4	26.2	7.2	87.46	436.9	-626.7	380.7	348.8	31.86	11.946		
8,700.0	8,591.9	8,584.2	8,582.8	26.4	8.7	87.86	434.2	-626.2	381.1	348.9	32.16	11.850		
8,740.0	8,631.9	8,622.8	8,621.2	26.5	9.8	88.40	430.6	-625.6	381.5	349.2	32.37	11.785		
8,800.0	8,691.9	8,683.0	8,680.8	26.7	11.7	89.66	422.3	-624.4	382.6	349.9	32.70	11.700		
8,835.0	8,726.9	8,711.7	8,708.8	26.8	12.2	90.54	416.4	-623.7	383.6	350.8	32.75	11.712		
8,900.0	8,791.9	8,768.5	8,762.8	27.0	12.9	93.14	398.9	-621.7	386.6	353.7	32.86	11.764		
8,930.0	8,821.9	8,794.7	8,787.0	27.1	13.1	94.60	389.0	-620.7	388.7	355.7	32.93	11.802		
9,000.0	8,891.9	8,847.5	8,834.5	27.3	13.3	97.91	366.0	-618.6	395.6	362.5	33.09	11.957		
9,025.0	8,916.9	8,868.0	8,852.5	27.4	13.4	99.30	356.2	-617.3	399.3	366.1	33.18	12.033		
9,100.0	8,991.9	8,918.0	8,895.2	27.6	13.5	102.83	330.4	-613.7	413.6	380.2	33.46	12.361		
9,120.0	9,011.9	8,931.8	8,906.6	27.7	13.6	103.83	322.9	-612.6	418.3	384.7	33.56	12.462		
9,200.0	9,091.9	8,986.6	8,951.0	28.0	13.7	107.99	290.8	-609.0	439.8	405.8	34.03	12.924		
9,215.0	9,106.9	8,994.9	8,957.4	28.0	13.8	108.64	285.6	-608.5	444.6	410.5	34.12	13.032		
9,300.0	9,191.9	9,031.2	8,984.5	28.3	13.9	111.54	261.7	-605.8	476.2	441.7	34.51	13.802		
9,310.0	9,201.9	9,034.6	8,987.0	28.3	13.9	111.81	259.3	-605.5	480.5	446.0	34.54	13.911		
9,400.0	9,291.9	9,060.0	9,004.5	28.6	14.1	113.86	241.2	-602.7	524.3	489.5	34.82	15.058		
9,405.0	9,296.9	9,060.0	9,004.5	28.6	14.1	113.86	241.2	-602.7	527.0	492.2	34.82	15.137		
9,500.0	9,391.9	9,107.0	9,034.2	28.9	14.3	117.62	205.3	-596.6	581.9	546.5	35.40	16.438		
9,595.0	9,486.9	9,127.4	9,046.0	29.2	14.4	119.22	188.9	-593.8	643.3	607.7	35.57	18.086		
9,600.0	9,491.9	9,128.9	9,046.9	29.2	14.4	119.33	187.7	-593.6	646.7	611.1	35.58	18.175		
9,690.0	9,581.9	9,149.0	9,058.1	29.5	14.4	120.84	171.3	-590.4	710.0	674.3	35.76	19.858		
9,700.0	9,591.9	9,149.0	9,058.1	29.6	14.4	120.84	171.3	-590.4	717.4	681.6	35.75	20.066		
9,785.0	9,676.9	9,182.0	9,075.6	29.8	14.5	123.13	144.0	-584.3	781.0	744.9	36.03	21.674		
9,800.0	9,691.9	9,182.0	9,075.6	29.9	14.5	123.13	144.0	-584.3	792.5	756.4	36.03	21.996		
9,880.0	9,771.9	9,206.4	9,088.2	30.1	14.5	124.68	123.8	-578.9	855.1	818.8	36.24	23.596		
9,900.0	9,791.9	9,215.0	9,092.5	30.2	14.5	125.20	116.6	-576.9	871.0	834.7	36.31	23.985		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #10H - OWB - AWP												Offset Site Error:	0.0 usft		
Survey Program:		100-Standard Keeper 104, 8683-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft		
Reference		Offset		Semi Major Axis											
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)		
9,975.0	9,866.9	9,229.4	9,099.6	30.4	14.5	126.04	104.6	-573.5	931.6	895.1			36.46	25.552	
10,000.0	9,891.9	9,234.6	9,102.1	30.5	14.5	126.34	100.2	-572.3	952.1	915.6			36.51	26.075	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	56.98	482.6	742.6	885.7				
95.0	95.0	89.9	89.9	3.0	3.0	57.01	482.1	742.7	885.5	879.5	6.00	147.574	
100.0	100.0	95.1	95.1	3.0	3.0	57.01	482.1	742.7	885.5	879.5	6.00	147.570	
190.0	190.0	185.2	185.2	3.0	3.0	57.06	481.3	742.9	885.2	879.2	6.00	147.439	
200.0	200.0	194.8	194.8	3.0	3.0	57.07	481.2	742.9	885.1	879.1	6.00	147.417	
285.0	285.0	276.7	276.7	3.0	3.0	57.12	480.5	743.1	884.9	878.9	6.01	147.207	
300.0	300.0	292.0	292.0	3.0	3.0	57.12	480.4	743.2	884.9	878.9	6.01	147.169	
380.0	380.0	373.3	373.3	3.0	3.0	57.16	479.8	743.4	884.8	878.8	6.02	146.889	
400.0	400.0	392.5	392.5	3.0	3.0	57.17	479.7	743.4	884.8	878.7	6.03	146.810	
416.0	416.0	407.6	407.6	3.0	3.0	57.17	479.6	743.5	884.7	878.7	6.03	146.749 CC	
475.0	475.0	462.6	462.6	3.0	3.0	57.20	479.3	743.8	884.9	878.8	6.04	146.551	
500.0	500.0	486.1	486.1	3.1	3.0	57.21	479.3	744.0	885.0	879.0	6.04	146.477	
570.0	570.0	554.4	554.4	3.1	3.1	57.23	479.3	744.6	885.6	879.5	6.06	146.246	
600.0	600.0	584.5	584.5	3.1	3.1	57.24	479.3	744.9	885.8	879.7	6.06	146.119	
665.0	665.0	647.5	647.5	3.1	3.1	57.27	479.2	745.6	886.4	880.3	6.08	145.814	
700.0	700.0	684.2	684.1	3.1	3.1	57.29	479.2	746.0	886.7	880.6	6.09	145.612	
760.0	760.0	744.6	744.6	3.1	3.1	57.31	479.2	746.6	887.2	881.1	6.11	145.214	
800.0	800.0	783.8	783.8	3.2	3.1	57.32	479.1	747.0	887.5	881.4	6.12	144.932	
855.0	855.0	838.9	838.9	3.2	3.1	57.35	479.1	747.6	888.0	881.8	6.15	144.496	
900.0	900.0	886.7	886.7	3.2	3.1	57.36	479.1	748.1	888.3	882.2	6.17	144.084	
950.0	950.0	936.8	936.7	3.2	3.2	57.38	479.0	748.4	888.6	882.4	6.19	143.599	
1,000.0	1,000.0	979.9	979.8	3.2	3.2	57.38	479.2	748.7	889.0	882.8	6.21	143.136	
1,045.0	1,045.0	1,022.3	1,022.3	3.3	3.2	57.37	479.6	749.2	889.7	883.4	6.23	142.700	
1,100.0	1,100.0	1,076.7	1,076.6	3.3	3.2	57.35	480.4	749.8	890.6	884.3	6.27	142.131	
1,140.0	1,140.0	1,117.7	1,117.7	3.3	3.2	57.33	481.1	750.1	891.3	885.0	6.29	141.680	
1,200.0	1,200.0	1,182.1	1,182.0	3.4	3.2	57.30	481.9	750.6	892.1	885.7	6.33	140.917	
1,235.0	1,235.0	1,219.5	1,219.4	3.4	3.2	57.27	482.4	750.7	892.4	886.0	6.35	140.464	
1,300.0	1,300.0	1,291.9	1,291.8	3.4	3.2	57.15	484.2	749.9	892.7	886.3	6.39	139.680	
1,330.0	1,330.0	1,327.4	1,327.3	3.4	3.2	57.06	485.3	749.1	892.6	886.2	6.41	139.307	
1,400.0	1,400.0	1,394.3	1,394.1	3.5	3.2	56.88	487.5	747.4	892.3	885.9	6.44	138.467	
1,425.0	1,425.0	1,419.4	1,419.2	3.5	3.2	56.82	488.3	746.7	892.2	885.8	6.46	138.155	
1,500.0	1,500.0	1,496.2	1,495.9	3.5	3.2	56.63	490.6	745.0	892.0	885.5	6.50	137.200	
1,520.0	1,520.0	1,517.2	1,516.9	3.6	3.2	56.59	491.0	744.5	891.9	885.4	6.51	136.937	
1,600.0	1,600.0	1,595.0	1,594.7	3.6	3.2	56.45	492.7	743.0	891.5	884.9	6.56	135.890	
1,615.0	1,615.0	1,610.3	1,610.0	3.6	3.2	56.42	493.0	742.7	891.4	884.9	6.57	135.687	
1,700.0	1,700.0	1,696.0	1,695.6	3.7	3.3	56.26	494.9	740.9	891.0	884.4	6.62	134.511	
1,710.0	1,710.0	1,705.5	1,705.2	3.7	3.3	56.24	495.1	740.7	890.9	884.3	6.63	134.373	
1,800.0	1,800.0	1,797.6	1,797.2	3.8	3.3	56.06	497.2	738.7	890.5	883.8	6.69	133.077	
1,805.0	1,805.0	1,802.9	1,802.5	3.8	3.3	56.05	497.3	738.6	890.5	883.8	6.70	133.004	
1,900.0	1,900.0	1,908.2	1,907.7	3.9	3.3	55.85	499.0	735.8	889.2	882.4	6.76	131.529	
1,995.0	1,995.0	2,004.3	2,003.8	3.9	3.3	55.68	500.3	732.8	887.4	880.6	6.83	130.001	
2,000.0	2,000.0	2,010.5	2,010.0	3.9	3.3	55.67	500.4	732.6	887.3	880.5	6.83	129.918	
2,090.0	2,090.0	2,106.1	2,105.5	4.0	3.3	123.07	499.7	729.9	885.7	878.8	6.90	128.389	
2,100.0	2,100.0	2,116.2	2,115.7	4.1	3.3	123.09	499.6	729.7	885.6	878.7	6.90	128.383	
2,143.5	2,143.5	2,160.0	2,159.4	4.2	3.4	123.18	499.0	728.6	885.4	878.4	6.97	127.020 ES	
2,185.0	2,184.9	2,200.5	2,199.9	4.5	3.4	123.29	498.6	727.6	885.6	878.6	7.02	126.110	
2,200.0	2,199.8	2,216.2	2,215.6	4.6	3.4	123.34	498.4	727.2	885.7	878.7	7.04	125.863	
2,280.0	2,279.6	2,291.0	2,290.4	5.1	3.4	123.63	497.6	725.4	887.4	880.2	7.18	123.590	
2,300.0	2,299.5	2,310.1	2,309.5	5.2	3.4	123.72	497.4	725.1	888.1	880.9	7.22	123.055	
2,375.0	2,373.9	2,386.1	2,385.5	5.6	3.4	124.13	496.7	723.5	891.4	884.0	7.38	120.758	
2,400.0	2,398.7	2,410.2	2,409.5	5.8	3.4	124.27	496.4	723.1	892.7	885.3	7.44	119.996	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #11H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8607-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (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)			
2,470.0	2,467.9	2,475.0	2,474.3	6.2	3.5	124.72	495.7	722.1	897.4	889.8	7.62	117.766	
2,500.0	2,497.5	2,503.3	2,502.7	6.3	3.5	124.93	495.5	721.7	899.9	892.2	7.70	116.822	
2,565.0	2,561.3	2,569.8	2,569.2	6.7	3.5	125.47	495.0	720.7	905.8	897.9	7.90	114.661	
2,600.2	2,595.8	2,603.8	2,603.1	6.9	3.5	125.76	494.6	720.2	909.4	901.4	8.01	113.505	
2,660.0	2,654.3	2,659.7	2,659.0	7.0	3.5	126.37	494.0	719.6	915.9	907.7	8.17	112.073	
2,700.0	2,693.4	2,699.3	2,698.6	7.2	3.5	126.79	493.7	719.1	920.3	912.1	8.28	111.112	
2,755.0	2,747.2	2,756.9	2,756.2	7.3	3.6	127.39	493.1	718.4	926.4	918.0	8.44	109.755	
2,800.0	2,791.2	2,804.6	2,803.9	7.3	3.6	127.87	492.7	717.5	931.3	922.7	8.57	108.663	
2,850.0	2,840.2	2,856.0	2,855.3	7.4	3.6	128.37	492.4	716.2	936.6	927.8	8.72	107.365	
2,900.0	2,889.1	2,904.5	2,903.8	7.5	3.6	128.83	492.1	715.0	941.9	933.0	8.87	106.138	
2,945.0	2,933.1	2,944.7	2,944.0	7.6	3.7	129.22	491.9	714.1	946.8	937.8	9.02	105.018	
3,000.0	2,986.9	2,993.3	2,992.6	7.7	3.7	129.69	491.6	713.2	953.2	944.0	9.19	103.740	
3,040.0	3,026.0	3,030.3	3,029.5	7.8	3.7	130.06	491.1	712.9	958.1	948.7	9.32	102.782	
3,100.0	3,084.7	3,085.7	3,084.9	7.9	3.7	130.62	490.4	712.6	965.6	956.0	9.52	101.432	
3,135.0	3,118.9	3,118.6	3,117.9	8.0	3.8	130.95	490.0	712.5	970.1	960.5	9.64	100.647	
3,200.0	3,182.5	3,179.8	3,179.0	8.2	3.8	131.55	489.2	712.5	978.7	968.9	9.86	99.281	
3,230.0	3,211.8	3,208.9	3,208.2	8.3	3.8	131.84	488.8	712.5	982.8	972.8	9.96	98.643	
3,300.0	3,280.3	3,273.7	3,272.9	8.4	3.8	132.46	488.1	712.6	992.5	982.3	10.20	97.284	
3,325.0	3,304.8	3,298.7	3,298.0	8.5	3.9	132.69	488.1	712.6	996.0	985.7	10.29	96.770 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #12H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8582-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	57.99	482.9	772.6	911.1					
95.0	95.0	84.7	84.7	3.0	3.0	57.98	483.1	772.6	911.2	905.2	6.00	151.860		
100.0	100.0	89.6	89.6	3.0	3.0	57.98	483.1	772.6	911.2	905.2	6.00	151.861		
190.0	190.0	177.0	177.0	3.0	3.0	57.96	483.5	772.8	911.6	905.6	6.00	151.817		
200.0	200.0	186.2	186.2	3.0	3.0	57.96	483.6	772.8	911.6	905.6	6.01	151.806		
285.0	285.0	271.9	271.9	3.0	3.0	57.93	484.3	773.1	912.3	906.3	6.02	151.660		
300.0	300.0	286.6	286.6	3.0	3.0	57.93	484.4	773.1	912.4	906.4	6.02	151.618		
380.0	380.0	362.2	362.2	3.0	3.0	57.91	485.1	773.5	913.1	907.0	6.03	151.371		
400.0	400.0	381.4	381.4	3.0	3.0	57.90	485.3	773.6	913.3	907.2	6.04	151.298		
475.0	475.0	455.8	455.8	3.0	3.0	57.87	486.2	774.1	914.2	908.1	6.06	150.961		
500.0	500.0	478.4	478.3	3.1	3.0	57.86	486.5	774.3	914.5	908.5	6.06	150.842		
570.0	570.0	545.6	545.6	3.1	3.1	57.85	487.2	775.1	915.6	909.6	6.09	150.445		
600.0	600.0	577.4	577.4	3.1	3.1	57.83	487.7	775.4	916.2	910.1	6.10	150.229		
665.0	665.0	665.5	665.4	3.1	3.1	57.80	488.3	775.6	916.5	910.4	6.12	149.719		
700.0	700.0	711.9	711.8	3.1	3.1	57.79	488.2	774.8	916.0	909.8	6.12	149.577		
760.0	760.0	772.3	772.2	3.1	3.1	57.76	487.7	773.4	914.5	908.4	6.13	149.138		
800.0	800.0	810.7	810.6	3.2	3.1	57.75	487.5	772.5	913.7	907.5	6.14	148.815		
855.0	855.0	867.0	866.9	3.2	3.1	57.72	487.3	771.3	912.5	906.4	6.15	148.333		
900.0	900.0	908.0	907.9	3.2	3.1	57.70	487.1	770.4	911.6	905.4	6.16	147.886		
950.0	950.0	957.1	957.0	3.2	3.1	57.68	486.9	769.5	910.8	904.6	6.18	147.404		
1,000.0	1,000.0	1,008.4	1,008.3	3.2	3.1	57.65	486.8	768.6	909.9	903.7	6.20	146.868		
1,045.0	1,045.0	1,054.7	1,054.5	3.3	3.1	57.62	486.7	767.6	909.1	902.9	6.21	146.339		
1,100.0	1,100.0	1,107.1	1,106.9	3.3	3.1	57.60	486.5	766.6	908.1	901.8	6.23	145.655		
1,140.0	1,140.0	1,147.8	1,147.6	3.3	3.1	57.57	486.5	765.8	907.4	901.1	6.25	145.135		
1,200.0	1,200.0	1,209.0	1,208.8	3.4	3.2	57.54	486.3	764.5	906.3	900.0	6.28	144.292		
1,235.0	1,235.0	1,241.7	1,241.5	3.4	3.2	57.52	486.2	763.9	905.6	899.3	6.30	143.789		
1,300.0	1,300.0	1,308.8	1,308.7	3.4	3.2	57.50	486.0	762.7	904.6	898.3	6.33	142.813		
1,330.0	1,330.0	1,336.7	1,336.5	3.4	3.2	57.49	485.8	762.2	904.0	897.7	6.35	142.341		
1,400.0	1,400.0	1,396.8	1,396.6	3.5	3.2	57.51	485.2	761.9	903.3	896.9	6.39	141.349		
1,425.0	1,425.0	1,422.6	1,422.4	3.5	3.2	57.54	484.7	762.1	903.2	896.8	6.41	141.007		
1,500.0	1,500.0	1,493.6	1,493.4	3.5	3.2	57.67	482.9	763.0	902.9	896.5	6.45	140.034		
1,520.0	1,520.0	1,514.7	1,514.5	3.6	3.2	57.71	482.4	763.2	902.9	896.4	6.46	139.765		
1,600.0	1,600.0	1,594.9	1,594.6	3.6	3.2	57.85	480.3	764.1	902.5	896.0	6.51	138.657		
1,615.0	1,615.0	1,608.9	1,608.6	3.6	3.2	57.88	479.9	764.3	902.5	896.0	6.52	138.458		
1,700.0	1,700.0	1,696.9	1,696.6	3.7	3.2	58.03	477.7	765.5	902.3	895.7	6.57	137.279		
1,710.0	1,710.0	1,707.1	1,706.8	3.7	3.2	58.05	477.5	765.6	902.3	895.7	6.58	137.131		
1,800.0	1,800.0	1,794.9	1,794.6	3.8	3.3	58.21	475.1	766.7	901.9	895.3	6.64	135.851		
1,805.0	1,805.0	1,800.2	1,799.9	3.8	3.3	58.22	474.9	766.7	901.9	895.3	6.64	135.776		
1,900.0	1,900.0	1,894.5	1,894.1	3.9	3.3	58.41	472.4	768.0	901.6	894.9	6.71	134.402		
1,949.5	1,949.5	1,941.7	1,941.3	3.9	3.3	58.49	471.2	768.6	901.5	894.8	6.74	133.690 CC, ES		
1,995.0	1,995.0	1,981.1	1,980.7	3.9	3.3	58.53	470.7	769.1	901.7	894.9	6.77	133.116		
2,000.0	2,000.0	1,986.2	1,985.8	3.9	3.3	58.54	470.7	769.1	901.7	895.0	6.78	133.053		
2,090.0	2,090.0	2,077.3	2,076.9	4.0	3.3	125.99	470.4	770.0	903.2	896.3	6.85	131.760		
2,100.0	2,100.0	2,087.3	2,086.8	4.1	3.3	126.01	470.3	770.1	903.4	896.6	6.86	131.772		
2,185.0	2,184.9	2,168.2	2,167.8	4.5	3.4	126.22	469.9	771.1	906.5	899.5	7.01	129.394		
2,200.0	2,199.8	2,182.7	2,182.3	4.6	3.4	126.27	469.8	771.3	907.3	900.2	7.03	129.118		
2,280.0	2,279.6	2,259.7	2,259.3	5.1	3.4	126.56	469.7	772.4	912.2	905.0	7.19	126.821		
2,300.0	2,299.5	2,278.3	2,277.9	5.2	3.4	126.64	469.6	772.7	913.7	906.4	7.24	126.272		
2,375.0	2,373.9	2,354.2	2,353.8	5.6	3.4	127.01	469.9	773.9	920.1	912.6	7.42	124.000		
2,400.0	2,398.7	2,377.9	2,377.4	5.8	3.4	127.14	469.9	774.2	922.4	915.0	7.48	123.246		
2,470.0	2,467.9	2,446.2	2,445.7	6.2	3.4	127.54	470.3	775.2	930.0	922.3	7.68	121.063		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #12H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-Standard Keeper 104, 8582-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
2,500.0	2,497.5	2,476.8	2,476.3	6.3	3.5	127.74	470.5	775.6	933.6	925.8	7.77	120.110		
2,565.0	2,561.3	2,533.9	2,533.4	6.7	3.5	128.13	470.8	776.6	942.2	934.3	7.98	118.118		
2,600.2	2,595.8	2,570.3	2,569.8	6.9	3.5	128.41	471.0	777.3	947.4	939.3	8.10	117.005		
2,660.0	2,654.3	2,625.0	2,624.5	7.0	3.5	128.97	471.3	778.5	956.5	948.2	8.26	115.819		
2,700.0	2,693.4	2,664.4	2,663.9	7.2	3.5	129.37	471.4	779.4	962.7	954.4	8.37	115.013		
2,755.0	2,747.2	2,713.6	2,713.1	7.3	3.6	129.88	471.5	780.7	971.5	962.9	8.52	114.018		
2,800.0	2,791.2	2,759.0	2,758.5	7.3	3.6	130.33	471.7	781.9	978.7	970.1	8.65	113.189		
2,850.0	2,840.2	2,805.4	2,804.8	7.4	3.6	130.79	471.7	783.3	986.9	978.1	8.79	112.219		
2,900.0	2,889.1	2,852.2	2,851.7	7.5	3.7	131.26	471.8	784.7	995.2	986.3	8.94	111.298 SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS_9931-MWD													Offset Well Error:	2.0 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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	2.0	-58.57	-58.57	487.0	-797.0	934.0				
95.0	95.0	84.7	84.7	3.0	2.0	-58.57	-58.57	487.2	-797.2	934.3	929.3	5.00	186.818	
100.0	100.0	89.4	89.4	3.0	2.0	-58.57	-58.57	487.2	-797.2	934.3	929.3	5.00	186.819	
190.0	190.0	180.4	180.4	3.0	2.0	-58.57	-58.57	487.6	-797.7	934.9	929.9	5.01	186.551	
200.0	200.0	190.7	190.7	3.0	2.0	-58.57	-58.57	487.6	-797.8	935.0	930.0	5.01	186.493	
285.0	285.0	272.8	272.8	3.0	2.0	-58.58	-58.58	487.7	-798.3	935.6	930.5	5.03	186.101	
300.0	300.0	287.2	287.2	3.0	2.0	-58.58	-58.58	487.8	-798.5	935.7	930.7	5.03	186.025	
380.0	380.0	366.8	366.8	3.0	2.0	-58.60	-58.60	487.9	-799.3	936.5	931.4	5.05	185.606	
400.0	400.0	386.8	386.8	3.0	2.0	-58.60	-58.60	488.0	-799.4	936.6	931.6	5.05	185.485	
475.0	475.0	461.5	461.5	3.0	2.0	-58.61	-58.61	488.2	-800.1	937.4	932.3	5.07	185.012	
500.0	500.0	486.3	486.3	3.1	2.0	-58.62	-58.62	488.2	-800.4	937.6	932.5	5.07	184.839	
570.0	570.0	556.6	556.6	3.1	2.1	-58.64	-58.64	488.3	-801.2	938.3	933.2	5.09	184.335	
600.0	600.0	586.8	586.8	3.1	2.1	-58.65	-58.65	488.3	-801.6	938.6	933.5	5.10	184.100	
665.0	665.0	652.5	652.5	3.1	2.1	-58.69	-58.69	488.1	-802.4	939.2	934.1	5.12	183.560	
700.0	700.0	687.9	687.9	3.1	2.1	-58.70	-58.70	488.0	-802.8	939.5	934.4	5.13	183.245	
760.0	760.0	747.8	747.8	3.1	2.1	-58.73	-58.73	488.0	-803.4	940.0	934.8	5.15	182.695	
800.0	800.0	787.7	787.6	3.2	2.1	-58.73	-58.73	488.0	-803.7	940.3	935.2	5.16	182.311	
855.0	855.0	844.1	844.1	3.2	2.1	-58.74	-58.74	488.2	-804.2	940.8	935.6	5.18	181.743	
900.0	900.0	890.7	890.7	3.2	2.1	-58.75	-58.75	488.2	-804.5	941.1	935.9	5.19	181.237	
950.0	950.0	942.6	942.5	3.2	2.1	-58.76	-58.76	488.2	-804.8	941.3	936.1	5.21	180.646	
1,000.0	1,000.0	994.4	994.4	3.2	2.1	-58.77	-58.77	488.1	-804.9	941.4	936.2	5.23	180.015	
1,045.0	1,045.0	1,039.6	1,039.5	3.3	2.1	-58.77	-58.77	488.1	-805.0	941.4	936.2	5.25	179.443	
1,100.0	1,100.0	1,094.5	1,094.5	3.3	2.1	-58.78	-58.78	488.0	-805.2	941.5	936.2	5.27	178.724	
1,140.0	1,140.0	1,134.6	1,134.6	3.3	2.1	-58.79	-58.79	488.0	-805.3	941.6	936.3	5.28	178.201	
1,200.0	1,200.0	1,194.9	1,194.9	3.4	2.1	-58.79	-58.79	487.9	-805.4	941.6	936.3	5.31	177.389	
1,235.0	1,235.0	1,230.4	1,230.3	3.4	2.1	-58.80	-58.80	487.8	-805.5	941.7	936.3	5.32	176.930	
1,300.0	1,300.0	1,296.3	1,296.3	3.4	2.2	-58.81	-58.81	487.6	-805.5	941.6	936.3	5.35	176.052	
1,330.0	1,330.0	1,327.1	1,327.1	3.4	2.2	-58.81	-58.81	487.6	-805.5	941.6	936.3	5.36	175.692	
1,400.0	1,400.0	1,399.0	1,398.9	3.5	2.2	-58.82	-58.82	487.4	-805.4	941.4	936.1	5.38	174.831	
1,425.0	1,425.0	1,424.0	1,424.0	3.5	2.2	-58.82	-58.82	487.4	-805.3	941.4	936.0	5.39	174.490	
1,500.0	1,500.0	1,499.1	1,499.1	3.5	2.2	-58.82	-58.82	487.3	-805.1	941.1	935.7	5.43	173.442	
1,520.0	1,520.0	1,519.1	1,519.1	3.6	2.2	-58.81	-58.81	487.3	-805.0	941.0	935.6	5.43	173.157	
1,600.0	1,600.0	1,599.2	1,599.2	3.6	2.2	-58.80	-58.80	487.3	-804.7	940.7	935.3	5.47	171.992	
1,615.0	1,615.0	1,613.9	1,613.9	3.6	2.2	-58.80	-58.80	487.3	-804.6	940.7	935.2	5.48	171.767	
1,700.0	1,700.0	1,696.8	1,696.8	3.7	2.2	-58.79	-58.79	487.4	-804.3	940.5	935.0	5.52	170.493	
1,710.0	1,710.0	1,706.7	1,706.7	3.7	2.2	-58.79	-58.79	487.4	-804.3	940.5	934.9	5.52	170.339	
1,800.0	1,800.0	1,796.3	1,796.3	3.8	2.2	-58.77	-58.77	487.6	-804.1	940.4	934.8	5.57	168.934	
1,805.0	1,805.0	1,801.3	1,801.2	3.8	2.2	-58.77	-58.77	487.6	-804.1	940.4	934.8	5.57	168.855	
1,851.3	1,851.3	1,847.1	1,847.0	3.8	2.2	-58.76	-58.76	487.7	-804.0	940.4	934.8	5.59	168.109	
1,900.0	1,900.0	1,895.2	1,895.2	3.9	2.2	-58.75	-58.75	487.9	-803.9	940.4	934.8	5.62	167.345	
1,995.0	1,995.0	1,989.5	1,989.5	3.9	2.2	-58.72	-58.72	488.3	-803.8	940.5	934.8	5.67	165.804	
2,000.0	2,000.0	1,994.5	1,994.4	3.9	2.2	-58.72	-58.72	488.3	-803.8	940.5	934.8	5.68	165.722	
2,090.0	2,090.0	2,083.7	2,083.6	4.0	2.2	8.68	8.68	488.8	-803.7	939.3	933.4	5.88	159.691	
2,100.0	2,100.0	2,093.6	2,093.5	4.1	2.2	8.69	8.69	488.8	-803.7	939.0	933.0	5.91	158.775	
2,185.0	2,184.9	2,177.8	2,177.7	4.5	2.2	8.77	8.77	489.4	-803.6	935.0	928.5	6.53	143.084	
2,200.0	2,199.8	2,192.6	2,192.6	4.6	2.2	8.79	8.79	489.5	-803.6	934.1	927.4	6.66	140.191	
2,280.0	2,279.6	2,273.6	2,273.5	5.1	2.2	8.90	8.90	490.0	-803.6	927.6	920.5	7.19	128.983	
2,300.0	2,299.5	2,293.8	2,293.8	5.2	2.2	8.93	8.93	490.0	-803.6	925.7	918.3	7.33	126.267	
2,375.0	2,373.9	2,367.5	2,367.4	5.6	2.2	9.05	9.05	490.2	-803.6	917.1	909.3	7.79	117.736	
2,400.0	2,398.7	2,391.9	2,391.9	5.8	2.2	9.10	9.10	490.3	-803.6	913.8	905.9	7.95	114.999	
2,470.0	2,467.9	2,459.4	2,459.4	6.2	2.3	9.25	9.25	490.6	-803.7	903.6	895.3	8.35	108.232	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-MWD												Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,500.0	2,497.5	2,488.3	2,488.2	6.3	2.3	9.32	490.8	-803.8	898.8	890.3	8.52	105.434	
2,565.0	2,561.3	2,553.5	2,553.4	6.7	2.3	9.51	491.2	-803.9	887.3	878.4	8.88	99.901	
2,600.2	2,595.8	2,589.0	2,588.9	6.9	2.3	9.62	491.4	-804.0	880.4	871.3	9.08	96.994	
2,660.0	2,654.3	2,646.7	2,646.7	7.0	2.3	9.76	491.6	-804.1	868.3	859.0	9.26	93.791	
2,700.0	2,693.4	2,685.0	2,684.9	7.2	2.3	9.86	491.7	-804.2	860.3	850.9	9.38	91.714	
2,755.0	2,747.2	2,739.8	2,739.7	7.3	2.3	10.00	492.0	-804.3	849.2	839.8	9.48	89.579	
2,800.0	2,791.2	2,785.2	2,785.2	7.3	2.3	10.12	492.1	-804.4	840.2	830.6	9.56	87.856	
2,850.0	2,840.2	2,834.4	2,834.4	7.4	2.3	10.25	492.2	-804.4	830.0	820.3	9.66	85.900	
2,900.0	2,889.1	2,883.0	2,883.0	7.5	2.3	10.39	492.4	-804.4	819.9	810.1	9.76	83.977	
2,945.0	2,933.1	2,927.0	2,926.9	7.6	2.3	10.52	492.5	-804.4	810.7	800.9	9.86	82.232	
3,000.0	2,986.9	2,980.8	2,980.7	7.7	2.3	10.68	492.8	-804.4	799.6	789.6	9.98	80.139	
3,040.0	3,026.0	3,020.0	3,020.0	7.8	2.3	10.80	492.9	-804.4	791.5	781.5	10.07	78.610	
3,100.0	3,084.7	3,079.1	3,079.1	7.9	2.3	10.99	493.1	-804.4	779.4	769.2	10.21	76.362	
3,135.0	3,118.9	3,113.3	3,113.2	8.0	2.3	11.10	493.3	-804.4	772.3	762.0	10.29	75.048	
3,200.0	3,182.5	3,176.1	3,176.0	8.2	2.4	11.31	493.6	-804.4	759.2	748.7	10.45	72.658	
3,230.0	3,211.8	3,205.2	3,205.1	8.3	2.4	11.42	493.8	-804.4	753.1	742.6	10.52	71.561	
3,300.0	3,280.3	3,274.4	3,274.3	8.4	2.4	11.68	494.2	-804.3	739.0	728.3	10.70	69.062	
3,325.0	3,304.8	3,299.1	3,299.0	8.5	2.4	11.77	494.4	-804.2	734.0	723.2	10.77	68.173	
3,400.0	3,378.1	3,371.2	3,371.2	8.7	2.4	12.05	494.8	-804.2	718.9	708.0	10.97	65.557	
3,420.0	3,397.7	3,390.5	3,390.4	8.7	2.4	12.13	494.9	-804.2	714.9	703.9	11.02	64.868	
3,500.0	3,475.9	3,467.5	3,467.4	8.9	2.4	12.42	495.3	-804.5	699.1	687.8	11.24	62.182	
3,515.0	3,490.6	3,481.9	3,481.9	9.0	2.4	12.48	495.3	-804.5	696.1	684.8	11.28	61.686	
3,600.0	3,573.8	3,566.3	3,566.2	9.2	2.4	12.78	495.4	-805.1	679.3	667.8	11.53	58.942	
3,610.0	3,583.5	3,576.2	3,576.2	9.2	2.4	12.82	495.4	-805.2	677.4	665.8	11.55	58.623	
3,700.0	3,671.6	3,664.9	3,664.8	9.5	2.4	13.15	495.3	-805.6	659.4	647.6	11.82	55.803	
3,705.0	3,676.5	3,669.8	3,669.7	9.5	2.4	13.17	495.3	-805.7	658.4	646.6	11.83	55.648	
3,800.0	3,769.4	3,763.3	3,763.2	9.8	2.4	13.57	495.5	-805.9	639.5	627.4	12.12	52.768	
3,895.0	3,862.3	3,856.6	3,856.6	10.1	2.5	14.01	495.7	-806.1	620.5	608.1	12.41	49.985	
3,900.0	3,867.2	3,861.5	3,861.5	10.1	2.5	14.03	495.7	-806.1	619.5	607.1	12.43	49.842	
3,990.0	3,955.2	3,950.7	3,950.6	10.3	2.5	14.47	495.8	-806.2	601.5	588.8	12.71	47.335	
4,000.0	3,965.0	3,960.7	3,960.6	10.4	2.5	14.52	495.8	-806.2	599.5	586.8	12.74	47.064	
4,085.0	4,048.2	4,045.0	4,044.9	10.6	2.5	14.95	495.6	-806.2	582.3	569.3	13.00	44.801	
4,100.0	4,062.8	4,059.8	4,059.8	10.7	2.5	15.03	495.6	-806.2	579.3	566.2	13.04	44.410	
4,180.0	4,141.1	4,137.5	4,137.5	10.9	2.5	15.47	495.5	-806.1	563.0	549.7	13.29	42.350	
4,200.0	4,160.6	4,156.7	4,156.6	11.0	2.5	15.57	495.5	-806.1	559.0	545.6	13.36	41.847	
4,275.0	4,234.0	4,228.9	4,228.8	11.2	2.5	15.99	495.4	-806.2	544.0	530.4	13.60	39.998	
4,300.0	4,258.4	4,253.2	4,253.2	11.3	2.5	16.14	495.4	-806.2	539.0	525.4	13.68	39.395	
4,370.0	4,326.9	4,321.5	4,321.4	11.5	2.5	16.59	495.6	-806.3	525.2	511.3	13.92	37.737	
4,400.0	4,356.3	4,350.9	4,350.8	11.6	2.5	16.80	495.7	-806.3	519.3	505.3	14.02	37.041	
4,465.0	4,419.8	4,414.6	4,414.5	11.8	2.5	17.25	495.9	-806.3	506.5	492.2	14.24	35.562	
4,500.0	4,454.1	4,448.8	4,448.8	11.9	2.5	17.51	496.0	-806.3	499.6	485.2	14.36	34.785	
4,560.0	4,512.8	4,507.5	4,507.5	12.1	2.5	17.97	496.2	-806.3	487.8	473.2	14.57	33.479	
4,600.0	4,551.9	4,546.6	4,546.5	12.3	2.5	18.28	496.3	-806.3	479.9	465.2	14.71	32.628	
4,655.0	4,605.7	4,600.3	4,600.2	12.4	2.5	18.74	496.5	-806.3	469.2	454.3	14.90	31.484	
4,700.0	4,649.7	4,644.4	4,644.3	12.6	2.5	19.12	496.6	-806.3	460.4	445.4	15.06	30.571	
4,750.0	4,698.6	4,693.3	4,693.3	12.8	2.5	19.58	496.8	-806.3	450.7	435.5	15.24	29.577	
4,800.0	4,747.5	4,742.4	4,742.4	12.9	2.5	20.05	497.0	-806.3	441.0	425.6	15.42	28.608	
4,845.0	4,791.5	4,786.7	4,786.6	13.1	2.5	20.49	497.1	-806.3	432.3	416.7	15.58	27.754	
4,900.0	4,845.3	4,840.3	4,840.2	13.3	2.6	21.05	497.3	-806.2	421.7	405.9	15.77	26.731	
4,940.0	4,884.5	4,879.2	4,879.2	13.4	2.6	21.48	497.4	-806.2	414.0	398.0	15.92	26.004	
5,000.0	4,943.1	4,938.0	4,938.0	13.6	2.6	22.15	497.7	-806.2	402.5	386.4	16.14	24.944	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-GYD_DP_MS, 9931-MWD						Rule Assigned:				Offset Well Error:	2.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,035.0	4,977.4	4,972.5	4,972.4	13.7	2.6	22.57	497.8	-806.2	395.8	379.5	16.26	24.338		
5,100.0	5,041.0	5,036.5	5,036.4	14.0	2.6	23.38	498.0	-806.1	383.4	366.9	16.50	23.241		
5,130.0	5,070.3	5,066.0	5,065.9	14.1	2.6	23.77	498.1	-806.0	377.7	361.1	16.60	22.745		
5,200.0	5,138.8	5,134.3	5,134.2	14.3	2.6	24.72	498.2	-805.9	364.3	347.5	16.86	21.611		
5,225.0	5,163.2	5,158.5	5,158.4	14.4	2.6	25.07	498.3	-805.9	359.6	342.7	16.95	21.215		
5,300.0	5,236.6	5,231.5	5,231.4	14.6	2.6	26.16	498.4	-805.9	345.7	328.4	17.23	20.063		
5,320.0	5,256.1	5,251.0	5,250.9	14.7	2.6	26.46	498.4	-806.0	342.0	324.7	17.30	19.763		
5,400.0	5,334.4	5,329.7	5,329.6	15.0	2.6	27.73	498.5	-806.3	327.3	309.7	17.60	18.600		
5,415.0	5,349.1	5,344.5	5,344.5	15.0	2.6	27.98	498.5	-806.3	324.6	306.9	17.65	18.387		
5,500.0	5,432.2	5,428.5	5,428.4	15.3	2.6	29.48	498.3	-806.5	308.9	291.0	17.95	17.205		
5,510.0	5,442.0	5,438.3	5,438.2	15.4	2.6	29.66	498.2	-806.5	307.1	289.1	17.99	17.069		
5,600.0	5,530.0	5,526.4	5,526.3	15.7	2.6	31.45	498.0	-806.5	290.7	272.4	18.31	15.874		
5,605.0	5,534.9	5,531.3	5,531.2	15.7	2.6	31.55	498.0	-806.5	289.8	271.5	18.33	15.810		
5,700.0	5,627.8	5,624.2	5,624.1	16.0	2.6	33.68	497.7	-806.5	272.8	254.2	18.67	14.615		
5,795.0	5,720.8	5,717.1	5,717.1	16.4	2.6	36.06	497.4	-806.6	256.3	237.3	19.00	13.486		
5,800.0	5,725.7	5,722.0	5,721.9	16.4	2.6	36.19	497.4	-806.6	255.4	236.4	19.02	13.428		
5,890.0	5,813.7	5,809.8	5,809.7	16.7	2.6	38.74	497.2	-806.7	240.3	221.0	19.34	12.425		
5,900.0	5,823.5	5,819.5	5,819.5	16.8	2.6	39.05	497.1	-806.7	238.7	219.3	19.37	12.318		
5,985.0	5,906.6	5,902.7	5,902.7	17.1	2.6	41.81	497.0	-806.8	225.0	205.3	19.66	11.439		
6,000.0	5,921.3	5,917.4	5,917.4	17.1	2.6	42.33	496.9	-806.8	222.6	202.9	19.71	11.290		
6,080.0	5,999.5	5,995.7	5,995.7	17.4	2.6	45.32	496.7	-806.9	210.3	190.3	19.98	10.528		
6,100.0	6,019.1	6,015.4	6,015.3	17.5	2.6	46.12	496.7	-806.9	207.3	187.3	20.04	10.346		
6,175.0	6,092.5	6,089.1	6,089.0	17.7	2.6	49.36	496.4	-806.9	196.4	176.2	20.27	9.693		
6,200.0	6,116.9	6,113.5	6,113.4	17.8	2.6	50.52	496.3	-806.8	192.9	172.6	20.34	9.486		
6,270.0	6,185.4	6,181.3	6,181.2	18.1	2.6	53.99	496.2	-806.6	183.7	163.2	20.54	8.944		
6,300.0	6,214.7	6,210.4	6,210.3	18.2	2.6	55.60	496.2	-806.5	180.1	159.5	20.63	8.731		
6,365.0	6,278.3	6,273.9	6,273.8	18.4	2.6	59.30	496.3	-806.3	172.7	151.9	20.80	8.307		
6,400.0	6,312.5	6,308.1	6,308.0	18.6	2.6	61.42	496.4	-806.2	169.1	148.2	20.88	8.100		
6,460.0	6,371.2	6,366.7	6,366.6	18.8	2.6	65.24	496.5	-806.1	163.5	142.5	21.02	7.781		
6,500.0	6,410.3	6,405.7	6,405.6	18.9	2.7	67.93	496.6	-806.0	160.2	139.1	21.10	7.595		
6,555.0	6,464.1	6,459.6	6,459.5	19.1	2.7	71.79	496.7	-805.8	156.4	135.2	21.20	7.375		
6,600.0	6,508.2	6,503.7	6,503.6	19.3	2.7	75.07	496.8	-805.7	153.7	132.4	21.28	7.225		
6,650.0	6,557.1	6,552.6	6,552.5	19.5	2.7	78.83	496.8	-805.6	151.4	130.1	21.36	7.090		
6,700.0	6,606.0	6,601.4	6,601.3	19.7	2.7	82.69	496.9	-805.5	149.8	128.4	21.43	6.990		
6,745.0	6,650.0	6,645.5	6,645.4	19.8	2.7	86.23	497.0	-805.4	149.0	127.5	21.50	6.931		
6,786.2	6,690.3	6,685.8	6,685.7	20.0	2.7	89.50	497.0	-805.2	148.7	127.2	21.56	6.900 CC, ES		
6,800.0	6,703.8	6,699.3	6,699.2	20.0	2.7	90.59	497.0	-805.2	148.8	127.2	21.58	6.895		
6,840.0	6,742.9	6,738.4	6,738.4	20.2	2.7	93.76	497.0	-805.1	149.2	127.5	21.64	6.893		
6,900.0	6,801.6	6,797.1	6,797.0	20.4	2.7	98.47	497.0	-804.9	150.6	128.9	21.74	6.927		
6,935.0	6,835.8	6,831.4	6,831.3	20.5	2.7	101.17	497.0	-804.8	151.9	130.1	21.81	6.967		
6,942.7	6,843.4	6,839.0	6,838.9	20.5	2.7	101.76	497.0	-804.7	152.3	130.5	21.82	6.978		
7,000.0	6,899.5	6,895.1	6,895.0	20.7	2.7	106.00	496.9	-804.5	155.2	133.2	21.95	7.071		
7,030.0	6,928.9	6,924.7	6,924.6	20.8	2.7	108.09	496.9	-804.4	157.0	134.9	22.02	7.128		
7,100.0	6,997.7	6,993.8	6,993.7	21.1	2.7	112.57	496.7	-804.4	161.5	139.3	22.21	7.271		
7,125.0	7,022.2	7,018.4	7,018.4	21.2	2.7	114.03	496.6	-804.4	163.2	141.0	22.28	7.325		
7,200.0	7,096.2	7,092.4	7,092.3	21.5	2.7	118.03	496.4	-804.5	168.7	146.2	22.52	7.492		
7,220.0	7,115.9	7,112.1	7,112.1	21.5	2.7	119.01	496.4	-804.5	170.2	147.6	22.58	7.537		
7,300.0	7,194.9	7,191.2	7,191.1	21.8	2.7	122.55	496.2	-804.6	176.3	153.5	22.86	7.715		
7,315.0	7,209.8	7,206.1	7,206.0	21.9	2.7	123.16	496.1	-804.6	177.5	154.6	22.91	7.748		
7,400.0	7,294.0	7,290.3	7,290.2	22.2	2.7	126.23	496.0	-804.8	183.9	160.7	23.21	7.924		
7,410.0	7,303.9	7,300.2	7,300.1	22.2	2.7	126.55	496.0	-804.8	184.7	161.4	23.25	7.943		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #3H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-GYD_DP_MS, 9931-MWD						Rule Assigned:				Offset Well Error:	2.0 usft	
Reference		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)	Minimum Separation (usft)	Separation Factor		
7,500.0	7,393.3	7,389.6	7,389.5	22.5	2.7	129.20	495.8	-805.0	191.1	167.5	23.57	8.105		
7,505.0	7,398.2	7,394.5	7,394.4	22.5	2.7	129.33	495.8	-805.0	191.4	167.8	23.59	8.113		
7,600.0	7,492.7	7,489.1	7,489.0	22.9	2.7	131.60	495.6	-805.2	197.5	173.5	23.94	8.250		
7,695.0	7,587.4	7,583.6	7,583.6	23.2	2.7	133.38	495.4	-805.4	202.8	178.5	24.28	8.350		
7,700.0	7,592.3	7,588.6	7,588.5	23.2	2.7	133.46	495.4	-805.5	203.0	178.7	24.30	8.355		
7,790.0	7,682.1	7,678.2	7,678.2	23.5	2.7	134.71	495.4	-805.7	207.2	182.6	24.62	8.415		
7,800.0	7,692.1	7,688.2	7,688.1	23.6	2.7	134.83	495.4	-805.7	207.6	183.0	24.66	8.420		
7,885.0	7,777.0	7,772.8	7,772.7	23.8	2.7	135.65	495.6	-805.8	210.7	185.8	24.95	8.444		
7,900.0	7,792.0	7,787.7	7,787.6	23.9	2.7	135.77	495.6	-805.8	211.2	186.2	25.01	8.445		
7,980.0	7,871.9	7,867.9	7,867.8	24.2	2.7	136.25	495.8	-805.9	213.2	187.9	25.29	8.432		
8,000.0	7,891.9	7,888.0	7,887.9	24.2	2.8	136.34	495.9	-806.0	213.6	188.2	25.36	8.423		
8,075.0	7,966.9	7,963.2	7,963.2	24.5	2.8	136.57	496.0	-806.2	214.4	188.8	25.61	8.372		
8,100.0	7,991.9	7,988.3	7,988.2	24.6	2.8	136.61	495.9	-806.2	214.5	188.8	25.70	8.348		
8,143.1	8,035.0	8,031.1	8,031.0	24.7	2.8	69.29	495.9	-806.3	214.5	188.7	25.84	8.304		
8,164.8	8,056.7	8,052.4	8,052.4	24.8	2.8	69.30	495.8	-806.3	214.5	188.6	25.90	8.282		
8,170.0	8,061.9	8,057.6	8,057.5	24.8	2.8	69.31	495.8	-806.3	214.5	188.6	25.92	8.277		
8,200.0	8,091.9	8,087.2	8,087.1	24.9	2.8	69.33	495.7	-806.2	214.6	188.6	26.01	8.249		
8,265.0	8,156.9	8,152.2	8,152.1	25.1	2.8	69.39	495.6	-806.0	214.7	188.5	26.23	8.187		
8,300.0	8,191.9	8,187.2	8,187.1	25.2	2.8	69.43	495.5	-805.9	214.8	188.5	26.35	8.153		
8,360.0	8,251.9	8,247.3	8,247.2	25.3	2.8	69.51	495.3	-805.7	214.9	188.4	26.55	8.095		
8,400.0	8,291.9	8,287.4	8,287.3	25.5	2.8	69.56	495.1	-805.5	215.0	188.3	26.69	8.056		
8,455.0	8,346.9	8,342.6	8,342.5	25.6	2.8	69.62	494.9	-805.4	215.1	188.2	26.88	8.001		
8,500.0	8,391.9	8,387.8	8,387.7	25.8	2.8	69.68	494.7	-805.3	215.1	188.0	27.04	7.954		
8,550.0	8,441.9	8,437.9	8,437.8	25.9	2.8	69.74	494.5	-805.3	215.0	187.8	27.21	7.903		
8,600.0	8,491.9	8,487.9	8,487.8	26.1	2.8	69.80	494.2	-805.2	215.0	187.6	27.38	7.851		
8,645.0	8,536.9	8,532.8	8,532.7	26.2	2.8	69.87	494.0	-805.2	215.0	187.4	27.54	7.806		
8,674.9	8,566.8	8,562.6	8,562.5	26.3	2.8	69.91	493.9	-805.1	215.0	187.3	27.64	7.777		
8,700.0	8,591.9	8,587.6	8,587.5	26.4	2.8	69.94	493.7	-805.1	215.0	187.2	27.72	7.753		
8,740.0	8,631.9	8,627.6	8,627.5	26.5	2.8	69.98	493.6	-805.0	215.0	187.1	27.86	7.716		
8,800.0	8,691.9	8,687.6	8,687.5	26.7	2.8	70.03	493.4	-804.9	215.0	186.9	28.07	7.660		
8,835.0	8,726.9	8,722.6	8,722.5	26.8	2.8	70.05	493.4	-804.9	215.0	186.8	28.19	7.627		
8,900.0	8,791.9	8,787.6	8,787.5	27.0	2.8	70.12	493.1	-804.8	215.0	186.6	28.41	7.568		
8,930.0	8,821.9	8,817.7	8,817.6	27.1	2.8	70.17	493.0	-804.7	215.0	186.5	28.52	7.541		
9,000.0	8,891.9	8,888.2	8,888.1	27.3	2.8	70.26	492.6	-804.7	215.0	186.2	28.77	7.473		
9,025.0	8,916.9	8,913.4	8,913.3	27.4	2.8	70.28	492.5	-804.7	214.9	186.0	28.85	7.447		
9,100.0	8,991.9	8,989.0	8,988.9	27.6	2.8	70.39	492.0	-804.9	214.5	185.4	29.12	7.367		
9,120.0	9,011.9	9,009.1	9,009.0	27.7	2.8	70.42	491.9	-805.0	214.4	185.2	29.19	7.344		
9,200.0	9,091.9	9,088.9	9,088.8	28.0	2.8	70.50	491.4	-805.4	213.9	184.4	29.47	7.259		
9,215.0	9,106.9	9,103.9	9,103.8	28.0	2.8	70.50	491.4	-805.4	213.8	184.3	29.52	7.243		
9,300.0	9,191.9	9,188.6	9,188.5	28.3	2.8	70.61	490.8	-805.7	213.4	183.6	29.81	7.158		
9,310.0	9,201.9	9,198.6	9,198.5	28.3	2.8	70.64	490.7	-805.7	213.4	183.5	29.85	7.148		
9,400.0	9,291.9	9,291.2	9,291.0	28.6	2.8	70.96	489.3	-806.2	212.4	182.3	30.19	7.036		
9,405.0	9,296.9	9,296.3	9,296.2	28.6	2.8	70.98	489.2	-806.3	212.4	182.1	30.21	7.029		
9,500.0	9,391.9	9,391.1	9,390.9	28.9	2.8	71.37	487.3	-807.3	210.8	180.2	30.54	6.901		
9,595.0	9,486.9	9,484.2	9,484.1	29.2	2.8	71.67	486.0	-808.0	209.7	178.8	30.86	6.795		
9,600.0	9,491.9	9,489.1	9,489.0	29.2	2.8	71.68	485.9	-808.0	209.6	178.8	30.87	6.791		
9,690.0	9,581.9	9,578.2	9,578.0	29.5	2.8	71.83	485.3	-808.2	209.3	178.1	31.18	6.713		
9,700.0	9,591.9	9,588.1	9,587.9	29.6	2.8	71.84	485.2	-808.2	209.3	178.1	31.21	6.705		
9,785.0	9,676.9	9,673.2	9,673.0	29.8	2.8	71.91	484.9	-808.2	209.1	177.6	31.51	6.637		
9,800.0	9,691.9	9,688.2	9,688.0	29.9	2.8	71.92	484.9	-808.2	209.1	177.5	31.56	6.625		
9,880.0	9,771.9	9,768.3	9,768.2	30.1	2.8	71.98	484.6	-808.3	208.9	177.1	31.85	6.560		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #3H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_DP_MS, 9931-MWD												Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,791.9	9,788.3	9,788.2	30.2	2.8	72.00	484.6	-808.4	208.9	176.9	31.92	6.544	
9,975.0	9,866.9	9,863.7	9,863.6	30.4	2.9	72.05	484.3	-808.6	208.6	176.4	32.22	6.473	
10,000.0	9,891.9	9,888.9	9,888.7	30.5	2.9	72.07	484.2	-808.7	208.5	176.1	32.33	6.448	
10,070.0	9,961.9	9,958.6	9,958.5	30.8	3.0	72.13	483.9	-809.0	208.1	175.5	32.61	6.380	
10,100.0	9,991.9	9,992.6	9,992.4	30.8	3.0	72.34	483.0	-809.1	207.7	174.9	32.80	6.332	
10,165.0	10,056.9	10,073.5	10,072.4	31.1	3.7	75.19	471.7	-811.4	203.3	169.5	33.80	6.015	
10,200.0	10,091.9	10,112.5	10,110.3	31.2	3.9	77.65	462.4	-813.3	199.6	165.5	34.16	5.844	
10,260.0	10,151.9	10,177.7	10,172.1	31.4	4.2	83.22	442.5	-817.7	192.2	157.5	34.67	5.543	
10,300.0	10,191.9	10,214.9	10,206.4	31.5	4.4	87.44	428.3	-820.6	187.5	152.9	34.65	5.411	
10,355.0	10,246.9	10,259.7	10,246.2	31.7	4.7	93.76	407.9	-823.4	184.0	149.5	34.51	5.332	
10,364.8	10,256.7	10,267.0	10,252.4	31.7	4.8	94.91	404.3	-823.8	183.9	149.4	34.52	5.327	
10,400.0	10,291.9	10,292.0	10,273.5	31.8	5.0	99.06	390.9	-824.6	185.2	150.4	34.82	5.320 SF	
10,450.0	10,341.9	10,326.7	10,301.9	32.0	5.2	105.09	370.9	-825.0	191.8	156.0	35.77	5.362	
10,500.0	10,391.9	10,361.4	10,329.4	32.2	5.3	111.11	349.7	-824.9	203.7	166.8	36.87	5.523	
10,545.0	10,436.9	10,391.6	10,352.5	32.3	5.4	116.21	330.3	-824.7	218.4	180.6	37.80	5.778	
10,600.0	10,491.9	10,425.8	10,377.7	32.5	5.6	121.75	307.1	-824.6	241.1	202.3	38.77	6.219	
10,640.0	10,531.9	10,449.4	10,394.5	32.6	5.6	125.31	290.6	-824.3	260.5	221.1	39.34	6.621	
10,700.0	10,591.9	10,482.6	10,417.6	32.8	5.8	129.91	266.7	-823.7	293.2	253.2	40.02	7.328	
10,735.0	10,626.9	10,496.0	10,426.6	32.9	5.9	131.62	256.9	-823.4	314.2	273.8	40.36	7.785	
10,800.0	10,691.9	10,528.0	10,447.6	33.1	6.1	135.39	232.8	-822.3	356.0	315.2	40.86	8.713	
10,830.0	10,721.9	10,542.7	10,456.9	33.2	6.2	136.98	221.4	-821.7	376.5	335.4	41.07	9.168	
10,900.0	10,791.9	10,575.2	10,476.8	33.5	6.4	140.22	195.7	-820.2	426.4	384.9	41.49	10.277	
10,925.0	10,816.9	10,590.0	10,485.6	33.6	6.6	141.58	183.8	-819.7	444.7	403.1	41.63	10.682	
11,000.0	10,891.9	10,622.0	10,504.3	33.8	6.9	144.34	157.8	-818.9	501.1	459.0	42.02	11.923	
11,020.0	10,911.9	10,631.4	10,509.7	33.9	7.0	145.10	150.1	-818.7	516.4	474.3	42.13	12.258	
11,100.0	10,991.9	10,653.0	10,521.7	34.1	7.2	146.76	132.2	-818.4	579.2	536.7	42.49	13.633	
11,115.0	11,006.9	10,663.3	10,527.3	34.2	7.3	147.51	123.5	-818.2	591.2	548.6	42.57	13.886	
11,200.0	11,091.9	10,684.0	10,538.0	34.5	7.6	148.94	105.9	-817.8	660.7	617.8	42.94	15.387	
11,210.0	11,101.9	10,684.0	10,538.0	34.5	7.6	148.94	105.9	-817.8	669.1	626.1	42.97	15.569	
11,300.0	11,191.9	10,705.9	10,548.6	34.8	7.9	150.36	86.7	-817.3	745.2	701.8	43.37	17.184	
11,305.0	11,196.9	10,716.0	10,553.3	34.8	8.0	150.98	77.7	-817.1	749.6	706.2	43.42	17.265	
11,400.0	11,291.9	10,725.1	10,557.3	35.1	8.1	151.52	69.6	-816.9	832.0	788.2	43.78	19.005	
11,495.0	11,386.9	10,747.0	10,566.5	35.5	8.4	152.78	49.7	-816.5	916.2	872.0	44.19	20.736	
11,500.0	11,391.9	10,747.0	10,566.5	35.5	8.4	152.78	49.7	-816.5	920.7	876.5	44.20	20.828	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-56.14	467.9	-697.3	839.8					
95.0	95.0	87.0	87.0	3.0	3.0	-56.13	468.1	-697.4	839.9	833.9	6.00	139.973		
100.0	100.0	91.8	91.8	3.0	3.0	-56.13	468.1	-697.4	839.9	833.9	6.00	139.975		
190.0	190.0	183.9	183.9	3.0	3.0	-56.11	468.5	-697.3	840.0	834.0	6.00	139.911		
200.0	200.0	193.0	193.0	3.0	3.0	-56.10	468.5	-697.3	840.1	834.0	6.00	139.900		
285.0	285.0	277.8	277.8	3.0	3.0	-56.07	469.0	-697.1	840.2	834.2	6.01	139.752		
300.0	300.0	292.1	292.1	3.0	3.0	-56.06	469.1	-697.1	840.3	834.2	6.01	139.720		
380.0	380.0	372.7	372.7	3.0	3.0	-56.02	469.8	-697.0	840.5	834.5	6.03	139.501		
400.0	400.0	391.9	391.9	3.0	3.0	-56.01	469.9	-696.9	840.6	834.5	6.03	139.435		
475.0	475.0	465.4	465.4	3.0	3.0	-55.98	470.5	-696.9	840.9	834.9	6.04	139.149		
500.0	500.0	489.5	489.5	3.1	3.0	-55.96	470.7	-697.0	841.1	835.0	6.05	139.041		
570.0	570.0	560.0	560.0	3.1	3.1	-55.93	471.4	-697.0	841.5	835.4	6.07	138.688		
600.0	600.0	589.5	589.5	3.1	3.1	-55.91	471.7	-697.0	841.7	835.6	6.08	138.521		
665.0	665.0	657.3	657.3	3.1	3.1	-55.89	472.2	-697.0	841.9	835.8	6.10	138.081		
700.0	700.0	692.2	692.2	3.1	3.1	-55.88	472.3	-697.1	842.0	835.9	6.11	137.806		
760.0	760.0	757.4	757.4	3.1	3.1	-55.89	472.2	-697.2	842.0	835.9	6.13	137.332		
800.0	800.0	796.5	796.4	3.2	3.1	-55.91	471.9	-697.3	841.9	835.8	6.14	137.072		
855.0	855.0	852.4	852.4	3.2	3.1	-55.94	471.5	-697.4	841.8	835.6	6.16	136.685		
900.0	900.0	896.4	896.4	3.2	3.1	-55.96	471.1	-697.5	841.7	835.5	6.17	136.350		
950.0	950.0	948.5	948.4	3.2	3.1	-55.99	470.7	-697.6	841.5	835.3	6.19	135.947		
1,000.0	1,000.0	996.4	996.4	3.2	3.1	-56.02	470.2	-697.7	841.3	835.1	6.21	135.527		
1,045.0	1,045.0	1,043.5	1,043.5	3.3	3.1	-56.05	469.7	-697.8	841.2	835.0	6.23	135.122		
1,100.0	1,100.0	1,097.1	1,097.1	3.3	3.1	-56.09	469.2	-697.9	841.0	834.7	6.25	134.609		
1,140.0	1,140.0	1,139.0	1,138.9	3.3	3.1	-56.12	468.8	-698.0	840.8	834.6	6.26	134.216		
1,200.0	1,200.0	1,198.9	1,198.8	3.4	3.1	-56.16	468.1	-698.1	840.5	834.2	6.29	133.601		
1,235.0	1,235.0	1,234.1	1,234.1	3.4	3.1	-56.18	467.7	-698.2	840.3	834.0	6.31	133.229		
1,300.0	1,300.0	1,298.7	1,298.6	3.4	3.1	-56.23	466.9	-698.2	839.9	833.6	6.34	132.506		
1,330.0	1,330.0	1,330.6	1,330.6	3.4	3.1	-56.25	466.5	-698.2	839.8	833.4	6.35	132.154		
1,400.0	1,400.0	1,398.8	1,398.8	3.5	3.1	-56.30	465.8	-698.3	839.4	833.0	6.39	131.331		
1,425.0	1,425.0	1,423.7	1,423.7	3.5	3.2	-56.32	465.5	-698.3	839.3	832.9	6.41	131.029		
1,500.0	1,500.0	1,500.6	1,500.5	3.5	3.2	-56.36	464.6	-698.4	838.8	832.4	6.45	130.077		
1,520.0	1,520.0	1,520.8	1,520.7	3.6	3.2	-56.37	464.4	-698.3	838.7	832.2	6.46	129.814		
1,600.0	1,600.0	1,600.0	1,599.9	3.6	3.2	-56.41	463.7	-698.1	838.1	831.6	6.51	128.739		
1,615.0	1,615.0	1,615.9	1,615.8	3.6	3.2	-56.41	463.6	-698.1	838.0	831.5	6.52	128.527		
1,700.0	1,700.0	1,698.5	1,698.4	3.7	3.2	-56.44	463.0	-697.8	837.5	830.9	6.58	127.318		
1,710.0	1,710.0	1,709.1	1,709.1	3.7	3.2	-56.44	462.9	-697.8	837.4	830.8	6.59	127.170		
1,800.0	1,800.0	1,800.0	1,799.9	3.8	3.3	-56.44	462.6	-697.4	836.9	830.2	6.65	125.785		
1,805.0	1,805.0	1,804.8	1,804.8	3.8	3.3	-56.44	462.6	-697.3	836.8	830.2	6.66	125.709		
1,900.0	1,900.0	1,903.4	1,903.4	3.9	3.3	-56.41	462.5	-696.3	836.0	829.2	6.74	124.116		
1,995.0	1,995.0	1,999.9	1,999.8	3.9	3.3	-56.34	462.8	-694.9	834.9	828.1	6.82	122.481		
2,000.0	2,000.0	2,005.1	2,005.0	3.9	3.3	-56.33	462.8	-694.8	834.9	828.1	6.82	122.393		
2,090.0	2,090.0	2,095.1	2,095.0	4.0	3.4	11.16	463.4	-693.0	832.4	825.3	7.05	117.990		
2,100.0	2,100.0	2,104.7	2,104.6	4.1	3.4	11.18	463.5	-692.8	831.9	824.8	7.09	117.343		
2,185.0	2,184.9	2,175.0	2,174.9	4.5	3.4	11.34	464.6	-691.7	827.4	819.7	7.73	107.104		
2,200.0	2,199.8	2,189.3	2,189.2	4.6	3.4	11.38	464.9	-691.6	826.5	818.6	7.86	105.212		
2,280.0	2,279.6	2,268.5	2,268.3	5.1	3.4	11.63	466.8	-691.1	820.6	812.2	8.40	97.715		
2,300.0	2,299.5	2,291.2	2,291.0	5.2	3.4	11.71	467.3	-690.9	818.7	810.2	8.54	95.854		
2,375.0	2,373.9	2,377.4	2,377.3	5.6	3.4	11.99	468.2	-689.7	809.7	800.6	9.02	89.736		
2,400.0	2,398.7	2,402.1	2,401.9	5.8	3.5	12.08	468.3	-689.3	806.1	796.9	9.19	87.742		
2,470.0	2,467.9	2,467.8	2,467.6	6.2	3.5	12.35	468.8	-688.3	795.1	785.5	9.61	82.740		
2,500.0	2,497.5	2,493.7	2,493.5	6.3	3.5	12.47	469.0	-687.9	790.1	780.3	9.79	80.680		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	
2,565.0	2,561.3	2,546.3	2,546.1	6.7	3.5	12.75	470.0	-687.7	778.7	768.5	10.16	76.636
2,600.2	2,595.8	2,579.3	2,579.1	6.9	3.5	12.93	470.8	-687.7	772.2	761.9	10.36	74.534
2,660.0	2,654.3	2,638.7	2,638.4	7.0	3.6	13.24	472.3	-687.7	761.0	750.4	10.55	72.118
2,700.0	2,693.4	2,677.8	2,677.6	7.2	3.6	13.46	473.4	-687.5	753.4	742.8	10.68	70.539
2,755.0	2,747.2	2,733.0	2,732.7	7.3	3.6	13.80	475.1	-687.2	743.0	732.2	10.79	68.842
2,800.0	2,791.2	2,779.5	2,779.2	7.3	3.6	14.08	476.5	-686.9	734.4	723.6	10.89	67.471
2,850.0	2,840.2	2,832.0	2,831.7	7.4	3.6	14.39	477.5	-686.4	724.6	713.6	11.00	65.896
2,900.0	2,889.1	2,880.4	2,880.1	7.5	3.7	14.63	478.0	-686.4	714.7	703.6	11.11	64.353
2,945.0	2,933.1	2,923.3	2,923.0	7.6	3.7	14.82	478.2	-686.5	705.9	694.7	11.21	62.968
3,000.0	2,986.9	2,975.0	2,974.7	7.7	3.7	15.04	478.4	-686.9	695.3	684.0	11.34	61.314
3,040.0	3,026.0	3,012.2	3,011.8	7.8	3.7	15.21	478.7	-687.3	687.8	676.3	11.44	60.117
3,100.0	3,084.7	3,070.2	3,069.9	7.9	3.7	15.50	479.3	-687.8	676.5	664.9	11.59	58.358
3,135.0	3,118.9	3,107.3	3,107.0	8.0	3.7	15.71	479.8	-688.0	669.9	658.3	11.69	57.333
3,200.0	3,182.5	3,172.4	3,172.0	8.2	3.8	16.09	480.7	-688.0	657.4	645.6	11.86	55.433
3,230.0	3,211.8	3,203.0	3,202.7	8.3	3.8	16.28	481.1	-688.0	651.6	639.7	11.94	54.558
3,300.0	3,280.3	3,271.8	3,271.5	8.4	3.8	16.74	482.1	-687.7	638.1	625.9	12.14	52.546
3,325.0	3,304.8	3,296.3	3,296.0	8.5	3.9	16.91	482.5	-687.5	633.2	621.0	12.22	51.832
3,400.0	3,378.1	3,370.5	3,370.1	8.7	3.9	17.48	483.9	-686.8	618.6	606.1	12.44	49.728
3,420.0	3,397.7	3,390.0	3,389.6	8.7	3.9	17.63	484.3	-686.6	614.7	602.2	12.50	49.174
3,500.0	3,475.9	3,463.9	3,463.5	8.9	4.0	18.20	485.5	-686.2	599.4	586.6	12.75	47.009
3,515.0	3,490.6	3,477.2	3,476.8	9.0	4.0	18.28	485.6	-686.3	596.6	583.8	12.80	46.614
3,600.0	3,573.8	3,559.2	3,558.8	9.2	4.0	18.74	485.9	-687.9	581.2	568.1	13.07	44.463
3,610.0	3,583.5	3,569.2	3,568.8	9.2	4.0	18.80	485.9	-688.1	579.4	566.3	13.10	44.214
3,700.0	3,671.6	3,661.2	3,660.8	9.5	4.0	19.41	486.6	-689.2	562.9	549.5	13.40	42.004
3,705.0	3,676.5	3,666.5	3,666.1	9.5	4.1	19.45	486.6	-689.2	561.9	548.5	13.42	41.882
3,800.0	3,769.4	3,768.5	3,768.1	9.8	4.1	20.23	486.9	-689.3	543.6	529.9	13.73	39.601
3,895.0	3,862.3	3,866.9	3,866.5	10.1	4.1	21.01	485.9	-688.3	523.7	509.6	14.03	37.315
3,900.0	3,867.2	3,871.7	3,871.3	10.1	4.1	21.06	485.9	-688.2	522.6	508.6	14.05	37.195
3,990.0	3,955.2	3,957.1	3,956.6	10.3	4.2	21.88	485.4	-686.7	503.7	489.3	14.36	35.069
4,000.0	3,965.0	3,966.5	3,966.0	10.4	4.2	21.97	485.4	-686.6	501.6	487.2	14.40	34.840
4,085.0	4,048.2	4,039.4	4,039.0	10.6	4.2	22.63	485.0	-686.5	484.9	470.2	14.71	32.956
4,100.0	4,062.8	4,052.7	4,052.2	10.7	4.2	22.74	485.0	-686.8	482.2	467.4	14.77	32.645
4,180.0	4,141.1	4,130.3	4,129.8	10.9	4.2	23.34	484.8	-688.5	467.9	452.8	15.06	31.063
4,200.0	4,160.6	4,151.9	4,151.5	11.0	4.2	23.52	484.7	-688.9	464.3	449.1	15.13	30.682
4,275.0	4,234.0	4,229.7	4,229.2	11.2	4.3	24.22	484.1	-689.8	450.2	434.8	15.40	29.237
4,300.0	4,258.4	4,254.9	4,254.4	11.3	4.3	24.46	483.9	-690.0	445.4	429.9	15.49	28.758
4,370.0	4,326.9	4,325.0	4,324.5	11.5	4.3	25.10	482.7	-690.8	431.8	416.1	15.74	27.433
4,400.0	4,356.3	4,355.1	4,354.6	11.6	4.3	25.37	482.1	-691.1	425.9	410.1	15.85	26.874
4,465.0	4,419.8	4,417.6	4,417.1	11.8	4.3	25.96	480.8	-691.8	413.2	397.1	16.09	25.676
4,500.0	4,454.1	4,451.6	4,451.1	11.9	4.3	26.30	480.2	-692.3	406.4	390.2	16.22	25.052
4,560.0	4,512.8	4,510.4	4,509.8	12.1	4.4	26.90	479.1	-693.1	394.9	378.5	16.45	24.008
4,600.0	4,551.9	4,549.1	4,548.6	12.3	4.4	27.33	478.4	-693.6	387.3	370.7	16.60	23.327
4,655.0	4,605.7	4,602.5	4,602.0	12.4	4.4	27.93	477.4	-694.3	376.8	360.0	16.81	22.413
4,700.0	4,649.7	4,645.8	4,645.2	12.6	4.4	28.45	476.7	-694.9	368.4	351.4	16.99	21.689
4,750.0	4,698.6	4,693.5	4,692.9	12.8	4.4	29.04	476.0	-695.8	359.2	342.0	17.18	20.907
4,800.0	4,747.5	4,742.4	4,741.8	12.9	4.4	29.68	475.4	-696.7	350.2	332.8	17.37	20.155
4,845.0	4,791.5	4,786.7	4,786.1	13.1	4.5	30.30	474.8	-697.5	342.1	324.5	17.55	19.494
4,900.0	4,845.3	4,841.6	4,841.0	13.3	4.5	31.07	474.0	-698.5	332.2	314.4	17.76	18.705
4,940.0	4,884.5	4,880.7	4,880.0	13.4	4.5	31.62	473.2	-699.4	324.9	307.0	17.91	18.137
5,000.0	4,943.1	4,939.9	4,939.2	13.6	4.5	32.49	472.1	-700.7	314.1	296.0	18.14	17.311
5,035.0	4,977.4	4,973.9	4,973.2	13.7	4.6	33.01	471.3	-701.5	307.8	289.5	18.28	16.836

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8586-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,041.0	5,037.4	5,036.7	14.0	4.6	34.04	470.0	-703.0	296.2	277.7	18.54	15.980	
5,130.0	5,070.3	5,067.5	5,066.8	14.1	4.6	34.55	469.4	-703.7	290.9	272.2	18.65	15.597	
5,200.0	5,138.8	5,134.1	5,133.4	14.3	4.6	35.77	468.1	-705.3	278.6	259.7	18.93	14.717	
5,225.0	5,163.2	5,157.6	5,156.8	14.4	4.7	36.28	467.9	-705.7	274.4	255.4	19.03	14.418	
5,300.0	5,236.6	5,228.1	5,227.4	14.6	4.7	38.10	468.2	-706.4	262.6	243.3	19.34	13.578	
5,320.0	5,256.1	5,247.5	5,246.7	14.7	4.7	38.65	468.5	-706.6	259.7	240.2	19.42	13.369	
5,400.0	5,334.4	5,325.8	5,325.0	15.0	4.8	41.01	469.5	-707.2	248.0	228.3	19.73	12.569	
5,415.0	5,349.1	5,340.7	5,339.9	15.0	4.8	41.49	469.8	-707.3	245.9	226.1	19.79	12.426	
5,500.0	5,432.2	5,424.5	5,423.7	15.3	4.8	44.32	470.8	-707.9	234.0	213.9	20.11	11.636	
5,510.0	5,442.0	5,434.3	5,433.5	15.4	4.8	44.67	470.9	-708.0	232.7	212.5	20.15	11.547	
5,600.0	5,530.0	5,522.8	5,522.0	15.7	4.9	47.94	471.9	-709.0	220.9	200.4	20.48	10.784	
5,605.0	5,534.9	5,527.8	5,526.9	15.7	4.9	48.12	471.9	-709.0	220.2	199.7	20.50	10.743	
5,700.0	5,627.8	5,620.8	5,620.0	16.0	5.0	51.92	472.8	-710.1	208.6	187.7	20.84	10.009	
5,795.0	5,720.8	5,713.8	5,713.0	16.4	5.0	56.10	473.7	-711.3	198.0	176.8	21.16	9.357	
5,800.0	5,725.7	5,718.7	5,717.9	16.4	5.0	56.33	473.8	-711.3	197.5	176.3	21.17	9.325	
5,890.0	5,813.7	5,806.8	5,806.0	16.7	5.1	60.65	474.7	-712.7	188.7	167.2	21.46	8.792	
5,900.0	5,823.5	5,816.7	5,815.8	16.8	5.1	61.15	474.8	-712.8	187.8	166.3	21.49	8.738	
5,985.0	5,906.6	5,900.1	5,899.3	17.1	5.2	65.60	475.8	-714.2	180.8	159.1	21.73	8.320	
6,000.0	5,921.3	5,914.8	5,913.9	17.1	5.2	66.41	475.9	-714.4	179.7	157.9	21.78	8.253	
6,080.0	5,999.5	5,992.8	5,991.9	17.4	5.2	70.90	477.0	-715.7	174.6	152.6	21.99	7.941	
6,100.0	6,019.1	6,012.6	6,011.7	17.5	5.3	72.07	477.3	-716.0	173.5	151.5	22.04	7.874	
6,175.0	6,092.5	6,088.2	6,087.3	17.7	5.3	76.77	478.1	-717.1	170.0	147.7	22.21	7.652	
6,200.0	6,116.9	6,113.6	6,112.6	17.8	5.3	78.46	478.1	-717.2	168.7	146.5	22.26	7.579	
6,270.0	6,185.4	6,182.2	6,181.3	18.1	5.4	83.23	477.6	-717.5	165.8	143.4	22.41	7.401	
6,300.0	6,214.7	6,211.7	6,210.8	18.2	5.4	85.31	477.4	-717.7	165.0	142.5	22.47	7.341	
6,365.0	6,278.3	6,275.3	6,274.4	18.4	5.4	89.86	477.1	-718.0	163.9	141.3	22.62	7.246	
6,400.0	6,312.5	6,309.7	6,308.8	18.6	5.5	92.32	476.8	-718.3	163.7	141.0	22.70	7.212	
6,403.1	6,315.6	6,312.8	6,311.9	18.6	5.5	92.53	476.8	-718.3	163.7	141.0	22.71	7.210 CC, ES	
6,460.0	6,371.2	6,368.5	6,367.6	18.8	5.5	96.49	476.5	-718.7	164.1	141.3	22.86	7.181	
6,500.0	6,410.3	6,408.1	6,407.2	18.9	5.5	99.26	476.2	-719.2	164.9	141.9	22.97	7.178	
6,555.0	6,464.1	6,462.1	6,461.2	19.1	5.6	102.96	475.8	-719.8	166.4	143.2	23.14	7.191	
6,600.0	6,508.2	6,506.2	6,505.3	19.3	5.6	105.92	475.4	-720.4	168.1	144.8	23.28	7.220	
6,650.0	6,557.1	6,555.3	6,554.4	19.5	5.6	109.14	475.1	-721.1	170.6	147.1	23.46	7.271	
6,700.0	6,606.0	6,604.3	6,603.4	19.7	5.7	112.25	474.7	-721.7	173.6	149.9	23.65	7.341	
6,745.0	6,650.0	6,648.4	6,647.5	19.8	5.7	114.94	474.4	-722.3	176.7	152.9	23.83	7.417	
6,800.0	6,703.8	6,702.6	6,701.7	20.0	5.8	118.15	473.9	-723.1	181.0	157.0	24.06	7.523	
6,840.0	6,742.9	6,741.9	6,740.9	20.2	5.8	120.37	473.5	-723.6	184.4	160.2	24.24	7.609	
6,900.0	6,801.6	6,800.6	6,799.7	20.4	5.8	123.56	473.0	-724.5	190.1	165.6	24.51	7.756	
6,935.0	6,835.8	6,835.2	6,834.2	20.5	5.9	125.35	472.6	-725.0	193.7	169.0	24.68	7.847	
6,942.7	6,843.4	6,842.7	6,841.8	20.5	5.9	125.73	472.5	-725.1	194.5	169.7	24.71	7.868	
7,000.0	6,899.5	6,898.3	6,897.3	20.7	5.9	128.42	472.0	-725.9	200.6	175.6	24.99	8.027	
7,030.0	6,928.9	6,927.7	6,926.7	20.8	5.9	129.73	471.8	-726.3	203.9	178.7	25.13	8.112	
7,100.0	6,997.7	6,996.7	6,995.7	21.1	6.0	132.47	471.4	-727.2	211.5	186.0	25.48	8.302	
7,125.0	7,022.2	7,021.6	7,020.6	21.2	6.0	133.37	471.2	-727.6	214.2	188.6	25.60	8.366	
7,200.0	7,096.2	7,096.0	7,094.9	21.5	6.1	135.80	470.8	-728.8	221.9	196.0	25.97	8.545	
7,220.0	7,115.9	7,115.8	7,114.8	21.5	6.1	136.39	470.6	-729.1	223.9	197.8	26.07	8.589	
7,300.0	7,194.9	7,195.0	7,193.9	21.8	6.2	138.51	470.2	-730.6	231.5	205.0	26.46	8.748	
7,315.0	7,209.8	7,209.3	7,208.2	21.9	6.2	138.87	470.0	-730.8	232.9	206.3	26.53	8.778	
7,400.0	7,294.0	7,290.9	7,289.8	22.2	6.2	140.84	469.2	-731.2	241.1	214.2	26.90	8.961	
7,410.0	7,303.9	7,300.7	7,299.7	22.2	6.2	141.06	469.0	-731.2	242.0	215.1	26.95	8.982	
7,500.0	7,393.3	7,389.8	7,388.7	22.5	6.3	142.92	467.9	-731.2	250.3	223.0	27.35	9.152	

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: Reference		100-Standard Keeper 104, 8586-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,505.0	7,398.2	7,394.8	7,393.7	22.5	6.3	143.01	467.8	-731.2	250.7	223.4	27.37	9.161		
7,600.0	7,492.7	7,489.3	7,488.2	22.9	6.4	144.64	466.5	-731.1	258.4	230.6	27.79	9.298		
7,695.0	7,587.4	7,583.4	7,582.4	23.2	6.4	145.99	465.1	-731.0	265.0	236.8	28.19	9.400		
7,700.0	7,592.3	7,588.4	7,587.3	23.2	6.4	146.06	465.0	-731.0	265.3	237.1	28.21	9.404		
7,790.0	7,682.1	7,677.2	7,676.2	23.5	6.5	147.09	463.8	-730.6	270.6	242.0	28.57	9.470		
7,800.0	7,692.1	7,687.3	7,686.3	23.6	6.5	147.20	463.6	-730.6	271.1	242.5	28.62	9.475		
7,885.0	7,777.0	7,772.0	7,770.9	23.8	6.5	147.99	462.4	-730.1	275.1	246.2	28.96	9.502		
7,900.0	7,792.0	7,787.0	7,785.9	23.9	6.5	148.11	462.2	-730.1	275.7	246.7	29.02	9.503		
7,980.0	7,871.9	7,866.5	7,865.4	24.2	6.6	148.69	461.0	-729.6	278.4	249.1	29.33	9.494		
8,000.0	7,891.9	7,886.4	7,885.3	24.2	6.6	148.82	460.7	-729.4	279.0	249.6	29.40	9.488		
8,075.0	7,966.9	7,961.1	7,960.0	24.5	6.6	149.25	459.4	-728.9	280.6	250.9	29.69	9.450		
8,100.0	7,991.9	7,985.9	7,984.8	24.6	6.6	149.37	459.0	-728.6	280.9	251.2	29.78	9.432		
8,143.1	8,035.0	8,029.2	8,028.1	24.7	6.7	82.21	458.1	-728.2	281.4	251.4	29.95	9.395		
8,170.0	8,061.9	8,055.7	8,054.6	24.8	6.7	82.32	457.6	-728.0	281.6	251.5	30.04	9.372		
8,200.0	8,091.9	8,085.8	8,084.6	24.9	6.7	82.45	457.0	-727.7	281.8	251.6	30.16	9.344		
8,265.0	8,156.9	8,150.7	8,149.5	25.1	6.7	82.74	455.7	-727.0	282.3	251.9	30.40	9.285		
8,300.0	8,191.9	8,185.7	8,184.5	25.2	6.7	82.89	454.9	-726.6	282.5	252.0	30.53	9.255		
8,360.0	8,251.9	8,245.8	8,244.6	25.3	6.8	83.16	453.7	-726.0	283.0	252.2	30.76	9.200		
8,400.0	8,291.9	8,285.8	8,284.6	25.5	6.8	83.35	452.8	-725.6	283.3	252.4	30.91	9.164		
8,455.0	8,346.9	8,340.7	8,339.5	25.6	6.8	83.62	451.5	-725.1	283.7	252.6	31.12	9.115		
8,500.0	8,391.9	8,385.7	8,384.5	25.8	6.9	83.84	450.5	-724.6	284.0	252.7	31.30	9.076		
8,550.0	8,441.9	8,435.2	8,433.9	25.9	6.9	84.08	449.3	-724.0	284.5	253.0	31.48	9.037		
8,600.0	8,491.9	8,484.7	8,483.4	26.1	6.9	84.31	448.3	-723.4	285.0	253.3	31.67	9.000		
8,645.0	8,536.9	8,529.5	8,528.2	26.2	7.0	84.51	447.3	-722.8	285.6	253.7	31.84	8.969		
8,700.0	8,591.9	8,584.3	8,583.0	26.4	7.0	84.74	446.2	-722.0	286.2	254.2	32.03	8.936		
8,740.0	8,631.9	8,633.4	8,632.0	26.5	8.3	85.21	443.9	-721.9	286.1	252.7	33.49	8.544		
8,800.0	8,691.9	8,716.0	8,713.7	26.7	10.5	87.45	432.5	-725.1	283.5	247.7	35.76	7.928		
8,835.0	8,726.9	8,768.3	8,763.9	26.8	10.7	90.14	419.3	-731.2	279.0	242.9	36.14	7.719		
8,900.0	8,791.9	8,855.4	8,843.7	27.0	10.9	96.78	389.3	-748.3	266.7	230.2	36.49	7.308		
8,930.0	8,821.9	8,882.0	8,867.1	27.1	11.0	99.40	378.2	-754.8	260.6	224.1	36.46	7.146		
9,000.0	8,891.9	8,952.4	8,926.3	27.3	11.1	107.76	345.4	-774.1	247.8	211.5	36.30	6.825		
9,025.0	8,916.9	8,972.5	8,942.3	27.4	11.1	110.55	335.0	-780.2	244.2	208.0	36.13	6.758		
9,093.1	8,985.0	9,022.0	8,979.7	27.6	11.3	118.21	306.7	-795.8	239.7	204.2	35.49	6.754 SF		
9,100.0	8,991.9	9,026.7	8,983.1	27.6	11.3	118.99	303.8	-797.3	239.8	204.3	35.42	6.769		
9,120.0	9,011.9	9,039.7	8,992.4	27.7	11.3	121.18	295.7	-801.6	240.5	205.3	35.21	6.829		
9,200.0	9,091.9	9,085.5	9,022.7	28.0	11.4	129.20	265.3	-817.3	253.0	218.4	34.64	7.303		
9,215.0	9,106.9	9,093.4	9,027.7	28.0	11.4	130.60	259.8	-820.1	257.1	222.5	34.60	7.429		
9,300.0	9,191.9	9,135.6	9,052.7	28.3	11.6	137.99	229.4	-835.4	289.3	254.7	34.64	8.353		
9,310.0	9,201.9	9,140.3	9,055.4	28.3	11.6	138.80	226.0	-837.2	294.1	259.4	34.66	8.483		
9,400.0	9,291.9	9,176.9	9,075.2	28.6	11.7	144.85	198.6	-851.1	343.6	308.7	34.89	9.848		
9,405.0	9,296.9	9,178.6	9,076.1	28.6	11.7	145.12	197.3	-851.7	346.7	311.8	34.90	9.934		
9,500.0	9,391.9	9,209.0	9,091.0	28.9	11.7	149.79	173.5	-863.5	410.9	375.8	35.09	11.709		
9,595.0	9,486.9	9,233.8	9,102.2	29.2	11.8	153.32	153.5	-873.1	482.7	447.4	35.27	13.684		
9,600.0	9,491.9	9,235.1	9,102.7	29.2	11.8	153.49	152.5	-873.6	486.6	451.3	35.28	13.791		
9,690.0	9,581.9	9,256.0	9,111.5	29.5	11.9	156.22	135.3	-881.6	559.6	524.1	35.50	15.764		
9,700.0	9,591.9	9,256.0	9,111.5	29.6	11.9	156.22	135.3	-881.6	567.9	532.4	35.50	16.000		
9,785.0	9,676.9	9,278.2	9,120.3	29.8	11.9	158.89	116.8	-889.9	640.1	604.3	35.76	17.901		
9,800.0	9,691.9	9,281.3	9,121.6	29.9	11.9	159.25	114.1	-891.1	653.0	617.2	35.80	18.242		
9,880.0	9,771.9	9,303.0	9,129.6	30.1	12.0	161.60	95.6	-899.1	723.1	687.0	36.08	20.040		
9,900.0	9,791.9	9,303.0	9,129.6	30.2	12.0	161.60	95.6	-899.1	740.7	704.6	36.10	20.519		
9,975.0	9,866.9	9,316.7	9,134.4	30.4	12.0	162.97	83.7	-904.0	807.8	771.5	36.32	22.244		

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 WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #9H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-Standard Keeper 104, 8586-MWD+HFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)			
10,000.0	9,891.9	9,321.9	9,136.2	30.5	12.0	163.46	79.3	-905.8	830.4	794.0	36.39	22.816		
10,070.0	9,961.9	9,335.8	9,141.0	30.8	12.0	164.72	67.2	-910.6	893.9	857.3	36.62	24.411		
10,100.0	9,991.9	9,351.0	9,146.1	30.8	12.1	166.01	53.7	-915.7	921.5	884.7	36.79	25.047		
10,165.0	10,056.9	9,351.0	9,146.1	31.1	12.1	166.01	53.7	-915.7	981.1	944.2	36.92	26.578		

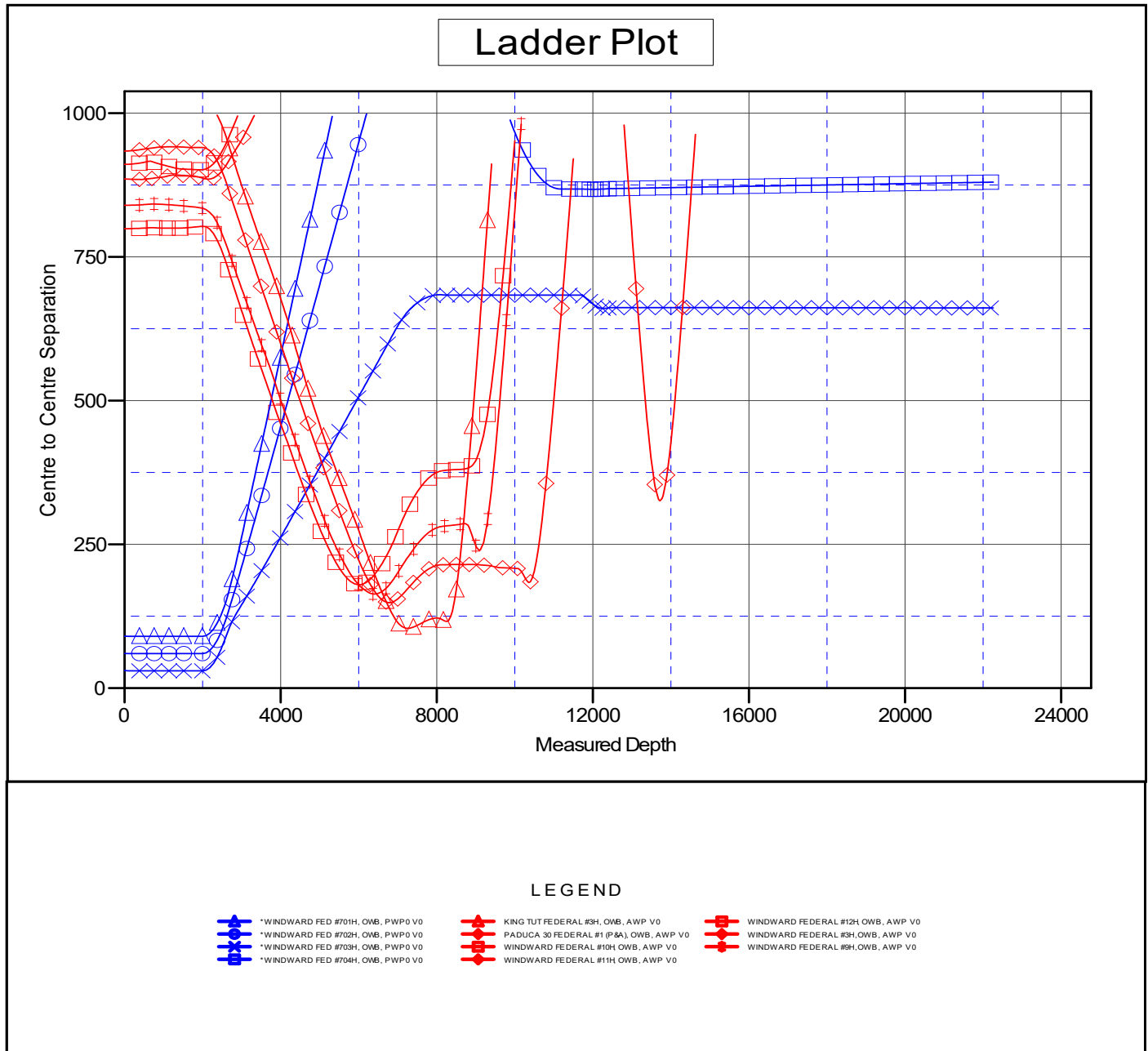
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 32ft + GL 3550.2ft @ 3582.2usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FEDERAL #707H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

WINDWARD FEDERAL PROJECT (BULLDOG 2432)

WINDWARD FEDERAL #707H

OWB

Plan: PWP0

Standard Planning Report

25 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
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	WINDWARD FEDERAL PROJECT (BULLDOG 2432)		
Site Position:		Northing:	398,637.10 usft
From:	Map	Easting:	741,887.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.820 N
		Longitude:	103° 33' 8.116 W
		Grid Convergence:	0.42 °

Well	WINDWARD FEDERAL #707H		
Well Position	+N/-S	36,083.4 usft	Northing:
	+E/-W	-48,745.7 usft	Easting:
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.51	59.82	47,573.57078829

Design	PWP0				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	185.41	

Plan Survey Tool Program		Date	5/25/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104		
			Standard Wireline Keeper ver 1		
2	2,000.0	11,730.6 PWP0 (OWB)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		
3	11,730.6	22,261.7 PWP0 (OWB)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	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	
2,600.2	12.00	292.64	2,595.8	24.1	-57.8	2.00	2.00	0.00	292.64	
6,942.7	12.00	292.64	6,843.4	371.8	-891.4	0.00	0.00	0.00	0.00	
8,143.1	0.00	0.00	8,035.0	420.0	-1,007.0	1.00	-1.00	0.00	180.00	
11,730.6	0.00	0.00	11,622.5	420.0	-1,007.0	0.00	0.00	0.00	0.00	
12,480.6	90.00	179.58	12,100.0	-57.5	-1,003.5	12.00	12.00	23.94	179.58	
22,211.7	90.00	179.58	12,100.0	-9,788.3	-932.2	0.00	0.00	0.00	0.00	LTP(WINDWARD FEI
22,261.7	90.00	179.58	12,100.0	-9,838.3	-931.8	0.00	0.00	0.00	0.00	PBHL(WINDWARD F

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	292.64	2,100.0	0.7	-1.6	-0.5	2.00	2.00	0.00
2,200.0	4.00	292.64	2,199.8	2.7	-6.4	-2.1	2.00	2.00	0.00
2,300.0	6.00	292.64	2,299.5	6.0	-14.5	-4.6	2.00	2.00	0.00
2,400.0	8.00	292.64	2,398.7	10.7	-25.7	-8.3	2.00	2.00	0.00
2,500.0	10.00	292.64	2,497.5	16.8	-40.2	-12.9	2.00	2.00	0.00
2,600.2	12.00	292.64	2,595.8	24.1	-57.8	-18.6	2.00	2.00	0.00
Start 4342.5 hold at 2600.2 MD									
2,700.0	12.00	292.64	2,693.4	32.1	-77.0	-24.7	0.00	0.00	0.00
2,800.0	12.00	292.64	2,791.2	40.1	-96.2	-30.9	0.00	0.00	0.00
2,900.0	12.00	292.64	2,889.1	48.1	-115.4	-37.0	0.00	0.00	0.00
3,000.0	12.00	292.64	2,986.9	56.1	-134.6	-43.2	0.00	0.00	0.00
3,100.0	12.00	292.64	3,084.7	64.1	-153.8	-49.3	0.00	0.00	0.00
3,200.0	12.00	292.64	3,182.5	72.1	-172.9	-55.5	0.00	0.00	0.00
3,300.0	12.00	292.64	3,280.3	80.1	-192.1	-61.7	0.00	0.00	0.00
3,400.0	12.00	292.64	3,378.1	88.1	-211.3	-67.8	0.00	0.00	0.00
3,500.0	12.00	292.64	3,475.9	96.2	-230.5	-74.0	0.00	0.00	0.00
3,600.0	12.00	292.64	3,573.8	104.2	-249.7	-80.1	0.00	0.00	0.00
3,700.0	12.00	292.64	3,671.6	112.2	-268.9	-86.3	0.00	0.00	0.00
3,800.0	12.00	292.64	3,769.4	120.2	-288.1	-92.5	0.00	0.00	0.00
3,900.0	12.00	292.64	3,867.2	128.2	-307.3	-98.6	0.00	0.00	0.00
4,000.0	12.00	292.64	3,965.0	136.2	-326.5	-104.8	0.00	0.00	0.00
4,100.0	12.00	292.64	4,062.8	144.2	-345.7	-110.9	0.00	0.00	0.00
4,200.0	12.00	292.64	4,160.6	152.2	-364.9	-117.1	0.00	0.00	0.00
4,300.0	12.00	292.64	4,258.4	160.2	-384.1	-123.3	0.00	0.00	0.00
4,400.0	12.00	292.64	4,356.3	168.2	-403.3	-129.4	0.00	0.00	0.00
4,500.0	12.00	292.64	4,454.1	176.2	-422.5	-135.6	0.00	0.00	0.00
4,600.0	12.00	292.64	4,551.9	184.2	-441.7	-141.8	0.00	0.00	0.00
4,700.0	12.00	292.64	4,649.7	192.2	-460.9	-147.9	0.00	0.00	0.00
4,800.0	12.00	292.64	4,747.5	200.2	-480.1	-154.1	0.00	0.00	0.00
4,900.0	12.00	292.64	4,845.3	208.2	-499.3	-160.2	0.00	0.00	0.00
5,000.0	12.00	292.64	4,943.1	216.2	-518.5	-166.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	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	12.00	292.64	5,041.0	224.2	-537.7	-172.6	0.00	0.00	0.00
5,200.0	12.00	292.64	5,138.8	232.3	-556.9	-178.7	0.00	0.00	0.00
5,300.0	12.00	292.64	5,236.6	240.3	-576.0	-184.9	0.00	0.00	0.00
5,400.0	12.00	292.64	5,334.4	248.3	-595.2	-191.0	0.00	0.00	0.00
5,500.0	12.00	292.64	5,432.2	256.3	-614.4	-197.2	0.00	0.00	0.00
5,600.0	12.00	292.64	5,530.0	264.3	-633.6	-203.4	0.00	0.00	0.00
5,700.0	12.00	292.64	5,627.8	272.3	-652.8	-209.5	0.00	0.00	0.00
5,800.0	12.00	292.64	5,725.7	280.3	-672.0	-215.7	0.00	0.00	0.00
5,900.0	12.00	292.64	5,823.5	288.3	-691.2	-221.8	0.00	0.00	0.00
6,000.0	12.00	292.64	5,921.3	296.3	-710.4	-228.0	0.00	0.00	0.00
6,100.0	12.00	292.64	6,019.1	304.3	-729.6	-234.2	0.00	0.00	0.00
6,200.0	12.00	292.64	6,116.9	312.3	-748.8	-240.3	0.00	0.00	0.00
6,300.0	12.00	292.64	6,214.7	320.3	-768.0	-246.5	0.00	0.00	0.00
6,400.0	12.00	292.64	6,312.5	328.3	-787.2	-252.6	0.00	0.00	0.00
6,500.0	12.00	292.64	6,410.3	336.3	-806.4	-258.8	0.00	0.00	0.00
6,600.0	12.00	292.64	6,508.2	344.3	-825.6	-265.0	0.00	0.00	0.00
6,700.0	12.00	292.64	6,606.0	352.3	-844.8	-271.1	0.00	0.00	0.00
6,800.0	12.00	292.64	6,703.8	360.3	-864.0	-277.3	0.00	0.00	0.00
6,900.0	12.00	292.64	6,801.6	368.4	-883.2	-283.4	0.00	0.00	0.00
6,942.7	12.00	292.64	6,843.4	371.8	-891.4	-286.1	0.00	0.00	0.00
Start Drop -1.00									
7,000.0	11.43	292.64	6,899.5	376.3	-902.1	-289.5	1.00	-1.00	0.00
7,100.0	10.43	292.64	6,997.7	383.6	-919.6	-295.1	1.00	-1.00	0.00
7,200.0	9.43	292.64	7,096.2	390.2	-935.5	-300.2	1.00	-1.00	0.00
7,300.0	8.43	292.64	7,194.9	396.2	-949.9	-304.8	1.00	-1.00	0.00
7,400.0	7.43	292.64	7,294.0	401.5	-962.6	-308.9	1.00	-1.00	0.00
7,500.0	6.43	292.64	7,393.3	406.1	-973.7	-312.5	1.00	-1.00	0.00
7,600.0	5.43	292.64	7,492.7	410.1	-983.3	-315.6	1.00	-1.00	0.00
7,700.0	4.43	292.64	7,592.3	413.4	-991.2	-318.1	1.00	-1.00	0.00
7,800.0	3.43	292.64	7,692.1	416.0	-997.5	-320.1	1.00	-1.00	0.00
7,900.0	2.43	292.64	7,792.0	418.0	-1,002.2	-321.7	1.00	-1.00	0.00
8,000.0	1.43	292.64	7,891.9	419.3	-1,005.4	-322.6	1.00	-1.00	0.00
8,100.0	0.43	292.64	7,991.9	419.9	-1,006.9	-323.1	1.00	-1.00	0.00
8,143.1	0.00	0.00	8,035.0	420.0	-1,007.0	-323.2	1.00	-1.00	0.00
Start 3587.5 hold at 8143.1 MD									
8,200.0	0.00	0.00	8,091.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,191.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,291.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,391.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,491.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,591.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,691.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,791.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,891.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,100.0	0.00	0.00	8,991.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,091.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,191.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,291.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,391.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,491.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,591.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,800.0	0.00	0.00	9,691.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,791.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	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)	
10,000.0	0.00	0.00	9,891.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,991.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,091.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,191.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,291.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,391.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,491.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,591.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,691.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,791.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,891.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,991.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,091.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,191.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,291.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,391.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,491.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,700.0	0.00	0.00	11,591.9	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
11,730.6	0.00	0.00	11,622.5	420.0	-1,007.0	-323.2	0.00	0.00	0.00	
Start DLS 12.00 TFO 179.58										
11,750.0	2.32	179.58	11,641.9	419.6	-1,007.0	-322.8	12.00	12.00	0.00	
11,775.0	5.32	179.58	11,666.8	417.9	-1,007.0	-321.1	12.00	12.00	0.00	
11,800.0	8.32	179.58	11,691.7	415.0	-1,007.0	-318.2	12.00	12.00	0.00	
11,825.0	11.32	179.58	11,716.3	410.7	-1,006.9	-313.9	12.00	12.00	0.00	
11,850.0	14.32	179.58	11,740.7	405.2	-1,006.9	-308.4	12.00	12.00	0.00	
11,875.0	17.32	179.58	11,764.7	398.3	-1,006.8	-301.6	12.00	12.00	0.00	
11,900.0	20.32	179.58	11,788.4	390.3	-1,006.8	-293.6	12.00	12.00	0.00	
11,925.0	23.32	179.58	11,811.6	381.0	-1,006.7	-284.4	12.00	12.00	0.00	
11,950.0	26.32	179.58	11,834.3	370.5	-1,006.6	-273.9	12.00	12.00	0.00	
11,975.0	29.32	179.58	11,856.4	358.8	-1,006.6	-262.3	12.00	12.00	0.00	
12,000.0	32.32	179.58	11,877.8	346.0	-1,006.5	-249.6	12.00	12.00	0.00	
12,025.0	35.32	179.58	11,898.6	332.1	-1,006.4	-235.7	12.00	12.00	0.00	
12,050.0	38.32	179.58	11,918.6	317.1	-1,006.2	-220.8	12.00	12.00	0.00	
12,075.0	41.32	179.58	11,937.8	301.1	-1,006.1	-204.9	12.00	12.00	0.00	
12,100.0	44.32	179.58	11,956.1	284.1	-1,006.0	-188.0	12.00	12.00	0.00	
12,125.0	47.32	179.58	11,973.6	266.2	-1,005.9	-170.2	12.00	12.00	0.00	
12,150.0	50.32	179.58	11,990.0	247.4	-1,005.7	-151.4	12.00	12.00	0.00	
12,175.0	53.32	179.58	12,005.5	227.7	-1,005.6	-131.9	12.00	12.00	0.00	
12,200.0	56.32	179.58	12,019.9	207.3	-1,005.4	-111.6	12.00	12.00	0.00	
12,225.0	59.32	179.58	12,033.2	186.1	-1,005.3	-90.5	12.00	12.00	0.00	
12,250.0	62.32	179.58	12,045.4	164.3	-1,005.1	-68.8	12.00	12.00	0.00	
12,275.0	65.32	179.58	12,056.4	141.9	-1,005.0	-46.5	12.00	12.00	0.00	
12,300.0	68.32	179.58	12,066.2	118.9	-1,004.8	-23.6	12.00	12.00	0.00	
12,325.0	71.32	179.58	12,074.9	95.4	-1,004.6	-0.3	12.00	12.00	0.00	
12,350.0	74.32	179.58	12,082.2	71.6	-1,004.4	23.5	12.00	12.00	0.00	
12,375.0	77.32	179.58	12,088.4	47.3	-1,004.3	47.6	12.00	12.00	0.00	
12,400.0	80.32	179.58	12,093.2	22.8	-1,004.1	72.0	12.00	12.00	0.00	
12,425.0	83.32	179.58	12,096.8	-1.9	-1,003.9	96.6	12.00	12.00	0.00	
12,450.0	86.32	179.58	12,099.0	-26.8	-1,003.7	121.4	12.00	12.00	0.00	
12,475.0	89.32	179.58	12,100.0	-51.8	-1,003.5	146.2	12.00	12.00	0.00	
12,480.6	90.00	179.58	12,100.0	-57.5	-1,003.5	151.8	12.00	12.00	0.00	
Start 9731.1 hold at 12480.6 MD										
12,500.0	90.00	179.58	12,100.0	-76.8	-1,003.4	171.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

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)	
12,600.0	90.00	179.58	12,100.0	-176.8	-1,002.6	270.6	0.00	0.00	0.00	
12,700.0	90.00	179.58	12,100.0	-276.8	-1,001.9	370.0	0.00	0.00	0.00	
12,800.0	90.00	179.58	12,100.0	-376.8	-1,001.2	469.5	0.00	0.00	0.00	
12,900.0	90.00	179.58	12,100.0	-476.8	-1,000.4	569.0	0.00	0.00	0.00	
13,000.0	90.00	179.58	12,100.0	-576.8	-999.7	668.5	0.00	0.00	0.00	
13,100.0	90.00	179.58	12,100.0	-676.8	-999.0	768.0	0.00	0.00	0.00	
13,200.0	90.00	179.58	12,100.0	-776.8	-998.2	867.5	0.00	0.00	0.00	
13,300.0	90.00	179.58	12,100.0	-876.8	-997.5	966.9	0.00	0.00	0.00	
13,400.0	90.00	179.58	12,100.0	-976.8	-996.8	1,066.4	0.00	0.00	0.00	
13,500.0	90.00	179.58	12,100.0	-1,076.8	-996.0	1,165.9	0.00	0.00	0.00	
13,600.0	90.00	179.58	12,100.0	-1,176.8	-995.3	1,265.4	0.00	0.00	0.00	
13,700.0	90.00	179.58	12,100.0	-1,276.8	-994.6	1,364.9	0.00	0.00	0.00	
13,800.0	90.00	179.58	12,100.0	-1,376.8	-993.8	1,464.4	0.00	0.00	0.00	
13,900.0	90.00	179.58	12,100.0	-1,476.8	-993.1	1,563.8	0.00	0.00	0.00	
14,000.0	90.00	179.58	12,100.0	-1,576.8	-992.4	1,663.3	0.00	0.00	0.00	
14,100.0	90.00	179.58	12,100.0	-1,676.8	-991.6	1,762.8	0.00	0.00	0.00	
14,200.0	90.00	179.58	12,100.0	-1,776.8	-990.9	1,862.3	0.00	0.00	0.00	
14,300.0	90.00	179.58	12,100.0	-1,876.8	-990.2	1,961.8	0.00	0.00	0.00	
14,400.0	90.00	179.58	12,100.0	-1,976.8	-989.4	2,061.3	0.00	0.00	0.00	
14,500.0	90.00	179.58	12,100.0	-2,076.8	-988.7	2,160.7	0.00	0.00	0.00	
14,600.0	90.00	179.58	12,100.0	-2,176.8	-988.0	2,260.2	0.00	0.00	0.00	
14,700.0	90.00	179.58	12,100.0	-2,276.8	-987.2	2,359.7	0.00	0.00	0.00	
14,800.0	90.00	179.58	12,100.0	-2,376.8	-986.5	2,459.2	0.00	0.00	0.00	
14,900.0	90.00	179.58	12,100.0	-2,476.8	-985.8	2,558.7	0.00	0.00	0.00	
15,000.0	90.00	179.58	12,100.0	-2,576.8	-985.0	2,658.1	0.00	0.00	0.00	
15,100.0	90.00	179.58	12,100.0	-2,676.7	-984.3	2,757.6	0.00	0.00	0.00	
15,200.0	90.00	179.58	12,100.0	-2,776.7	-983.6	2,857.1	0.00	0.00	0.00	
15,300.0	90.00	179.58	12,100.0	-2,876.7	-982.8	2,956.6	0.00	0.00	0.00	
15,400.0	90.00	179.58	12,100.0	-2,976.7	-982.1	3,056.1	0.00	0.00	0.00	
15,500.0	90.00	179.58	12,100.0	-3,076.7	-981.4	3,155.6	0.00	0.00	0.00	
15,600.0	90.00	179.58	12,100.0	-3,176.7	-980.6	3,255.0	0.00	0.00	0.00	
15,700.0	90.00	179.58	12,100.0	-3,276.7	-979.9	3,354.5	0.00	0.00	0.00	
15,800.0	90.00	179.58	12,100.0	-3,376.7	-979.2	3,454.0	0.00	0.00	0.00	
15,900.0	90.00	179.58	12,100.0	-3,476.7	-978.4	3,553.5	0.00	0.00	0.00	
16,000.0	90.00	179.58	12,100.0	-3,576.7	-977.7	3,653.0	0.00	0.00	0.00	
16,100.0	90.00	179.58	12,100.0	-3,676.7	-977.0	3,752.5	0.00	0.00	0.00	
16,200.0	90.00	179.58	12,100.0	-3,776.7	-976.2	3,851.9	0.00	0.00	0.00	
16,300.0	90.00	179.58	12,100.0	-3,876.7	-975.5	3,951.4	0.00	0.00	0.00	
16,400.0	90.00	179.58	12,100.0	-3,976.7	-974.8	4,050.9	0.00	0.00	0.00	
16,500.0	90.00	179.58	12,100.0	-4,076.7	-974.1	4,150.4	0.00	0.00	0.00	
16,600.0	90.00	179.58	12,100.0	-4,176.7	-973.3	4,249.9	0.00	0.00	0.00	
16,700.0	90.00	179.58	12,100.0	-4,276.7	-972.6	4,349.4	0.00	0.00	0.00	
16,800.0	90.00	179.58	12,100.0	-4,376.7	-971.9	4,448.8	0.00	0.00	0.00	
16,900.0	90.00	179.58	12,100.0	-4,476.7	-971.1	4,548.3	0.00	0.00	0.00	
17,000.0	90.00	179.58	12,100.0	-4,576.7	-970.4	4,647.8	0.00	0.00	0.00	
17,100.0	90.00	179.58	12,100.0	-4,676.7	-969.7	4,747.3	0.00	0.00	0.00	
17,200.0	90.00	179.58	12,100.0	-4,776.7	-968.9	4,846.8	0.00	0.00	0.00	
17,300.0	90.00	179.58	12,100.0	-4,876.7	-968.2	4,946.3	0.00	0.00	0.00	
17,400.0	90.00	179.58	12,100.0	-4,976.7	-967.5	5,045.7	0.00	0.00	0.00	
17,500.0	90.00	179.58	12,100.0	-5,076.7	-966.7	5,145.2	0.00	0.00	0.00	
17,600.0	90.00	179.58	12,100.0	-5,176.7	-966.0	5,244.7	0.00	0.00	0.00	
17,700.0	90.00	179.58	12,100.0	-5,276.7	-965.3	5,344.2	0.00	0.00	0.00	
17,800.0	90.00	179.58	12,100.0	-5,376.7	-964.5	5,443.7	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

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)
17,900.0	90.00	179.58	12,100.0	-5,476.7	-963.8	5,543.1	0.00	0.00	0.00
18,000.0	90.00	179.58	12,100.0	-5,576.7	-963.1	5,642.6	0.00	0.00	0.00
18,100.0	90.00	179.58	12,100.0	-5,676.7	-962.3	5,742.1	0.00	0.00	0.00
18,200.0	90.00	179.58	12,100.0	-5,776.7	-961.6	5,841.6	0.00	0.00	0.00
18,300.0	90.00	179.58	12,100.0	-5,876.7	-960.9	5,941.1	0.00	0.00	0.00
18,400.0	90.00	179.58	12,100.0	-5,976.7	-960.1	6,040.6	0.00	0.00	0.00
18,500.0	90.00	179.58	12,100.0	-6,076.7	-959.4	6,140.0	0.00	0.00	0.00
18,600.0	90.00	179.58	12,100.0	-6,176.7	-958.7	6,239.5	0.00	0.00	0.00
18,700.0	90.00	179.58	12,100.0	-6,276.7	-957.9	6,339.0	0.00	0.00	0.00
18,800.0	90.00	179.58	12,100.0	-6,376.6	-957.2	6,438.5	0.00	0.00	0.00
18,900.0	90.00	179.58	12,100.0	-6,476.6	-956.5	6,538.0	0.00	0.00	0.00
19,000.0	90.00	179.58	12,100.0	-6,576.6	-955.7	6,637.5	0.00	0.00	0.00
19,100.0	90.00	179.58	12,100.0	-6,676.6	-955.0	6,736.9	0.00	0.00	0.00
19,200.0	90.00	179.58	12,100.0	-6,776.6	-954.3	6,836.4	0.00	0.00	0.00
19,300.0	90.00	179.58	12,100.0	-6,876.6	-953.5	6,935.9	0.00	0.00	0.00
19,400.0	90.00	179.58	12,100.0	-6,976.6	-952.8	7,035.4	0.00	0.00	0.00
19,500.0	90.00	179.58	12,100.0	-7,076.6	-952.1	7,134.9	0.00	0.00	0.00
19,600.0	90.00	179.58	12,100.0	-7,176.6	-951.3	7,234.4	0.00	0.00	0.00
19,700.0	90.00	179.58	12,100.0	-7,276.6	-950.6	7,333.8	0.00	0.00	0.00
19,800.0	90.00	179.58	12,100.0	-7,376.6	-949.9	7,433.3	0.00	0.00	0.00
19,900.0	90.00	179.58	12,100.0	-7,476.6	-949.1	7,532.8	0.00	0.00	0.00
20,000.0	90.00	179.58	12,100.0	-7,576.6	-948.4	7,632.3	0.00	0.00	0.00
20,100.0	90.00	179.58	12,100.0	-7,676.6	-947.7	7,731.8	0.00	0.00	0.00
20,200.0	90.00	179.58	12,100.0	-7,776.6	-946.9	7,831.3	0.00	0.00	0.00
20,300.0	90.00	179.58	12,100.0	-7,876.6	-946.2	7,930.7	0.00	0.00	0.00
20,400.0	90.00	179.58	12,100.0	-7,976.6	-945.5	8,030.2	0.00	0.00	0.00
20,500.0	90.00	179.58	12,100.0	-8,076.6	-944.7	8,129.7	0.00	0.00	0.00
20,600.0	90.00	179.58	12,100.0	-8,176.6	-944.0	8,229.2	0.00	0.00	0.00
20,700.0	90.00	179.58	12,100.0	-8,276.6	-943.3	8,328.7	0.00	0.00	0.00
20,800.0	90.00	179.58	12,100.0	-8,376.6	-942.5	8,428.1	0.00	0.00	0.00
20,900.0	90.00	179.58	12,100.0	-8,476.6	-941.8	8,527.6	0.00	0.00	0.00
21,000.0	90.00	179.58	12,100.0	-8,576.6	-941.1	8,627.1	0.00	0.00	0.00
21,100.0	90.00	179.58	12,100.0	-8,676.6	-940.3	8,726.6	0.00	0.00	0.00
21,200.0	90.00	179.58	12,100.0	-8,776.6	-939.6	8,826.1	0.00	0.00	0.00
21,300.0	90.00	179.58	12,100.0	-8,876.6	-938.9	8,925.6	0.00	0.00	0.00
21,400.0	90.00	179.58	12,100.0	-8,976.6	-938.1	9,025.0	0.00	0.00	0.00
21,500.0	90.00	179.58	12,100.0	-9,076.6	-937.4	9,124.5	0.00	0.00	0.00
21,600.0	90.00	179.58	12,100.0	-9,176.6	-936.7	9,224.0	0.00	0.00	0.00
21,700.0	90.00	179.58	12,100.0	-9,276.6	-935.9	9,323.5	0.00	0.00	0.00
21,800.0	90.00	179.58	12,100.0	-9,376.6	-935.2	9,423.0	0.00	0.00	0.00
21,900.0	90.00	179.58	12,100.0	-9,476.6	-934.5	9,522.5	0.00	0.00	0.00
22,000.0	90.00	179.58	12,100.0	-9,576.6	-933.8	9,621.9	0.00	0.00	0.00
22,100.0	90.00	179.58	12,100.0	-9,676.6	-933.0	9,721.4	0.00	0.00	0.00
22,200.0	90.00	179.58	12,100.0	-9,776.6	-932.3	9,820.9	0.00	0.00	0.00
22,211.7	90.00	179.58	12,100.0	-9,788.3	-932.2	9,832.6	0.00	0.00	0.00
Start 50.0 hold at 22211.7 MD									
22,261.7	90.00	179.58	12,100.0	-9,838.3	-931.8	9,882.3	0.00	0.00	0.00
TD at 22261.7									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #707H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + GL 3550.2ft @ 3582.2usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP(WINDWARD FED #	0.00	0.00	12,100.0	574.8	-1,007.8	435,295.30	692,133.90	32° 11' 42.787 N	103° 42' 43.998 W
- plan misses target center by 314.8usft at 12040.7usft MD (11911.3 TVD, 322.8 N, -1006.3 E)									
- Circle (radius 50.0)									
PBHL(WINDWARD FED	0.00	359.58	12,100.0	-9,838.3	-931.8	424,882.20	692,209.90	32° 9' 59.736 N	103° 42' 43.813 W
- plan hits target center									
- Rectangle (sides W100.0 H10,500.0 D20.0)									
LTP(WINDWARD FED #	0.00	0.00	12,100.0	-9,788.3	-932.2	424,932.20	692,209.50	32° 10' 0.230 N	103° 42' 43.815 W
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth	Vertical	Local Coordinates			
(usft)	Depth	+N/-S	+E/-W		
	(usft)	(usft)	(usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00	
2,600.2	2,595.8	24.1	-57.8	Start 4342.5 hold at 2600.2 MD	
6,942.7	6,843.4	371.8	-891.4	Start Drop -1.00	
8,143.1	8,035.0	420.0	-1,007.0	Start 3587.5 hold at 8143.1 MD	
11,730.6	11,622.5	420.0	-1,007.0	Start DLS 12.00 TFO 179.58	
12,480.6	12,100.0	-57.5	-1,003.5	Start 9731.1 hold at 12480.6 MD	
22,211.7	12,100.0	-9,788.3	-932.2	Start 50.0 hold at 22211.7 MD	
22,261.7	12,100.0	-9,838.3	-931.8	TD at 22261.7	



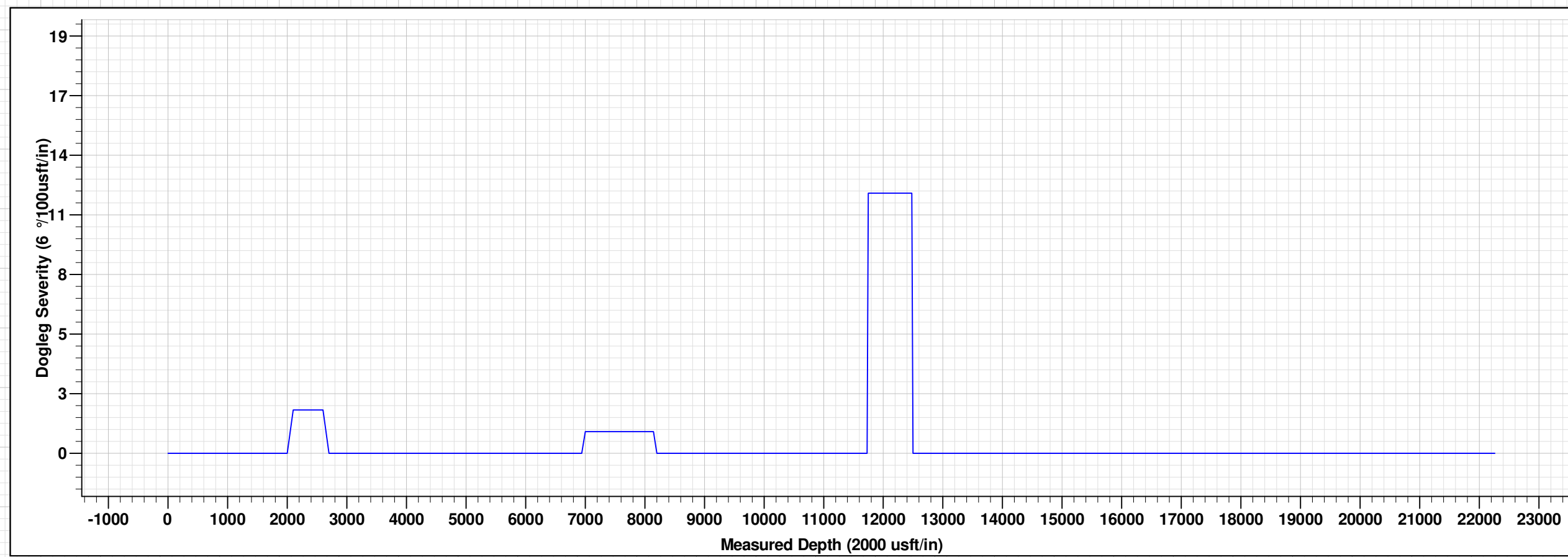
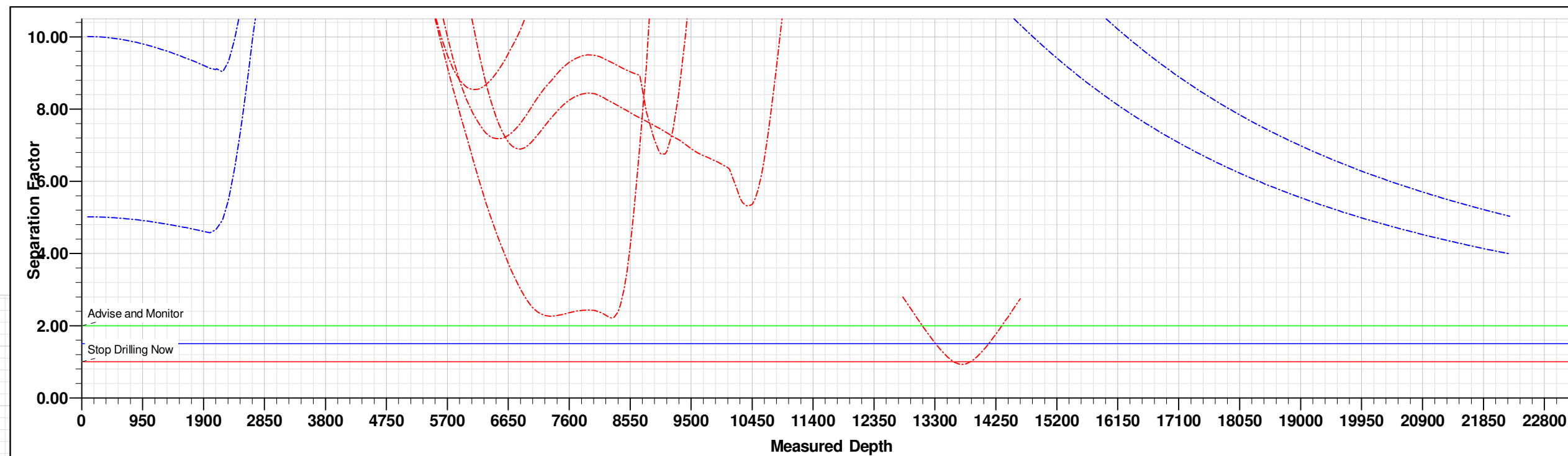
Project: BULLDOG PROSPECT (NM-E)
Site: WINDWARD FEDERAL PROJECT (BULLDOG 2432)
Well: WINDWARD FEDERAL #707H
Wellbore: OWB
Design: PWP0
GL: 3550.2
RKB 32ft + GL 3550.2ft @ 3582.2usft

WELL DETAILS: WINDWARD FEDERAL #707H

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434720.50	693141.70	32° 11' 37.041 N	103° 42' 32.309 W

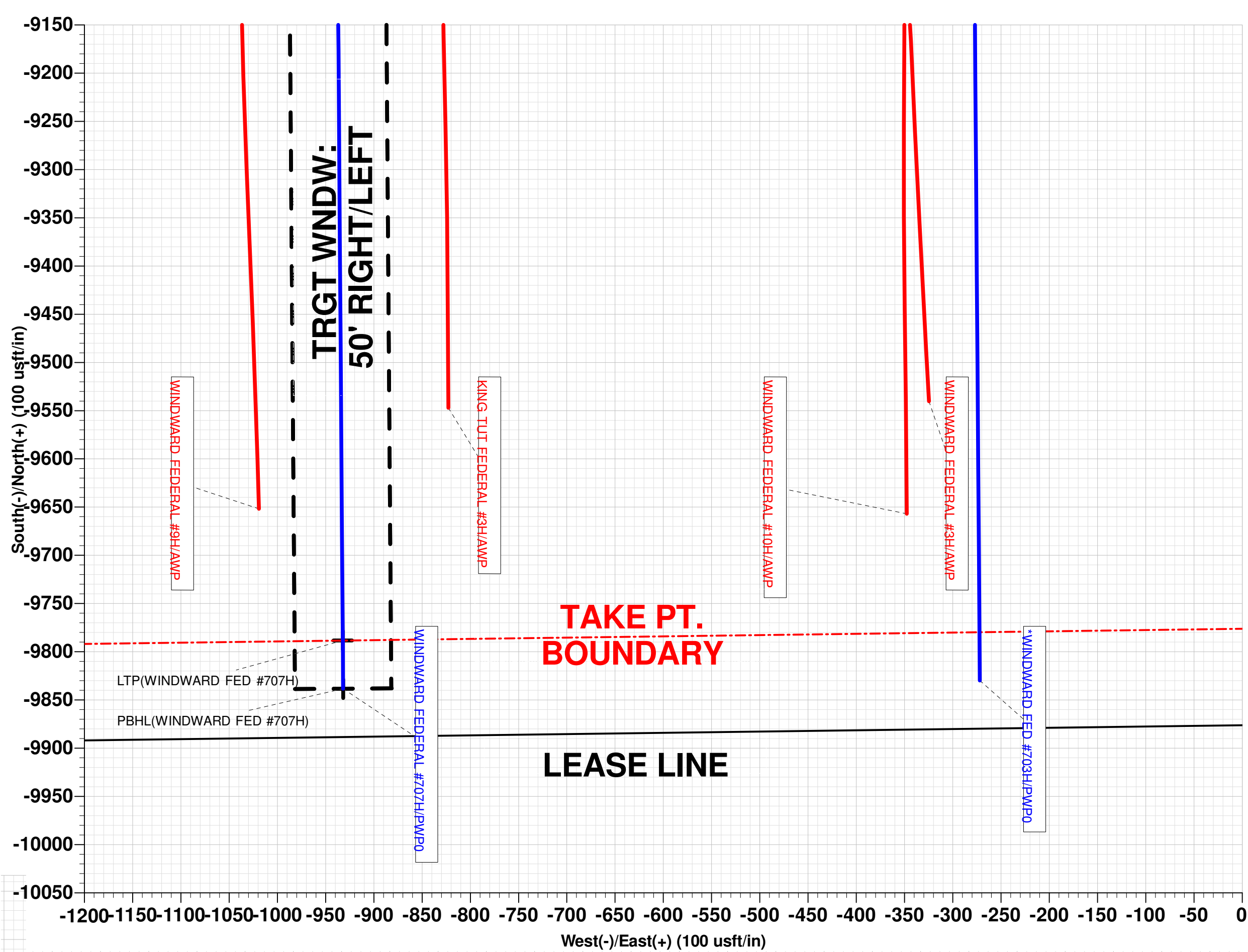
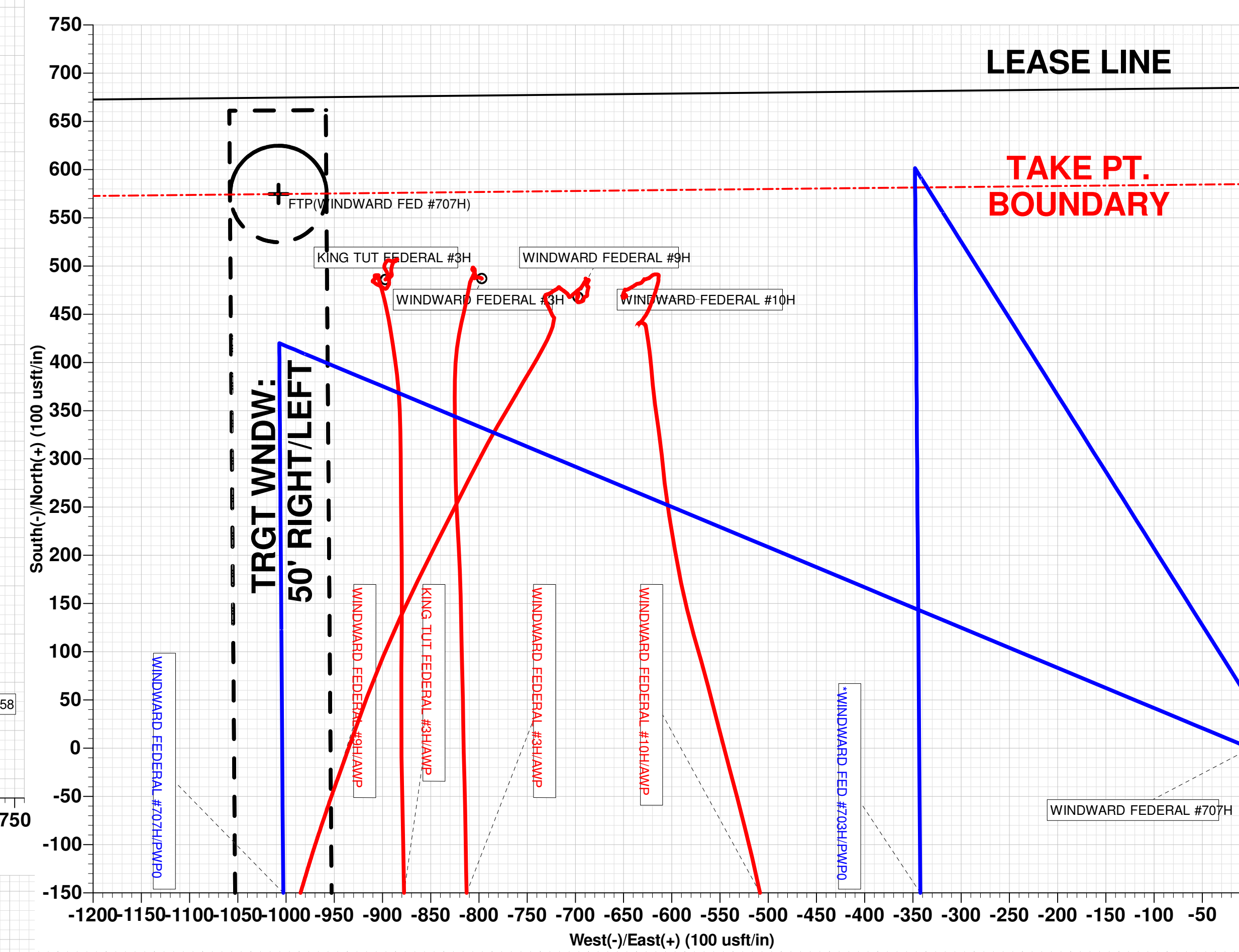
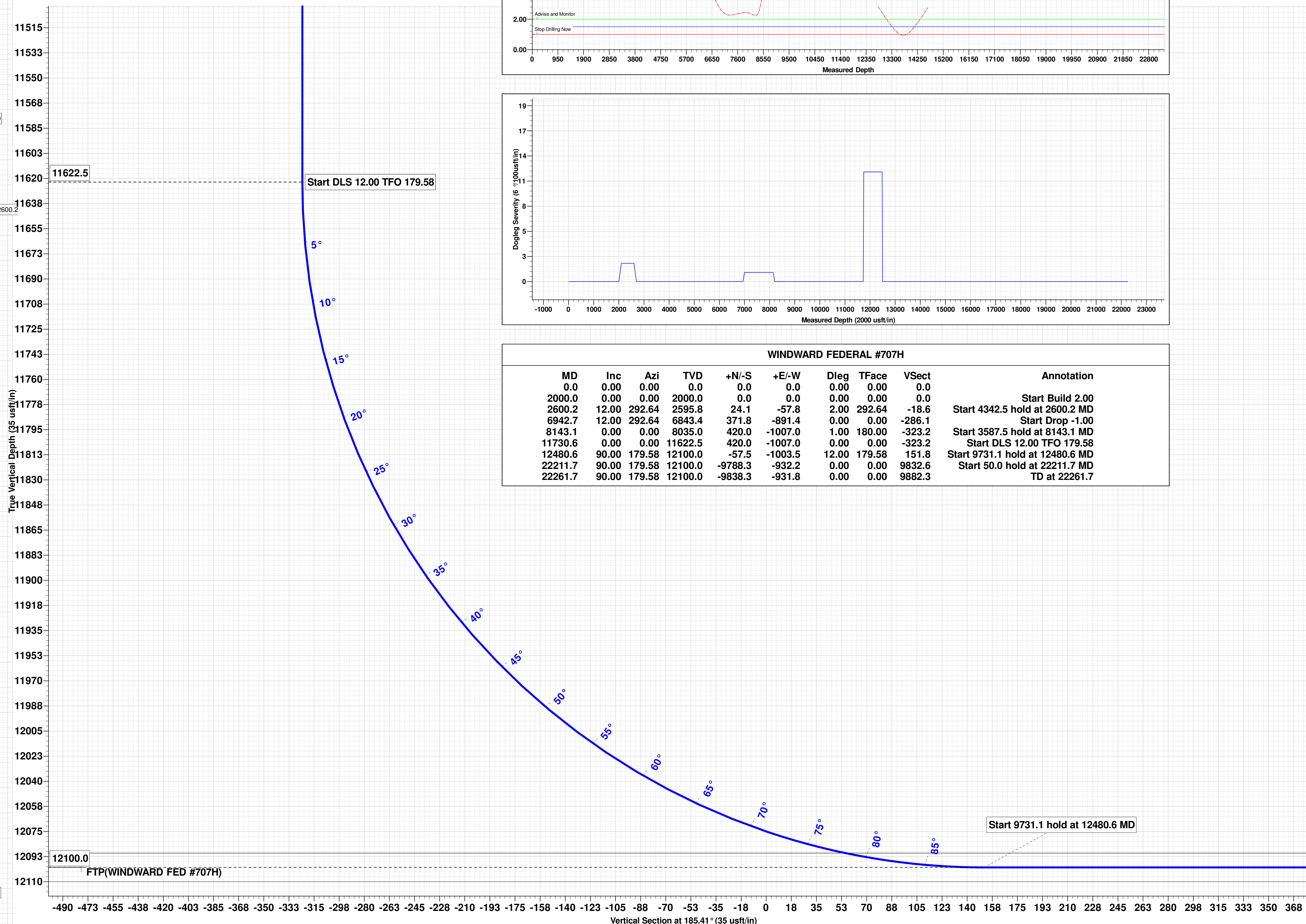
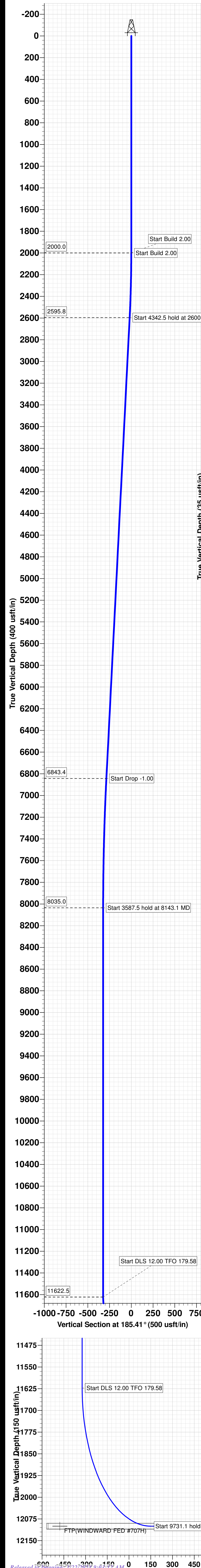
DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
FTP(WINDWARD FED #707H)	12100.0	574.8	-1007.8	435295.30	692133.90	32° 11' 42.787 N	103° 42' 43.998 W
LTP(WINDWARD FED #707H)	12100.0	-9788.3	-932.2	424932.20	692209.50	32° 10' 0.230 N	103° 42' 43.815 W
PBHL(WINDWARD FED #707H)	12100.0	-9838.3	-931.8	424882.20	692209.90	32° 9' 59.736 N	103° 42' 43.813 W

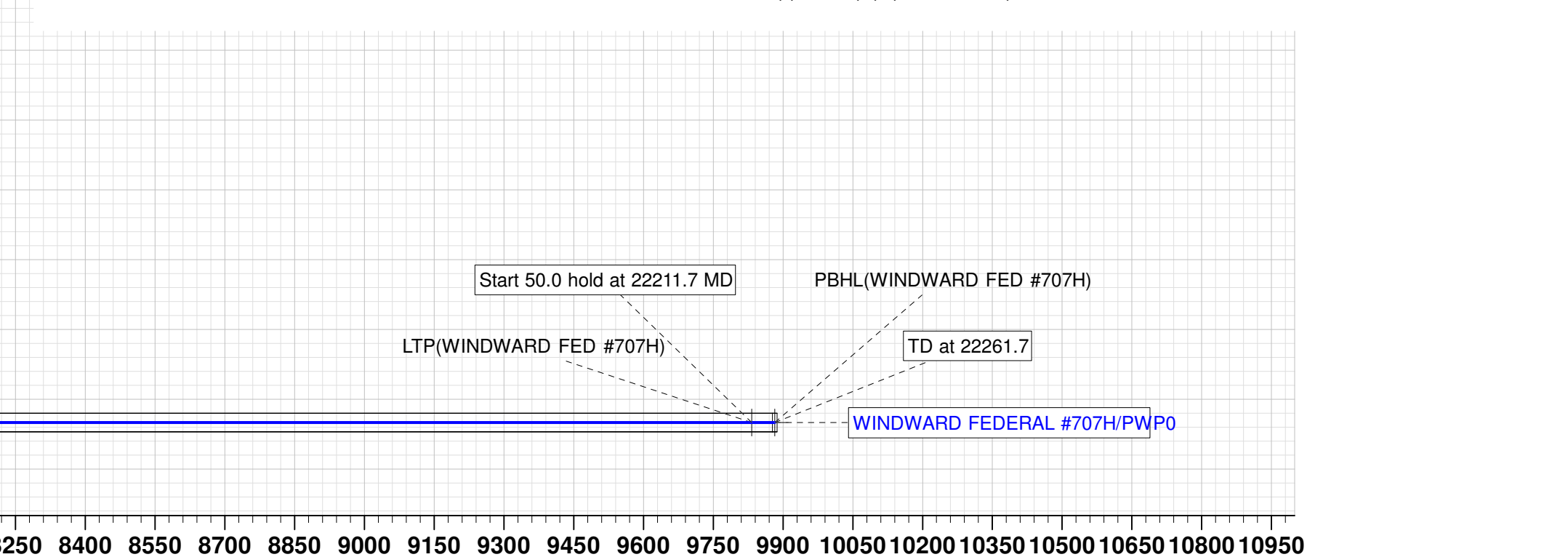
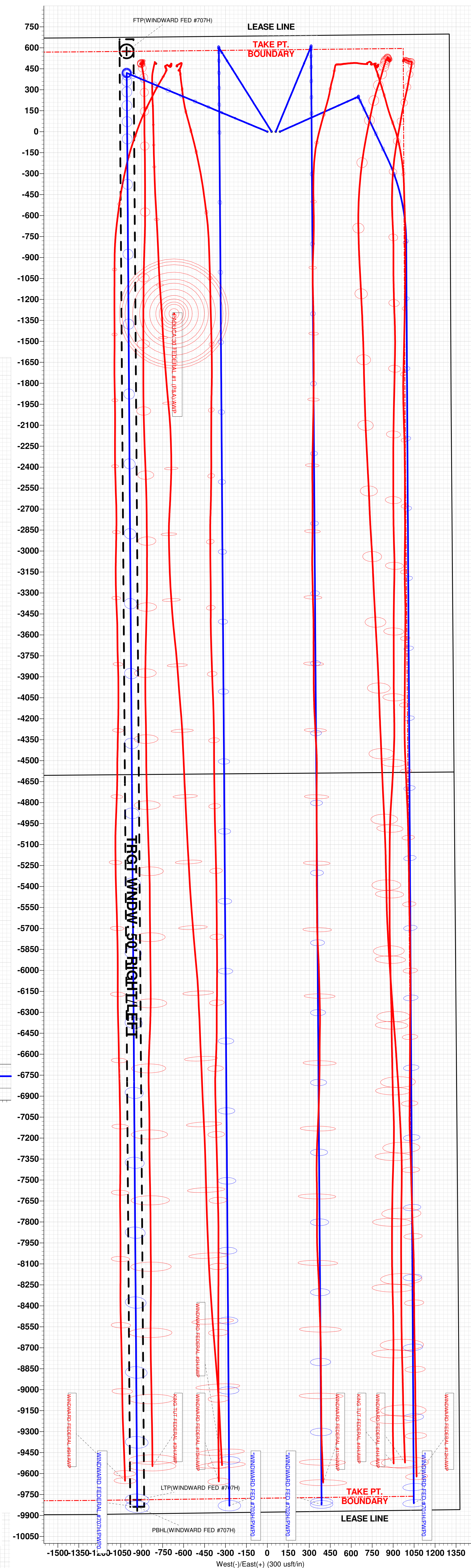


WINDWARD FEDERAL #707H

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start 4342.5 hold at 2600.2 MD
2600.2	12.00	292.64	2595.8	24.1	-57.8	2.00	292.64	-18.6	Start Drop -1.00
6942.7	12.00	292.64	6843.4	371.8	-891.4	0.00	0.00	-286.1	Start 3587.5 hold at 8143.1 MD
8143.1	0.00	0.00	8035.0	420.0	-1007.0	1.00	180.00	-323.2	Start DLS 12.00 TFO 179.58
11730.6	0.00	0.00	11622.5	420.0	-1007.0	0.00	0.00	-323.2	Start 9731.1 hold at 12480.6 MD
12480.6	90.00	179.58	12100.0	-57.5	-1003.5	12.00	179.58	151.8	Start 50.0 hold at 22211.7 MD
22211.7	90.00	179.58	12100.0	-9788.3	-932.2	0.00	0.00	9832.6	TD at 22261.7
22261.7	90.00	179.58	12100.0	-9838.3	-931.8	0.00	0.00	9882.3	

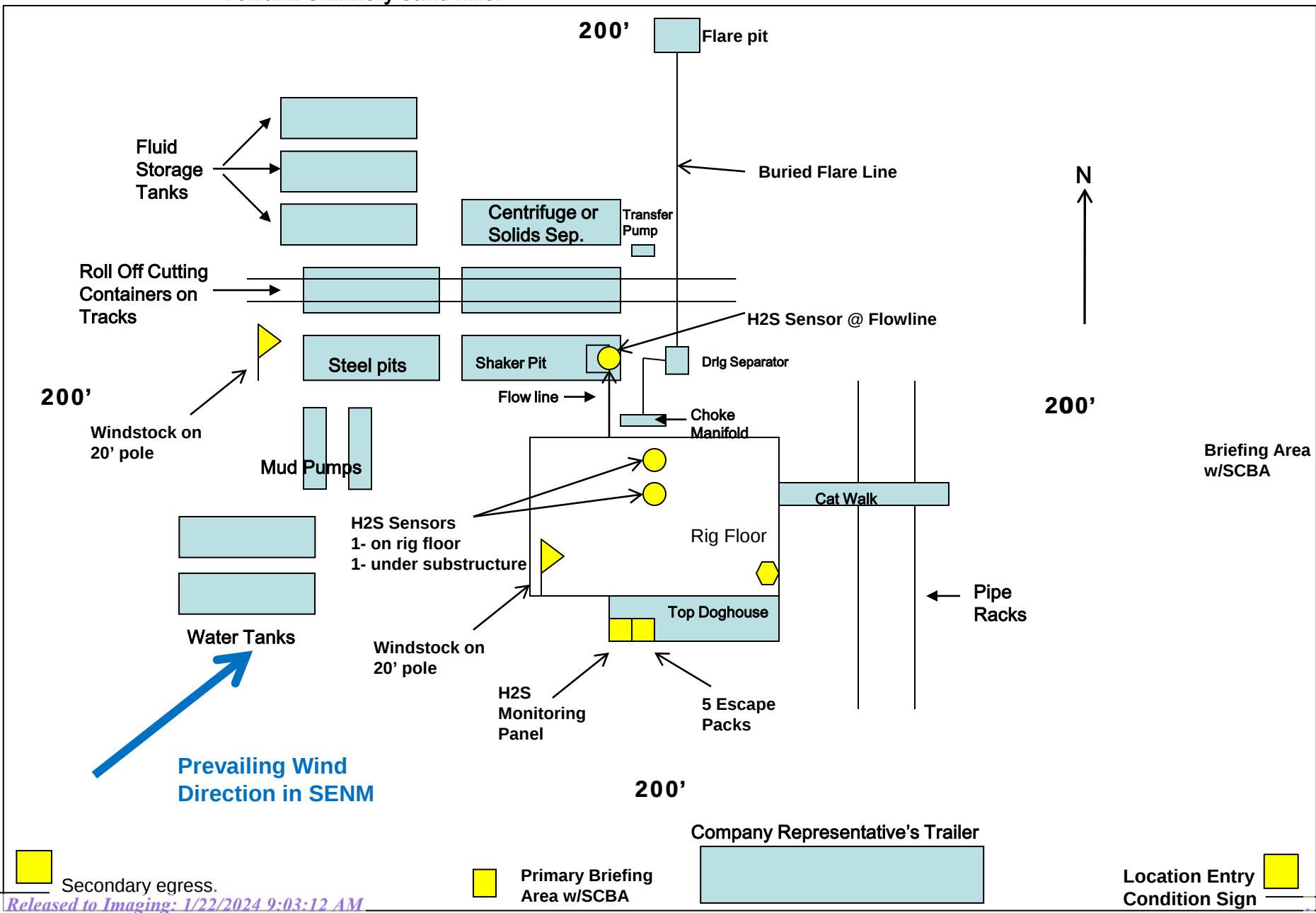


TRGT WNDW: 10' ABOVE/BELOW



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

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



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM88163
LOCATION:	Section 30, T.24 S, R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Windward Fed 707H
SURFACE HOLE FOOTAGE:	685'/N & 1305'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2310'/E

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **805** feet (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.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
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.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) 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 43 CFR 3172 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 43 CFR 3171 and 3172.
- 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.

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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
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:

- 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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)
 - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. 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.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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.

ZS 9/11/2023

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 303920

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:
	217955
	Action Number:
	303920
Action Type:	
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/22/2024
pkautz	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	1/22/2024
pkautz	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	1/22/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/22/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	1/22/2024