

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.
2. Name of Operator [217955]		8. Lease Name and Well No. [40143]
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-025-52451
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory XXXXX [98248]
11. Sec., T. R. M. or Blk. and Survey or Area		12. County or Parish
13. State		
14. Distance in miles and direction from nearest town or post office*	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

KZ
01/22/2024

SL

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: LOT 1 / 710 FNL / 670 FWL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193653 / LONG: -103.720805 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 100 FNL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.195328 / LONG: -103.721905 (TVD: 11895 feet, MD: 11928 feet)

BHL: LOT 4 / 50 FSL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.166718 / LONG: -103.72189 (TVD: 12100 feet, MD: 22051 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) 476-3460 Fax: (505) 476-3462

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- 30-025-52451	Pool Code 98248	Pool Name WC-025 G-08 S243217P;UPR WC
Property Code 40143	Property Name WINDWARD FEDERAL	Well Number 708H
OGRID No. 217955	Operator Name COG PRODUCTION, LLC	Elevation 3541.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D(1)	30	24-S	32-E		710	NORTH	670	WEST	LEA

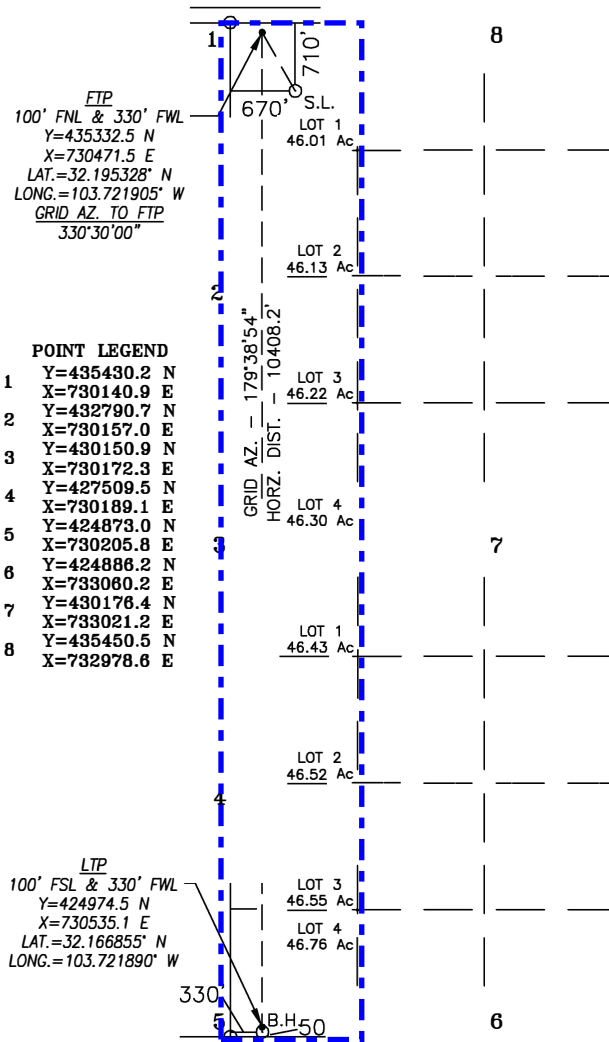
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	24-S	32-E		50	SOUTH	330	WEST	LEA

Dedicated Acres Joint or Infill Consolidation Code Order No.

371.72

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



NAD 83 NME
SURFACE LOCATION
Y=434724.9 N
X=730815.3 E
LAT.=32.193653° N
LONG.=103.720805° 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.

Signature Stan Wagner Date 6/9/2022

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



Signature Chad Harcrow Date 5/3/22
Certificate No. CHAD HARCROW 17777
W.O. # 22-549 DRAWN BY: WN

NAD 83 NME
PROPOSED BOTTOM HOLE LOCATION
Y=424924.5 N
X=730535.4 E
LAT.=32.166718° N
LONG.=103.721890° W

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 708H

1. Geologic Formations

TVD of target	12,100' EOL	Pilot hole depth	NA
MD at TD:	22,051'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	768	Water	
Top of Salt	1064	Salt	
Base of Salt	4383	Salt	
Lamar	4619	Salt Water	
Bell Canyon	4643	Salt Water	
Cherry Canyon	5561	Oil/Gas	
Brushy Canyon	6855	Oil/Gas	
BSPG	8482	Oil/Gas	
BS1S	9621	Oil/Gas	
BS1SH	9856	Oil/Gas	
BS2S	10225	Oil/Gas	
WFMP	11949	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	1014	10.75"	45.5	J55	BTC	4.50	1.08	15.50	17.25
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	W 513	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	22,051	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 708H

	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 708H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	484	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
	1042	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 708H

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 708H

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
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6. Logging and Testing Procedures

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

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

COG Operating, LLC - Windward Federal 708H**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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

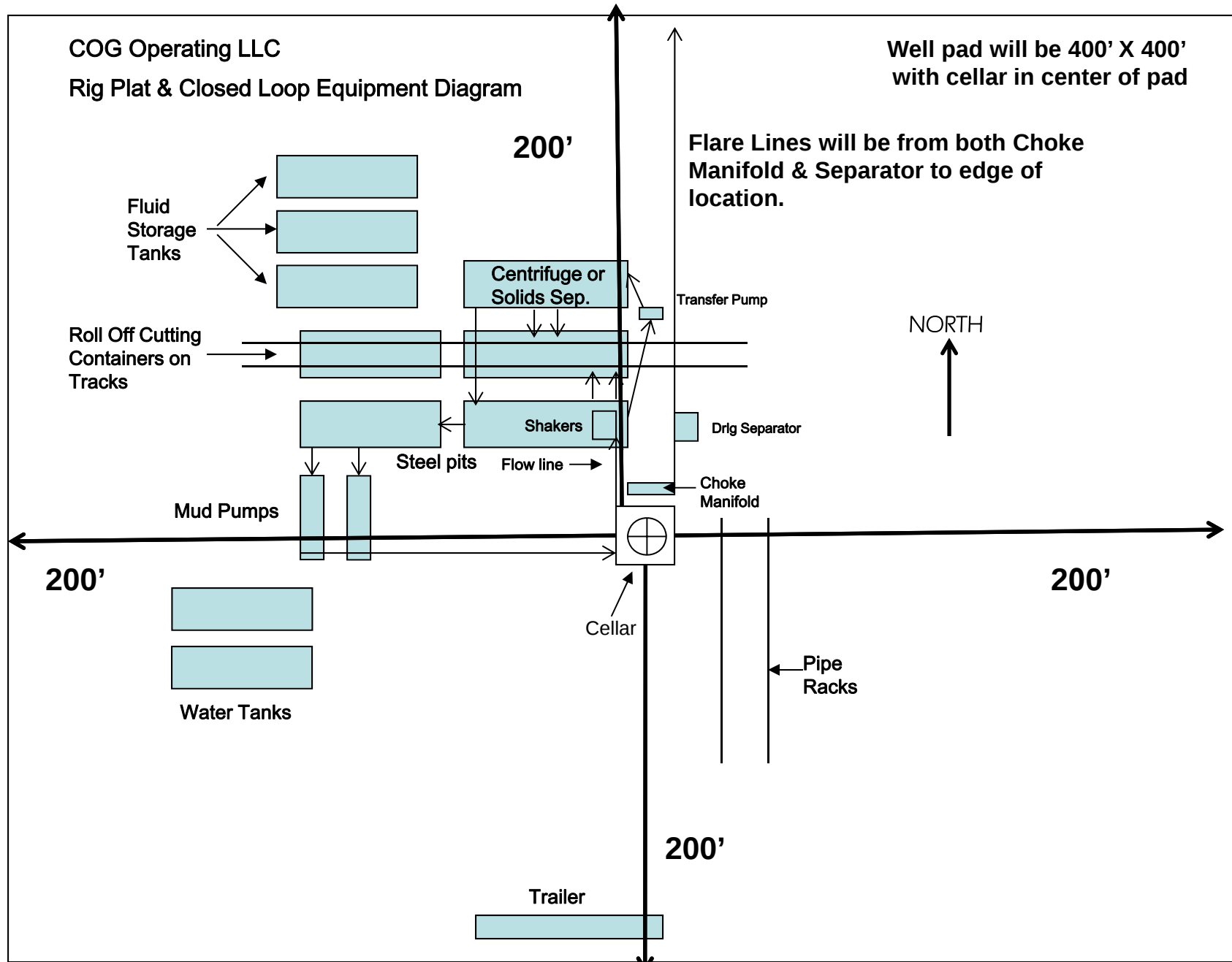


Exhibit 1

"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 #708H

OWB

PWP0

Anticollision Report

25 May, 2022

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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	11,638.0	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
11,638.0	22,051.3	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						
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
*WINDWARD FED #704H - OWB - PWP0	2,000.0	1,993.5	89.9	83.4	13.671	CC, ES
*WINDWARD FED #704H - OWB - PWP0	2,090.0	2,083.5	90.3	83.7	13.637	SF
*WINDWARD FED #705H - OWB - PWP0	2,000.0	1,993.5	59.9	49.1	5.533	CC, ES
*WINDWARD FED #705H - OWB - PWP0	2,185.0	2,178.4	61.7	50.2	5.362	SF
*WINDWARD FED #706H - OWB - PWP0	2,000.0	1,993.9	29.9	23.3	4.545	CC, ES
*WINDWARD FED #706H - OWB - PWP0	22,051.3	22,299.0	661.5	496.4	4.006	SF
KING TUT FEDERAL #1H - OWB - AWP	7,980.0	8,012.5	258.7	195.8	4.114	SF
KING TUT FEDERAL #1H - OWB - AWP	8,200.0	8,222.9	226.8	176.1	4.468	ES
KING TUT FEDERAL #1H - OWB - AWP	8,212.3	8,230.7	226.7	176.5	4.516	CC
KING TUT FEDERAL #2H - OWB - AWP						Out of range
REDHEAD 31 FEDERAL #1H - OWB - AWP						Out of range
TURQUOISE 30 FEDERAL SWD #1 (P&A) - OWB - AW						Out of range
WINDWARD FEDERAL #1H - OWB - AWP	10,275.6	10,290.2	170.9	115.9	3.106	CC, ES, SF
WINDWARD FEDERAL #2H - LAT 01 - AWP						Out of range
WINDWARD FEDERAL #2H - OWB (PH) - AWP						Out of range
WINDWARD FEDERAL #5H - OWB - AWP	9,043.8	9,044.4	108.4	65.1	2.505	CC, ES, SF
WINDWARD FEDERAL #6H - OWB - AWP	7,855.8	7,836.0	56.4	28.2	1.996	Advise and Monitor, CC
WINDWARD FEDERAL #6H - OWB - AWP	7,980.0	7,960.0	56.8	28.1	1.978	Advise and Monitor, ES
WINDWARD FEDERAL #6H - OWB - AWP	8,075.0	8,054.8	57.3	28.3	1.975	Advise and Monitor, SF
WINDWARD FEDERAL #7H - OWB - AWP						Out of range
WINDWARD FEDERAL #8H - 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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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
Offset Well - Wellbore - Design						
WINDWARD FEDERAL PROJECT (BULLDOG 2432)						
*WINDWARD FED #704H - OWB - PWP0	22,051.3	22,297.6				Out of Range @TD
*WINDWARD FED #705H - OWB - PWP0	22,051.3	22,385.0				Out of Range @TD
*WINDWARD FED #706H - OWB - PWP0	22,051.3	22,299.0	661.5	496.4	4.006	SF
KING TUT FEDERAL #1H - OWB - AWP	22,051.3	18,100.0				Out of Range @TD
KING TUT FEDERAL #2H - OWB - AWP	22,051.3	18,142.0				Out of Range @TD
REDHEAD 31 FEDERAL #1H - OWB - AWP	22,051.3	14,760.0				Out of Range @TD
TURQUOISE 30 FEDERAL SWD #1 (P&A) - OWB - AW	22,051.3	8,750.0				Out of Range @TD
WINDWARD FEDERAL #1H - OWB - AWP	22,051.3	14,872.0				Out of Range @TD
WINDWARD FEDERAL #2H - LAT 01 - AWP	22,051.3	20,401.0				Out of Range @TD
WINDWARD FEDERAL #2H - OWB (PH) - AWP	22,051.3	11,220.0				Out of Range @TD
WINDWARD FEDERAL #5H - OWB - AWP	22,051.3	19,108.0				Out of Range @TD
WINDWARD FEDERAL #6H - OWB - AWP	22,051.3	18,862.1				Out of Range @TD
WINDWARD FEDERAL #7H - OWB - AWP	22,051.3	19,120.0				Out of Range @TD
WINDWARD FEDERAL #8H - OWB - AWP	22,051.3	19,115.0				Out of Range @TD

Offset Design: WINDWARD FEDERAL PROJECT (BULLDOG 2432) - *WINDWARD FED #704H - OWB - PWP0											
Survey Program: 0-Standard Keeper 104, 11736-MWD+IFR1+FDIR											
Rule Assigned:											
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
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)	Factor
0.0	0.0	0.0	0.0	3.0	3.0	89.90	0.2	89.9	90.2		
95.0	95.0	88.5	88.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.00
100.0	100.0	93.5	93.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.00
190.0	190.0	183.5	183.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.00
200.0	200.0	193.5	193.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.00
285.0	285.0	278.5	278.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.01
300.0	300.0	293.5	293.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.01
380.0	380.0	373.5	373.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.02
400.0	400.0	393.5	393.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.02
475.0	475.0	468.5	468.5	3.0	3.0	89.90	0.2	89.9	89.9	83.9	6.03
500.0	500.0	493.5	493.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.03
570.0	570.0	563.5	563.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.04
600.0	600.0	593.5	593.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.05
665.0	665.0	658.5	658.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.06
700.0	700.0	693.5	693.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.06
760.0	760.0	753.5	753.5	3.1	3.1	89.90	0.2	89.9	89.9	83.9	6.08

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 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	
800.0	800.0	793.5	793.5	3.2	3.2	89.90	0.2	89.9	89.9	83.9	6.09	14.777	
855.0	855.0	848.5	848.5	3.2	3.2	89.90	0.2	89.9	89.9	83.8	6.10	14.744	
900.0	900.0	893.5	893.5	3.2	3.2	89.90	0.2	89.9	89.9	83.8	6.11	14.716	
950.0	950.0	943.5	943.5	3.2	3.2	89.90	0.2	89.9	89.9	83.8	6.13	14.684	
1,000.0	1,000.0	993.5	993.5	3.2	3.2	89.90	0.2	89.9	89.9	83.8	6.14	14.649	
1,045.0	1,045.0	1,038.5	1,038.5	3.3	3.3	89.90	0.2	89.9	89.9	83.8	6.15	14.617	
1,100.0	1,100.0	1,093.5	1,093.5	3.3	3.3	89.90	0.2	89.9	89.9	83.8	6.17	14.575	
1,140.0	1,140.0	1,133.5	1,133.5	3.3	3.3	89.90	0.2	89.9	89.9	83.8	6.18	14.544	
1,200.0	1,200.0	1,193.5	1,193.5	3.4	3.3	89.90	0.2	89.9	89.9	83.7	6.20	14.495	
1,235.0	1,235.0	1,228.5	1,228.5	3.4	3.4	89.90	0.2	89.9	89.9	83.7	6.22	14.466	
1,300.0	1,300.0	1,293.5	1,293.5	3.4	3.4	89.90	0.2	89.9	89.9	83.7	6.24	14.409	
1,330.0	1,330.0	1,323.5	1,323.5	3.4	3.4	89.90	0.2	89.9	89.9	83.7	6.25	14.382	
1,400.0	1,400.0	1,393.5	1,393.5	3.5	3.5	89.90	0.2	89.9	89.9	83.7	6.28	14.318	
1,425.0	1,425.0	1,418.5	1,418.5	3.5	3.5	89.90	0.2	89.9	89.9	83.6	6.29	14.294	
1,500.0	1,500.0	1,493.5	1,493.5	3.5	3.5	89.90	0.2	89.9	89.9	83.6	6.32	14.221	
1,520.0	1,520.0	1,513.5	1,513.5	3.6	3.6	89.90	0.2	89.9	89.9	83.6	6.33	14.201	
1,600.0	1,600.0	1,593.5	1,593.5	3.6	3.6	89.90	0.2	89.9	89.9	83.6	6.37	14.119	
1,615.0	1,615.0	1,608.5	1,608.5	3.6	3.6	89.90	0.2	89.9	89.9	83.6	6.38	14.103	
1,700.0	1,700.0	1,693.5	1,693.5	3.7	3.7	89.90	0.2	89.9	89.9	83.5	6.42	14.013	
1,710.0	1,710.0	1,703.5	1,703.5	3.7	3.7	89.90	0.2	89.9	89.9	83.5	6.42	14.002	
1,800.0	1,800.0	1,793.5	1,793.5	3.8	3.8	89.90	0.2	89.9	89.9	83.5	6.47	13.903	
1,805.0	1,805.0	1,798.5	1,798.5	3.8	3.8	89.90	0.2	89.9	89.9	83.5	6.47	13.897	
1,900.0	1,900.0	1,893.5	1,893.5	3.9	3.9	89.90	0.2	89.9	89.9	83.4	6.52	13.789	
1,995.0	1,995.0	1,988.5	1,988.5	3.9	3.9	89.90	0.2	89.9	89.9	83.4	6.58	13.677	
2,000.0	2,000.0	1,993.5	1,993.5	3.9	3.9	89.90	0.2	89.9	89.9	83.4	6.58	13.671 CC, ES	
2,090.0	2,090.0	2,083.5	2,083.5	4.1	4.0	105.69	0.2	89.9	90.3	83.7	6.62	13.637 SF	
2,100.0	2,100.0	2,093.5	2,093.5	4.2	4.0	105.89	0.2	89.9	90.4	83.8	6.63	13.640	
2,185.0	2,184.9	2,178.4	2,178.4	4.7	4.1	108.41	0.2	89.9	91.6	85.0	6.70	13.686	
2,200.0	2,199.8	2,193.3	2,193.3	4.8	4.1	109.00	0.2	89.9	92.0	85.3	6.71	13.704	
2,280.0	2,279.6	2,273.1	2,273.1	5.3	4.2	112.79	0.2	89.9	94.4	87.5	6.85	13.775	
2,299.9	2,299.4	2,292.9	2,292.9	5.4	4.2	113.88	0.2	89.9	95.2	88.3	6.90	13.799	
2,375.0	2,374.0	2,367.5	2,367.5	5.7	4.3	118.04	0.2	89.9	98.6	91.5	7.11	13.875	
2,400.0	2,398.9	2,392.4	2,392.4	5.7	4.3	119.35	0.2	89.9	99.9	92.7	7.18	13.907	
2,470.0	2,468.5	2,462.0	2,462.0	5.8	4.4	122.87	0.2	89.9	103.7	96.3	7.43	13.961	
2,500.0	2,498.4	2,491.9	2,491.9	5.9	4.4	124.29	0.2	89.9	105.4	97.9	7.53	13.992	
2,565.0	2,563.0	2,554.9	2,554.9	6.0	4.4	126.98	0.3	90.4	109.8	102.0	7.77	14.133	
2,600.0	2,597.8	2,588.7	2,588.7	6.0	4.5	128.14	0.6	91.2	112.7	104.8	7.88	14.296	
2,660.0	2,657.5	2,646.6	2,646.6	6.1	4.5	129.69	1.3	93.5	118.5	110.4	8.07	14.686	
2,700.0	2,697.3	2,685.2	2,685.0	6.2	4.5	130.43	2.0	95.6	122.9	114.7	8.18	15.027	
2,755.0	2,752.0	2,738.1	2,737.8	6.3	4.5	131.11	3.2	99.3	129.6	121.2	8.32	15.569	
2,800.0	2,796.7	2,781.2	2,780.8	6.4	4.6	131.39	4.4	103.1	135.6	127.1	8.43	16.083	
2,850.0	2,846.4	2,829.0	2,828.3	6.5	4.6	131.46	6.0	107.9	142.8	134.3	8.55	16.711	
2,900.0	2,896.2	2,876.7	2,875.6	6.6	4.6	131.31	7.8	113.5	150.6	142.0	8.65	17.404	
2,945.0	2,940.9	2,919.4	2,917.9	6.7	4.6	131.01	9.6	119.1	158.2	149.4	8.75	18.071	
3,000.0	2,995.6	2,971.4	2,969.2	6.8	4.7	130.48	12.1	126.8	168.0	159.2	8.87	18.946	
3,040.0	3,035.4	3,009.0	3,006.3	6.9	4.7	129.99	14.0	132.8	175.7	166.7	8.95	19.617	
3,100.0	3,095.1	3,065.1	3,061.4	7.1	4.7	129.15	17.2	142.8	187.8	178.8	9.08	20.677	
3,135.0	3,129.9	3,097.6	3,093.2	7.1	4.8	128.60	19.3	149.0	195.4	186.2	9.16	21.322	
3,200.0	3,194.5	3,160.8	3,155.0	7.3	4.8	127.57	23.3	161.5	209.7	200.3	9.32	22.500	
3,230.0	3,224.4	3,190.0	3,183.6	7.4	4.8	127.15	25.2	167.3	216.3	206.9	9.40	23.021	
3,300.0	3,294.0	3,258.1	3,250.3	7.6	4.9	126.24	29.5	180.8	231.8	222.2	9.58	24.183	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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:										
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)		
3,325.0	3,318.8	3,282.5	3,274.1	7.6	4.9	125.94	31.1	185.6	237.3	227.7	9.66	24.580	
3,400.0	3,393.4	3,355.5	3,345.6	7.8	4.9	125.13	35.8	200.1	254.0	244.1	9.88	25.718	
3,420.0	3,413.3	3,375.0	3,364.6	7.9	4.9	124.94	37.0	203.9	258.5	248.5	9.94	26.008	
3,500.0	3,492.9	3,452.9	3,440.8	8.1	5.0	124.21	42.0	219.3	276.3	266.1	10.19	27.117	
3,515.0	3,507.8	3,467.5	3,455.1	8.1	5.0	124.08	42.9	222.2	279.7	269.4	10.24	27.316	
3,600.0	3,592.3	3,550.3	3,536.1	8.4	5.1	123.42	48.2	238.6	298.7	288.1	10.52	28.392	
3,610.0	3,602.3	3,560.1	3,545.6	8.4	5.1	123.35	48.8	240.5	300.9	290.4	10.55	28.513	
3,700.0	3,691.8	3,647.7	3,631.4	8.7	5.2	122.74	54.5	257.9	321.1	310.2	10.86	29.555	
3,705.0	3,696.8	3,652.6	3,636.1	8.7	5.2	122.71	54.8	258.8	322.2	311.3	10.88	29.610	
3,800.0	3,791.2	3,745.1	3,726.6	9.0	5.2	122.15	60.7	277.1	343.5	332.3	11.22	30.616	
3,895.0	3,885.7	3,837.6	3,817.1	9.2	5.3	121.66	66.6	295.4	364.9	353.3	11.57	31.538	
3,900.0	3,890.7	3,842.5	3,821.9	9.3	5.3	121.63	66.9	296.4	366.0	354.4	11.59	31.585	
3,990.0	3,980.2	3,930.2	3,907.6	9.5	5.4	121.22	72.5	313.7	386.2	374.3	11.93	32.386	
4,000.0	3,990.1	3,939.9	3,917.2	9.6	5.4	121.18	73.1	315.7	388.5	376.5	11.96	32.471	
4,085.0	4,074.7	4,022.7	3,998.1	9.8	5.5	120.83	78.4	332.0	407.6	395.3	12.29	33.165	
4,100.0	4,089.6	4,037.3	4,012.4	9.9	5.5	120.77	79.4	334.9	411.0	398.6	12.35	33.283	
4,180.0	4,169.2	4,115.2	4,088.6	10.1	5.6	120.47	84.4	350.3	429.0	416.4	12.66	33.883	
4,200.0	4,189.0	4,134.7	4,107.7	10.2	5.6	120.40	85.6	354.2	433.5	420.8	12.74	34.027	
4,275.0	4,263.6	4,207.7	4,179.1	10.4	5.7	120.15	90.3	368.6	450.4	437.4	13.04	34.544	
4,300.0	4,288.5	4,232.1	4,203.0	10.5	5.7	120.07	91.8	373.5	456.1	442.9	13.14	34.709	
4,370.0	4,358.1	4,300.2	4,269.6	10.7	5.8	119.86	96.2	386.9	471.9	458.5	13.42	35.155	
4,400.0	4,388.0	4,329.5	4,298.2	10.8	5.8	119.78	98.1	392.7	478.6	465.1	13.55	35.337	
4,465.0	4,452.6	4,392.8	4,360.1	11.0	5.9	119.60	102.1	405.2	493.3	479.5	13.81	35.718	
4,500.0	4,487.4	4,426.9	4,393.5	11.1	5.9	119.51	104.3	412.0	501.2	487.3	13.96	35.915	
4,560.0	4,547.1	4,485.3	4,450.6	11.3	6.0	119.35	108.0	423.6	514.8	500.6	14.20	36.239	
4,600.0	4,586.9	4,524.2	4,488.7	11.4	6.0	119.26	110.5	431.3	523.8	509.4	14.37	36.447	
4,655.0	4,641.6	4,577.8	4,541.1	11.6	6.1	119.13	114.0	441.9	536.2	521.6	14.60	36.722	
4,700.0	4,686.3	4,621.6	4,584.0	11.8	6.1	119.03	116.8	450.5	546.4	531.6	14.79	36.938	
4,750.0	4,736.0	4,670.3	4,631.6	11.9	6.2	118.92	119.9	460.2	557.7	542.7	15.00	37.169	
4,800.0	4,785.8	4,719.0	4,679.3	12.1	6.2	118.82	123.0	469.8	569.0	553.8	15.22	37.392	
4,820.6	4,806.2	4,739.1	4,698.9	12.2	6.2	118.78	124.3	473.8	573.7	558.3	15.30	37.482	
4,845.0	4,830.5	4,762.9	4,722.1	12.2	6.3	118.78	125.8	478.5	579.1	563.7	15.41	37.586	
4,900.0	4,885.3	4,816.5	4,774.6	12.4	6.3	118.74	129.2	489.1	591.3	575.7	15.64	37.801	
4,940.0	4,925.1	4,855.5	4,812.7	12.5	6.4	118.68	131.7	496.8	600.1	584.3	15.82	37.941	
5,000.0	4,984.9	4,914.0	4,870.0	12.7	6.4	118.56	135.5	508.4	612.9	596.8	16.08	38.128	
5,035.0	5,019.8	4,948.2	4,903.5	12.8	6.5	118.47	137.6	515.1	620.3	604.0	16.23	38.224	
5,100.0	5,084.7	5,011.7	4,965.6	13.1	6.5	118.27	141.7	527.7	633.7	617.2	16.51	38.379	
5,130.0	5,114.7	5,041.0	4,994.2	13.2	6.6	118.16	143.6	533.5	639.8	623.1	16.64	38.442	
5,200.0	5,184.6	5,109.5	5,061.2	13.4	6.7	117.86	148.0	547.0	653.7	636.8	16.95	38.565	
5,225.0	5,209.6	5,133.9	5,085.1	13.5	6.7	117.74	149.5	551.9	658.6	641.6	17.06	38.602	
5,300.0	5,284.6	5,207.3	5,156.9	13.7	6.8	117.34	154.2	566.4	673.0	655.6	17.40	38.691	
5,320.0	5,304.6	5,226.8	5,176.0	13.8	6.8	117.23	155.5	570.3	676.8	659.3	17.48	38.709	
5,400.0	5,384.6	5,305.1	5,252.5	14.0	6.9	116.73	160.5	585.7	691.7	673.8	17.84	38.763	
5,415.0	5,399.6	5,319.8	5,266.9	14.1	6.9	116.63	161.4	588.6	694.4	676.5	17.91	38.771	
5,420.4	5,405.0	5,325.1	5,272.1	14.1	6.9	101.66	161.8	589.7	695.4	677.5	17.93	38.774	
5,500.0	5,484.6	5,402.9	5,348.2	14.4	7.0	101.01	166.7	605.1	709.9	691.6	18.29	38.806	
5,510.0	5,494.6	5,412.7	5,357.8	14.4	7.0	100.93	167.4	607.0	711.7	693.4	18.34	38.809	
5,600.0	5,584.6	5,500.7	5,443.9	14.7	7.1	100.22	173.0	624.4	728.3	709.5	18.75	38.835	
5,605.0	5,589.6	5,505.6	5,448.7	14.7	7.1	100.18	173.3	625.4	729.2	710.4	18.78	38.836	
5,700.0	5,684.6	5,598.5	5,539.6	15.0	7.3	99.47	179.2	643.8	746.7	727.5	19.22	38.859	
5,795.0	5,779.6	5,691.5	5,630.5	15.3	7.4	98.79	185.2	662.2	764.4	744.8	19.66	38.882	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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:		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)			
5,800.0	5,784.6	5,696.4	5,635.2	15.3	7.4	98.76	185.5	663.1	765.3	745.7	19.68	38.883	
5,890.0	5,874.6	5,784.4	5,721.4	15.6	7.5	98.15	191.1	680.5	782.2	762.1	20.11	38.905	
5,900.0	5,884.6	5,794.2	5,730.9	15.7	7.5	98.08	191.8	682.5	784.1	763.9	20.15	38.907	
5,985.0	5,969.6	5,877.3	5,812.2	15.9	7.6	97.53	197.1	698.9	800.0	779.5	20.55	38.928	
6,000.0	5,984.6	5,892.0	5,826.6	16.0	7.7	97.43	198.0	701.8	802.9	782.2	20.62	38.931	
6,080.0	6,064.6	5,970.2	5,903.1	16.3	7.8	96.93	203.0	717.3	818.0	797.0	21.00	38.951	
6,100.0	6,084.6	5,989.8	5,922.3	16.3	7.8	96.81	204.3	721.2	821.8	800.7	21.10	38.956	
6,175.0	6,159.6	6,063.2	5,994.0	16.6	7.9	96.37	209.0	735.7	836.0	814.6	21.45	38.974	
6,200.0	6,184.6	6,087.6	6,018.0	16.7	7.9	96.22	210.5	740.5	840.8	819.2	21.57	38.981	
6,270.0	6,254.6	6,156.1	6,084.9	16.9	8.0	95.82	214.9	754.1	854.1	832.2	21.90	38.998	
6,300.0	6,284.6	6,185.4	6,113.6	17.0	8.1	95.66	216.8	759.9	859.9	837.8	22.04	39.006	
6,365.0	6,349.6	6,249.0	6,175.8	17.2	8.2	95.30	220.9	772.5	872.3	850.0	22.35	39.023	
6,400.0	6,384.6	6,283.2	6,209.3	17.3	8.2	95.12	223.0	779.2	879.0	856.5	22.52	39.032	
6,460.0	6,444.6	6,341.9	6,266.7	17.5	8.3	94.80	226.8	790.8	890.6	867.7	22.81	39.047	
6,500.0	6,484.6	6,381.1	6,305.0	17.7	8.3	94.60	229.3	798.6	898.3	875.3	23.00	39.058	
6,555.0	6,539.6	6,434.9	6,357.6	17.9	8.4	94.33	232.7	809.2	908.9	885.6	23.26	39.072	
6,600.0	6,584.6	6,478.9	6,400.7	18.0	8.5	94.10	235.6	817.9	917.6	894.1	23.48	39.085	
6,650.0	6,634.6	6,527.8	6,448.5	18.2	8.6	93.86	238.7	827.6	927.2	903.5	23.72	39.098	
6,700.0	6,684.6	6,576.7	6,496.3	18.3	8.6	93.63	241.8	837.3	936.9	913.0	23.96	39.111	
6,745.0	6,729.6	6,620.7	6,539.4	18.5	8.7	93.42	244.6	846.0	945.7	921.5	24.17	39.124	
6,800.0	6,784.6	6,674.5	6,592.0	18.7	8.8	93.17	248.1	856.6	956.3	931.9	24.43	39.139	
6,840.0	6,824.6	6,713.6	6,630.3	18.8	8.8	93.00	250.6	864.4	964.1	939.5	24.63	39.150	
6,900.0	6,884.6	6,772.3	6,687.7	19.0	8.9	92.74	254.3	876.0	975.8	950.9	24.92	39.166	
6,935.0	6,919.6	6,806.6	6,721.2	19.1	9.0	92.59	256.5	882.8	982.7	957.6	25.08	39.176	
7,000.0	6,984.6	6,870.1	6,783.4	19.4	9.1	92.31	260.6	895.3	995.4	970.0	25.40	39.194	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 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	
0.0	0.0	0.0	0.0	3.0	3.0	89.85	0.2	59.9	60.3				
95.0	95.0	88.5	88.5	3.0	3.0	89.85	0.2	59.9	59.9	53.9	6.00	9.986	
100.0	100.0	93.5	93.5	3.0	3.0	89.85	0.2	59.9	59.9	53.9	6.00	9.985	
190.0	190.0	183.5	183.5	3.0	3.0	89.85	0.2	59.9	59.9	53.9	6.03	9.936	
200.0	200.0	193.5	193.5	3.0	3.0	89.85	0.2	59.9	59.9	53.9	6.04	9.927	
285.0	285.0	278.5	278.5	3.0	3.1	89.85	0.2	59.9	59.9	53.8	6.10	9.823	
300.0	300.0	293.5	293.5	3.0	3.1	89.85	0.2	59.9	59.9	53.8	6.12	9.800	
380.0	380.0	373.5	373.5	3.0	3.2	89.85	0.2	59.9	59.9	53.7	6.21	9.655	
400.0	400.0	393.5	393.5	3.0	3.2	89.85	0.2	59.9	59.9	53.7	6.23	9.614	
475.0	475.0	468.5	468.5	3.0	3.3	89.85	0.2	59.9	59.9	53.6	6.35	9.443	
500.0	500.0	493.5	493.5	3.1	3.4	89.85	0.2	59.9	59.9	53.5	6.39	9.381	
570.0	570.0	563.5	563.5	3.1	3.5	89.85	0.2	59.9	59.9	53.4	6.52	9.198	
600.0	600.0	593.5	593.5	3.1	3.6	89.85	0.2	59.9	59.9	53.4	6.58	9.116	
665.0	665.0	658.5	658.5	3.1	3.7	89.85	0.2	59.9	59.9	53.2	6.71	8.931	
700.0	700.0	693.5	693.5	3.1	3.8	89.85	0.2	59.9	59.9	53.1	6.79	8.829	
760.0	760.0	753.5	753.5	3.1	3.9	89.85	0.2	59.9	59.9	53.0	6.93	8.651	
800.0	800.0	793.5	793.5	3.2	4.0	89.85	0.2	59.9	59.9	52.9	7.03	8.531	
855.0	855.0	848.5	848.5	3.2	4.1	89.85	0.2	59.9	59.9	52.8	7.16	8.366	
900.0	900.0	893.5	893.5	3.2	4.2	89.85	0.2	59.9	59.9	52.7	7.28	8.230	
950.0	950.0	943.5	943.5	3.2	4.4	89.85	0.2	59.9	59.9	52.5	7.42	8.080	
1,000.0	1,000.0	993.5	993.5	3.2	4.5	89.85	0.2	59.9	59.9	52.4	7.56	7.932	
1,045.0	1,045.0	1,038.5	1,038.5	3.3	4.6	89.85	0.2	59.9	59.9	52.3	7.68	7.800	
1,100.0	1,100.0	1,093.5	1,093.5	3.3	4.8	89.85	0.2	59.9	59.9	52.1	7.84	7.641	
1,140.0	1,140.0	1,133.5	1,133.5	3.3	4.9	89.85	0.2	59.9	59.9	52.0	7.96	7.527	
1,200.0	1,200.0	1,193.5	1,193.5	3.4	5.0	89.85	0.2	59.9	59.9	51.8	8.15	7.359	
1,235.0	1,235.0	1,228.5	1,228.5	3.4	5.1	89.85	0.2	59.9	59.9	51.7	8.25	7.263	
1,300.0	1,300.0	1,293.5	1,293.5	3.4	5.3	89.85	0.2	59.9	59.9	51.5	8.46	7.088	
1,330.0	1,330.0	1,323.5	1,323.5	3.4	5.4	89.85	0.2	59.9	59.9	51.4	8.55	7.009	
1,400.0	1,400.0	1,393.5	1,393.5	3.5	5.6	89.85	0.2	59.9	59.9	51.2	8.78	6.830	
1,425.0	1,425.0	1,418.5	1,418.5	3.5	5.7	89.85	0.2	59.9	59.9	51.1	8.86	6.767	
1,500.0	1,500.0	1,493.5	1,493.5	3.5	5.9	89.85	0.2	59.9	59.9	50.8	9.10	6.584	
1,520.0	1,520.0	1,513.5	1,513.5	3.6	6.0	89.85	0.2	59.9	59.9	50.8	9.17	6.536	
1,600.0	1,600.0	1,593.5	1,593.5	3.6	6.3	89.85	0.2	59.9	59.9	50.5	9.44	6.350	
1,615.0	1,615.0	1,608.5	1,608.5	3.6	6.3	89.85	0.2	59.9	59.9	50.4	9.49	6.316	
1,700.0	1,700.0	1,693.5	1,693.5	3.7	6.6	89.85	0.2	59.9	59.9	50.2	9.78	6.129	
1,710.0	1,710.0	1,703.5	1,703.5	3.7	6.6	89.85	0.2	59.9	59.9	50.1	9.81	6.107	
1,800.0	1,800.0	1,793.5	1,793.5	3.8	6.9	89.85	0.2	59.9	59.9	49.8	10.13	5.919	
1,805.0	1,805.0	1,798.5	1,798.5	3.8	6.9	89.85	0.2	59.9	59.9	49.8	10.14	5.909	
1,900.0	1,900.0	1,893.5	1,893.5	3.9	7.2	89.85	0.2	59.9	59.9	49.5	10.48	5.721	
1,995.0	1,995.0	1,988.5	1,988.5	3.9	7.5	89.85	0.2	59.9	59.9	49.1	10.82	5.542	
2,000.0	2,000.0	1,993.5	1,993.5	3.9	7.5	89.85	0.2	59.9	59.9	49.1	10.83	5.533 CC, ES	
2,090.0	2,090.0	2,083.5	2,083.5	4.1	7.8	106.07	0.2	59.9	60.3	49.2	11.15	5.410	
2,100.0	2,100.0	2,093.5	2,093.5	4.2	7.9	106.37	0.2	59.9	60.4	49.2	11.18	5.402	
2,185.0	2,184.9	2,178.4	2,178.4	4.7	8.2	110.11	0.2	59.9	61.7	50.2	11.51	5.362 SF	
2,200.0	2,199.8	2,193.3	2,193.3	4.8	8.2	110.97	0.2	59.9	62.1	50.5	11.58	5.364	
2,280.0	2,279.6	2,273.1	2,273.1	5.3	8.5	116.45	0.2	59.9	64.8	52.8	11.98	5.406	
2,299.9	2,299.4	2,292.9	2,292.9	5.4	8.5	118.00	0.2	59.9	65.7	53.6	12.10	5.429	
2,375.0	2,374.0	2,367.5	2,367.5	5.7	8.8	123.67	0.2	59.9	69.8	57.2	12.58	5.545	
2,400.0	2,398.9	2,392.4	2,392.4	5.7	8.9	125.42	0.2	59.9	71.2	58.5	12.74	5.592	
2,470.0	2,468.5	2,462.0	2,462.0	5.8	9.1	129.92	0.2	59.9	75.7	62.5	13.21	5.734	
2,500.0	2,498.4	2,491.9	2,491.9	5.9	9.2	131.68	0.2	59.9	77.8	64.4	13.41	5.802	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												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)			
2,565.0	2,563.0	2,555.8	2,555.8	6.0	9.4	134.82	0.5	60.4	82.7	68.9	13.83	5.982	
2,600.0	2,597.8	2,590.2	2,590.2	6.0	9.5	136.00	1.0	61.1	85.7	71.7	14.04	6.105	
2,660.0	2,657.5	2,649.2	2,649.2	6.1	9.7	137.28	2.4	63.1	91.3	76.9	14.38	6.346	
2,700.0	2,697.3	2,688.5	2,688.4	6.2	9.9	137.68	3.7	65.0	95.2	80.6	14.59	6.527	
2,755.0	2,752.0	2,742.5	2,742.2	6.3	10.1	137.70	6.0	68.4	101.1	86.2	14.87	6.794	
2,800.0	2,796.7	2,786.6	2,786.1	6.4	10.2	137.34	8.3	71.7	106.1	91.0	15.09	7.030	
2,850.0	2,846.4	2,835.5	2,834.8	6.5	10.4	136.60	11.4	76.1	112.1	96.7	15.33	7.307	
2,900.0	2,896.2	2,884.3	2,883.1	6.6	10.5	135.57	14.8	81.1	118.4	102.8	15.57	7.603	
2,945.0	2,940.9	2,928.0	2,926.4	6.7	10.7	134.43	18.4	86.1	124.4	108.6	15.78	7.883	
3,000.0	2,995.6	2,981.3	2,979.0	6.8	10.9	132.83	23.2	93.1	132.2	116.2	16.03	8.248	
3,040.0	3,035.4	3,019.9	3,017.0	6.9	11.0	131.55	27.0	98.6	138.2	122.0	16.21	8.527	
3,100.0	3,095.1	3,077.4	3,073.5	7.1	11.2	129.52	33.3	107.6	147.9	131.4	16.49	8.972	
3,135.0	3,129.9	3,111.2	3,106.5	7.1	11.3	128.27	37.2	113.3	153.9	137.3	16.66	9.243	
3,200.0	3,194.5	3,174.9	3,168.9	7.3	11.5	126.12	44.8	124.1	165.4	148.4	16.99	9.733	
3,230.0	3,224.4	3,204.3	3,197.6	7.4	11.6	125.22	48.3	129.1	170.7	153.6	17.15	9.953	
3,300.0	3,294.0	3,272.9	3,264.7	7.6	11.9	123.33	56.4	140.9	183.3	165.8	17.54	10.452	
3,325.0	3,318.8	3,297.4	3,288.7	7.6	11.9	122.72	59.3	145.0	187.9	170.2	17.69	10.624	
3,400.0	3,393.4	3,370.9	3,360.6	7.8	12.2	121.04	68.0	157.6	201.6	183.5	18.13	11.125	
3,420.0	3,413.3	3,390.5	3,379.8	7.9	12.3	120.63	70.4	160.9	205.3	187.1	18.25	11.255	
3,500.0	3,492.9	3,468.9	3,456.5	8.1	12.5	119.14	79.7	174.3	220.2	201.5	18.73	11.756	
3,515.0	3,507.8	3,483.6	3,470.9	8.1	12.6	118.88	81.4	176.8	223.0	204.2	18.83	11.847	
3,600.0	3,592.3	3,566.9	3,552.4	8.4	12.9	117.52	91.3	191.1	239.0	219.6	19.36	12.346	
3,610.0	3,602.3	3,576.7	3,561.9	8.4	12.9	117.38	92.4	192.7	240.9	221.5	19.42	12.403	
3,700.0	3,691.8	3,665.0	3,648.2	8.7	13.2	116.15	102.9	207.8	257.9	237.9	20.00	12.898	
3,705.0	3,696.8	3,669.9	3,653.0	8.7	13.2	116.09	103.5	208.6	258.9	238.8	20.03	12.925	
3,800.0	3,791.2	3,763.0	3,744.1	9.0	13.6	114.96	114.5	224.5	277.0	256.3	20.65	13.415	
3,895.0	3,885.7	3,856.1	3,835.2	9.2	13.9	113.98	125.6	240.4	295.2	273.9	21.27	13.875	
3,900.0	3,890.7	3,861.0	3,840.0	9.3	13.9	113.93	126.2	241.3	296.1	274.8	21.31	13.899	
3,990.0	3,980.2	3,949.2	3,926.3	9.5	14.2	113.10	136.6	256.3	313.4	291.5	21.90	14.308	
4,000.0	3,990.1	3,959.0	3,935.9	9.6	14.3	113.02	137.8	258.0	315.3	293.4	21.97	14.352	
4,085.0	4,074.7	4,042.3	4,017.4	9.8	14.6	112.33	147.7	272.2	331.7	309.2	22.54	14.716	
4,100.0	4,089.6	4,057.0	4,031.7	9.9	14.6	112.21	149.4	274.7	334.6	312.0	22.64	14.779	
4,180.0	4,169.2	4,135.4	4,108.4	10.1	14.9	111.63	158.7	288.1	350.1	326.9	23.19	15.101	
4,200.0	4,189.0	4,155.0	4,127.6	10.2	15.0	111.50	161.1	291.5	354.0	330.7	23.32	15.180	
4,275.0	4,263.6	4,228.6	4,199.5	10.4	15.2	111.01	169.8	304.0	368.5	344.7	23.83	15.465	
4,300.0	4,288.5	4,253.1	4,223.5	10.5	15.3	110.85	172.7	308.2	373.4	349.4	24.00	15.557	
4,370.0	4,358.1	4,321.7	4,290.6	10.7	15.6	110.44	180.8	319.9	387.0	362.5	24.48	15.808	
4,400.0	4,388.0	4,351.1	4,319.4	10.8	15.7	110.27	184.3	324.9	392.8	368.2	24.69	15.912	
4,465.0	4,452.6	4,414.8	4,381.7	11.0	15.9	109.93	191.9	335.8	405.5	380.4	25.14	16.133	
4,500.0	4,487.4	4,449.1	4,415.2	11.1	16.0	109.75	196.0	341.7	412.3	387.0	25.38	16.248	
4,560.0	4,547.1	4,507.9	4,472.8	11.3	16.3	109.46	202.9	351.7	424.0	398.2	25.79	16.441	
4,600.0	4,586.9	4,547.1	4,511.1	11.4	16.4	109.27	207.6	358.4	431.8	405.8	26.07	16.565	
4,655.0	4,641.6	4,601.0	4,563.8	11.6	16.6	109.03	214.0	367.6	442.6	416.1	26.45	16.732	
4,700.0	4,686.3	4,645.1	4,607.0	11.8	16.8	108.84	219.2	375.1	451.4	424.6	26.76	16.865	
4,750.0	4,736.0	4,694.1	4,654.9	11.9	16.9	108.63	225.0	383.5	461.2	434.0	27.11	17.009	
4,800.0	4,785.8	4,743.1	4,702.9	12.1	17.1	108.44	230.8	391.9	470.9	443.5	27.46	17.150	
4,820.6	4,806.2	4,763.3	4,722.6	12.2	17.2	108.36	233.2	395.3	475.0	447.4	27.60	17.207	
4,845.0	4,830.5	4,787.3	4,746.0	12.2	17.3	108.31	236.1	399.4	479.7	452.0	27.77	17.274	
4,900.0	4,885.3	4,841.2	4,798.8	12.4	17.5	108.15	242.5	408.6	490.3	462.2	28.15	17.417	
4,940.0	4,925.1	4,880.4	4,837.1	12.5	17.6	108.01	247.1	415.3	498.0	469.5	28.43	17.514	
5,000.0	4,984.9	4,939.2	4,894.7	12.7	17.8	107.75	254.1	425.4	509.3	480.4	28.85	17.651	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)		
5,035.0	5,019.8	4,973.6	4,928.3	12.8	18.0	107.58	258.2	431.2	515.8	486.7	29.10	17.726	
5,100.0	5,084.7	5,037.3	4,990.6	13.1	18.2	107.21	265.8	442.1	527.7	498.2	29.56	17.856	
5,130.0	5,114.7	5,066.7	5,019.4	13.2	18.3	107.02	269.2	447.1	533.2	503.4	29.77	17.913	
5,200.0	5,184.6	5,135.3	5,086.5	13.4	18.6	106.53	277.4	458.8	545.8	515.6	30.26	18.037	
5,225.0	5,209.6	5,159.9	5,110.5	13.5	18.6	106.34	280.3	463.0	550.3	519.8	30.44	18.079	
5,300.0	5,284.6	5,233.3	5,182.3	13.7	18.9	105.74	289.0	475.6	563.5	532.6	30.97	18.198	
5,320.0	5,304.6	5,252.9	5,201.5	13.8	19.0	105.56	291.3	478.9	567.0	535.9	31.11	18.228	
5,400.0	5,384.6	5,331.2	5,278.1	14.0	19.3	104.83	300.6	492.3	580.9	549.3	31.67	18.341	
5,415.0	5,399.6	5,345.9	5,292.4	14.1	19.3	104.69	302.4	494.8	583.5	551.8	31.78	18.362	
5,420.4	5,405.0	5,351.2	5,297.7	14.1	19.4	89.70	303.0	495.7	584.5	552.7	31.82	18.369	
5,500.0	5,484.6	5,429.0	5,373.8	14.4	19.6	88.81	312.2	509.0	598.3	565.9	32.38	18.477	
5,510.0	5,494.6	5,438.8	5,383.3	14.4	19.7	88.70	313.4	510.7	600.0	567.6	32.45	18.490	
5,600.0	5,584.6	5,526.9	5,469.4	14.7	20.0	87.75	323.8	525.7	615.8	582.7	33.10	18.607	
5,605.0	5,589.6	5,531.7	5,474.2	14.7	20.0	87.69	324.4	526.5	616.7	583.6	33.13	18.613	
5,700.0	5,684.6	5,624.7	5,565.1	15.0	20.4	86.74	335.4	542.4	633.5	599.7	33.82	18.735	
5,795.0	5,779.6	5,717.6	5,656.0	15.3	20.7	85.84	346.5	558.2	650.6	616.1	34.50	18.856	
5,800.0	5,784.6	5,722.5	5,660.8	15.3	20.7	85.79	347.0	559.1	651.5	616.9	34.54	18.862	
5,890.0	5,874.6	5,810.5	5,746.9	15.6	21.1	84.98	357.5	574.1	667.7	632.5	35.19	18.976	
5,900.0	5,884.6	5,820.3	5,756.5	15.7	21.1	84.89	358.7	575.8	669.5	634.3	35.26	18.988	
5,985.0	5,969.6	5,903.4	5,837.8	15.9	21.4	84.16	368.5	590.0	685.0	649.1	35.87	19.095	
6,000.0	5,984.6	5,918.1	5,852.2	16.0	21.5	84.04	370.3	592.5	687.8	651.8	35.98	19.113	
6,080.0	6,064.6	5,996.4	5,928.7	16.3	21.8	83.38	379.5	605.8	702.5	665.9	36.56	19.212	
6,100.0	6,084.6	6,015.9	5,947.8	16.3	21.8	83.23	381.9	609.2	706.1	669.4	36.71	19.237	
6,175.0	6,159.6	6,089.3	6,019.6	16.6	22.1	82.65	390.6	621.7	720.0	682.8	37.25	19.328	
6,200.0	6,184.6	6,113.7	6,043.5	16.7	22.2	82.46	393.5	625.9	724.6	687.2	37.43	19.359	
6,270.0	6,254.6	6,182.2	6,110.5	16.9	22.4	81.94	401.6	637.6	737.7	699.7	37.94	19.443	
6,300.0	6,284.6	6,211.6	6,139.2	17.0	22.6	81.73	405.1	642.6	743.3	705.1	38.16	19.479	
6,365.0	6,349.6	6,275.1	6,201.4	17.2	22.8	81.27	412.6	653.4	755.4	716.8	38.63	19.556	
6,400.0	6,384.6	6,309.4	6,234.9	17.3	22.9	81.03	416.7	659.3	762.0	723.1	38.88	19.597	
6,460.0	6,444.6	6,368.1	6,292.3	17.5	23.1	80.63	423.6	669.3	773.3	734.0	39.32	19.667	
6,500.0	6,484.6	6,407.2	6,330.5	17.7	23.3	80.37	428.3	676.0	780.9	741.2	39.61	19.713	
6,555.0	6,539.6	6,461.0	6,383.2	17.9	23.5	80.02	434.7	685.2	791.3	751.2	40.01	19.776	
6,600.0	6,584.6	6,505.0	6,426.2	18.0	23.7	79.74	439.9	692.7	799.8	759.5	40.34	19.827	
6,650.0	6,634.6	6,553.9	6,474.1	18.2	23.8	79.43	445.7	701.0	809.3	768.6	40.70	19.884	
6,700.0	6,684.6	6,602.8	6,521.9	18.3	24.0	79.14	451.5	709.4	818.8	777.8	41.06	19.940	
6,745.0	6,729.6	6,646.8	6,564.9	18.5	24.2	78.87	456.7	716.9	827.4	786.0	41.39	19.990	
6,800.0	6,784.6	6,700.6	6,617.6	18.7	24.4	78.56	463.1	726.1	837.9	796.1	41.79	20.050	
6,840.0	6,824.6	6,739.8	6,655.8	18.8	24.5	78.34	467.8	732.8	845.6	803.5	42.08	20.094	
6,900.0	6,884.6	6,798.4	6,713.2	19.0	24.8	78.01	474.7	742.8	857.1	814.6	42.52	20.158	
6,935.0	6,919.6	6,832.7	6,746.7	19.1	24.9	77.83	478.8	748.6	863.9	821.1	42.77	20.196	
7,000.0	6,984.6	6,896.3	6,808.9	19.4	25.1	77.49	486.3	759.5	876.4	833.1	43.25	20.264	
7,030.0	7,014.6	6,925.6	6,837.6	19.5	25.2	77.33	489.8	764.5	882.2	838.7	43.47	20.296	
7,100.0	7,084.6	6,994.1	6,904.6	19.7	25.5	76.98	497.9	776.2	895.7	851.7	43.98	20.369	
7,125.0	7,109.6	7,018.5	6,928.5	19.8	25.6	76.86	500.8	780.4	900.6	856.4	44.16	20.394	
7,200.0	7,184.6	7,091.9	7,000.3	20.1	25.9	76.50	509.5	792.9	915.1	870.4	44.70	20.471	
7,220.0	7,204.6	7,111.5	7,019.4	20.1	25.9	76.41	511.9	796.2	919.0	874.1	44.85	20.491	
7,300.0	7,284.6	7,189.7	7,096.0	20.4	26.2	76.04	521.1	809.6	934.6	889.1	45.43	20.571	
7,315.0	7,299.6	7,204.4	7,110.3	20.5	26.3	75.97	522.9	812.1	937.5	891.9	45.54	20.585	
7,400.0	7,384.6	7,287.5	7,191.6	20.7	26.6	75.60	532.7	826.3	954.1	907.9	46.16	20.669	
7,410.0	7,394.6	7,297.3	7,201.2	20.8	26.6	75.55	533.9	828.0	956.0	909.8	46.23	20.678	
7,500.0	7,484.6	7,385.3	7,287.3	21.1	27.0	75.17	544.4	843.0	973.6	926.8	46.89	20.765	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #705H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		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	
7,505.0	7,489.6	7,390.2	7,292.1	21.1	27.0	75.15	544.9	843.8	974.6	927.7	46.93	20.769	
7,600.0	7,584.6	7,483.1	7,383.0	21.4	27.3	74.76	556.0	859.7	993.3	945.6	47.62	20.859	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 11618-MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	89.43	0.3	29.9	30.5					
95.0	95.0	88.9	88.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.00	4.983		
100.0	100.0	93.9	93.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.00	4.983		
190.0	190.0	183.9	183.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.00	4.982		
200.0	200.0	193.9	193.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.00	4.981		
285.0	285.0	278.9	278.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.01	4.977		
300.0	300.0	293.9	293.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.01	4.976		
380.0	380.0	373.9	373.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.02	4.970		
400.0	400.0	393.9	393.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.02	4.969		
475.0	475.0	468.9	468.9	3.0	3.0	89.43	0.3	29.9	29.9	23.9	6.03	4.961		
500.0	500.0	493.9	493.9	3.1	3.1	89.43	0.3	29.9	29.9	23.9	6.03	4.959		
570.0	570.0	563.9	563.9	3.1	3.1	89.43	0.3	29.9	29.9	23.9	6.04	4.950		
600.0	600.0	593.9	593.9	3.1	3.1	89.43	0.3	29.9	29.9	23.9	6.05	4.946		
665.0	665.0	658.9	658.9	3.1	3.1	89.43	0.3	29.9	29.9	23.8	6.06	4.936		
700.0	700.0	693.9	693.9	3.1	3.1	89.43	0.3	29.9	29.9	23.8	6.06	4.930		
760.0	760.0	753.9	753.9	3.1	3.1	89.43	0.3	29.9	29.9	23.8	6.08	4.920		
800.0	800.0	793.9	793.9	3.2	3.2	89.43	0.3	29.9	29.9	23.8	6.09	4.913		
855.0	855.0	848.9	848.9	3.2	3.2	89.43	0.3	29.9	29.9	23.8	6.10	4.902		
900.0	900.0	893.9	893.9	3.2	3.2	89.43	0.3	29.9	29.9	23.8	6.11	4.893		
950.0	950.0	943.9	943.9	3.2	3.2	89.43	0.3	29.9	29.9	23.8	6.13	4.882		
1,000.0	1,000.0	993.9	993.9	3.2	3.2	89.43	0.3	29.9	29.9	23.8	6.14	4.870		
1,045.0	1,045.0	1,038.9	1,038.9	3.3	3.3	89.43	0.3	29.9	29.9	23.7	6.15	4.859		
1,100.0	1,100.0	1,093.9	1,093.9	3.3	3.3	89.43	0.3	29.9	29.9	23.7	6.17	4.846		
1,140.0	1,140.0	1,133.9	1,133.9	3.3	3.3	89.43	0.3	29.9	29.9	23.7	6.18	4.835		
1,200.0	1,200.0	1,193.9	1,193.9	3.4	3.4	89.43	0.3	29.9	29.9	23.7	6.20	4.819		
1,235.0	1,235.0	1,228.9	1,228.9	3.4	3.4	89.43	0.3	29.9	29.9	23.7	6.22	4.809		
1,300.0	1,300.0	1,293.9	1,293.9	3.4	3.4	89.43	0.3	29.9	29.9	23.7	6.24	4.790		
1,330.0	1,330.0	1,323.9	1,323.9	3.4	3.4	89.43	0.3	29.9	29.9	23.6	6.25	4.781		
1,400.0	1,400.0	1,393.9	1,393.9	3.5	3.5	89.43	0.3	29.9	29.9	23.6	6.28	4.760		
1,425.0	1,425.0	1,418.9	1,418.9	3.5	3.5	89.43	0.3	29.9	29.9	23.6	6.29	4.752		
1,500.0	1,500.0	1,493.9	1,493.9	3.5	3.5	89.43	0.3	29.9	29.9	23.6	6.32	4.728		
1,520.0	1,520.0	1,513.9	1,513.9	3.6	3.6	89.43	0.3	29.9	29.9	23.6	6.33	4.721		
1,600.0	1,600.0	1,593.9	1,593.9	3.6	3.6	89.43	0.3	29.9	29.9	23.5	6.37	4.694		
1,615.0	1,615.0	1,608.9	1,608.9	3.6	3.6	89.43	0.3	29.9	29.9	23.5	6.38	4.689		
1,700.0	1,700.0	1,693.9	1,693.9	3.7	3.7	89.43	0.3	29.9	29.9	23.5	6.42	4.659		
1,710.0	1,710.0	1,703.9	1,703.9	3.7	3.7	89.43	0.3	29.9	29.9	23.5	6.42	4.655		
1,800.0	1,800.0	1,793.9	1,793.9	3.8	3.8	89.43	0.3	29.9	29.9	23.4	6.47	4.622		
1,805.0	1,805.0	1,798.9	1,798.9	3.8	3.8	89.43	0.3	29.9	29.9	23.4	6.47	4.620		
1,900.0	1,900.0	1,893.9	1,893.9	3.9	3.9	89.43	0.3	29.9	29.9	23.4	6.52	4.584		
1,995.0	1,995.0	1,988.9	1,988.9	3.9	3.9	89.43	0.3	29.9	29.9	23.3	6.58	4.547		
2,000.0	2,000.0	1,993.9	1,993.9	3.9	3.9	89.43	0.3	29.9	29.9	23.3	6.58	4.545 CC, ES		
2,090.0	2,090.0	2,083.9	2,083.9	4.1	4.0	106.94	0.3	29.9	30.3	23.7	6.62	4.571		
2,100.0	2,100.0	2,093.9	2,093.9	4.2	4.0	107.54	0.3	29.9	30.4	23.8	6.63	4.582		
2,185.0	2,184.9	2,178.8	2,178.8	4.7	4.1	114.76	0.3	29.9	31.9	25.1	6.76	4.719		
2,200.0	2,199.8	2,193.7	2,193.7	4.8	4.1	116.37	0.3	29.9	32.3	25.5	6.81	4.753		
2,280.0	2,279.6	2,273.5	2,273.5	5.3	4.2	125.92	0.3	29.9	35.8	28.6	7.21	4.968		
2,299.9	2,299.4	2,293.3	2,293.3	5.4	4.2	128.42	0.3	29.9	37.1	29.7	7.36	5.035		
2,375.0	2,374.0	2,367.9	2,367.9	5.7	4.3	136.73	0.3	29.9	42.4	34.5	7.89	5.373		
2,400.0	2,398.9	2,392.8	2,392.8	5.7	4.3	139.04	0.3	29.9	44.3	36.3	8.05	5.505		
2,470.0	2,468.5	2,462.4	2,462.4	5.8	4.4	144.53	0.3	29.9	50.1	41.6	8.47	5.915		
2,500.0	2,498.4	2,492.3	2,492.3	5.9	4.4	146.50	0.3	29.9	52.7	44.1	8.63	6.105		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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	
2,565.0	2,563.0	2,557.3	2,557.3	6.0	4.4	149.66	0.8	30.1	58.3	49.4	8.93	6.527	
2,600.0	2,597.8	2,592.4	2,592.4	6.0	4.5	150.59	1.7	30.5	61.1	52.1	9.05	6.759	
2,660.0	2,657.5	2,652.7	2,652.7	6.1	4.5	151.19	4.0	31.6	65.7	56.5	9.21	7.139	
2,700.0	2,697.3	2,693.0	2,692.8	6.2	4.6	150.99	6.2	32.7	68.5	59.2	9.28	7.384	
2,755.0	2,752.0	2,748.3	2,748.0	6.3	4.6	150.06	10.0	34.5	72.0	62.7	9.35	7.702	
2,800.0	2,796.7	2,793.6	2,793.1	6.4	4.7	148.79	13.9	36.3	74.7	65.3	9.39	7.955	
2,850.0	2,846.4	2,843.9	2,843.1	6.5	4.7	146.88	19.0	38.6	77.4	68.0	9.40	8.229	
2,900.0	2,896.2	2,894.1	2,892.8	6.6	4.8	144.51	24.8	41.4	80.0	70.6	9.40	8.507	
2,945.0	2,940.9	2,938.9	2,937.3	6.7	4.8	142.18	30.5	44.0	82.3	72.9	9.39	8.760	
3,000.0	2,995.6	2,993.7	2,991.5	6.8	4.8	139.52	37.4	47.2	85.3	75.9	9.40	9.072	
3,040.0	3,035.4	3,033.6	3,031.0	6.9	4.9	137.70	42.4	49.6	87.6	78.2	9.42	9.295	
3,100.0	3,095.1	3,093.3	3,090.1	7.1	4.9	135.15	49.9	53.1	91.2	81.7	9.47	9.628	
3,135.0	3,129.9	3,128.2	3,124.7	7.1	5.0	133.75	54.3	55.2	93.4	83.8	9.51	9.816	
3,200.0	3,194.5	3,192.9	3,188.8	7.3	5.0	131.32	62.5	59.0	97.5	87.9	9.60	10.157	
3,230.0	3,224.4	3,222.8	3,218.4	7.4	5.1	130.27	66.2	60.8	99.5	89.9	9.65	10.308	
3,300.0	3,294.0	3,292.5	3,287.4	7.6	5.1	127.97	75.0	64.9	104.3	94.5	9.79	10.650	
3,325.0	3,318.8	3,317.4	3,312.1	7.6	5.2	127.20	78.2	66.3	106.0	96.2	9.85	10.766	
3,400.0	3,393.4	3,392.1	3,386.0	7.8	5.2	125.04	87.6	70.7	111.3	101.3	10.03	11.102	
3,420.0	3,413.3	3,412.0	3,405.8	7.9	5.2	124.50	90.1	71.9	112.8	102.7	10.08	11.187	
3,500.0	3,492.9	3,491.7	3,484.7	8.1	5.3	122.46	100.1	76.6	118.6	108.3	10.30	11.515	
3,515.0	3,507.8	3,506.7	3,499.5	8.1	5.3	122.10	102.0	77.5	119.8	109.4	10.35	11.573	
3,600.0	3,592.3	3,591.3	3,583.3	8.4	5.4	120.19	112.7	82.5	126.2	115.6	10.61	11.890	
3,610.0	3,602.3	3,601.3	3,593.2	8.4	5.4	119.97	114.0	83.1	126.9	116.3	10.64	11.925	
3,700.0	3,691.8	3,690.9	3,681.9	8.7	5.5	118.17	125.3	88.4	133.9	122.9	10.94	12.231	
3,705.0	3,696.8	3,695.9	3,686.8	8.7	5.5	118.07	125.9	88.7	134.3	123.3	10.96	12.247	
3,800.0	3,791.2	3,790.5	3,780.5	9.0	5.6	116.37	137.8	94.2	141.7	130.4	11.30	12.542	
3,895.0	3,885.7	3,885.1	3,874.2	9.2	5.7	114.84	149.7	99.8	149.3	137.6	11.65	12.812	
3,900.0	3,890.7	3,890.1	3,879.2	9.3	5.7	114.77	150.4	100.1	149.7	138.0	11.67	12.826	
3,990.0	3,980.2	3,979.7	3,967.9	9.5	5.8	113.46	161.7	105.4	156.9	144.9	12.02	13.061	
4,000.0	3,990.1	3,989.7	3,977.8	9.6	5.8	113.32	162.9	106.0	157.8	145.7	12.06	13.086	
4,085.0	4,074.7	4,074.4	4,061.6	9.8	5.9	112.21	173.6	111.0	164.7	152.3	12.39	13.290	
4,100.0	4,089.6	4,089.3	4,076.4	9.9	5.9	112.02	175.5	111.9	165.9	153.5	12.45	13.324	
4,180.0	4,169.2	4,169.0	4,155.3	10.1	6.0	111.07	185.5	116.6	172.5	159.7	12.78	13.501	
4,200.0	4,189.0	4,188.9	4,175.1	10.2	6.1	110.84	188.0	117.7	174.2	161.3	12.86	13.544	
4,275.0	4,263.6	4,263.6	4,249.0	10.4	6.1	110.03	197.4	122.1	180.4	167.2	13.17	13.697	
4,300.0	4,288.5	4,288.5	4,273.7	10.5	6.2	109.77	200.6	123.6	182.5	169.2	13.27	13.746	
4,370.0	4,358.1	4,358.2	4,342.7	10.7	6.2	109.07	209.4	127.7	188.3	174.8	13.57	13.879	
4,400.0	4,388.0	4,388.1	4,372.3	10.8	6.3	108.79	213.1	129.5	190.8	177.1	13.70	13.934	
4,465.0	4,452.6	4,452.8	4,436.4	11.0	6.3	108.19	221.3	133.3	196.3	182.3	13.97	14.048	
4,500.0	4,487.4	4,487.7	4,471.0	11.1	6.4	107.89	225.7	135.4	199.3	185.1	14.12	14.108	
4,560.0	4,547.1	4,547.5	4,530.1	11.3	6.4	107.39	233.2	138.9	204.3	189.9	14.38	14.206	
4,600.0	4,586.9	4,587.3	4,569.6	11.4	6.5	107.07	238.2	141.2	207.7	193.2	14.56	14.270	
4,655.0	4,641.6	4,642.1	4,623.8	11.6	6.6	106.64	245.2	144.5	212.4	197.6	14.80	14.354	
4,700.0	4,686.3	4,686.9	4,668.2	11.8	6.6	106.31	250.8	147.1	216.2	201.2	14.99	14.420	
4,750.0	4,736.0	4,736.7	4,717.5	11.9	6.7	105.95	257.1	150.0	220.5	205.3	15.21	14.491	
4,800.0	4,785.8	4,786.5	4,766.8	12.1	6.7	105.60	263.4	153.0	224.8	209.3	15.44	14.560	
4,820.6	4,806.2	4,807.0	4,787.1	12.2	6.7	105.47	265.9	154.2	226.5	211.0	15.53	14.590	
4,845.0	4,830.5	4,831.3	4,811.2	12.2	6.8	105.31	269.0	155.6	228.6	213.0	15.63	14.622	
4,900.0	4,885.3	4,886.1	4,865.5	12.4	6.8	104.89	275.9	158.9	233.2	217.3	15.88	14.686	
4,940.0	4,925.1	4,925.9	4,904.9	12.5	6.9	104.51	280.9	161.2	236.4	220.4	16.06	14.723	
5,000.0	4,984.9	4,985.7	4,964.1	12.7	6.9	103.84	288.5	164.7	241.2	224.9	16.34	14.766	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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)	Separation Factor	
5,035.0	5,019.8	5,020.5	4,998.6	12.8	7.0	103.40	292.9	166.8	244.0	227.5	16.50	14.785
5,100.0	5,084.7	5,085.2	5,062.6	13.1	7.1	102.48	301.0	170.6	249.0	232.2	16.81	14.809
5,130.0	5,114.7	5,115.0	5,092.1	13.2	7.1	102.01	304.8	172.4	251.3	234.3	16.96	14.816
5,200.0	5,184.6	5,184.6	5,161.1	13.4	7.2	100.83	313.5	176.5	256.6	239.3	17.31	14.825
5,225.0	5,209.6	5,209.4	5,185.6	13.5	7.2	100.37	316.7	177.9	258.5	241.0	17.43	14.825
5,300.0	5,284.6	5,283.9	5,259.4	13.7	7.3	98.90	326.1	182.3	264.1	246.3	17.82	14.820
5,320.0	5,304.6	5,303.7	5,279.0	13.8	7.3	98.48	328.6	183.5	265.6	247.7	17.93	14.818
5,400.0	5,384.6	5,383.0	5,357.6	14.0	7.4	96.73	338.6	188.2	271.7	253.4	18.35	14.805
5,415.0	5,399.6	5,397.9	5,372.3	14.1	7.4	96.38	340.4	189.0	272.9	254.5	18.43	14.803
5,420.4	5,405.0	5,403.3	5,377.6	14.1	7.4	81.32	341.1	189.4	273.3	254.8	18.46	14.803
5,500.0	5,484.6	5,482.1	5,455.6	14.4	7.5	79.45	351.0	194.0	279.7	260.8	18.90	14.800
5,510.0	5,494.6	5,492.0	5,465.4	14.4	7.5	79.22	352.3	194.6	280.5	261.5	18.95	14.800
5,600.0	5,584.6	5,581.1	5,553.7	14.7	7.6	77.21	363.5	199.9	288.0	268.6	19.45	14.806
5,605.0	5,589.6	5,586.0	5,558.6	14.7	7.6	77.10	364.1	200.1	288.5	269.0	19.48	14.807
5,700.0	5,684.6	5,680.1	5,651.8	15.0	7.7	75.10	376.0	205.7	296.8	276.8	20.02	14.828
5,795.0	5,779.6	5,774.2	5,744.9	15.3	7.9	73.21	387.9	211.2	305.5	285.0	20.55	14.865
5,800.0	5,784.6	5,779.1	5,749.8	15.3	7.9	73.12	388.5	211.5	306.0	285.4	20.58	14.868
5,890.0	5,874.6	5,868.3	5,838.1	15.6	8.0	71.43	399.7	216.8	314.6	293.5	21.09	14.916
5,900.0	5,884.6	5,878.2	5,847.9	15.7	8.0	71.25	401.0	217.4	315.5	294.4	21.15	14.922
5,985.0	5,969.6	5,962.3	5,931.2	15.9	8.1	69.74	411.6	222.3	323.9	302.3	21.62	14.979
6,000.0	5,984.6	5,977.2	5,946.0	16.0	8.1	69.49	413.5	223.2	325.4	303.7	21.71	14.990
6,080.0	6,064.6	6,056.4	6,024.4	16.3	8.2	68.15	423.4	227.9	333.5	311.3	22.15	15.052
6,100.0	6,084.6	6,076.2	6,044.0	16.3	8.2	67.83	425.9	229.1	335.5	313.2	22.26	15.069
6,175.0	6,159.6	6,150.5	6,117.6	16.6	8.3	66.65	435.3	233.4	343.3	320.6	22.68	15.135
6,200.0	6,184.6	6,175.3	6,142.1	16.7	8.3	66.27	438.4	234.9	345.9	323.1	22.82	15.158
6,270.0	6,254.6	6,244.6	6,210.7	16.9	8.4	65.23	447.2	239.0	353.3	330.1	23.21	15.225
6,300.0	6,284.6	6,274.3	6,240.1	17.0	8.4	64.80	450.9	240.7	356.5	333.2	23.37	15.255
6,365.0	6,349.6	6,338.6	6,303.9	17.2	8.5	63.90	459.0	244.5	363.6	339.8	23.73	15.323
6,400.0	6,384.6	6,373.3	6,338.2	17.3	8.6	63.42	463.4	246.6	367.4	343.5	23.92	15.360
6,460.0	6,444.6	6,432.7	6,397.0	17.5	8.6	62.63	470.9	250.1	374.0	349.7	24.24	15.426
6,500.0	6,484.6	6,472.3	6,436.3	17.7	8.7	62.12	475.9	252.4	378.4	354.0	24.46	15.471
6,555.0	6,539.6	6,526.8	6,490.2	17.9	8.8	61.43	482.7	255.6	384.6	359.8	24.76	15.534
6,600.0	6,584.6	6,571.4	6,534.3	18.0	8.8	60.89	488.4	258.3	389.7	364.7	25.00	15.586
6,650.0	6,634.6	6,620.9	6,583.4	18.2	8.9	60.30	494.6	261.2	395.4	370.1	25.27	15.646
6,700.0	6,684.6	6,670.4	6,632.4	18.3	8.9	59.73	500.8	264.1	401.1	375.5	25.54	15.706
6,745.0	6,729.6	6,714.9	6,676.5	18.5	9.0	59.23	506.5	266.7	406.3	380.5	25.78	15.761
6,800.0	6,784.6	6,769.4	6,730.5	18.7	9.0	58.63	513.3	269.9	412.6	386.6	26.07	15.828
6,840.0	6,824.6	6,809.0	6,769.7	18.8	9.1	58.21	518.3	272.3	417.3	391.0	26.28	15.878
6,900.0	6,884.6	6,868.4	6,828.5	19.0	9.2	57.60	525.8	275.8	424.3	397.7	26.60	15.954
6,935.0	6,919.6	6,903.1	6,862.8	19.1	9.2	57.25	530.2	277.8	428.5	401.7	26.78	15.998
7,000.0	6,984.6	6,967.5	6,926.6	19.4	9.3	56.62	538.3	281.6	436.2	409.0	27.12	16.080
7,030.0	7,014.6	6,997.2	6,956.0	19.5	9.3	56.33	542.0	283.4	439.7	412.5	27.28	16.119
7,100.0	7,084.6	7,066.5	7,024.6	19.7	9.4	55.69	550.8	287.5	448.1	420.5	27.65	16.209
7,125.0	7,109.6	7,091.2	7,049.2	19.8	9.4	55.47	553.9	288.9	451.1	423.3	27.78	16.241
7,200.0	7,184.6	7,166.4	7,123.6	20.1	9.5	54.80	563.3	293.4	460.2	432.0	28.17	16.335
7,220.0	7,204.6	7,187.7	7,144.7	20.1	9.6	54.62	566.0	294.6	462.5	434.2	28.28	16.355
7,300.0	7,284.6	7,273.2	7,229.5	20.4	9.7	53.98	575.7	299.1	471.3	442.6	28.71	16.416
7,315.0	7,299.6	7,289.2	7,245.4	20.5	9.7	53.87	577.4	299.9	472.9	444.1	28.79	16.423
7,400.0	7,384.6	7,380.4	7,336.1	20.7	9.8	53.30	586.3	304.1	480.9	451.7	29.24	16.446
7,410.0	7,394.6	7,391.2	7,346.8	20.8	9.8	53.24	587.3	304.5	481.8	452.5	29.30	16.446
7,500.0	7,484.6	7,488.0	7,443.3	21.1	9.9	52.76	595.1	308.2	488.9	459.2	29.77	16.426

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 11618-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)				
7,505.0	7,489.6	7,493.4	7,448.6	21.1	9.9	52.73	595.5	308.4	489.3	459.5	29.79	16.424		
7,600.0	7,584.6	7,596.0	7,551.0	21.4	10.1	52.34	602.2	311.5	495.3	465.0	30.28	16.359		
7,695.0	7,679.6	7,698.8	7,653.6	21.8	10.2	52.05	607.1	313.8	499.8	469.1	30.76	16.252		
7,700.0	7,684.6	7,704.3	7,659.0	21.8	10.2	52.04	607.4	313.9	500.0	469.3	30.78	16.245		
7,790.0	7,774.6	7,801.8	7,756.5	22.1	10.3	51.86	610.5	315.4	502.9	471.6	31.22	16.105		
7,800.0	7,784.6	7,812.7	7,767.4	22.1	10.3	51.85	610.7	315.5	503.1	471.8	31.27	16.088		
7,885.0	7,869.6	7,904.9	7,859.6	22.4	10.4	51.77	612.1	316.2	504.3	472.7	31.68	15.918		
7,900.0	7,884.6	7,921.2	7,875.9	22.5	10.5	51.76	612.2	316.2	504.4	472.7	31.75	15.886		
7,980.0	7,964.6	8,003.7	7,958.5	22.7	10.6	51.76	612.3	316.2	504.5	472.4	32.11	15.710		
8,000.0	7,984.6	8,023.7	7,978.5	22.8	10.6	51.76	612.3	316.2	504.5	472.3	32.20	15.667		
8,075.0	8,059.6	8,098.7	8,053.5	23.1	10.7	51.76	612.3	316.2	504.5	472.0	32.53	15.508		
8,100.0	8,084.6	8,123.7	8,078.5	23.2	10.7	51.76	612.3	316.2	504.5	471.9	32.64	15.456		
8,170.0	8,154.6	8,193.7	8,148.5	23.4	10.8	51.76	612.3	316.2	504.5	471.6	32.95	15.311		
8,200.0	8,184.6	8,223.7	8,178.5	23.5	10.8	51.76	612.3	316.2	504.5	471.4	33.08	15.250		
8,265.0	8,249.6	8,288.7	8,243.5	23.7	10.9	51.76	612.3	316.2	504.5	471.1	33.37	15.118		
8,300.0	8,284.6	8,323.7	8,278.5	23.9	10.9	51.76	612.3	316.2	504.5	471.0	33.53	15.049		
8,360.0	8,344.6	8,383.7	8,338.5	24.1	11.0	51.76	612.3	316.2	504.5	470.7	33.79	14.931		
8,400.0	8,384.6	8,423.7	8,378.5	24.2	11.1	51.76	612.3	316.2	504.5	470.5	33.97	14.853		
8,455.0	8,439.6	8,478.7	8,433.5	24.4	11.1	51.76	612.3	316.2	504.5	470.3	34.21	14.747		
8,500.0	8,484.6	8,523.7	8,478.5	24.6	11.2	51.76	612.3	316.2	504.5	470.1	34.41	14.662		
8,550.0	8,534.6	8,573.7	8,528.5	24.7	11.2	51.76	612.3	316.2	504.5	469.9	34.63	14.568		
8,600.0	8,584.6	8,623.7	8,578.5	24.9	11.3	51.76	612.3	316.2	504.5	469.7	34.85	14.476		
8,645.0	8,629.6	8,668.7	8,623.5	25.1	11.4	51.76	612.3	316.2	504.5	469.5	35.05	14.393		
8,700.0	8,684.6	8,723.7	8,678.5	25.3	11.4	51.76	612.3	316.2	504.5	469.2	35.29	14.294		
8,740.0	8,724.6	8,763.7	8,718.5	25.4	11.5	51.76	612.3	316.2	504.5	469.0	35.47	14.223		
8,800.0	8,784.6	8,823.7	8,778.5	25.6	11.6	51.76	612.3	316.2	504.5	468.8	35.74	14.117		
8,835.0	8,819.6	8,858.7	8,813.5	25.7	11.6	51.76	612.3	316.2	504.5	468.6	35.89	14.056		
8,900.0	8,884.6	8,923.7	8,878.5	26.0	11.7	51.76	612.3	316.2	504.5	468.3	36.18	13.944		
8,930.0	8,914.6	8,953.7	8,908.5	26.1	11.7	51.76	612.3	316.2	504.5	468.2	36.31	13.893		
9,000.0	8,984.6	9,023.7	8,978.5	26.3	11.8	51.76	612.3	316.2	504.5	467.9	36.63	13.775		
9,025.0	9,009.6	9,048.7	9,003.5	26.4	11.8	51.76	612.3	316.2	504.5	467.8	36.74	13.733		
9,100.0	9,084.6	9,123.7	9,078.5	26.7	11.9	51.76	612.3	316.2	504.5	467.4	37.07	13.610		
9,120.0	9,104.6	9,143.7	9,098.5	26.7	11.9	51.76	612.3	316.2	504.5	467.4	37.16	13.577		
9,200.0	9,184.6	9,223.7	9,178.5	27.0	12.0	51.76	612.3	316.2	504.5	467.0	37.51	13.449		
9,215.0	9,199.6	9,238.7	9,193.5	27.1	12.1	51.76	612.3	316.2	504.5	466.9	37.58	13.425		
9,300.0	9,284.6	9,323.7	9,278.5	27.4	12.2	51.76	612.3	316.2	504.5	466.6	37.96	13.291		
9,310.0	9,294.6	9,333.7	9,288.5	27.4	12.2	51.76	612.3	316.2	504.5	466.5	38.00	13.276		
9,400.0	9,384.6	9,423.7	9,378.5	27.7	12.3	51.76	612.3	316.2	504.5	466.1	38.40	13.137		
9,405.0	9,389.6	9,428.7	9,383.5	27.7	12.3	51.76	612.3	316.2	504.5	466.1	38.43	13.130		
9,500.0	9,484.6	9,523.7	9,478.5	28.1	12.4	51.76	612.3	316.2	504.5	465.7	38.85	12.987		
9,595.0	9,579.6	9,618.7	9,573.5	28.4	12.5	51.76	612.3	316.2	504.5	465.2	39.27	12.847		
9,600.0	9,584.6	9,623.7	9,578.5	28.4	12.5	51.76	612.3	316.2	504.5	465.2	39.29	12.840		
9,690.0	9,674.6	9,713.7	9,668.5	28.7	12.7	51.76	612.3	316.2	504.5	464.8	39.69	12.710		
9,700.0	9,684.6	9,723.7	9,678.5	28.8	12.7	51.76	612.3	316.2	504.5	464.8	39.74	12.696		
9,785.0	9,769.6	9,808.7	9,763.5	29.1	12.8	51.76	612.3	316.2	504.5	464.4	40.12	12.576		
9,800.0	9,784.6	9,823.7	9,778.5	29.1	12.8	51.76	612.3	316.2	504.5	464.3	40.18	12.555		
9,880.0	9,864.6	9,903.7	9,858.5	29.4	12.9	51.76	612.3	316.2	504.5	464.0	40.54	12.444		
9,900.0	9,884.6	9,923.7	9,878.5	29.5	12.9	51.76	612.3	316.2	504.5	463.9	40.63	12.417		
9,975.0	9,959.6	9,998.7	9,953.5	29.7	13.0	51.76	612.3	316.2	504.5	463.5	40.97	12.316		
10,000.0	9,984.6	10,023.7	9,978.5	29.8	13.0	51.76	612.3	316.2	504.5	463.4	41.08	12.282		
10,070.0	10,054.6	10,093.7	10,048.5	30.1	13.1	51.76	612.3	316.2	504.5	463.1	41.39	12.189		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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)			
10,100.0	10,084.6	10,123.7	10,078.5	30.2	13.2	51.76	612.3	316.2	504.5	463.0	41.52	12.150	
10,165.0	10,149.6	10,188.7	10,143.5	30.4	13.2	51.76	612.3	316.2	504.5	462.7	41.81	12.066	
10,200.0	10,184.6	10,223.7	10,178.5	30.5	13.3	51.76	612.3	316.2	504.5	462.5	41.97	12.021	
10,260.0	10,244.6	10,283.7	10,238.5	30.7	13.4	51.76	612.3	316.2	504.5	462.3	42.24	11.945	
10,300.0	10,284.6	10,323.7	10,278.5	30.9	13.4	51.76	612.3	316.2	504.5	462.1	42.42	11.894	
10,355.0	10,339.6	10,378.7	10,333.5	31.1	13.5	51.76	612.3	316.2	504.5	461.8	42.66	11.826	
10,400.0	10,384.6	10,423.7	10,378.5	31.2	13.5	51.76	612.3	316.2	504.5	461.6	42.86	11.770	
10,450.0	10,434.6	10,473.7	10,428.5	31.4	13.6	51.76	612.3	316.2	504.5	461.4	43.09	11.709	
10,500.0	10,484.6	10,523.7	10,478.5	31.6	13.7	51.76	612.3	316.2	504.5	461.2	43.31	11.649	
10,545.0	10,529.6	10,568.7	10,523.5	31.7	13.7	51.76	612.3	316.2	504.5	461.0	43.51	11.595	
10,600.0	10,584.6	10,623.7	10,578.5	31.9	13.8	51.76	612.3	316.2	504.5	460.8	43.76	11.530	
10,640.0	10,624.6	10,663.7	10,618.5	32.1	13.8	51.76	612.3	316.2	504.5	460.6	43.94	11.483	
10,700.0	10,684.6	10,723.7	10,678.5	32.3	13.9	51.76	612.3	316.2	504.5	460.3	44.21	11.413	
10,735.0	10,719.6	10,758.7	10,713.5	32.4	14.0	51.76	612.3	316.2	504.5	460.1	44.36	11.373	
10,800.0	10,784.6	10,823.7	10,778.5	32.6	14.0	51.76	612.3	316.2	504.5	459.9	44.65	11.298	
10,830.0	10,814.6	10,853.7	10,808.5	32.7	14.1	51.76	612.3	316.2	504.5	459.7	44.79	11.265	
10,900.0	10,884.6	10,923.7	10,878.5	33.0	14.2	51.76	612.3	316.2	504.5	459.4	45.10	11.186	
10,925.0	10,909.6	10,948.7	10,903.5	33.1	14.2	51.76	612.3	316.2	504.5	459.3	45.21	11.159	
11,000.0	10,984.6	11,023.7	10,978.5	33.4	14.3	51.76	612.3	316.2	504.5	459.0	45.55	11.076	
11,020.0	11,004.6	11,043.7	10,998.5	33.4	14.3	51.76	612.3	316.2	504.5	458.9	45.64	11.055	
11,100.0	11,084.6	11,123.7	11,078.5	33.7	14.4	51.76	612.3	316.2	504.5	458.5	46.00	10.968	
11,115.0	11,099.6	11,138.7	11,093.5	33.8	14.4	51.76	612.3	316.2	504.5	458.4	46.06	10.952	
11,200.0	11,184.6	11,223.7	11,178.5	34.1	14.5	51.76	612.3	316.2	504.5	458.1	46.45	10.863	
11,210.0	11,194.6	11,233.7	11,188.5	34.1	14.6	51.76	612.3	316.2	504.5	458.0	46.49	10.852	
11,300.0	11,284.6	11,323.7	11,278.5	34.4	14.7	51.76	612.3	316.2	504.5	457.6	46.89	10.759	
11,305.0	11,289.6	11,328.7	11,283.5	34.4	14.7	51.76	612.3	316.2	504.5	457.6	46.92	10.754	
11,400.0	11,384.6	11,423.7	11,378.5	34.8	14.8	51.76	612.3	316.2	504.5	457.2	47.34	10.657	
11,495.0	11,479.6	11,518.7	11,473.5	35.1	14.9	51.76	612.3	316.2	504.5	456.7	47.77	10.562	
11,500.0	11,484.6	11,523.7	11,478.5	35.1	14.9	51.76	612.3	316.2	504.5	456.7	47.79	10.557	
11,590.0	11,574.6	11,613.7	11,568.5	35.4	15.0	51.76	612.3	316.2	504.5	456.3	48.19	10.468	
11,600.0	11,584.6	11,634.7	11,589.5	35.5	15.1	51.79	612.0	316.2	504.4	456.2	48.22	10.461	
11,638.0	11,622.5	11,740.2	11,693.6	35.6	15.2	53.18	596.7	316.3	501.1	452.8	48.27	10.380	
11,650.0	11,634.6	11,771.8	11,723.8	35.6	15.2	-146.48	587.7	316.4	499.1	450.8	48.27	10.340	
11,675.0	11,659.5	11,834.1	11,781.4	35.6	15.3	-144.73	564.1	316.5	494.5	446.2	48.27	10.244	
11,685.0	11,669.5	11,857.6	11,802.4	35.6	15.3	-143.93	553.3	316.6	492.5	444.2	48.27	10.202	
11,700.0	11,684.4	11,891.5	11,831.5	35.6	15.4	-142.66	535.9	316.7	489.3	441.0	48.28	10.135	
11,725.0	11,709.1	11,944.1	11,874.0	35.7	15.4	-140.40	505.0	316.9	483.9	435.6	48.27	10.023	
11,750.0	11,733.5	11,992.1	11,909.6	35.7	15.5	-138.03	472.9	317.1	478.3	430.1	48.24	9.915	
11,775.0	11,757.7	12,035.9	11,939.2	35.7	15.6	-135.63	440.6	317.3	473.0	424.8	48.18	9.818	
11,780.0	11,762.5	12,044.2	11,944.4	35.7	15.6	-135.15	434.2	317.3	472.0	423.8	48.16	9.800	
11,800.0	11,781.5	12,076.0	11,963.5	35.7	15.6	-133.24	408.8	317.5	468.0	420.0	48.08	9.734	
11,825.0	11,804.8	12,112.8	11,983.5	35.7	15.7	-130.88	377.9	317.7	463.6	415.7	47.95	9.669	
11,850.0	11,827.7	12,146.8	11,999.7	35.7	15.7	-128.55	348.0	317.9	459.9	412.1	47.78	9.624	
11,875.0	11,849.9	12,178.3	12,012.9	35.7	15.7	-126.26	319.3	318.0	456.9	409.3	47.58	9.602	
11,900.0	11,871.6	12,207.8	12,023.4	35.7	15.7	-124.01	291.8	318.2	454.8	407.4	47.36	9.602	
11,925.0	11,892.6	12,235.5	12,031.7	35.8	15.8	-121.77	265.5	318.4	453.6	406.5	47.12	9.627	
11,942.3	11,906.7	12,253.7	12,036.4	35.8	15.8	-120.22	247.8	318.5	453.4	406.4	46.95	9.657	
11,950.0	11,912.8	12,261.6	12,038.2	35.8	15.8	-119.54	240.1	318.5	453.4	406.5	46.87	9.673	
11,970.0	11,928.4	12,281.5	12,042.2	35.8	15.8	-117.75	220.6	318.6	454.0	407.3	46.68	9.726	
11,975.0	11,932.3	12,286.4	12,043.0	35.8	15.8	-117.31	215.8	318.7	454.2	407.6	46.63	9.741	
12,000.0	11,950.9	12,310.0	12,046.5	35.8	15.8	-115.07	192.4	318.8	456.0	409.6	46.40	9.828	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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)				
12,025.0	11,968.5	12,332.7	12,048.7	35.8	15.8	-112.81	169.9	318.9	458.8	412.6	46.20	9.931		
12,050.0	11,985.3	12,354.4	12,049.8	35.8	15.8	-110.53	148.2	319.1	462.6	416.6	46.04	10.048		
12,065.0	11,994.9	12,367.1	12,050.0	35.8	15.8	-109.15	135.5	319.2	465.3	419.3	45.96	10.123		
12,075.0	12,001.0	12,374.6	12,050.0	35.8	15.8	-108.30	128.0	319.2	467.3	421.4	45.93	10.175		
12,100.0	12,015.8	12,393.5	12,050.0	35.9	15.8	-106.15	109.1	319.3	472.9	427.0	45.87	10.310		
12,125.0	12,029.4	12,413.1	12,050.0	35.9	15.9	-103.96	89.5	319.4	479.3	433.5	45.87	10.451		
12,150.0	12,041.9	12,433.3	12,050.0	35.9	15.9	-101.75	69.3	319.6	486.4	440.5	45.90	10.597		
12,160.0	12,046.6	12,441.6	12,050.0	35.9	15.9	-100.87	61.0	319.6	489.4	443.5	45.92	10.658		
12,175.0	12,053.3	12,454.1	12,050.0	35.9	15.9	-99.56	48.5	319.7	494.1	448.1	45.97	10.749		
12,200.0	12,063.5	12,475.5	12,050.0	35.9	15.9	-97.43	27.1	319.8	502.2	456.2	46.05	10.906		
12,225.0	12,072.5	12,497.3	12,050.0	35.9	15.9	-95.38	5.3	320.0	510.7	464.5	46.15	11.066		
12,250.0	12,080.2	12,519.5	12,050.0	35.9	15.9	-93.43	-16.9	320.1	519.4	473.1	46.26	11.227		
12,255.0	12,081.6	12,524.0	12,050.0	35.9	15.9	-93.06	-21.4	320.1	521.1	474.9	46.29	11.259		
12,275.0	12,086.7	12,542.1	12,050.0	35.9	15.9	-91.62	-39.5	320.2	528.2	481.9	46.38	11.390		
12,300.0	12,091.9	12,565.0	12,050.0	35.9	15.9	-89.94	-62.4	320.4	537.2	490.7	46.49	11.554		
12,325.0	12,095.9	12,588.1	12,050.0	35.9	15.9	-88.41	-85.5	320.5	546.2	499.6	46.61	11.719		
12,350.0	12,098.5	12,611.3	12,050.0	35.9	15.9	-87.04	-108.7	320.6	555.1	508.4	46.72	11.882		
12,375.0	12,099.8	12,634.7	12,050.0	35.9	15.9	-85.83	-132.1	320.8	564.0	517.2	46.83	12.045		
12,388.0	12,100.0	12,646.8	12,050.0	35.9	15.9	-85.26	-144.2	320.9	568.6	521.7	46.88	12.128		
12,400.0	12,100.0	12,658.1	12,050.0	35.9	15.9	-85.31	-155.5	320.9	572.8	525.9	46.93	12.205		
12,445.0	12,100.0	12,700.6	12,050.0	35.9	16.0	-85.48	-197.9	321.2	587.6	540.5	47.17	12.459		
12,500.0	12,100.0	12,753.1	12,050.0	35.9	16.0	-85.66	-250.4	321.5	604.0	556.5	47.47	12.722		
12,540.0	12,100.0	12,791.6	12,050.0	36.0	16.0	-85.76	-289.0	321.7	614.6	566.8	47.78	12.862		
12,600.0	12,100.0	12,850.0	12,050.0	36.0	16.0	-85.90	-347.3	322.1	628.5	580.2	48.27	13.021		
12,635.0	12,100.0	12,884.3	12,050.0	36.0	16.0	-85.96	-381.6	322.3	635.4	586.9	48.56	13.086		
12,700.0	12,100.0	12,948.4	12,050.0	36.1	16.1	-86.06	-445.7	322.7	646.2	597.0	49.12	13.156		
12,730.0	12,100.0	12,978.1	12,050.0	36.2	16.1	-86.10	-475.5	322.9	650.1	600.7	49.38	13.165		
12,800.0	12,100.0	13,047.8	12,050.0	36.4	16.1	-86.16	-545.1	323.3	657.0	607.0	50.02	13.135		
12,825.0	12,100.0	13,072.7	12,050.0	36.5	16.2	-86.17	-570.1	323.5	658.6	608.3	50.26	13.105		
12,905.4	12,100.0	13,153.0	12,050.0	36.8	16.2	-86.19	-650.4	324.0	660.8	609.8	51.04	12.948		
12,920.0	12,100.0	13,167.7	12,050.0	36.8	16.2	-86.19	-665.0	324.0	660.8	609.7	51.15	12.920		
13,000.0	12,100.0	13,247.7	12,050.0	37.0	16.3	-86.19	-745.0	324.5	660.8	609.1	51.77	12.764		
13,015.0	12,100.0	13,262.7	12,050.0	37.0	16.3	-86.19	-760.0	324.6	660.8	609.0	51.88	12.738		
13,100.0	12,100.0	13,347.7	12,050.0	37.2	16.5	-86.19	-845.0	325.1	660.9	608.4	52.49	12.589		
13,110.0	12,100.0	13,357.7	12,050.0	37.2	16.5	-86.19	-855.0	325.2	660.9	608.3	52.57	12.572		
13,200.0	12,100.0	13,447.7	12,050.0	37.3	16.7	-86.19	-945.0	325.7	660.9	607.6	53.24	12.412		
13,205.0	12,100.0	13,452.7	12,050.0	37.3	16.7	-86.19	-950.0	325.8	660.9	607.6	53.28	12.403		
13,300.0	12,100.0	13,547.7	12,050.0	37.5	17.0	-86.19	-1,045.0	326.4	660.9	606.8	54.03	12.233		
13,395.0	12,100.0	13,642.7	12,050.0	37.7	17.4	-86.19	-1,140.0	326.9	660.9	606.1	54.79	12.061		
13,400.0	12,100.0	13,647.7	12,050.0	37.7	17.5	-86.19	-1,145.0	327.0	660.9	606.0	54.83	12.052		
13,490.0	12,100.0	13,737.7	12,050.0	37.9	17.9	-86.19	-1,235.0	327.5	660.9	605.3	55.58	11.890		
13,500.0	12,100.0	13,747.7	12,050.0	37.9	18.0	-86.19	-1,245.0	327.6	660.9	605.2	55.67	11.872		
13,585.0	12,100.0	13,832.7	12,050.0	38.1	18.5	-86.19	-1,330.0	328.1	660.9	604.5	56.40	11.718		
13,600.0	12,100.0	13,847.7	12,050.0	38.1	18.6	-86.19	-1,345.0	328.2	660.9	604.4	56.53	11.691		
13,680.0	12,100.0	13,927.7	12,050.0	38.3	19.0	-86.19	-1,425.0	328.7	660.9	603.7	57.23	11.547		
13,700.0	12,100.0	13,947.7	12,050.0	38.4	19.2	-86.19	-1,445.0	328.8	660.9	603.5	57.41	11.512		
13,775.0	12,100.0	14,022.7	12,050.0	38.6	19.6	-86.19	-1,520.0	329.3	660.9	602.8	58.09	11.377		
13,800.0	12,100.0	14,047.7	12,050.0	38.6	19.8	-86.19	-1,545.0	329.4	660.9	602.6	58.32	11.333		
13,870.0	12,100.0	14,117.7	12,050.0	38.8	20.3	-86.19	-1,615.0	329.8	660.9	601.9	58.97	11.209		
13,900.0	12,100.0	14,147.7	12,050.0	38.9	20.4	-86.19	-1,645.0	330.0	660.9	601.7	59.24	11.156		
13,965.0	12,100.0	14,212.7	12,050.0	39.1	20.9	-86.19	-1,710.0	330.4	660.9	601.1	59.86	11.041		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Warning							
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	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,000.0	12,100.0	14,247.7	12,050.0	39.2	21.1	-86.19	-1,745.0	330.6	660.9	600.7	60.19	10.980	
14,060.0	12,100.0	14,307.7	12,050.0	39.3	21.5	-86.19	-1,805.0	331.0	660.9	600.2	60.77	10.876	
14,100.0	12,100.0	14,347.7	12,050.0	39.5	21.8	-86.19	-1,845.0	331.2	660.9	599.8	61.16	10.807	
14,155.0	12,100.0	14,402.7	12,050.0	39.6	22.1	-86.19	-1,900.0	331.6	660.9	599.2	61.70	10.712	
14,200.0	12,100.0	14,447.7	12,050.0	39.8	22.4	-86.19	-1,945.0	331.8	660.9	598.8	62.14	10.636	
14,250.0	12,100.0	14,497.7	12,050.0	39.9	22.8	-86.19	-1,995.0	332.2	660.9	598.3	62.64	10.551	
14,300.0	12,100.0	14,547.7	12,050.0	40.1	23.1	-86.19	-2,045.0	332.5	660.9	597.8	63.14	10.467	
14,345.0	12,100.0	14,592.7	12,050.0	40.2	23.4	-86.19	-2,090.0	332.7	660.9	597.3	63.60	10.392	
14,400.0	12,100.0	14,647.7	12,050.0	40.4	23.8	-86.19	-2,145.0	333.1	661.0	596.8	64.16	10.301	
14,440.0	12,100.0	14,687.7	12,050.0	40.6	24.1	-86.19	-2,185.0	333.3	661.0	596.4	64.58	10.235	
14,500.0	12,100.0	14,747.7	12,050.0	40.8	24.5	-86.19	-2,245.0	333.7	661.0	595.8	65.20	10.138	
14,535.0	12,100.0	14,782.7	12,050.0	40.9	24.8	-86.19	-2,280.0	333.9	661.0	595.4	65.57	10.081	
14,600.0	12,100.0	14,847.7	12,050.0	41.1	25.2	-86.19	-2,345.0	334.3	661.0	594.7	66.25	9.977	
14,630.0	12,100.0	14,877.7	12,050.0	41.2	25.4	-86.19	-2,375.0	334.5	661.0	594.4	66.57	9.929	
14,700.0	12,100.0	14,947.7	12,050.0	41.5	25.9	-86.19	-2,445.0	334.9	661.0	593.7	67.31	9.819	
14,725.0	12,100.0	14,972.7	12,050.0	41.6	26.1	-86.19	-2,470.0	335.1	661.0	593.4	67.58	9.780	
14,800.0	12,100.0	15,047.7	12,050.0	41.8	26.6	-86.19	-2,545.0	335.5	661.0	592.6	68.39	9.664	
14,820.0	12,100.0	15,067.7	12,050.0	41.9	26.8	-86.19	-2,565.0	335.6	661.0	592.4	68.61	9.633	
14,900.0	12,100.0	15,147.7	12,050.0	42.2	27.3	-86.19	-2,645.0	336.1	661.0	591.5	69.49	9.512	
14,915.0	12,100.0	15,162.7	12,050.0	42.3	27.4	-86.19	-2,660.0	336.2	661.0	591.3	69.65	9.490	
15,000.0	12,100.0	15,247.7	12,050.0	42.6	28.0	-86.19	-2,745.0	336.7	661.0	590.4	70.60	9.363	
15,010.0	12,100.0	15,257.7	12,050.0	42.7	28.1	-86.19	-2,755.0	336.8	661.0	590.3	70.71	9.348	
15,100.0	12,100.0	15,347.7	12,050.0	43.0	28.8	-86.19	-2,845.0	337.3	661.0	589.3	71.71	9.217	
15,105.0	12,100.0	15,352.7	12,050.0	43.1	28.8	-86.19	-2,850.0	337.4	661.0	589.2	71.77	9.210	
15,200.0	12,100.0	15,447.7	12,050.0	43.4	29.5	-86.19	-2,945.0	337.9	661.0	588.2	72.85	9.074	
15,295.0	12,100.0	15,542.7	12,050.0	43.8	30.2	-86.19	-3,040.0	338.5	661.0	587.1	73.93	8.941	
15,300.0	12,100.0	15,547.7	12,050.0	43.9	30.2	-86.19	-3,045.0	338.6	661.0	587.0	73.99	8.934	
15,390.0	12,100.0	15,637.7	12,050.0	44.3	30.8	-86.19	-3,135.0	339.1	661.0	586.0	75.03	8.810	
15,400.0	12,100.0	15,647.7	12,050.0	44.3	30.9	-86.19	-3,145.0	339.2	661.0	585.9	75.15	8.797	
15,485.0	12,100.0	15,732.7	12,050.0	44.7	31.5	-86.19	-3,230.0	339.7	661.0	584.9	76.14	8.682	
15,500.0	12,100.0	15,747.7	12,050.0	44.7	31.6	-86.19	-3,245.0	339.8	661.0	584.7	76.31	8.662	
15,580.0	12,100.0	15,827.7	12,050.0	45.1	32.2	-86.19	-3,325.0	340.3	661.0	583.8	77.25	8.557	
15,600.0	12,100.0	15,847.7	12,050.0	45.2	32.4	-86.19	-3,345.0	340.4	661.0	583.6	77.49	8.531	
15,675.0	12,100.0	15,922.7	12,050.0	45.5	32.9	-86.19	-3,420.0	340.8	661.0	582.7	78.38	8.434	
15,700.0	12,100.0	15,947.7	12,050.0	45.7	33.1	-86.19	-3,445.0	341.0	661.0	582.4	78.67	8.402	
15,770.0	12,100.0	16,017.7	12,050.0	46.0	33.6	-86.19	-3,515.0	341.4	661.1	581.5	79.51	8.314	
15,800.0	12,100.0	16,047.7	12,050.0	46.1	33.8	-86.19	-3,545.0	341.6	661.1	581.2	79.87	8.277	
15,865.0	12,100.0	16,112.7	12,050.0	46.4	34.3	-86.19	-3,610.0	342.0	661.1	580.4	80.65	8.196	
15,900.0	12,100.0	16,147.7	12,050.0	46.6	34.6	-86.19	-3,645.0	342.2	661.1	580.0	81.08	8.154	
15,960.0	12,100.0	16,207.7	12,050.0	46.9	35.0	-86.19	-3,705.0	342.6	661.1	579.3	81.81	8.081	
16,000.0	12,100.0	16,247.7	12,050.0	47.1	35.3	-86.19	-3,745.0	342.8	661.1	578.8	82.29	8.033	
16,055.0	12,100.0	16,302.7	12,050.0	47.3	35.7	-86.19	-3,800.0	343.2	661.1	578.1	82.96	7.968	
16,100.0	12,100.0	16,347.7	12,050.0	47.6	36.0	-86.19	-3,845.0	343.4	661.1	577.6	83.52	7.916	
16,150.0	12,100.0	16,397.7	12,050.0	47.8	36.4	-86.19	-3,895.0	343.7	661.1	576.9	84.13	7.858	
16,200.0	12,100.0	16,447.7	12,050.0	48.1	36.8	-86.19	-3,945.0	344.0	661.1	576.3	84.75	7.801	
16,245.0	12,100.0	16,492.7	12,050.0	48.3	37.1	-86.19	-3,990.0	344.3	661.1	575.8	85.31	7.750	
16,300.0	12,100.0	16,547.7	12,050.0	48.6	37.5	-86.19	-4,045.0	344.7	661.1	575.1	85.99	7.688	
16,340.0	12,100.0	16,587.7	12,050.0	48.8	37.8	-86.19	-4,085.0	344.9	661.1	574.6	86.49	7.644	
16,400.0	12,100.0	16,647.7	12,050.0	49.1	38.2	-86.19	-4,145.0	345.3	661.1	573.9	87.24	7.578	
16,435.0	12,100.0	16,682.7	12,050.0	49.3	38.5	-86.19	-4,180.0	345.5	661.1	573.4	87.68	7.540	
16,500.0	12,100.0	16,747.7	12,050.0	49.6	39.0	-86.19	-4,245.0	345.9	661.1	572.6	88.49	7.471	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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)	Separation Factor	
16,530.0	12,100.0	16,777.7	12,050.0	49.8	39.2	-86.19	-4,275.0	346.1	661.1	572.2	88.87	7.439
16,600.0	12,100.0	16,847.7	12,050.0	50.1	39.7	-86.19	-4,345.0	346.5	661.1	571.4	89.76	7.366
16,625.0	12,100.0	16,872.7	12,050.0	50.3	39.9	-86.19	-4,370.0	346.6	661.1	571.0	90.07	7.340
16,700.0	12,100.0	16,947.7	12,050.0	50.7	40.5	-86.19	-4,445.0	347.1	661.1	570.1	91.03	7.263
16,720.0	12,100.0	16,967.7	12,050.0	50.8	40.6	-86.19	-4,465.0	347.2	661.1	569.8	91.28	7.243
16,800.0	12,100.0	17,047.7	12,050.0	51.2	41.2	-86.19	-4,545.0	347.7	661.1	568.8	92.30	7.163
16,815.0	12,100.0	17,062.7	12,050.0	51.3	41.3	-86.19	-4,560.0	347.8	661.1	568.6	92.50	7.148
16,900.0	12,100.0	17,147.7	12,050.0	51.7	41.9	-86.19	-4,645.0	348.3	661.1	567.5	93.59	7.064
16,910.0	12,100.0	17,157.7	12,050.0	51.8	42.0	-86.19	-4,655.0	348.4	661.1	567.4	93.72	7.055
17,000.0	12,100.0	17,247.7	12,050.0	52.3	42.7	-86.19	-4,745.0	348.9	661.1	566.3	94.88	6.968
17,005.0	12,100.0	17,252.7	12,050.0	52.3	42.7	-86.19	-4,750.0	349.0	661.1	566.2	94.94	6.964
17,100.0	12,100.0	17,347.7	12,050.0	52.8	43.4	-86.19	-4,845.0	349.5	661.1	565.0	96.17	6.875
17,195.0	12,100.0	17,442.7	12,050.0	53.4	44.1	-86.19	-4,940.0	350.1	661.2	563.7	97.41	6.787
17,200.0	12,100.0	17,447.7	12,050.0	53.4	44.2	-86.19	-4,945.0	350.1	661.2	563.7	97.48	6.783
17,290.0	12,100.0	17,537.7	12,050.0	53.9	44.9	-86.19	-5,035.0	350.7	661.2	562.5	98.65	6.702
17,300.0	12,100.0	17,547.7	12,050.0	53.9	44.9	-86.19	-5,045.0	350.8	661.2	562.4	98.78	6.693
17,385.0	12,100.0	17,632.7	12,050.0	54.4	45.6	-86.19	-5,129.9	351.3	661.2	561.3	99.90	6.618
17,400.0	12,100.0	17,647.7	12,050.0	54.5	45.7	-86.19	-5,144.9	351.4	661.2	561.1	100.10	6.605
17,480.0	12,100.0	17,727.7	12,050.0	55.0	46.3	-86.19	-5,224.9	351.9	661.2	560.0	101.15	6.536
17,500.0	12,100.0	17,747.7	12,050.0	55.1	46.4	-86.19	-5,244.9	352.0	661.2	559.8	101.42	6.519
17,575.0	12,100.0	17,822.7	12,050.0	55.5	47.0	-86.19	-5,319.9	352.4	661.2	558.8	102.41	6.456
17,600.0	12,100.0	17,847.7	12,050.0	55.7	47.2	-86.19	-5,344.9	352.6	661.2	558.4	102.74	6.435
17,670.0	12,100.0	17,917.7	12,050.0	56.1	47.7	-86.19	-5,414.9	353.0	661.2	557.5	103.67	6.378
17,700.0	12,100.0	17,947.7	12,050.0	56.2	47.9	-86.19	-5,444.9	353.2	661.2	557.1	104.07	6.353
17,765.0	12,100.0	18,012.7	12,050.0	56.6	48.4	-86.19	-5,509.9	353.6	661.2	556.3	104.94	6.301
17,800.0	12,100.0	18,047.7	12,050.0	56.8	48.7	-86.19	-5,544.9	353.8	661.2	555.8	105.41	6.273
17,860.0	12,100.0	18,107.7	12,050.0	57.2	49.1	-86.19	-5,604.9	354.2	661.2	555.0	106.21	6.225
17,900.0	12,100.0	18,147.7	12,050.0	57.4	49.4	-86.19	-5,644.9	354.4	661.2	554.5	106.75	6.194
17,955.0	12,100.0	18,202.7	12,050.0	57.7	49.8	-86.19	-5,699.9	354.8	661.2	553.7	107.48	6.152
18,000.0	12,100.0	18,247.7	12,050.0	58.0	50.2	-86.19	-5,744.9	355.0	661.2	553.1	108.09	6.117
18,050.0	12,100.0	18,297.7	12,050.0	58.3	50.5	-86.19	-5,794.9	355.3	661.2	552.5	108.76	6.079
18,100.0	12,100.0	18,347.7	12,050.0	58.6	50.9	-86.19	-5,844.9	355.6	661.2	551.8	109.44	6.042
18,145.0	12,100.0	18,392.7	12,050.0	58.9	51.3	-86.19	-5,889.9	355.9	661.2	551.2	110.05	6.009
18,200.0	12,100.0	18,447.7	12,050.0	59.2	51.7	-86.19	-5,944.9	356.2	661.2	550.4	110.79	5.968
18,240.0	12,100.0	18,487.7	12,050.0	59.5	52.0	-86.19	-5,984.9	356.5	661.2	549.9	111.33	5.939
18,300.0	12,100.0	18,547.7	12,050.0	59.8	52.4	-86.19	-6,044.9	356.9	661.2	549.1	112.15	5.896
18,335.0	12,100.0	18,582.7	12,050.0	60.0	52.7	-86.19	-6,079.9	357.1	661.2	548.6	112.62	5.871
18,400.0	12,100.0	18,647.7	12,050.0	60.4	53.2	-86.19	-6,144.9	357.5	661.2	547.7	113.51	5.826
18,430.0	12,100.0	18,677.7	12,050.0	60.6	53.4	-86.19	-6,174.9	357.7	661.2	547.3	113.92	5.805
18,500.0	12,100.0	18,747.7	12,050.0	61.0	53.9	-86.19	-6,244.9	358.1	661.3	546.4	114.87	5.756
18,525.0	12,100.0	18,772.7	12,050.0	61.2	54.1	-86.19	-6,269.9	358.2	661.3	546.0	115.21	5.739
18,600.0	12,100.0	18,847.7	12,050.0	61.7	54.7	-86.19	-6,344.9	358.7	661.3	545.0	116.24	5.689
18,620.0	12,100.0	18,867.7	12,050.0	61.8	54.8	-86.19	-6,364.9	358.8	661.3	544.7	116.52	5.675
18,700.0	12,100.0	18,947.7	12,050.0	62.3	55.4	-86.19	-6,444.9	359.3	661.3	543.7	117.61	5.622
18,715.0	12,100.0	18,962.7	12,050.0	62.4	55.5	-86.19	-6,459.9	359.4	661.3	543.4	117.82	5.613
18,800.0	12,100.0	19,047.7	12,050.0	62.9	56.2	-86.19	-6,544.9	359.9	661.3	542.3	118.99	5.557
18,810.0	12,100.0	19,057.7	12,050.0	63.0	56.3	-86.19	-6,554.9	360.0	661.3	542.1	119.13	5.551
18,900.0	12,100.0	19,147.7	12,050.0	63.5	56.9	-86.19	-6,644.9	360.5	661.3	540.9	120.37	5.494
18,905.0	12,100.0	19,152.7	12,050.0	63.6	57.0	-86.19	-6,649.9	360.5	661.3	540.8	120.44	5.491
19,000.0	12,100.0	19,247.7	12,050.0	64.2	57.7	-86.19	-6,744.9	361.1	661.3	539.5	121.75	5.432
19,095.0	12,100.0	19,342.7	12,050.0	64.8	58.4	-86.19	-6,839.9	361.7	661.3	538.2	123.07	5.373

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 11618-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)	Separation (usft)	
19,100.0	12,100.0	19,347.7	12,050.0	64.8	58.4	-86.19	-6,844.9	361.7	661.3	538.2	123.14	5.370
19,190.0	12,100.0	19,437.7	12,050.0	65.4	59.1	-86.19	-6,934.9	362.3	661.3	536.9	124.39	5.317
19,200.0	12,100.0	19,447.7	12,050.0	65.4	59.2	-86.19	-6,944.9	362.3	661.3	536.8	124.53	5.311
19,285.0	12,100.0	19,532.7	12,050.0	66.0	59.8	-86.19	-7,029.9	362.9	661.3	535.6	125.71	5.261
19,300.0	12,100.0	19,547.7	12,050.0	66.1	60.0	-86.19	-7,044.9	363.0	661.3	535.4	125.92	5.252
19,380.0	12,100.0	19,627.7	12,050.0	66.6	60.6	-86.19	-7,124.9	363.4	661.3	534.3	127.03	5.206
19,400.0	12,100.0	19,647.7	12,050.0	66.7	60.7	-86.19	-7,144.9	363.6	661.3	534.0	127.31	5.194
19,475.0	12,100.0	19,722.7	12,050.0	67.2	61.3	-86.19	-7,219.9	364.0	661.3	533.0	128.36	5.152
19,500.0	12,100.0	19,747.7	12,050.0	67.3	61.5	-86.19	-7,244.9	364.2	661.3	532.6	128.71	5.138
19,570.0	12,100.0	19,817.7	12,050.0	67.8	62.0	-86.19	-7,314.9	364.6	661.3	531.6	129.69	5.099
19,600.0	12,100.0	19,847.7	12,050.0	68.0	62.2	-86.19	-7,344.9	364.8	661.3	531.2	130.11	5.083
19,665.0	12,100.0	19,912.7	12,050.0	68.4	62.7	-86.19	-7,409.9	365.2	661.3	530.3	131.02	5.048
19,700.0	12,100.0	19,947.7	12,050.0	68.6	63.0	-86.19	-7,444.9	365.4	661.3	529.8	131.51	5.029
19,760.0	12,100.0	20,007.7	12,050.0	69.0	63.4	-86.19	-7,504.9	365.8	661.3	529.0	132.36	4.997
19,800.0	12,100.0	20,047.7	12,050.0	69.3	63.7	-86.19	-7,544.9	366.0	661.3	528.4	132.92	4.976
19,855.0	12,100.0	20,102.7	12,050.0	69.6	64.1	-86.19	-7,599.9	366.3	661.4	527.7	133.69	4.947
19,900.0	12,100.0	20,147.7	12,050.0	69.9	64.5	-86.19	-7,644.9	366.6	661.4	527.0	134.33	4.923
19,950.0	12,100.0	20,197.7	12,050.0	70.3	64.9	-86.19	-7,694.9	366.9	661.4	526.3	135.03	4.898
20,000.0	12,100.0	20,247.7	12,050.0	70.6	65.2	-86.19	-7,744.9	367.2	661.4	525.6	135.74	4.872
20,045.0	12,100.0	20,292.7	12,050.0	70.9	65.6	-86.19	-7,789.9	367.5	661.4	525.0	136.37	4.850
20,100.0	12,100.0	20,347.7	12,050.0	71.2	66.0	-86.19	-7,844.9	367.8	661.4	524.2	137.15	4.822
20,140.0	12,100.0	20,387.7	12,050.0	71.5	66.3	-86.19	-7,884.9	368.1	661.4	523.7	137.72	4.802
20,200.0	12,100.0	20,447.7	12,050.0	71.9	66.8	-86.19	-7,944.9	368.4	661.4	522.8	138.57	4.773
20,235.0	12,100.0	20,482.7	12,050.0	72.1	67.0	-86.19	-7,979.9	368.7	661.4	522.3	139.06	4.756
20,300.0	12,100.0	20,547.7	12,050.0	72.6	67.5	-86.19	-8,044.9	369.1	661.4	521.4	139.99	4.725
20,330.0	12,100.0	20,577.7	12,050.0	72.8	67.7	-86.19	-8,074.9	369.2	661.4	521.0	140.41	4.710
20,400.0	12,100.0	20,647.7	12,050.0	73.2	68.3	-86.19	-8,144.9	369.7	661.4	520.0	141.41	4.677
20,425.0	12,100.0	20,672.7	12,050.0	73.4	68.5	-86.19	-8,169.9	369.8	661.4	519.6	141.76	4.666
20,500.0	12,100.0	20,747.7	12,050.0	73.9	69.0	-86.19	-8,244.9	370.3	661.4	518.6	142.83	4.631
20,520.0	12,100.0	20,767.7	12,050.0	74.0	69.2	-86.19	-8,264.9	370.4	661.4	518.3	143.11	4.622
20,600.0	12,100.0	20,847.7	12,050.0	74.6	69.8	-86.19	-8,344.9	370.9	661.4	517.2	144.25	4.585
20,615.0	12,100.0	20,862.7	12,050.0	74.7	69.9	-86.19	-8,359.9	371.0	661.4	516.9	144.47	4.578
20,700.0	12,100.0	20,947.7	12,050.0	75.2	70.5	-86.19	-8,444.9	371.5	661.4	515.7	145.68	4.540
20,710.0	12,100.0	20,957.7	12,050.0	75.3	70.6	-86.19	-8,454.9	371.6	661.4	515.6	145.82	4.536
20,800.0	12,100.0	21,047.7	12,050.0	75.9	71.3	-86.19	-8,544.9	372.1	661.4	514.3	147.11	4.496
20,805.0	12,100.0	21,052.7	12,050.0	75.9	71.3	-86.19	-8,549.9	372.1	661.4	514.2	147.18	4.494
20,900.0	12,100.0	21,147.7	12,050.0	76.6	72.1	-86.19	-8,644.9	372.7	661.4	512.9	148.54	4.453
20,995.0	12,100.0	21,242.7	12,050.0	77.2	72.8	-86.19	-8,739.9	373.3	661.4	511.5	149.90	4.413
21,000.0	12,100.0	21,247.7	12,050.0	77.2	72.8	-86.19	-8,744.9	373.3	661.4	511.5	149.97	4.410
21,090.0	12,100.0	21,337.7	12,050.0	77.8	73.5	-86.19	-8,834.9	373.9	661.4	510.2	151.26	4.373
21,100.0	12,100.0	21,347.7	12,050.0	77.9	73.6	-86.19	-8,844.9	373.9	661.4	510.0	151.40	4.369
21,185.0	12,100.0	21,432.7	12,050.0	78.5	74.2	-86.19	-8,929.9	374.5	661.4	508.8	152.63	4.334
21,200.0	12,100.0	21,447.7	12,050.0	78.6	74.3	-86.19	-8,944.9	374.5	661.5	508.6	152.84	4.328
21,280.0	12,100.0	21,527.7	12,050.0	79.1	74.9	-86.19	-9,024.9	375.0	661.5	507.5	153.99	4.295
21,300.0	12,100.0	21,547.7	12,050.0	79.3	75.1	-86.19	-9,044.9	375.2	661.5	507.2	154.28	4.287
21,375.0	12,100.0	21,622.7	12,050.0	79.8	75.7	-86.19	-9,119.9	375.6	661.5	506.1	155.36	4.258
21,400.0	12,100.0	21,647.7	12,050.0	79.9	75.9	-86.19	-9,144.9	375.8	661.5	505.7	155.72	4.248
21,470.0	12,100.0	21,717.7	12,050.0	80.4	76.4	-86.19	-9,214.9	376.2	661.5	504.7	156.73	4.221
21,500.0	12,100.0	21,747.7	12,050.0	80.6	76.6	-86.19	-9,244.9	376.4	661.5	504.3	157.16	4.209
21,565.0	12,100.0	21,812.7	12,050.0	81.1	77.1	-86.19	-9,309.9	376.8	661.5	503.4	158.10	4.184
21,600.0	12,100.0	21,847.7	12,050.0	81.3	77.4	-86.19	-9,344.9	377.0	661.5	502.9	158.60	4.171

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #706H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 11618-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)		
21,660.0	12,100.0	21,907.7	12,050.0	81.7	77.8	-86.19	-9,404.9	377.4	661.5	502.0	159.47	4.148	
21,700.0	12,100.0	21,947.7	12,050.0	82.0	78.1	-86.19	-9,444.9	377.6	661.5	501.4	160.05	4.133	
21,755.0	12,100.0	22,002.7	12,050.0	82.4	78.5	-86.19	-9,499.9	377.9	661.5	500.7	160.84	4.113	
21,800.0	12,100.0	22,047.7	12,050.0	82.7	78.9	-86.19	-9,544.9	378.2	661.5	500.0	161.49	4.096	
21,850.0	12,100.0	22,097.7	12,050.0	83.0	79.3	-86.19	-9,594.9	378.5	661.5	499.3	162.21	4.078	
21,900.0	12,100.0	22,147.7	12,050.0	83.4	79.7	-86.19	-9,644.9	378.8	661.5	498.6	162.94	4.060	
21,945.0	12,100.0	22,192.7	12,050.0	83.7	80.0	-86.19	-9,689.9	379.1	661.5	497.9	163.59	4.044	
22,000.0	12,100.0	22,247.7	12,050.0	84.1	80.4	-86.19	-9,744.9	379.4	661.5	497.1	164.39	4.024	
22,040.0	12,100.0	22,287.7	12,050.0	84.3	80.7	-86.19	-9,784.9	379.7	661.5	496.5	164.97	4.010	
22,051.3	12,100.0	22,299.0	12,050.0	84.4	80.8	-86.19	-9,796.2	379.7	661.5	496.4	165.13	4.006 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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD													Offset Well Error:	2.0 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	
0.0	0.0	0.0	0.0	3.0	2.0	-33.55	517.6	-343.3	621.1					
95.0	95.0	89.5	89.5	3.0	2.1	-33.52	517.7	-342.9	621.0	615.9	5.08	122.176		
100.0	100.0	94.6	94.6	3.0	2.1	-33.52	517.7	-342.9	620.9	615.9	5.09	121.945		
190.0	190.0	186.6	186.5	3.0	2.4	-33.41	518.0	-341.6	620.5	615.2	5.34	116.201		
200.0	200.0	196.8	196.8	3.0	2.4	-33.39	518.0	-341.4	620.4	615.1	5.38	115.424		
285.0	285.0	279.2	279.2	3.0	2.7	-33.27	518.4	-340.1	620.0	614.3	5.63	110.052		
300.0	300.0	293.6	293.6	3.0	2.8	-33.25	518.4	-340.0	619.9	614.3	5.68	109.128		
380.0	380.0	373.4	373.3	3.0	3.7	-33.21	518.6	-339.5	619.9	613.4	6.51	95.165		
400.0	400.0	393.7	393.7	3.0	4.0	-33.20	518.7	-339.4	619.9	613.0	6.84	90.682		
475.0	475.0	470.1	470.0	3.0	5.3	-33.14	518.8	-338.8	619.6	611.5	8.12	76.274		
500.0	500.0	495.5	495.5	3.1	5.7	-33.12	518.8	-338.5	619.5	610.9	8.57	72.278		
570.0	570.0	566.7	566.7	3.1	7.0	-33.06	518.9	-337.7	619.1	609.3	9.85	62.839		
600.0	600.0	597.3	597.2	3.1	7.6	-33.03	518.9	-337.3	618.9	608.5	10.41	59.452		
665.0	665.0	663.4	663.4	3.1	8.8	-32.96	518.8	-336.4	618.3	606.7	11.63	53.167		
700.0	700.0	699.0	699.0	3.1	9.4	-32.91	518.8	-335.8	618.0	605.7	12.29	50.276		
760.0	760.0	760.1	760.0	3.1	10.6	-32.84	518.6	-334.7	617.3	603.9	13.43	45.956		
800.0	800.0	799.9	799.8	3.2	11.0	-32.78	518.5	-334.0	616.8	603.0	13.84	44.583		
855.0	855.0	854.3	854.2	3.2	11.4	-32.72	518.4	-333.1	616.2	601.9	14.29	43.118		
900.0	900.0	898.9	898.8	3.2	11.7	-32.68	518.2	-332.4	615.7	601.1	14.67	41.981		
950.0	950.0	948.4	948.3	3.2	12.1	-32.64	518.0	-331.9	615.2	600.1	15.09	40.780		
1,000.0	1,000.0	998.4	998.4	3.2	12.4	-32.62	517.8	-331.4	614.8	599.3	15.45	39.800		
1,045.0	1,045.0	1,044.4	1,044.3	3.3	12.6	-32.59	517.5	-330.9	614.3	598.6	15.66	39.219		
1,100.0	1,100.0	1,100.6	1,100.5	3.3	12.8	-32.56	517.2	-330.2	613.6	597.7	15.93	38.520		
1,140.0	1,140.0	1,141.4	1,141.3	3.3	13.0	-32.53	516.9	-329.7	613.1	597.0	16.13	38.017		
1,200.0	1,200.0	1,202.7	1,202.6	3.4	13.2	-32.49	516.3	-328.7	612.2	595.7	16.42	37.274		
1,235.0	1,235.0	1,238.1	1,238.0	3.4	13.7	-32.46	516.0	-328.2	611.6	594.7	16.92	36.141		
1,300.0	1,300.0	1,302.7	1,302.6	3.4	15.8	-32.41	515.3	-327.1	610.5	591.3	19.15	31.882		
1,330.0	1,330.0	1,332.6	1,332.4	3.4	16.8	-32.39	515.0	-326.7	610.0	589.8	20.19	30.218		
1,400.0	1,400.0	1,402.1	1,402.0	3.5	19.3	-32.33	514.4	-325.6	608.9	586.2	22.63	26.909		
1,425.0	1,425.0	1,427.0	1,426.9	3.5	20.1	-32.32	514.2	-325.3	608.5	585.0	23.50	25.889		
1,500.0	1,500.0	1,501.6	1,501.4	3.5	22.8	-32.26	513.5	-324.2	607.4	581.2	26.15	23.229		
1,520.0	1,520.0	1,521.4	1,521.3	3.6	23.5	-32.25	513.4	-323.9	607.1	580.2	26.85	22.606		
1,600.0	1,600.0	1,601.0	1,600.8	3.6	26.4	-32.19	512.7	-322.8	605.9	576.2	29.69	20.406		
1,615.0	1,615.0	1,615.9	1,615.7	3.6	26.9	-32.18	512.6	-322.6	605.7	575.5	30.23	20.039		
1,700.0	1,700.0	1,700.4	1,700.2	3.7	30.0	-32.13	512.0	-321.5	604.6	571.4	33.26	18.179		
1,710.0	1,710.0	1,710.3	1,710.1	3.7	30.4	-32.12	511.9	-321.4	604.5	570.9	33.62	17.981		
1,800.0	1,800.0	1,799.8	1,799.6	3.8	33.6	-32.06	511.3	-320.3	603.4	566.5	36.84	16.378		
1,805.0	1,805.0	1,804.8	1,804.6	3.8	33.8	-32.06	511.3	-320.2	603.3	566.3	37.02	16.297		
1,900.0	1,900.0	1,899.2	1,899.0	3.9	37.3	-32.00	510.7	-319.1	602.3	561.8	40.43	14.895		
1,995.0	1,995.0	1,993.7	1,993.5	3.9	40.8	-31.94	510.2	-318.1	601.3	557.4	43.85	13.711		
2,000.0	2,000.0	1,998.6	1,998.4	3.9	41.0	-31.94	510.2	-318.0	601.2	557.2	44.03	13.653		
2,090.0	2,090.0	2,088.1	2,087.9	4.1	44.3	-17.01	509.8	-317.1	599.0	551.7	47.37	12.646		
2,100.0	2,100.0	2,098.0	2,097.8	4.2	44.6	-17.01	509.7	-317.0	598.6	550.9	47.74	12.539		
2,185.0	2,184.9	2,182.8	2,182.6	4.7	46.2	-17.11	509.3	-316.2	593.8	544.1	49.73	11.941		
2,200.0	2,199.8	2,197.8	2,197.6	4.8	46.4	-17.14	509.3	-316.1	592.7	542.7	49.99	11.857		
2,280.0	2,279.6	2,277.5	2,277.3	5.3	47.4	-17.32	509.0	-315.2	585.6	534.3	51.32	11.412		
2,299.9	2,299.4	2,297.4	2,297.1	5.4	47.6	-17.38	508.9	-315.0	583.5	531.9	51.65	11.299		
2,375.0	2,374.0	2,372.0	2,371.8	5.7	48.5	-17.56	508.6	-314.2	575.4	522.7	52.68	10.923		
2,400.0	2,398.9	2,396.9	2,396.7	5.7	48.8	-17.62	508.5	-314.0	572.6	519.6	53.01	10.802		
2,470.0	2,468.5	2,466.5	2,466.3	5.8	49.6	-17.79	508.2	-313.2	565.0	511.1	53.89	10.484		
2,500.0	2,498.4	2,496.3	2,496.1	5.9	50.0	-17.87	508.1	-312.8	561.8	507.5	54.27	10.352		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD											Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
2,565.0	2,563.0	2,560.5	2,560.2	6.0	50.1	-18.05	507.8	-312.2	554.7	500.3	54.39	10.199
2,600.0	2,597.8	2,595.0	2,594.8	6.0	50.1	-18.16	507.6	-312.1	551.0	496.5	54.45	10.119
2,660.0	2,657.5	2,654.2	2,653.9	6.1	50.2	-18.38	507.1	-312.0	544.5	490.0	54.55	9.982
2,700.0	2,697.3	2,693.6	2,693.4	6.2	50.2	-18.55	506.7	-312.1	540.3	485.7	54.61	9.893
2,755.0	2,752.0	2,747.9	2,747.6	6.3	50.3	-18.82	506.1	-312.4	534.5	479.8	54.71	9.770
2,800.0	2,796.7	2,792.6	2,792.3	6.4	50.3	-19.06	505.5	-312.8	529.8	475.0	54.77	9.672
2,850.0	2,846.4	2,843.2	2,843.0	6.5	50.4	-19.31	504.9	-313.2	524.5	469.7	54.86	9.562
2,900.0	2,896.2	2,893.9	2,893.6	6.6	50.4	-19.55	504.3	-313.2	519.2	464.2	54.94	9.449
2,945.0	2,940.9	2,939.5	2,939.2	6.7	50.5	-19.73	503.9	-313.0	514.3	459.2	55.03	9.344
3,000.0	2,995.6	2,995.2	2,994.9	6.8	50.5	-19.93	503.4	-312.4	508.2	453.0	55.15	9.214
3,040.0	3,035.4	3,035.7	3,035.4	6.9	50.5	-20.06	503.2	-311.8	503.7	448.4	55.25	9.117
3,100.0	3,095.1	3,096.4	3,096.1	7.1	50.6	-20.21	502.8	-310.5	496.8	441.4	55.40	8.968
3,135.0	3,129.9	3,131.8	3,131.5	7.1	50.6	-20.30	502.6	-309.7	492.8	437.3	55.50	8.879
3,200.0	3,194.5	3,196.9	3,196.5	7.3	50.7	-20.47	502.1	-308.2	485.2	429.4	55.71	8.708
3,230.0	3,224.4	3,226.5	3,226.2	7.4	50.8	-20.54	501.9	-307.6	481.6	425.8	55.84	8.626
3,300.0	3,294.0	3,295.8	3,295.4	7.6	51.0	-20.73	501.4	-305.9	473.4	417.3	56.13	8.435
3,325.0	3,318.8	3,320.5	3,320.2	7.6	51.0	-20.79	501.3	-305.4	470.5	414.3	56.23	8.368
3,400.0	3,393.4	3,394.8	3,394.4	7.8	51.2	-20.99	500.9	-303.6	461.8	405.3	56.55	8.166
3,420.0	3,413.3	3,414.6	3,414.2	7.9	51.2	-21.04	500.7	-303.1	459.5	402.9	56.64	8.113
3,500.0	3,492.9	3,493.7	3,493.3	8.1	51.4	-21.25	500.4	-301.2	450.3	393.3	56.98	7.902
3,515.0	3,507.8	3,508.6	3,508.2	8.1	51.4	-21.29	500.3	-300.9	448.6	391.5	57.05	7.862
3,600.0	3,592.3	3,593.8	3,593.4	8.4	51.6	-21.53	499.9	-298.8	438.8	381.4	57.40	7.644
3,610.0	3,602.3	3,603.9	3,603.5	8.4	51.6	-21.56	499.9	-298.6	437.6	380.2	57.44	7.619
3,700.0	3,691.8	3,695.0	3,694.5	8.7	51.8	-21.86	499.0	-296.3	426.9	369.1	57.78	7.388
3,705.0	3,696.8	3,700.0	3,699.6	8.7	51.8	-21.88	499.0	-296.2	426.3	368.5	57.80	7.375
3,800.0	3,791.2	3,794.8	3,794.3	9.0	51.9	-22.25	497.6	-294.0	414.7	356.6	58.09	7.139
3,895.0	3,885.7	3,890.1	3,889.6	9.2	52.0	-22.70	496.0	-292.0	403.0	344.7	58.34	6.907
3,900.0	3,890.7	3,895.2	3,894.6	9.3	52.0	-22.73	495.9	-291.9	402.4	344.0	58.36	6.895
3,990.0	3,980.2	3,984.1	3,983.5	9.5	52.1	-23.17	494.3	-289.9	391.2	332.6	58.60	6.675
4,000.0	3,990.1	3,993.9	3,993.3	9.6	52.1	-23.22	494.1	-289.7	389.9	331.3	58.63	6.651
4,085.0	4,074.7	4,078.4	4,077.8	9.8	52.2	-23.67	492.6	-287.8	379.5	320.6	58.86	6.447
4,100.0	4,089.6	4,093.4	4,092.7	9.9	52.2	-23.75	492.3	-287.5	377.6	318.7	58.90	6.411
4,180.0	4,169.2	4,173.0	4,172.3	10.1	52.3	-24.21	490.8	-285.7	367.7	308.6	59.12	6.219
4,200.0	4,189.0	4,192.9	4,192.3	10.2	52.3	-24.32	490.4	-285.2	365.2	306.0	59.17	6.172
4,275.0	4,263.6	4,268.8	4,268.1	10.4	52.4	-24.79	488.9	-283.4	355.7	296.4	59.35	5.993
4,300.0	4,288.5	4,293.9	4,293.1	10.5	52.4	-24.95	488.3	-282.8	352.5	293.1	59.41	5.933
4,370.0	4,358.1	4,362.9	4,362.1	10.7	52.5	-25.43	486.6	-281.2	343.5	283.9	59.57	5.766
4,400.0	4,388.0	4,392.8	4,392.0	10.8	52.5	-25.66	485.8	-280.5	339.7	280.0	59.63	5.696
4,465.0	4,452.6	4,458.4	4,457.5	11.0	52.6	-26.16	484.1	-278.9	331.2	271.5	59.76	5.543
4,500.0	4,487.4	4,491.6	4,490.8	11.1	52.6	-26.42	483.2	-278.1	326.7	266.9	59.83	5.460
4,560.0	4,547.1	4,551.9	4,551.1	11.3	52.7	-26.91	481.7	-276.7	319.0	259.1	59.91	5.325
4,600.0	4,586.9	4,592.1	4,591.2	11.4	52.7	-27.24	480.7	-275.6	313.8	253.9	59.95	5.234
4,655.0	4,641.6	4,646.7	4,645.8	11.6	52.7	-27.69	479.3	-274.0	306.6	246.6	60.02	5.108
4,700.0	4,686.3	4,688.8	4,687.8	11.8	52.7	-28.06	478.3	-272.9	300.9	240.8	60.06	5.010
4,750.0	4,736.0	4,733.0	4,732.0	11.9	52.8	-28.48	477.5	-272.2	295.1	235.0	60.10	4.909
4,800.0	4,785.8	4,781.6	4,780.6	12.1	52.8	-29.00	476.8	-271.8	289.8	229.7	60.09	4.822
4,820.6	4,806.2	4,800.6	4,799.6	12.2	52.8	-29.22	476.6	-271.8	287.8	227.7	60.08	4.789
4,845.0	4,830.5	4,823.1	4,822.1	12.2	52.8	-29.48	476.5	-272.0	285.6	225.5	60.06	4.755
4,900.0	4,885.3	4,878.2	4,877.2	12.4	52.8	-30.12	476.2	-272.6	281.2	221.2	60.02	4.685
4,940.0	4,925.1	4,918.6	4,917.6	12.5	52.8	-30.57	475.9	-273.0	278.2	218.2	60.00	4.637
5,000.0	4,984.9	4,978.4	4,977.4	12.7	52.8	-31.19	475.4	-273.4	274.2	214.2	59.97	4.571

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 211-MWD, 4639-MWD, 7802-MWD											Offset Well Error:	2.0 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 (usft)	
5,035.0	5,019.8	5,013.3	5,012.3	12.8	52.8	-31.52	475.1	-273.6	272.1	212.1	59.97	4.537
5,100.0	5,084.7	5,078.6	5,077.6	13.1	52.8	-32.07	474.7	-274.0	268.6	208.6	59.98	4.478
5,130.0	5,114.7	5,108.8	5,107.8	13.2	52.8	-32.30	474.5	-274.1	267.2	207.2	59.99	4.454
5,200.0	5,184.6	5,178.3	5,177.3	13.4	52.8	-32.77	474.0	-274.5	264.5	204.4	60.05	4.404
5,225.0	5,209.6	5,203.2	5,202.2	13.5	52.8	-32.92	473.8	-274.6	263.7	203.6	60.08	4.389
5,300.0	5,284.6	5,278.3	5,277.3	13.7	52.8	-33.30	473.3	-275.0	261.9	201.7	60.19	4.351
5,320.0	5,304.6	5,298.0	5,297.0	13.8	52.8	-33.38	473.1	-275.1	261.6	201.4	60.23	4.343
5,400.0	5,384.6	5,377.5	5,376.5	14.0	52.8	-33.65	472.6	-275.7	260.9	200.5	60.40	4.320
5,404.3	5,388.9	5,381.8	5,380.8	14.1	52.8	-33.67	472.5	-275.7	260.9	200.5	60.41	4.319
5,415.0	5,399.6	5,392.4	5,391.3	14.1	52.8	-33.70	472.5	-275.8	260.9	200.5	60.44	4.317
5,420.4	5,405.0	5,397.8	5,396.8	14.1	52.8	-48.64	472.4	-275.9	261.0	200.5	60.45	4.317
5,500.0	5,484.6	5,477.1	5,476.0	14.4	52.9	-48.85	471.9	-276.7	261.2	200.6	60.66	4.307
5,510.0	5,494.6	5,487.0	5,486.0	14.4	52.9	-48.87	471.8	-276.8	261.3	200.6	60.68	4.305
5,600.0	5,584.6	5,577.3	5,576.3	14.7	52.9	-49.10	471.3	-277.7	261.6	200.7	60.92	4.294
5,605.0	5,589.6	5,582.3	5,581.3	14.7	52.9	-49.11	471.2	-277.8	261.6	200.7	60.93	4.293
5,700.0	5,684.6	5,676.9	5,675.9	15.0	52.9	-49.36	470.6	-278.8	261.9	200.8	61.18	4.282
5,795.0	5,779.6	5,771.9	5,770.9	15.3	52.9	-49.63	469.9	-279.9	262.4	201.0	61.42	4.272
5,800.0	5,784.6	5,776.9	5,775.9	15.3	52.9	-49.65	469.9	-280.0	262.4	201.0	61.43	4.271
5,890.0	5,874.6	5,867.2	5,866.1	15.6	53.0	-49.87	469.4	-280.9	262.8	201.1	61.68	4.260
5,900.0	5,884.6	5,877.3	5,876.2	15.7	53.0	-49.88	469.3	-281.0	262.8	201.1	61.71	4.258
5,985.0	5,969.6	5,962.6	5,961.5	15.9	53.0	-50.08	468.8	-281.7	263.0	201.1	61.95	4.245
6,000.0	5,984.6	5,977.4	5,976.3	16.0	53.0	-50.11	468.7	-281.8	263.0	201.1	61.99	4.243
6,080.0	6,064.6	6,056.5	6,055.4	16.3	53.0	-50.26	468.4	-282.5	263.4	201.2	62.24	4.232
6,100.0	6,084.6	6,076.6	6,075.5	16.3	53.0	-50.28	468.4	-282.7	263.5	201.2	62.31	4.230
6,175.0	6,159.6	6,151.9	6,150.8	16.6	53.1	-50.40	468.2	-283.3	263.9	201.4	62.55	4.219
6,200.0	6,184.6	6,176.6	6,175.6	16.7	53.1	-50.45	468.1	-283.6	264.0	201.4	62.63	4.216
6,270.0	6,254.6	6,246.0	6,244.9	16.9	53.1	-50.62	467.8	-284.5	264.5	201.7	62.83	4.211
6,300.0	6,284.6	6,276.0	6,274.9	17.0	53.1	-50.71	467.7	-284.9	264.8	201.9	62.91	4.209
6,365.0	6,349.6	6,341.1	6,340.0	17.2	53.2	-50.90	467.3	-285.9	265.3	202.2	63.09	4.205
6,400.0	6,384.6	6,376.5	6,375.4	17.3	53.2	-51.01	467.1	-286.4	265.5	202.4	63.18	4.203
6,460.0	6,444.6	6,436.9	6,435.8	17.5	53.2	-51.20	466.6	-287.2	265.8	202.5	63.34	4.197
6,500.0	6,484.6	6,476.3	6,475.2	17.7	53.2	-51.31	466.3	-287.7	266.1	202.6	63.45	4.193
6,555.0	6,539.6	6,530.7	6,529.6	17.9	53.2	-51.42	466.2	-288.3	266.5	202.9	63.62	4.189
6,600.0	6,584.6	6,575.8	6,574.7	18.0	53.3	-51.50	466.2	-288.9	266.9	203.2	63.77	4.186
6,650.0	6,634.6	6,625.8	6,624.7	18.2	53.3	-51.59	466.1	-289.5	267.4	203.4	63.93	4.182
6,700.0	6,684.6	6,675.2	6,674.1	18.3	53.3	-51.71	466.0	-290.2	267.9	203.8	64.09	4.179
6,745.0	6,729.6	6,719.8	6,718.7	18.5	53.3	-51.84	465.8	-291.0	268.4	204.2	64.21	4.180
6,800.0	6,784.6	6,774.9	6,773.8	18.7	53.4	-52.01	465.6	-292.0	269.1	204.7	64.37	4.180
6,840.0	6,824.6	6,814.9	6,813.8	18.8	53.4	-52.14	465.4	-292.8	269.5	205.1	64.48	4.180
6,900.0	6,884.6	6,874.5	6,873.3	19.0	53.4	-52.28	465.4	-293.8	270.3	205.7	64.66	4.180
6,935.0	6,919.6	6,909.3	6,908.2	19.1	53.5	-52.33	465.5	-294.4	270.8	206.0	64.79	4.180
7,000.0	6,984.6	6,974.3	6,973.2	19.4	53.5	-52.46	465.6	-295.5	271.8	206.8	65.00	4.181
7,030.0	7,014.6	7,004.5	7,003.3	19.5	53.5	-52.54	465.5	-296.0	272.2	207.1	65.09	4.181
7,100.0	7,084.6	7,075.5	7,074.3	19.7	53.6	-52.69	465.5	-297.1	273.0	207.7	65.32	4.179
7,125.0	7,109.6	7,100.4	7,099.2	19.8	53.6	-52.73	465.5	-297.4	273.3	207.8	65.41	4.178
7,200.0	7,184.6	7,174.1	7,172.9	20.1	53.6	-52.88	465.5	-298.6	274.2	208.6	65.66	4.176
7,220.0	7,204.6	7,194.2	7,193.0	20.1	53.6	-52.93	465.5	-299.0	274.5	208.8	65.73	4.177
7,300.0	7,284.6	7,275.3	7,274.0	20.4	53.7	-53.12	465.4	-300.4	275.6	209.6	65.99	4.176
7,315.0	7,299.6	7,290.1	7,288.9	20.5	53.7	-53.15	465.3	-300.6	275.7	209.7	66.04	4.175
7,400.0	7,384.6	7,374.5	7,373.2	20.7	53.8	-53.37	465.1	-302.1	276.8	210.5	66.30	4.175
7,410.0	7,394.6	7,384.4	7,383.2	20.8	53.8	-53.40	465.1	-302.3	276.9	210.6	66.34	4.175

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		211-MWD, 4639-MWD, 7802-MWD <th colspan="2">Rule Assigned:</th> <th colspan="4"></th> <th>Offset Well Error:</th> <td>2.0 usft</td>					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	7,484.6	7,474.3	7,473.0	21.1	53.8	-53.67	464.8	-304.1	278.2	211.6	66.61	4.177		
7,505.0	7,489.6	7,479.3	7,478.0	21.1	53.8	-53.68	464.8	-304.2	278.3	211.7	66.62	4.177		
7,600.0	7,584.6	7,574.5	7,573.2	21.4	53.9	-53.98	464.4	-306.2	279.7	212.7	66.91	4.180		
7,695.0	7,679.6	7,670.2	7,668.9	21.8	54.0	-54.31	463.8	-308.1	280.8	213.7	67.18	4.180		
7,700.0	7,684.6	7,675.2	7,673.9	21.8	54.0	-54.33	463.8	-308.2	280.9	213.7	67.20	4.180		
7,790.0	7,774.6	7,771.6	7,770.3	22.1	54.0	-54.80	462.2	-310.0	281.5	214.1	67.38	4.178		
7,800.0	7,784.6	7,783.6	7,782.2	22.1	54.0	-54.90	461.7	-310.1	281.3	214.0	67.37	4.176		
7,885.0	7,869.6	7,902.3	7,899.6	22.4	54.1	-57.62	445.8	-310.0	274.9	209.0	65.93	4.169		
7,900.0	7,884.6	7,921.9	7,918.7	22.5	54.1	-58.43	441.1	-309.6	272.7	207.2	65.49	4.164		
7,980.0	7,964.6	8,012.5	8,004.4	22.7	54.1	-63.84	412.1	-308.3	258.7	195.8	62.89	4.114 SF		
8,000.0	7,984.6	8,035.2	8,025.2	22.8	54.1	-65.69	403.1	-308.2	255.0	193.0	61.97	4.115		
8,075.0	8,059.6	8,110.2	8,091.6	23.1	54.1	-73.36	368.2	-308.1	241.3	182.9	58.39	4.133		
8,100.0	8,084.6	8,135.8	8,113.4	23.2	54.1	-76.50	354.7	-308.1	237.4	180.6	56.83	4.177		
8,170.0	8,154.6	8,201.4	8,166.8	23.4	54.2	-85.79	316.7	-307.2	228.6	176.3	52.32	4.369		
8,200.0	8,184.6	8,222.9	8,183.4	23.5	54.2	-89.22	303.1	-306.7	226.8	176.1	50.77	4.468 ES		
8,212.3	8,196.9	8,230.7	8,189.4	23.6	54.2	-90.50	298.0	-306.6	226.7	176.5	50.18	4.516 CC		
8,265.0	8,249.6	8,264.1	8,214.0	23.7	54.2	-96.18	275.5	-306.8	229.9	182.3	47.57	4.832		
8,300.0	8,284.6	8,284.8	8,228.5	23.9	54.2	-99.82	260.7	-307.2	235.6	189.6	45.97	5.125		
8,360.0	8,344.6	8,318.9	8,251.0	24.1	54.2	-105.90	235.1	-308.0	252.2	208.4	43.75	5.764		
8,400.0	8,384.6	8,341.5	8,265.2	24.2	54.2	-109.87	217.5	-308.4	267.4	224.6	42.80	6.248		
8,455.0	8,439.6	8,369.9	8,282.1	24.4	54.2	-114.70	194.8	-308.7	293.0	251.0	42.04	6.971		
8,500.0	8,484.6	8,391.7	8,294.6	24.6	54.2	-118.30	176.8	-308.8	317.5	275.8	41.74	7.607		
8,550.0	8,534.6	8,414.2	8,306.9	24.7	54.3	-121.85	158.0	-308.6	347.8	306.2	41.55	8.369		
8,600.0	8,584.6	8,430.0	8,315.2	24.9	54.3	-124.24	144.5	-308.4	380.7	339.7	41.02	9.280		
8,645.0	8,629.6	8,448.7	8,324.6	25.1	54.3	-126.97	128.4	-308.0	412.3	371.3	41.00	10.056		
8,700.0	8,684.6	8,461.0	8,330.4	25.3	54.3	-128.70	117.6	-307.7	453.1	412.8	40.27	11.251		
8,740.0	8,724.6	8,474.6	8,336.6	25.4	54.3	-130.56	105.4	-307.3	484.1	443.9	40.17	12.049		
8,800.0	8,784.6	8,493.0	8,344.3	25.6	54.3	-132.97	88.8	-306.7	532.2	492.3	39.96	13.317		
8,835.0	8,819.6	8,493.0	8,344.3	25.7	54.3	-132.97	88.8	-306.7	561.0	521.8	39.19	14.315		
8,900.0	8,884.6	8,508.0	8,350.2	26.0	54.3	-134.85	75.0	-306.2	615.9	577.0	38.86	15.850		
8,930.0	8,914.6	8,513.2	8,352.2	26.1	54.3	-135.48	70.2	-306.0	641.7	603.0	38.64	16.605		
9,000.0	8,984.6	8,524.0	8,356.1	26.3	54.3	-136.75	60.1	-305.6	702.9	664.7	38.17	18.416		
9,025.0	9,009.6	8,524.0	8,356.1	26.4	54.3	-136.75	60.1	-305.6	725.1	687.2	37.84	19.163		
9,100.0	9,084.6	8,541.1	8,361.8	26.7	54.3	-138.69	44.1	-304.9	792.2	754.5	37.77	20.973		
9,120.0	9,104.6	8,544.1	8,362.8	26.7	54.3	-139.02	41.2	-304.8	810.3	772.6	37.70	21.494		
9,200.0	9,184.6	8,556.0	8,366.5	27.0	54.3	-140.31	29.9	-304.2	883.3	845.8	37.46	23.579		
9,215.0	9,199.6	8,556.0	8,366.5	27.1	54.3	-140.31	29.9	-304.2	897.1	859.7	37.34	24.027		
9,300.0	9,284.6	8,568.0	8,370.0	27.4	54.3	-141.56	18.4	-303.5	975.7	938.5	37.19	26.237		
9,310.0	9,294.6	8,569.2	8,370.3	27.4	54.3	-141.68	17.3	-303.4	985.0	947.8	37.17	26.501		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD												Offset Well Error:	2.0 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)		Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	2.0	-25.15	518.3	-243.3	572.6				
95.0	95.0	84.5	84.5	3.0	2.1	-25.13	518.5	-243.2	572.7	567.7	5.00	114.432	
100.0	100.0	89.4	89.4	3.0	2.1	-25.13	518.5	-243.2	572.7	567.7	5.01	114.422	
190.0	190.0	177.4	177.4	3.0	2.5	-25.08	519.2	-243.0	573.2	568.2	5.02	114.097	
200.0	200.0	187.2	187.2	3.0	2.5	-25.07	519.3	-242.9	573.3	568.3	5.03	114.046	
285.0	285.0	273.3	273.3	3.0	2.9	-24.99	520.2	-242.5	574.0	568.9	5.08	113.031	
300.0	300.0	289.4	289.4	3.0	2.9	-24.98	520.3	-242.4	574.1	569.0	5.09	112.678	
380.0	380.0	369.5	369.5	3.0	3.0	-24.92	520.8	-241.9	574.3	569.1	5.21	110.124	
400.0	400.0	389.2	389.2	3.0	3.1	-24.90	521.0	-241.8	574.4	569.1	5.25	109.439	
475.0	475.0	464.4	464.4	3.0	3.3	-24.83	521.5	-241.3	574.6	569.2	5.43	105.766	
500.0	500.0	489.4	489.4	3.1	3.5	-24.81	521.7	-241.1	574.7	569.2	5.53	103.926	
570.0	570.0	559.5	559.5	3.1	4.0	-24.75	522.2	-240.7	575.0	569.2	5.81	98.890	
600.0	600.0	589.6	589.5	3.1	4.2	-24.72	522.4	-240.5	575.1	569.1	5.94	96.802	
665.0	665.0	654.6	654.6	3.1	4.7	-24.66	522.8	-240.0	575.3	569.1	6.22	92.455	
700.0	700.0	689.7	689.7	3.1	5.0	-24.63	523.1	-239.8	575.4	569.0	6.38	90.220	
760.0	760.0	750.8	750.7	3.1	5.3	-24.57	523.5	-239.3	575.6	569.0	6.58	87.517	
800.0	800.0	791.4	791.4	3.2	5.4	-24.53	523.7	-239.0	575.6	569.0	6.61	87.061	
833.1	833.1	824.5	824.5	3.2	5.4	-24.51	523.8	-238.8	575.6	569.0	6.63	86.792	
855.0	855.0	844.7	844.7	3.2	5.4	-24.50	523.8	-238.7	575.6	569.0	6.65	86.577	
900.0	900.0	886.5	886.5	3.2	5.4	-24.47	524.2	-238.6	575.9	569.2	6.68	86.153	
950.0	950.0	936.9	936.9	3.2	5.4	-24.46	524.6	-238.6	576.4	569.6	6.74	85.546	
1,000.0	1,000.0	988.0	987.9	3.2	5.5	-24.45	525.0	-238.7	576.7	569.9	6.81	84.728	
1,045.0	1,045.0	1,034.7	1,034.6	3.3	5.5	-24.47	525.1	-238.9	576.9	570.0	6.90	83.572	
1,100.0	1,100.0	1,091.3	1,091.3	3.3	5.5	-24.52	525.0	-239.5	577.0	570.0	7.02	82.171	
1,140.0	1,140.0	1,132.8	1,132.8	3.3	5.6	-24.58	524.7	-240.0	577.0	569.9	7.11	81.185	
1,200.0	1,200.0	1,198.4	1,198.4	3.4	5.7	-24.67	523.9	-240.6	576.5	569.3	7.23	79.718	
1,235.0	1,235.0	1,233.8	1,233.8	3.4	5.7	-24.70	523.4	-240.7	576.1	568.8	7.31	78.858	
1,300.0	1,300.0	1,299.0	1,298.9	3.4	5.8	-24.70	522.6	-240.4	575.2	567.8	7.45	77.196	
1,330.0	1,330.0	1,328.0	1,327.9	3.4	5.8	-24.68	522.3	-240.1	574.9	567.3	7.54	76.282	
1,400.0	1,400.0	1,394.5	1,394.4	3.5	5.9	-24.62	522.0	-239.2	574.3	566.5	7.74	74.155	
1,425.0	1,425.0	1,416.7	1,416.6	3.5	6.0	-24.59	522.1	-238.9	574.2	566.4	7.83	73.365	
1,426.3	1,426.3	1,417.8	1,417.8	3.5	6.0	-24.59	522.1	-238.9	574.2	566.4	7.83	73.326	
1,500.0	1,500.0	1,484.2	1,484.1	3.5	6.1	-24.48	523.0	-238.1	574.7	566.6	8.06	71.307	
1,520.0	1,520.0	1,503.6	1,503.5	3.6	6.2	-24.45	523.4	-237.9	575.0	566.9	8.11	70.863	
1,600.0	1,600.0	1,581.5	1,581.4	3.6	6.4	-24.39	524.7	-237.9	576.2	567.9	8.34	69.105	
1,615.0	1,615.0	1,596.3	1,596.2	3.6	6.4	-24.39	525.0	-238.0	576.5	568.1	8.39	68.744	
1,700.0	1,700.0	1,681.3	1,681.2	3.7	6.5	-24.46	526.2	-239.3	578.1	569.4	8.67	66.687	
1,710.0	1,710.0	1,691.9	1,691.8	3.7	6.6	-24.47	526.3	-239.5	578.3	569.6	8.71	66.419	
1,800.0	1,800.0	1,788.1	1,787.9	3.8	6.8	-24.64	526.6	-241.6	579.3	570.3	9.05	64.032	
1,805.0	1,805.0	1,793.5	1,793.3	3.8	6.8	-24.65	526.5	-241.7	579.4	570.3	9.07	63.902	
1,900.0	1,900.0	1,895.2	1,895.0	3.9	7.0	-24.85	525.6	-243.4	579.3	569.9	9.40	61.602	
1,995.0	1,995.0	1,994.1	1,993.9	3.9	7.2	-24.94	524.4	-243.8	578.3	568.6	9.73	59.410	
2,000.0	2,000.0	1,999.2	1,999.0	3.9	7.2	-24.94	524.3	-243.8	578.3	568.5	9.75	59.296	
2,090.0	2,090.0	2,089.7	2,089.5	4.1	7.4	-9.99	523.4	-242.8	575.6	565.4	10.21	56.373	
2,100.0	2,100.0	2,099.6	2,099.4	4.2	7.5	-9.98	523.3	-242.6	575.1	564.9	10.27	56.028	
2,185.0	2,184.9	2,181.1	2,180.9	4.7	7.6	-9.89	523.2	-240.6	570.0	558.9	11.03	51.670	
2,200.0	2,199.8	2,195.2	2,195.0	4.8	7.7	-9.88	523.2	-240.3	568.9	557.7	11.17	50.916	
2,280.0	2,279.6	2,269.0	2,268.8	5.3	7.9	-9.84	523.8	-238.7	562.1	550.3	11.84	47.465	
2,299.9	2,299.4	2,287.2	2,286.9	5.4	7.9	-9.84	524.0	-238.4	560.3	548.3	12.01	46.663	
2,375.0	2,374.0	2,357.6	2,357.3	5.7	8.1	-9.83	525.4	-237.5	553.4	541.0	12.39	44.656	
2,400.0	2,398.9	2,381.6	2,381.3	5.7	8.2	-9.85	525.8	-237.4	551.2	538.7	12.52	44.034	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD													Offset Well Error:	2.0 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)	Separation (usft)	Factor		
2,470.0	2,468.5	2,450.0	2,449.8	5.8	8.4	-9.94	527.1	-237.6	545.3	532.5	12.80	42.599		
2,500.0	2,498.4	2,479.8	2,479.5	5.9	8.4	-9.99	527.6	-237.8	542.8	529.8	12.92	41.995		
2,565.0	2,563.0	2,546.4	2,546.1	6.0	8.6	-10.12	528.7	-238.4	537.2	524.0	13.25	40.539		
2,600.0	2,597.8	2,582.7	2,582.4	6.0	8.7	-10.22	529.1	-238.8	534.1	520.7	13.44	39.729		
2,660.0	2,657.5	2,645.1	2,644.8	6.1	8.9	-10.41	529.4	-239.6	528.6	514.8	13.79	38.322		
2,700.0	2,697.3	2,686.6	2,686.2	6.2	9.0	-10.56	529.4	-240.2	524.7	510.7	14.03	37.399		
2,755.0	2,752.0	2,744.4	2,744.1	6.3	9.2	-10.79	529.1	-241.2	519.2	504.9	14.32	36.244		
2,800.0	2,796.7	2,791.9	2,791.6	6.4	9.4	-10.98	528.6	-241.8	514.4	499.8	14.56	35.334		
2,850.0	2,846.4	2,844.9	2,844.6	6.5	9.5	-11.20	527.7	-242.3	508.8	494.0	14.81	34.365		
2,900.0	2,896.2	2,897.4	2,897.1	6.6	9.7	-11.42	526.6	-242.7	502.9	487.8	15.05	33.406		
2,945.0	2,940.9	2,943.4	2,943.0	6.7	9.8	-11.58	525.6	-242.6	497.3	482.1	15.28	32.540		
3,000.0	2,995.6	2,999.0	2,998.6	6.8	10.0	-11.69	524.6	-241.9	490.5	474.9	15.57	31.494		
3,040.0	3,035.4	3,038.5	3,038.1	6.9	10.1	-11.75	523.9	-241.2	485.5	469.7	15.79	30.738		
3,100.0	3,095.1	3,097.1	3,096.6	7.1	10.3	-11.81	523.0	-240.0	478.0	461.8	16.12	29.646		
3,135.0	3,129.9	3,130.5	3,130.1	7.1	10.4	-11.84	522.7	-239.2	473.7	457.4	16.31	29.035		
3,200.0	3,194.5	3,192.5	3,192.1	7.3	10.5	-11.88	522.2	-237.9	466.0	449.4	16.68	27.938		
3,230.0	3,224.4	3,221.1	3,220.7	7.4	10.6	-11.89	522.2	-237.3	462.6	445.8	16.86	27.439		
3,300.0	3,294.0	3,287.9	3,287.4	7.6	10.9	-11.90	522.3	-235.9	454.9	437.7	17.28	26.326		
3,325.0	3,318.8	3,311.8	3,311.3	7.6	11.0	-11.90	522.5	-235.4	452.3	434.9	17.43	25.944		
3,400.0	3,393.4	3,384.9	3,384.5	7.8	11.2	-11.90	523.2	-233.9	444.6	426.7	17.87	24.877		
3,420.0	3,413.3	3,403.8	3,403.3	7.9	11.3	-11.89	523.4	-233.5	442.6	424.6	17.98	24.611		
3,500.0	3,492.9	3,486.7	3,486.2	8.1	11.5	-11.87	524.6	-231.9	434.7	416.3	18.49	23.515		
3,515.0	3,507.8	3,504.1	3,503.6	8.1	11.6	-11.85	524.7	-231.4	433.1	414.5	18.60	23.287		
3,600.0	3,592.3	3,588.5	3,587.9	8.4	12.0	-11.73	524.7	-228.4	423.1	403.9	19.14	22.101		
3,610.0	3,602.3	3,597.4	3,596.8	8.4	12.0	-11.73	524.8	-228.2	421.9	402.7	19.20	21.975		
3,700.0	3,691.8	3,678.0	3,677.4	8.7	12.5	-11.79	525.6	-227.1	413.0	393.3	19.73	20.933		
3,705.0	3,696.8	3,682.5	3,681.9	8.7	12.5	-11.80	525.7	-227.1	412.6	392.8	19.76	20.879		
3,800.0	3,791.2	3,772.7	3,772.1	9.0	12.9	-12.09	527.5	-228.3	405.2	384.8	20.33	19.931		
3,895.0	3,885.7	3,870.4	3,869.7	9.2	13.2	-12.57	529.1	-230.3	397.7	376.7	20.96	18.973		
3,900.0	3,890.7	3,875.6	3,874.9	9.3	13.2	-12.60	529.1	-230.5	397.3	376.3	20.99	18.925		
3,990.0	3,980.2	3,971.6	3,970.9	9.5	13.5	-13.13	529.4	-232.2	389.1	367.5	21.58	18.033		
4,000.0	3,990.1	3,982.4	3,981.7	9.6	13.6	-13.20	529.3	-232.4	388.1	366.5	21.64	17.933		
4,085.0	4,074.7	4,072.6	4,071.9	9.8	13.9	-13.77	527.9	-233.5	378.8	356.6	22.19	17.071		
4,100.0	4,089.6	4,088.4	4,087.7	9.9	13.9	-13.87	527.6	-233.5	377.0	354.7	22.28	16.920		
4,180.0	4,169.2	4,171.6	4,170.8	10.1	14.2	-14.32	525.5	-233.3	367.1	344.3	22.78	16.113		
4,200.0	4,189.0	4,192.2	4,191.5	10.2	14.3	-14.42	524.9	-233.1	364.5	341.6	22.90	15.913		
4,275.0	4,263.6	4,266.0	4,265.2	10.4	14.5	-14.71	523.1	-231.9	354.6	331.3	23.37	15.174		
4,300.0	4,288.5	4,290.3	4,289.6	10.5	14.6	-14.79	522.6	-231.4	351.4	327.9	23.53	14.936		
4,370.0	4,358.1	4,358.8	4,358.0	10.7	14.8	-15.02	521.3	-230.1	342.6	318.6	23.98	14.288		
4,400.0	4,388.0	4,388.1	4,387.3	10.8	14.9	-15.11	520.8	-229.6	338.8	314.6	24.17	14.019		
4,465.0	4,452.6	4,448.8	4,448.0	11.0	15.1	-15.27	520.2	-228.4	331.1	306.5	24.60	13.458		
4,500.0	4,487.4	4,481.4	4,480.6	11.1	15.2	-15.32	520.3	-227.7	327.3	302.5	24.84	13.178		
4,560.0	4,547.1	4,540.4	4,539.5	11.3	15.3	-15.39	520.7	-226.6	321.0	295.9	25.16	12.757		
4,600.0	4,586.9	4,579.8	4,579.0	11.4	15.4	-15.45	521.0	-225.9	316.9	291.5	25.39	12.481		
4,655.0	4,641.6	4,634.1	4,633.2	11.6	15.5	-15.56	521.4	-225.0	311.3	285.6	25.72	12.102		
4,700.0	4,686.3	4,677.8	4,676.9	11.8	15.5	-15.66	521.8	-224.5	306.8	280.9	25.91	11.842		
4,750.0	4,736.0	4,726.2	4,725.4	11.9	15.6	-15.79	522.4	-224.0	302.0	275.9	26.08	11.580		
4,800.0	4,785.8	4,775.5	4,774.6	12.1	15.6	-15.94	523.1	-223.6	297.4	271.2	26.25	11.328		
4,820.6	4,806.2	4,795.9	4,795.0	12.2	15.6	-16.00	523.4	-223.5	295.5	269.2	26.32	11.227		
4,845.0	4,830.5	4,820.1	4,819.2	12.2	15.6	-16.07	523.7	-223.4	293.3	266.9	26.41	11.109		
4,900.0	4,885.3	4,873.4	4,872.5	12.4	15.6	-16.21	524.6	-223.2	288.9	262.3	26.60	10.863		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD											Offset Well Error:	2.0 usft
Reference	Offset	Semi Major Axis	Reference	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)	Separation (usft)	
4,940.0	4,925.1	4,912.0	4,911.1	12.5	15.6	-16.32	525.3	-223.2	286.3	259.5	26.74	10.706
5,000.0	4,984.9	4,972.0	4,971.1	12.7	15.7	-16.46	526.6	-223.3	282.9	256.0	26.96	10.497
5,035.0	5,019.8	5,007.4	5,006.5	12.8	15.7	-16.52	527.4	-223.3	281.2	254.1	27.08	10.384
5,100.0	5,084.7	5,072.7	5,071.8	13.1	15.7	-16.57	528.8	-223.1	278.5	251.1	27.32	10.192
5,130.0	5,114.7	5,102.8	5,101.9	13.2	15.7	-16.58	529.4	-223.0	277.4	250.0	27.43	10.112
5,200.0	5,184.6	5,173.6	5,172.6	13.4	15.8	-16.54	530.8	-222.7	275.4	247.7	27.70	9.943
5,225.0	5,209.6	5,198.9	5,197.9	13.5	15.8	-16.51	531.2	-222.5	274.8	247.0	27.79	9.889
5,300.0	5,284.6	5,274.5	5,273.5	13.7	15.8	-16.39	532.5	-221.9	273.6	245.5	28.08	9.744
5,320.0	5,304.6	5,294.6	5,293.6	13.8	15.8	-16.35	532.8	-221.7	273.4	245.3	28.16	9.711
5,376.4	5,360.9	5,351.4	5,350.4	14.0	15.9	-16.22	533.7	-221.3	273.2	244.8	28.38	9.627
5,400.0	5,384.6	5,375.2	5,374.2	14.0	15.9	-16.16	534.0	-221.1	273.3	244.8	28.47	9.596
5,415.0	5,399.6	5,390.3	5,389.3	14.1	15.9	-16.12	534.2	-221.0	273.3	244.8	28.53	9.579
5,420.4	5,405.0	5,395.8	5,394.8	14.1	15.9	-31.04	534.2	-220.9	273.4	244.8	28.55	9.573
5,500.0	5,484.6	5,473.5	5,472.5	14.4	16.0	-30.85	535.3	-220.5	274.1	245.2	28.87	9.494
5,510.0	5,494.6	5,483.3	5,482.3	14.4	16.0	-30.83	535.5	-220.5	274.2	245.3	28.91	9.485
5,600.0	5,584.6	5,574.1	5,573.1	14.7	16.1	-30.67	536.9	-220.5	275.4	246.1	29.28	9.406
5,605.0	5,589.6	5,579.1	5,578.1	14.7	16.1	-30.66	536.9	-220.5	275.4	246.1	29.30	9.402
5,700.0	5,684.6	5,673.5	5,672.5	15.0	16.2	-30.47	538.3	-220.2	276.6	246.9	29.69	9.314
5,795.0	5,779.6	5,768.2	5,767.1	15.3	16.3	-30.20	540.1	-219.8	277.8	247.7	30.10	9.232
5,800.0	5,784.6	5,773.2	5,772.1	15.3	16.3	-30.19	540.2	-219.7	277.9	247.8	30.12	9.228
5,890.0	5,874.6	5,863.6	5,862.6	15.6	16.4	-29.95	541.8	-219.4	279.1	248.6	30.51	9.149
5,900.0	5,884.6	5,873.7	5,872.7	15.7	16.4	-29.93	542.0	-219.3	279.2	248.7	30.55	9.140
5,985.0	5,969.6	5,959.6	5,958.6	15.9	16.5	-29.73	543.3	-218.9	280.1	249.2	30.92	9.058
6,000.0	5,984.6	5,974.7	5,973.6	16.0	16.5	-29.69	543.4	-218.8	280.3	249.3	30.99	9.043
6,080.0	6,064.6	6,054.8	6,053.7	16.3	16.6	-29.56	544.4	-218.6	280.9	249.6	31.35	8.961
6,100.0	6,084.6	6,075.1	6,074.0	16.3	16.6	-29.53	544.6	-218.6	281.1	249.7	31.44	8.940
6,175.0	6,159.6	6,150.9	6,149.8	16.6	16.7	-29.47	545.1	-218.5	281.5	249.7	31.78	8.858
6,200.0	6,184.6	6,175.8	6,174.8	16.7	16.8	-29.46	545.2	-218.5	281.6	249.7	31.90	8.829
6,270.0	6,254.6	6,245.7	6,244.6	16.9	16.9	-29.48	545.5	-218.8	282.0	249.8	32.23	8.750
6,300.0	6,284.6	6,276.0	6,274.9	17.0	16.9	-29.51	545.5	-219.0	282.1	249.8	32.37	8.715
6,365.0	6,349.6	6,341.7	6,340.6	17.2	17.0	-29.53	545.6	-219.1	282.3	249.6	32.68	8.638
6,400.0	6,384.6	6,377.4	6,376.4	17.3	17.0	-29.53	545.6	-219.2	282.3	249.5	32.85	8.595
6,460.0	6,444.6	6,438.4	6,437.3	17.5	17.1	-29.55	545.4	-219.1	282.1	249.0	33.13	8.516
6,500.0	6,484.6	6,477.7	6,476.7	17.7	17.2	-29.56	545.3	-219.1	282.0	248.7	33.32	8.463
6,536.5	6,521.0	6,513.6	6,512.5	17.8	17.2	-29.58	545.2	-219.2	282.0	248.5	33.49	8.418
6,555.0	6,539.6	6,532.0	6,531.0	17.9	17.2	-29.58	545.2	-219.2	282.0	248.4	33.58	8.396
6,600.0	6,584.6	6,577.9	6,576.8	18.0	17.3	-29.62	545.1	-219.4	281.9	248.1	33.80	8.340
6,650.0	6,634.6	6,628.6	6,627.5	18.2	17.4	-29.72	544.6	-219.6	281.7	247.7	34.04	8.275
6,700.0	6,684.6	6,678.0	6,676.9	18.3	17.5	-29.83	544.2	-220.0	281.5	247.2	34.29	8.210
6,745.0	6,729.6	6,722.5	6,721.4	18.5	17.5	-29.94	543.9	-220.4	281.4	246.9	34.51	8.154
6,800.0	6,784.6	6,777.4	6,776.3	18.7	17.6	-30.03	543.6	-220.8	281.4	246.6	34.78	8.089
6,840.0	6,824.6	6,817.3	6,816.2	18.8	17.7	-30.06	543.5	-220.9	281.3	246.3	34.98	8.042
6,849.5	6,834.0	6,826.6	6,825.5	18.9	17.7	-30.06	543.5	-220.9	281.3	246.3	35.03	8.030
6,900.0	6,884.6	6,876.5	6,875.4	19.0	17.8	-30.11	543.4	-221.1	281.4	246.1	35.29	7.974
6,935.0	6,919.6	6,911.3	6,910.2	19.1	17.8	-30.16	543.4	-221.4	281.5	246.0	35.47	7.937
7,000.0	6,984.6	6,978.4	6,977.3	19.4	18.0	-30.26	543.1	-221.8	281.4	245.6	35.80	7.862
7,030.0	7,014.6	7,008.9	7,007.8	19.5	18.0	-30.31	542.8	-222.0	281.3	245.3	35.95	7.824
7,100.0	7,084.6	7,078.1	7,077.0	19.7	18.1	-30.42	542.3	-222.2	280.9	244.6	36.31	7.737
7,125.0	7,109.6	7,103.0	7,101.9	19.8	18.2	-30.45	542.1	-222.3	280.8	244.4	36.44	7.708
7,200.0	7,184.6	7,178.5	7,177.4	20.1	18.3	-30.55	541.6	-222.6	280.5	243.7	36.82	7.619
7,220.0	7,204.6	7,198.8	7,197.7	20.1	18.4	-30.58	541.4	-222.7	280.4	243.5	36.93	7.594

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD													Offset Well Error:	2.0 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)						
7,300.0	7,284.6	7,280.3	7,279.2	20.4	18.5	-30.68	540.6	-222.7	279.8	242.4	37.34	7.492		
7,315.0	7,299.6	7,295.2	7,294.1	20.5	18.5	-30.70	540.4	-222.7	279.6	242.2	37.42	7.472		
7,400.0	7,384.6	7,379.7	7,378.6	20.7	18.7	-30.89	539.2	-223.1	278.8	240.9	37.87	7.361		
7,410.0	7,394.6	7,390.0	7,388.9	20.8	18.7	-30.92	539.1	-223.2	278.7	240.7	37.92	7.348		
7,500.0	7,484.6	7,482.1	7,480.9	21.1	18.9	-31.26	537.1	-223.9	277.4	239.0	38.40	7.224		
7,505.0	7,489.6	7,487.1	7,485.9	21.1	18.9	-31.28	537.0	-224.0	277.3	238.9	38.42	7.217		
7,600.0	7,584.6	7,582.4	7,581.3	21.4	19.1	-31.65	534.5	-224.6	275.6	236.6	38.93	7.078		
7,695.0	7,679.6	7,677.9	7,676.7	21.8	19.3	-32.04	532.0	-225.2	273.7	234.3	39.45	6.938		
7,700.0	7,684.6	7,682.9	7,681.7	21.8	19.3	-32.06	531.8	-225.2	273.6	234.1	39.48	6.931		
7,790.0	7,774.6	7,773.1	7,771.9	22.1	19.5	-32.46	529.2	-225.8	271.7	231.7	39.97	6.797		
7,800.0	7,784.6	7,783.0	7,781.8	22.1	19.5	-32.50	528.9	-225.8	271.4	231.4	40.02	6.782		
7,885.0	7,869.6	7,867.3	7,866.0	22.4	19.7	-32.81	526.7	-226.2	269.8	229.3	40.50	6.662		
7,900.0	7,884.6	7,882.2	7,880.9	22.5	19.7	-32.86	526.3	-226.2	269.5	228.9	40.58	6.642		
7,980.0	7,964.6	7,961.9	7,960.6	22.7	19.9	-33.15	524.4	-226.6	268.1	227.1	41.03	6.535		
8,000.0	7,984.6	7,981.9	7,980.6	22.8	19.9	-33.23	524.0	-226.7	267.8	226.6	41.14	6.509		
8,075.0	8,059.6	8,056.9	8,055.5	23.1	20.1	-33.55	522.1	-227.3	266.5	225.0	41.56	6.413		
8,100.0	8,084.6	8,082.0	8,080.6	23.2	20.2	-33.65	521.5	-227.4	266.1	224.4	41.70	6.381		
8,170.0	8,154.6	8,153.0	8,151.6	23.4	20.3	-33.93	519.7	-227.8	264.8	222.7	42.10	6.291		
8,200.0	8,184.6	8,184.0	8,182.6	23.5	20.4	-34.07	518.7	-227.9	264.2	221.9	42.27	6.250		
8,265.0	8,249.6	8,250.3	8,248.8	23.7	20.5	-34.45	516.2	-228.3	262.3	219.7	42.63	6.153		
8,300.0	8,284.6	8,285.3	8,283.8	23.9	20.6	-34.65	514.8	-228.5	261.3	218.5	42.83	6.100		
8,360.0	8,344.6	8,345.0	8,343.5	24.1	20.8	-35.01	512.5	-228.8	259.5	216.3	43.18	6.010		
8,400.0	8,384.6	8,384.7	8,383.2	24.2	20.9	-35.24	511.0	-229.0	258.4	215.0	43.41	5.952		
8,455.0	8,439.6	8,439.0	8,437.4	24.4	21.0	-35.53	509.0	-229.3	256.9	213.2	43.73	5.875		
8,500.0	8,484.6	8,483.1	8,481.5	24.6	21.1	-35.71	507.8	-229.3	255.9	211.9	44.00	5.817		
8,550.0	8,534.6	8,533.3	8,531.7	24.7	21.2	-35.85	506.5	-229.3	254.9	210.6	44.29	5.755		
8,600.0	8,584.6	8,584.6	8,582.9	24.9	21.3	-36.02	505.1	-229.1	253.7	209.1	44.58	5.690		
8,645.0	8,629.6	8,629.4	8,627.7	25.1	21.4	-36.19	503.6	-229.0	252.4	207.6	44.85	5.629		
8,700.0	8,684.6	8,683.3	8,681.6	25.3	21.6	-36.43	502.0	-229.1	251.1	205.9	45.17	5.558		
8,740.0	8,724.6	8,724.5	8,722.7	25.4	21.7	-36.62	500.7	-229.1	250.1	204.7	45.41	5.509		
8,800.0	8,784.6	8,787.2	8,785.4	25.6	21.8	-36.88	498.4	-228.9	248.2	202.5	45.75	5.425		
8,835.0	8,819.6	8,820.6	8,818.9	25.7	21.9	-37.04	497.0	-228.7	247.0	201.0	45.97	5.373		
8,900.0	8,884.6	8,884.0	8,882.2	26.0	22.1	-37.50	494.6	-229.3	245.4	199.0	46.37	5.292		
8,930.0	8,914.6	8,913.0	8,911.1	26.1	22.2	-37.74	493.5	-229.8	244.8	198.2	46.56	5.258		
9,000.0	8,984.6	8,984.7	8,982.8	26.3	22.4	-38.18	491.0	-230.2	243.1	196.1	46.98	5.173		
9,025.0	9,009.6	9,009.8	9,007.9	26.4	22.4	-38.31	490.1	-230.2	242.4	195.2	47.13	5.142		
9,100.0	9,084.6	9,085.0	9,083.0	26.7	22.6	-38.73	487.3	-230.2	240.2	192.6	47.59	5.047		
9,120.0	9,104.6	9,104.7	9,102.8	26.7	22.7	-38.86	486.5	-230.3	239.6	191.9	47.71	5.023		
9,200.0	9,184.6	9,182.6	9,180.5	27.0	22.9	-39.44	483.5	-230.9	237.6	189.4	48.21	4.929		
9,215.0	9,199.6	9,196.3	9,194.3	27.1	22.9	-39.54	483.0	-231.1	237.4	189.0	48.31	4.914		
9,253.6	9,238.2	9,231.8	9,229.7	27.2	23.0	-39.74	482.3	-231.6	237.1	188.5	48.56	4.883		
9,300.0	9,284.6	9,276.4	9,274.4	27.4	23.2	-39.91	482.1	-232.3	237.4	188.6	48.86	4.859		
9,310.0	9,294.6	9,287.3	9,285.3	27.4	23.2	-39.95	482.0	-232.5	237.5	188.5	48.93	4.853		
9,400.0	9,384.6	9,381.5	9,379.4	27.7	23.6	-40.56	479.6	-233.8	236.5	186.9	49.56	4.772		
9,405.0	9,389.6	9,386.3	9,384.1	27.7	23.6	-40.60	479.5	-233.8	236.4	186.8	49.59	4.767		
9,500.0	9,484.6	9,478.4	9,476.2	28.1	23.9	-41.45	476.8	-236.2	235.9	185.7	50.23	4.697		
9,595.0	9,579.6	9,575.7	9,573.5	28.4	24.2	-42.30	474.3	-238.6	235.7	184.9	50.83	4.637		
9,600.0	9,584.6	9,581.1	9,578.8	28.4	24.2	-42.34	474.2	-238.7	235.7	184.8	50.87	4.633		
9,690.0	9,674.6	9,670.7	9,668.4	28.7	24.4	-42.79	471.7	-238.9	234.0	182.5	51.46	4.547		
9,700.0	9,684.6	9,679.8	9,677.5	28.8	24.5	-42.83	471.5	-239.0	233.9	182.4	51.53	4.539		
9,714.7	9,699.3	9,693.1	9,690.8	28.8	24.5	-42.90	471.3	-239.2	233.8	182.2	51.63	4.529		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 239-MWD, 761-MWD, 4644-MWD, 9817-MWD												Offset Well Error:	2.0 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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,785.0	9,769.6	9,763.5	9,761.1	29.1	24.7	-43.37	470.4	-241.0	234.4	182.3	52.13	4.497	
9,800.0	9,784.6	9,780.5	9,778.2	29.1	24.8	-43.52	469.9	-241.4	234.4	182.1	52.24	4.487	
9,880.0	9,864.6	9,876.1	9,873.5	29.4	24.9	-44.96	463.7	-243.5	232.0	179.5	52.49	4.420	
9,900.0	9,884.6	9,902.4	9,899.5	29.5	24.9	-45.77	459.8	-244.1	230.2	177.8	52.49	4.386	
9,975.0	9,959.6	9,992.3	9,987.5	29.7	24.9	-49.26	441.6	-244.5	220.1	167.5	52.56	4.187	
10,000.0	9,984.6	10,020.8	10,015.0	29.8	24.9	-50.81	434.1	-244.5	215.8	163.2	52.60	4.102	
10,070.0	10,054.6	10,097.6	10,087.4	30.1	24.9	-56.68	408.6	-245.2	201.9	149.1	52.85	3.821	
10,100.0	10,084.6	10,127.5	10,114.9	30.2	24.9	-59.68	396.9	-245.7	195.9	142.8	53.07	3.691	
10,165.0	10,149.6	10,192.9	10,173.1	30.4	25.0	-68.15	367.2	-247.5	183.3	129.6	53.66	3.416	
10,200.0	10,184.6	10,227.4	10,202.5	30.5	25.0	-73.75	349.1	-248.6	177.6	123.5	54.07	3.284	
10,260.0	10,244.6	10,279.0	10,243.4	30.7	25.1	-84.01	317.9	-250.2	171.3	116.4	54.88	3.121	
10,275.6	10,260.1	10,290.2	10,251.6	30.8	25.1	-86.55	310.3	-250.6	170.9	115.9	55.04	3.106	CC, ES, SF
10,300.0	10,284.6	10,306.5	10,263.1	30.9	25.2	-90.42	298.7	-251.3	171.8	116.7	55.16	3.115	
10,355.0	10,339.6	10,340.1	10,285.0	31.1	25.2	-98.79	273.3	-252.9	180.9	126.2	54.75	3.305	
10,400.0	10,384.6	10,365.2	10,299.7	31.2	25.3	-105.14	253.0	-253.8	195.5	141.7	53.81	3.634	
10,450.0	10,434.6	10,389.2	10,312.6	31.4	25.4	-111.12	232.8	-254.1	218.4	166.0	52.39	4.168	
10,500.0	10,484.6	10,408.6	10,322.2	31.6	25.4	-115.80	215.9	-254.0	247.0	196.2	50.86	4.857	
10,545.0	10,529.6	10,424.0	10,329.3	31.7	25.5	-119.38	202.1	-253.8	276.7	227.1	49.62	5.577	
10,600.0	10,584.6	10,438.0	10,335.3	31.9	25.5	-122.46	189.6	-253.6	316.7	268.4	48.28	6.559	
10,640.0	10,624.6	10,453.3	10,341.6	32.1	25.6	-125.68	175.6	-253.3	347.6	299.9	47.69	7.290	
10,700.0	10,684.6	10,469.0	10,347.7	32.3	25.6	-128.77	161.2	-252.9	396.2	349.4	46.85	8.457	
10,735.0	10,719.6	10,478.5	10,351.3	32.4	25.6	-130.54	152.4	-252.6	425.5	379.0	46.50	9.150	
10,800.0	10,784.6	10,493.5	10,356.7	32.6	25.7	-133.17	138.4	-252.3	481.3	435.4	45.98	10.467	
10,830.0	10,814.6	10,501.0	10,359.3	32.7	25.7	-134.42	131.3	-252.1	507.6	461.8	45.83	11.077	
10,900.0	10,884.6	10,514.2	10,363.7	33.0	25.8	-136.49	118.9	-251.9	570.0	524.5	45.50	12.526	
10,925.0	10,909.6	10,519.0	10,365.3	33.1	25.8	-137.21	114.4	-251.8	592.5	547.1	45.42	13.044	
11,000.0	10,984.6	10,531.0	10,369.1	33.4	25.8	-138.93	103.0	-251.7	660.8	615.6	45.24	14.607	
11,020.0	11,004.6	10,531.0	10,369.1	33.4	25.8	-138.93	103.0	-251.7	679.3	634.1	45.17	15.038	
11,100.0	11,084.6	10,547.1	10,373.9	33.7	25.9	-141.08	87.6	-251.5	753.4	708.2	45.17	16.680	
11,115.0	11,099.6	10,549.1	10,374.4	33.8	25.9	-141.34	85.7	-251.5	767.4	722.2	45.16	16.991	
11,200.0	11,184.6	10,563.0	10,378.3	34.1	26.0	-143.03	72.3	-251.3	847.2	801.9	45.22	18.736	
11,210.0	11,194.6	10,563.0	10,378.3	34.1	26.0	-143.03	72.3	-251.3	856.6	811.4	45.21	18.947	
11,300.0	11,284.6	10,563.0	10,378.3	34.4	26.0	-143.03	72.3	-251.3	941.9	896.7	45.20	20.838	
11,305.0	11,289.6	10,563.0	10,378.3	34.4	26.0	-143.03	72.3	-251.3	946.7	901.5	45.21	20.942	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	0.0	-16.00	499.0	-143.1	519.2					
95.0	95.0	88.1	88.1	3.0	0.1	-16.05	498.8	-143.5	519.0	515.9	3.07	169.112		
100.0	100.0	93.2	93.2	3.0	0.1	-16.05	498.7	-143.5	519.0	515.9	3.07	168.886		
190.0	190.0	182.9	182.9	3.0	0.3	-16.16	498.2	-144.3	518.7	515.4	3.26	159.289		
200.0	200.0	192.8	192.8	3.0	0.3	-16.17	498.1	-144.4	518.7	515.4	3.28	158.233		
285.0	285.0	277.7	277.6	3.0	0.5	-16.28	497.7	-145.3	518.5	515.0	3.46	149.676		
300.0	300.0	292.6	292.6	3.0	0.5	-16.30	497.6	-145.5	518.4	514.9	3.50	148.244		
380.0	380.0	372.8	372.8	3.0	0.7	-16.41	497.1	-146.4	518.3	514.6	3.68	140.938		
400.0	400.0	392.9	392.8	3.0	0.7	-16.43	497.0	-146.6	518.2	514.5	3.72	139.200		
475.0	475.0	468.7	468.6	3.0	0.9	-16.54	496.5	-147.5	518.0	514.1	3.90	132.917		
500.0	500.0	494.0	493.9	3.1	0.9	-16.59	496.3	-147.8	517.8	513.9	3.96	130.916		
570.0	570.0	564.2	564.1	3.1	1.1	-16.71	495.6	-148.8	517.5	513.4	4.12	125.590		
600.0	600.0	594.2	594.2	3.1	1.2	-16.76	495.4	-149.2	517.3	513.2	4.19	123.414		
665.0	665.0	659.1	659.1	3.1	1.3	-16.87	494.7	-150.1	517.0	512.7	4.35	118.916		
700.0	700.0	694.1	694.0	3.1	1.4	-16.93	494.4	-150.5	516.8	512.4	4.43	116.604		
760.0	760.0	752.8	752.8	3.1	1.5	-17.04	493.9	-151.4	516.6	512.0	4.58	112.887		
800.0	800.0	791.9	791.9	3.2	1.6	-17.11	493.7	-152.0	516.5	511.9	4.67	110.538		
855.0	855.0	846.8	846.7	3.2	1.7	-17.22	493.4	-152.9	516.5	511.7	4.81	107.399		
900.0	900.0	891.9	891.8	3.2	1.8	-17.31	493.1	-153.7	516.5	511.6	4.92	104.931		
950.0	950.0	941.9	941.8	3.2	1.9	-17.41	492.8	-154.5	516.5	511.4	5.05	102.301		
1,000.0	1,000.0	991.8	991.7	3.2	2.0	-17.51	492.5	-155.4	516.5	511.3	5.18	99.781		
1,045.0	1,045.0	1,037.2	1,037.1	3.3	2.1	-17.59	492.3	-156.1	516.4	511.1	5.29	97.579		
1,100.0	1,100.0	1,092.8	1,092.7	3.3	2.2	-17.69	491.9	-156.9	516.3	510.9	5.44	94.981		
1,140.0	1,140.0	1,132.9	1,132.8	3.3	2.3	-17.76	491.6	-157.4	516.2	510.7	5.54	93.167		
1,200.0	1,200.0	1,193.0	1,192.9	3.4	2.4	-17.85	491.2	-158.2	516.1	510.4	5.70	90.555		
1,235.0	1,235.0	1,228.0	1,227.9	3.4	2.5	-17.91	491.0	-158.6	516.0	510.2	5.79	89.088		
1,300.0	1,300.0	1,293.0	1,292.9	3.4	2.7	-18.01	490.5	-159.5	515.8	509.8	5.97	86.468		
1,330.0	1,330.0	1,322.8	1,322.6	3.4	2.7	-18.06	490.3	-159.9	515.7	509.7	6.05	85.311		
1,400.0	1,400.0	1,392.0	1,391.9	3.5	2.9	-18.16	489.9	-160.7	515.6	509.4	6.23	82.726		
1,425.0	1,425.0	1,416.8	1,416.7	3.5	2.9	-18.20	489.8	-161.0	515.6	509.3	6.30	81.837		
1,447.8	1,447.8	1,439.4	1,439.3	3.5	3.0	-18.23	489.7	-161.3	515.6	509.2	6.36	81.042		
1,500.0	1,500.0	1,491.3	1,491.1	3.5	3.1	-18.29	489.6	-161.8	515.6	509.1	6.50	79.274		
1,520.0	1,520.0	1,511.1	1,510.9	3.6	3.1	-18.32	489.5	-162.1	515.6	509.1	6.56	78.618		
1,600.0	1,600.0	1,590.2	1,590.0	3.6	3.3	-18.41	489.4	-162.9	515.8	509.0	6.78	76.099		
1,615.0	1,615.0	1,604.9	1,604.8	3.6	3.3	-18.42	489.4	-163.0	515.9	509.0	6.82	75.646		
1,700.0	1,700.0	1,687.7	1,687.5	3.7	3.5	-18.49	489.7	-163.7	516.3	509.3	7.05	73.219		
1,710.0	1,710.0	1,697.4	1,697.3	3.7	3.5	-18.49	489.7	-163.8	516.4	509.3	7.08	72.946		
1,800.0	1,800.0	1,787.3	1,787.1	3.8	3.7	-18.52	490.4	-164.2	517.2	509.8	7.33	70.523		
1,805.0	1,805.0	1,792.3	1,792.1	3.8	3.7	-18.52	490.4	-164.3	517.2	509.8	7.35	70.393		
1,900.0	1,900.0	1,886.5	1,886.3	3.9	3.9	-18.52	491.2	-164.5	518.1	510.5	7.62	68.012		
1,995.0	1,995.0	1,981.4	1,981.2	3.9	4.1	-18.50	492.2	-164.7	519.0	511.1	7.89	65.768		
2,000.0	2,000.0	1,986.4	1,986.2	3.9	4.1	-18.50	492.2	-164.7	519.1	511.2	7.91	65.654		
2,090.0	2,090.0	2,076.4	2,076.3	4.1	4.3	-3.56	493.2	-164.8	518.6	510.3	8.28	62.607		
2,100.0	2,100.0	2,086.5	2,086.3	4.2	4.3	-3.56	493.3	-164.8	518.4	510.0	8.33	62.259		
2,185.0	2,184.9	2,171.8	2,171.6	4.7	4.5	-3.55	494.2	-164.7	515.0	505.9	9.03	57.007		
2,200.0	2,199.8	2,186.9	2,186.7	4.8	4.5	-3.55	494.3	-164.7	514.1	504.9	9.16	56.099		
2,280.0	2,279.6	2,268.5	2,268.3	5.3	4.7	-3.57	495.0	-164.6	508.0	498.2	9.79	51.870		
2,299.9	2,299.4	2,288.8	2,288.6	5.4	4.7	-3.58	495.1	-164.6	506.1	496.2	9.95	50.842		
2,375.0	2,374.0	2,365.5	2,365.3	5.7	4.9	-3.64	495.3	-164.6	498.5	488.1	10.31	48.337		
2,400.0	2,398.9	2,391.1	2,390.9	5.7	5.0	-3.66	495.3	-164.7	495.8	485.4	10.43	47.551		
2,470.0	2,468.5	2,463.7	2,463.6	5.8	5.1	-3.75	494.9	-164.9	488.3	477.6	10.66	45.795		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD												Offset Well Error:	0.0 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)			
2,500.0	2,498.4	2,494.9	2,494.7	5.9	5.2	-3.81	494.6	-165.0	484.9	474.1	10.76	45.058	
2,565.0	2,563.0	2,560.2	2,560.0	6.0	5.3	-3.93	493.7	-165.3	477.4	466.4	10.99	43.454	
2,600.0	2,597.8	2,595.2	2,595.0	6.0	5.4	-4.00	493.2	-165.5	473.3	462.2	11.11	42.616	
2,660.0	2,657.5	2,656.2	2,656.0	6.1	5.5	-4.13	492.3	-165.8	466.3	455.0	11.33	41.166	
2,700.0	2,697.3	2,697.0	2,696.7	6.2	5.6	-4.22	491.5	-165.9	461.5	450.0	11.47	40.221	
2,755.0	2,752.0	2,752.9	2,752.6	6.3	5.7	-4.33	490.4	-166.0	454.7	443.0	11.68	38.917	
2,800.0	2,796.7	2,798.6	2,798.3	6.4	5.8	-4.39	489.4	-165.8	449.1	437.2	11.86	37.872	
2,850.0	2,846.4	2,850.0	2,849.7	6.5	5.9	-4.44	488.2	-165.4	442.6	430.6	12.06	36.707	
2,900.0	2,896.2	2,901.3	2,901.0	6.6	6.0	-4.45	487.0	-164.5	436.0	423.8	12.26	35.560	
2,945.0	2,940.9	2,946.0	2,945.7	6.7	6.1	-4.42	485.9	-163.5	430.0	417.5	12.45	34.538	
3,000.0	2,995.6	3,000.0	2,999.7	6.8	6.2	-4.33	484.6	-161.9	422.5	409.9	12.68	33.326	
3,040.0	3,035.4	3,037.5	3,037.2	6.9	6.3	-4.23	484.0	-160.6	417.3	404.4	12.85	32.472	
3,100.0	3,095.1	3,093.1	3,092.7	7.1	6.4	-4.02	483.6	-158.5	409.8	396.7	13.11	31.267	
3,135.0	3,129.9	3,126.5	3,126.1	7.1	6.5	-3.87	483.6	-157.1	405.7	392.5	13.26	30.590	
3,200.0	3,194.5	3,189.1	3,188.6	7.3	6.6	-3.56	483.9	-154.5	398.4	384.8	13.56	29.388	
3,230.0	3,224.4	3,218.0	3,217.4	7.4	6.7	-3.40	484.1	-153.2	395.1	381.4	13.69	28.852	
3,300.0	3,294.0	3,285.2	3,284.6	7.6	6.8	-3.05	484.9	-150.6	387.7	373.7	14.01	27.665	
3,325.0	3,318.8	3,309.5	3,308.9	7.6	6.8	-2.92	485.3	-149.7	385.2	371.0	14.13	27.256	
3,400.0	3,393.4	3,383.9	3,383.3	7.8	7.0	-2.54	486.5	-146.9	377.7	363.2	14.49	26.067	
3,420.0	3,413.3	3,403.6	3,402.9	7.9	7.0	-2.43	486.8	-146.2	375.7	361.1	14.58	25.758	
3,500.0	3,492.9	3,480.2	3,479.4	8.1	7.2	-2.09	488.2	-144.0	368.0	353.1	14.96	24.594	
3,515.0	3,507.8	3,494.5	3,493.8	8.1	7.2	-2.04	488.5	-143.7	366.7	351.6	15.04	24.386	
3,600.0	3,592.3	3,580.5	3,579.7	8.4	7.4	-1.79	490.2	-142.3	359.0	343.5	15.45	23.230	
3,610.0	3,602.3	3,590.6	3,589.9	8.4	7.4	-1.76	490.4	-142.1	358.0	342.5	15.50	23.096	
3,700.0	3,691.8	3,682.2	3,681.5	8.7	7.6	-1.55	491.5	-140.8	349.4	333.4	15.95	21.907	
3,705.0	3,696.8	3,687.3	3,686.5	8.7	7.6	-1.54	491.6	-140.8	348.9	332.9	15.97	21.842	
3,800.0	3,791.2	3,782.0	3,781.2	9.0	7.8	-1.36	492.4	-139.6	339.3	322.9	16.44	20.636	
3,895.0	3,885.7	3,877.2	3,876.3	9.2	8.0	-1.14	493.1	-138.2	329.8	312.9	16.92	19.486	
3,900.0	3,890.7	3,882.2	3,881.4	9.3	8.0	-1.13	493.2	-138.2	329.3	312.3	16.95	19.427	
3,990.0	3,980.2	3,973.2	3,972.4	9.5	8.2	-0.87	493.6	-136.6	319.9	302.5	17.41	18.375	
4,000.0	3,990.1	3,983.4	3,982.5	9.6	8.2	-0.83	493.7	-136.4	318.8	301.4	17.46	18.260	
4,085.0	4,074.7	4,068.9	4,068.0	9.8	8.4	-0.52	493.8	-134.5	309.6	291.7	17.90	17.294	
4,100.0	4,089.6	4,083.9	4,083.1	9.9	8.4	-0.45	493.8	-134.2	307.9	289.9	17.98	17.127	
4,180.0	4,169.2	4,164.2	4,163.4	10.1	8.6	-0.11	493.7	-132.2	298.9	280.5	18.40	16.250	
4,200.0	4,189.0	4,184.3	4,183.4	10.2	8.6	-0.01	493.6	-131.7	296.7	278.2	18.50	16.036	
4,275.0	4,263.6	4,260.1	4,259.2	10.4	8.8	0.33	493.2	-129.8	287.9	269.1	18.89	15.240	
4,300.0	4,288.5	4,285.3	4,284.4	10.5	8.8	0.44	493.0	-129.2	285.0	265.9	19.03	14.978	
4,370.0	4,358.1	4,354.9	4,354.0	10.7	9.0	0.73	492.2	-127.6	276.5	257.1	19.40	14.258	
4,400.0	4,388.0	4,384.6	4,383.7	10.8	9.1	0.87	491.9	-126.9	272.9	253.4	19.55	13.958	
4,465.0	4,452.6	4,449.2	4,448.3	11.0	9.2	1.17	491.3	-125.5	265.1	245.2	19.90	13.324	
4,500.0	4,487.4	4,484.1	4,483.1	11.1	9.3	1.34	490.9	-124.6	260.9	240.8	20.09	12.990	
4,560.0	4,547.1	4,543.6	4,542.6	11.3	9.4	1.64	490.2	-123.3	253.7	233.3	20.41	12.431	
4,600.0	4,586.9	4,583.3	4,582.3	11.4	9.5	1.85	489.8	-122.3	248.9	228.3	20.62	12.069	
4,655.0	4,641.6	4,637.8	4,636.8	11.6	9.6	2.16	489.2	-121.1	242.3	221.4	20.92	11.582	
4,700.0	4,686.3	4,682.4	4,681.3	11.8	9.7	2.42	488.8	-120.1	236.9	215.8	21.16	11.195	
4,750.0	4,736.0	4,732.0	4,731.0	11.9	9.8	2.73	488.3	-118.9	231.0	209.5	21.44	10.775	
4,800.0	4,785.8	4,781.8	4,780.7	12.1	9.9	3.05	487.8	-117.8	225.0	203.3	21.71	10.365	
4,820.6	4,806.2	4,802.2	4,801.1	12.2	9.9	3.19	487.5	-117.3	222.6	200.7	21.82	10.201	
4,845.0	4,830.5	4,826.4	4,825.3	12.2	10.0	3.35	487.3	-116.7	219.7	197.7	21.95	10.009	
4,900.0	4,885.3	4,881.0	4,879.9	12.4	10.1	3.72	486.7	-115.5	213.6	191.4	22.24	9.605	
4,940.0	4,925.1	4,920.7	4,919.6	12.5	10.2	4.00	486.3	-114.6	209.6	187.1	22.46	9.331	

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: Reference		100-GYD_GC+WIR+DPIPE, 8399-MWD						Rule Assigned:					Offset Well Error: 0.0 usft	
Offset		Semi Major Axis		Offset		Highside		Offset Wellbore Centre		Distance		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)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,984.9	4,980.4	4,979.3	12.7	10.3	4.44	485.7	-113.2	204.0	181.2	22.79	8.954		
5,035.0	5,019.8	5,014.4	5,013.3	12.8	10.4	4.70	485.4	-112.4	201.1	178.1	22.98	8.752		
5,100.0	5,084.7	5,075.6	5,074.4	13.1	10.5	4.99	485.5	-111.7	197.1	173.8	23.34	8.445		
5,130.0	5,114.7	5,104.0	5,102.9	13.2	10.6	5.04	485.9	-111.8	195.9	172.4	23.50	8.336		
5,200.0	5,184.6	5,172.4	5,171.2	13.4	10.7	5.02	487.2	-112.3	194.3	170.4	23.88	8.137		
5,225.0	5,209.6	5,196.8	5,195.6	13.5	10.8	4.98	487.9	-112.7	194.1	170.1	24.01	8.082		
5,252.8	5,237.3	5,224.4	5,223.2	13.6	10.8	4.91	488.6	-113.1	194.0	169.8	24.16	8.030		
5,300.0	5,284.6	5,271.5	5,270.2	13.7	10.9	4.78	489.9	-113.9	194.2	169.8	24.41	7.956		
5,320.0	5,304.6	5,291.4	5,290.2	13.8	11.0	4.72	490.4	-114.2	194.4	169.9	24.51	7.931		
5,400.0	5,384.6	5,371.5	5,370.2	14.0	11.1	4.45	492.6	-115.6	196.0	171.1	24.94	7.860		
5,415.0	5,399.6	5,386.5	5,385.3	14.1	11.1	4.39	493.0	-115.9	196.4	171.4	25.01	7.852		
5,420.4	5,405.0	5,392.0	5,390.7	14.1	11.2	-10.56	493.2	-116.0	196.6	171.5	25.04	7.850		
5,500.0	5,484.6	5,471.4	5,470.1	14.4	11.3	-10.83	495.3	-117.4	198.9	173.5	25.45	7.816		
5,510.0	5,494.6	5,481.4	5,480.0	14.4	11.3	-10.87	495.6	-117.5	199.2	173.7	25.50	7.812		
5,600.0	5,584.6	5,571.2	5,569.8	14.7	11.5	-11.19	498.0	-119.2	202.0	176.0	25.97	7.777		
5,605.0	5,589.6	5,576.2	5,574.8	14.7	11.5	-11.21	498.2	-119.3	202.1	176.1	26.00	7.775		
5,700.0	5,684.6	5,671.3	5,669.8	15.0	11.7	-11.55	500.8	-121.1	205.0	178.5	26.50	7.739		
5,795.0	5,779.6	5,766.3	5,764.8	15.3	11.9	-11.84	503.4	-122.7	207.9	180.9	27.00	7.702		
5,800.0	5,784.6	5,771.3	5,769.8	15.3	12.0	-11.86	503.5	-122.7	208.1	181.0	27.02	7.700		
5,890.0	5,874.6	5,861.4	5,859.9	15.6	12.1	-12.10	506.0	-124.2	210.7	183.2	27.50	7.663		
5,900.0	5,884.6	5,871.4	5,869.9	15.7	12.2	-12.12	506.2	-124.3	211.0	183.5	27.55	7.659		
5,985.0	5,969.6	5,956.7	5,955.2	15.9	12.3	-12.30	508.5	-125.5	213.4	185.4	28.00	7.622		
6,000.0	5,984.6	5,971.8	5,970.2	16.0	12.4	-12.33	508.8	-125.7	213.9	185.8	28.08	7.615		
6,080.0	6,064.6	6,054.9	6,053.3	16.3	12.5	-12.49	510.5	-126.6	215.6	187.1	28.51	7.563		
6,100.0	6,084.6	6,076.0	6,074.4	16.3	12.6	-12.52	510.7	-126.8	215.8	187.2	28.62	7.543		
6,175.0	6,159.6	6,152.5	6,150.9	16.6	12.8	-12.62	510.8	-127.2	216.0	187.0	29.02	7.444		
6,200.0	6,184.6	6,177.6	6,176.0	16.7	12.8	-12.65	510.8	-127.3	216.0	186.9	29.15	7.410		
6,255.9	6,240.5	6,233.6	6,232.0	16.8	12.9	-12.71	510.7	-127.5	216.0	186.6	29.45	7.334		
6,270.0	6,254.6	6,247.6	6,246.0	16.9	13.0	-12.73	510.7	-127.6	216.0	186.5	29.53	7.316		
6,300.0	6,284.6	6,277.6	6,276.0	17.0	13.0	-12.76	510.7	-127.7	216.0	186.3	29.69	7.276		
6,365.0	6,349.6	6,342.7	6,341.1	17.2	13.2	-12.84	510.6	-128.0	216.0	186.0	30.04	7.192		
6,400.0	6,384.6	6,377.8	6,376.2	17.3	13.2	-12.89	510.6	-128.2	216.0	185.8	30.23	7.147		
6,460.0	6,444.6	6,438.0	6,436.4	17.5	13.4	-12.98	510.4	-128.5	215.9	185.4	30.55	7.069		
6,500.0	6,484.6	6,478.1	6,476.5	17.7	13.4	-13.05	510.3	-128.7	215.9	185.1	30.76	7.017		
6,555.0	6,539.6	6,533.2	6,531.6	17.9	13.6	-13.13	510.1	-129.0	215.8	184.7	31.06	6.946		
6,600.0	6,584.6	6,578.3	6,576.7	18.0	13.6	-13.21	509.9	-129.3	215.6	184.3	31.30	6.888		
6,650.0	6,634.6	6,628.3	6,626.7	18.2	13.8	-13.29	509.7	-129.5	215.5	183.9	31.57	6.824		
6,700.0	6,684.6	6,678.2	6,676.6	18.3	13.9	-13.37	509.5	-129.8	215.3	183.5	31.84	6.762		
6,745.0	6,729.6	6,723.5	6,721.9	18.5	14.0	-13.45	509.3	-130.1	215.2	183.1	32.09	6.707		
6,800.0	6,784.6	6,779.4	6,777.8	18.7	14.1	-13.55	508.9	-130.4	214.9	182.5	32.38	6.636		
6,840.0	6,824.6	6,819.9	6,818.2	18.8	14.2	-13.63	508.4	-130.5	214.5	181.9	32.60	6.580		
6,900.0	6,884.6	6,880.1	6,878.5	19.0	14.3	-13.76	507.7	-130.9	213.8	180.9	32.92	6.496		
6,935.0	6,919.6	6,916.0	6,914.3	19.1	14.4	-13.85	507.2	-131.1	213.4	180.3	33.11	6.446		
7,000.0	6,984.6	6,984.2	6,982.5	19.4	14.5	-14.17	505.4	-131.9	211.9	178.5	33.44	6.336		
7,030.0	7,014.6	7,014.9	7,013.3	19.5	14.6	-14.39	504.2	-132.4	210.9	177.3	33.60	6.277		
7,100.0	7,084.6	7,085.0	7,083.3	19.7	14.7	-14.95	501.3	-133.8	208.5	174.5	33.97	6.138		
7,125.0	7,109.6	7,109.9	7,108.2	19.8	14.8	-15.16	500.3	-134.3	207.6	173.5	34.10	6.089		
7,200.0	7,184.6	7,184.3	7,182.4	20.1	14.9	-15.78	497.4	-135.8	205.2	170.7	34.51	5.947		
7,220.0	7,204.6	7,204.2	7,202.3	20.1	15.0	-15.94	496.6	-136.2	204.6	170.0	34.61	5.910		
7,300.0	7,284.6	7,284.3	7,282.4	20.4	15.1	-16.63	493.6	-137.8	202.1	167.1	35.04	5.768		
7,315.0	7,299.6	7,299.4	7,297.4	20.5	15.2	-16.77	493.0	-138.1	201.6	166.5	35.12	5.742		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)													
7,400.0	7,384.6	7,383.8	7,381.8	20.7	15.3	-17.54	489.7	-140.0	199.1	163.5	35.57	5.596		
7,410.0	7,394.6	7,393.7	7,391.7	20.8	15.4	-17.63	489.4	-140.2	198.8	163.2	35.63	5.580		
7,500.0	7,484.6	7,485.4	7,483.2	21.1	15.6	-18.47	485.7	-142.0	195.9	159.8	36.10	5.428		
7,505.0	7,489.6	7,490.5	7,488.3	21.1	15.6	-18.52	485.5	-142.1	195.7	159.6	36.12	5.419		
7,600.0	7,584.6	7,585.9	7,583.6	21.4	15.8	-19.45	481.0	-143.9	192.1	155.4	36.62	5.244		
7,695.0	7,679.6	7,680.6	7,678.2	21.8	16.0	-20.39	476.4	-145.6	188.4	151.2	37.13	5.073		
7,700.0	7,684.6	7,685.5	7,683.1	21.8	16.0	-20.44	476.2	-145.7	188.2	151.0	37.16	5.064		
7,790.0	7,774.6	7,775.0	7,772.5	22.1	16.2	-21.36	472.1	-147.3	184.9	147.3	37.64	4.913		
7,800.0	7,784.6	7,785.0	7,782.5	22.1	16.2	-21.46	471.7	-147.5	184.6	146.9	37.69	4.896		
7,885.0	7,869.6	7,869.7	7,867.1	22.4	16.4	-22.29	468.0	-148.9	181.7	143.5	38.15	4.762		
7,900.0	7,884.6	7,884.7	7,882.1	22.5	16.4	-22.44	467.4	-149.1	181.2	143.0	38.23	4.739		
7,980.0	7,964.6	7,964.4	7,961.7	22.7	16.6	-23.20	464.1	-150.3	178.6	139.9	38.66	4.620		
8,000.0	7,984.6	7,984.3	7,981.6	22.8	16.6	-23.39	463.3	-150.6	178.0	139.2	38.77	4.591		
8,075.0	8,059.6	8,059.9	8,057.1	23.1	16.8	-24.13	460.1	-151.7	175.5	136.4	39.16	4.482		
8,100.0	8,084.6	8,085.1	8,082.3	23.2	16.8	-24.38	459.0	-152.1	174.7	135.4	39.29	4.445		
8,170.0	8,154.6	8,155.5	8,152.6	23.4	17.0	-25.13	455.7	-153.0	172.1	132.4	39.67	4.338		
8,200.0	8,184.6	8,185.6	8,182.6	23.5	17.0	-25.46	454.2	-153.4	170.9	131.1	39.83	4.292		
8,265.0	8,249.6	8,250.5	8,247.5	23.7	17.2	-26.17	451.0	-154.2	168.4	128.2	40.17	4.192		
8,300.0	8,284.6	8,285.5	8,282.4	23.9	17.2	-26.57	449.3	-154.7	167.1	126.7	40.36	4.140		
8,360.0	8,344.6	8,345.7	8,342.5	24.1	17.4	-27.27	446.4	-155.4	164.8	124.1	40.67	4.051		
8,400.0	8,384.6	8,386.0	8,382.8	24.2	17.4	-27.74	444.3	-155.9	163.2	122.3	40.84	3.995		
8,455.0	8,439.6	8,440.6	8,437.3	24.4	17.4	-28.38	441.5	-156.4	160.9	119.9	41.04	3.921		
8,500.0	8,484.6	8,485.0	8,481.7	24.6	17.4	-28.84	439.4	-156.8	159.3	118.1	41.20	3.866		
8,550.0	8,534.6	8,534.8	8,531.4	24.7	17.5	-29.31	437.3	-157.1	157.5	116.2	41.37	3.808		
8,600.0	8,584.6	8,584.8	8,581.3	24.9	17.5	-29.73	435.2	-157.2	155.8	114.3	41.54	3.751		
8,645.0	8,629.6	8,630.0	8,626.5	25.1	17.5	-30.11	433.4	-157.4	154.3	112.6	41.70	3.700		
8,700.0	8,684.6	8,686.7	8,683.2	25.3	17.5	-30.81	430.4	-157.8	152.0	110.1	41.87	3.630		
8,740.0	8,724.6	8,728.0	8,724.3	25.4	17.6	-31.58	427.6	-158.4	150.0	108.0	42.00	3.571		
8,800.0	8,784.6	8,800.8	8,796.4	25.6	18.4	-34.48	417.5	-160.7	144.0	101.7	42.30	3.404		
8,835.0	8,819.6	8,840.6	8,835.0	25.7	19.1	-37.39	408.3	-162.8	138.4	95.9	42.46	3.260		
8,900.0	8,884.6	8,908.6	8,899.4	26.0	20.7	-45.37	387.3	-168.5	126.5	83.8	42.73	2.961		
8,930.0	8,914.6	8,939.0	8,927.4	26.1	21.3	-50.43	375.9	-171.9	121.1	78.4	42.69	2.836		
9,000.0	8,984.6	9,006.4	8,987.4	26.3	22.4	-65.04	346.5	-179.9	110.8	68.0	42.74	2.592		
9,025.0	9,009.6	9,028.5	9,006.4	26.4	22.7	-70.89	335.6	-182.7	108.8	65.9	42.98	2.532		
9,043.8	9,028.4	9,044.4	9,019.9	26.5	22.9	-75.39	327.3	-184.8	108.4	65.1	43.26	2.505 CC, ES, SF		
9,100.0	9,084.6	9,088.8	9,056.2	26.7	23.5	-88.70	302.5	-191.4	113.2	68.6	44.52	2.542		
9,120.0	9,104.6	9,106.0	9,069.7	26.7	23.8	-93.89	292.3	-194.1	117.4	72.2	45.16	2.599		
9,200.0	9,184.6	9,152.5	9,104.2	27.0	23.9	-107.02	262.4	-202.7	147.1	101.3	45.76	3.214		
9,215.0	9,199.6	9,160.7	9,110.0	27.1	23.9	-109.13	256.8	-204.5	154.7	109.0	45.72	3.383		
9,300.0	9,284.6	9,203.0	9,138.3	27.4	23.9	-118.60	226.9	-214.1	205.7	160.7	45.01	4.570		
9,310.0	9,294.6	9,210.8	9,143.3	27.4	23.9	-120.10	221.2	-216.0	212.3	167.2	45.13	4.705		
9,400.0	9,384.6	9,252.7	9,168.4	27.7	24.0	-127.25	189.2	-225.7	276.8	232.4	44.44	6.230		
9,405.0	9,389.6	9,255.0	9,169.7	27.7	24.0	-127.62	187.3	-226.2	280.6	236.2	44.41	6.318		
9,500.0	9,484.6	9,297.0	9,192.4	28.1	24.0	-133.70	152.9	-234.0	354.7	310.7	43.93	8.074		
9,595.0	9,579.6	9,320.3	9,203.8	28.4	24.1	-136.67	132.9	-237.7	433.2	390.2	42.99	10.078		
9,600.0	9,584.6	9,328.0	9,207.3	28.4	24.1	-137.56	126.2	-238.9	437.6	394.4	43.20	10.130		
9,690.0	9,674.6	9,340.4	9,212.7	28.7	24.1	-138.95	115.2	-241.0	515.3	473.0	42.34	12.172		
9,700.0	9,684.6	9,342.2	9,213.5	28.8	24.1	-139.14	113.6	-241.3	524.1	481.9	42.28	12.397		
9,785.0	9,769.6	9,360.0	9,220.5	29.1	24.1	-140.97	97.5	-244.2	600.1	558.1	41.97	14.300		
9,800.0	9,784.6	9,360.0	9,220.5	29.1	24.1	-140.97	97.5	-244.2	613.6	571.8	41.84	14.666		
9,880.0	9,864.6	9,360.0	9,220.5	29.4	24.1	-140.97	97.5	-244.2	686.9	645.6	41.31	16.628		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-GYD_GC+WIR+DPIPE, 8399-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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 Factor			
9,900.0	9,884.6	9,371.6	9,224.7	29.5	24.1	-142.07	86.8	-246.1	705.2	663.7	41.48	16.999		
9,975.0	9,959.6	9,380.0	9,227.5	29.7	24.1	-142.82	79.1	-247.5	774.8	733.5	41.33	18.747		
10,000.0	9,984.6	9,391.0	9,230.9	29.8	24.1	-143.76	68.8	-249.5	798.4	756.9	41.47	19.250		
10,070.0	10,054.6	9,391.0	9,230.9	30.1	24.1	-143.76	68.8	-249.5	864.1	822.8	41.26	20.943		
10,100.0	10,084.6	9,391.0	9,230.9	30.2	24.1	-143.76	68.8	-249.5	892.4	851.2	41.19	21.667		
10,165.0	10,149.6	9,391.0	9,230.9	30.4	24.1	-143.76	68.8	-249.5	954.2	913.1	41.08	23.227		
10,200.0	10,184.6	9,391.0	9,230.9	30.5	24.1	-143.76	68.8	-249.5	987.6	946.6	41.04	24.063		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Warning								
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		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	-12.77	499.2	-113.1	511.9					
95.0	95.0	83.2	83.2	3.0	3.0	-12.77	499.5	-113.2	512.2	506.2	6.00	85.354		
100.0	100.0	88.0	88.0	3.0	3.0	-12.77	499.5	-113.2	512.2	506.2	6.00	85.359		
190.0	190.0	177.7	177.7	3.0	3.0	-12.79	500.2	-113.5	512.9	506.9	6.01	85.372		
200.0	200.0	187.9	187.8	3.0	3.0	-12.79	500.2	-113.5	513.0	507.0	6.01	85.366		
285.0	285.0	272.8	272.8	3.0	3.0	-12.80	500.8	-113.8	513.6	507.6	6.03	85.248		
300.0	300.0	287.7	287.7	3.0	3.0	-12.81	501.0	-113.9	513.8	507.7	6.03	85.217		
380.0	380.0	367.8	367.8	3.0	3.0	-12.84	501.5	-114.3	514.4	508.4	6.05	84.994		
400.0	400.0	388.2	388.2	3.0	3.0	-12.84	501.7	-114.3	514.6	508.5	6.06	84.920		
475.0	475.0	469.1	469.1	3.0	3.0	-12.90	501.8	-114.9	514.8	508.7	6.08	84.607		
500.0	500.0	495.6	495.5	3.1	3.0	-12.94	501.6	-115.2	514.6	508.5	6.09	84.497		
570.0	570.0	566.3	566.3	3.1	3.0	-13.05	500.8	-116.1	514.1	507.9	6.11	84.143		
600.0	600.0	596.2	596.2	3.1	3.1	-13.10	500.4	-116.4	513.8	507.7	6.12	83.976		
665.0	665.0	660.0	660.0	3.1	3.1	-13.15	499.8	-116.8	513.3	507.2	6.14	83.612		
700.0	700.0	694.7	694.7	3.1	3.1	-13.13	499.7	-116.5	513.1	507.0	6.15	83.407		
760.0	760.0	754.1	754.0	3.1	3.1	-13.06	499.5	-115.9	512.8	506.6	6.18	83.015		
800.0	800.0	794.8	794.7	3.2	3.1	-13.01	499.4	-115.4	512.6	506.4	6.20	82.733		
855.0	855.0	850.7	850.6	3.2	3.1	-12.92	499.3	-114.5	512.2	506.0	6.22	82.309		
900.0	900.0	895.7	895.6	3.2	3.1	-12.85	499.1	-113.8	511.9	505.7	6.25	81.942		
950.0	950.0	946.5	946.5	3.2	3.1	-12.76	498.9	-113.0	511.5	505.2	6.28	81.504		
1,000.0	1,000.0	996.9	996.8	3.2	3.1	-12.66	498.6	-112.0	511.0	504.7	6.31	81.042		
1,045.0	1,045.0	1,042.1	1,042.1	3.3	3.1	-12.57	498.3	-111.1	510.6	504.3	6.33	80.607		
1,100.0	1,100.0	1,096.2	1,096.1	3.3	3.1	-12.46	498.1	-110.1	510.1	503.8	6.37	80.067		
1,140.0	1,140.0	1,137.7	1,137.6	3.3	3.1	-12.38	497.8	-109.2	509.7	503.3	6.40	79.646		
1,200.0	1,200.0	1,197.3	1,197.1	3.4	3.1	-12.24	497.5	-107.9	509.1	502.6	6.44	79.002		
1,235.0	1,235.0	1,233.1	1,233.0	3.4	3.1	-12.15	497.2	-107.1	508.7	502.2	6.47	78.612		
1,300.0	1,300.0	1,297.0	1,296.8	3.4	3.1	-12.00	496.8	-105.6	507.9	501.4	6.52	77.876		
1,330.0	1,330.0	1,325.7	1,325.5	3.4	3.1	-11.92	496.7	-104.9	507.7	501.1	6.55	77.544		
1,400.0	1,400.0	1,396.1	1,395.9	3.5	3.2	-11.73	496.5	-103.1	507.1	500.5	6.61	76.754		
1,425.0	1,425.0	1,421.1	1,421.0	3.5	3.2	-11.67	496.4	-102.5	506.9	500.3	6.63	76.469		
1,500.0	1,500.0	1,495.7	1,495.5	3.5	3.2	-11.47	496.2	-100.7	506.3	499.6	6.70	75.610		
1,520.0	1,520.0	1,515.3	1,515.1	3.6	3.2	-11.42	496.1	-100.3	506.2	499.5	6.72	75.381		
1,570.3	1,570.3	1,562.4	1,562.1	3.6	3.2	-11.32	496.1	-99.3	506.0	499.2	6.76	74.826		
1,600.0	1,600.0	1,588.2	1,587.9	3.6	3.2	-11.28	496.3	-99.0	506.1	499.3	6.79	74.549		
1,615.0	1,615.0	1,601.6	1,601.4	3.6	3.2	-11.26	496.4	-98.9	506.2	499.4	6.80	74.420		
1,700.0	1,700.0	1,685.4	1,685.1	3.7	3.3	-11.19	497.6	-98.4	507.3	500.4	6.88	73.703		
1,710.0	1,710.0	1,695.1	1,694.9	3.7	3.3	-11.18	497.8	-98.4	507.4	500.5	6.89	73.617		
1,800.0	1,800.0	1,785.1	1,784.9	3.8	3.3	-11.07	499.1	-97.7	508.7	501.7	6.99	72.819		
1,805.0	1,805.0	1,790.2	1,790.0	3.8	3.3	-11.07	499.2	-97.6	508.7	501.7	6.99	72.773		
1,900.0	1,900.0	1,885.3	1,885.0	3.9	3.4	-10.95	500.7	-96.9	510.0	502.9	7.09	71.888		
1,995.0	1,995.0	1,980.7	1,980.4	3.9	3.4	-10.81	502.2	-95.9	511.3	504.1	7.20	70.973		
2,000.0	2,000.0	1,985.4	1,985.1	3.9	3.4	-10.81	502.2	-95.9	511.3	504.1	7.21	70.925		
2,090.0	2,090.0	2,074.5	2,074.2	4.1	3.5	4.26	503.7	-95.0	511.2	503.8	7.44	68.727		
2,100.0	2,100.0	2,084.5	2,084.2	4.2	3.5	4.28	503.9	-94.9	511.1	503.6	7.47	68.460		
2,185.0	2,184.9	2,170.4	2,170.1	4.7	3.5	4.45	505.2	-94.0	508.0	499.9	8.05	63.075		
2,200.0	2,199.8	2,185.4	2,185.1	4.8	3.5	4.48	505.5	-93.9	507.2	499.0	8.16	62.125		
2,280.0	2,279.6	2,270.9	2,270.6	5.3	3.6	4.68	506.4	-92.9	501.2	492.6	8.68	57.765		
2,299.9	2,299.4	2,293.3	2,293.0	5.4	3.6	4.72	506.4	-92.8	499.2	490.4	8.81	56.687		
2,375.0	2,374.0	2,374.7	2,374.4	5.7	3.6	4.77	505.4	-92.9	490.5	481.5	9.03	54.312		
2,400.0	2,398.9	2,400.3	2,399.9	5.7	3.6	4.77	504.9	-93.0	487.5	478.4	9.11	53.538		
2,470.0	2,468.5	2,469.2	2,468.8	5.8	3.6	4.76	503.5	-93.5	478.9	469.6	9.21	51.979		

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 + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-MWD+IFR1+MS													Offset Well Error:	3.0 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	2,498.4	2,499.1	2,498.7	5.9	3.6	4.75	502.9	-93.7	475.2	465.9	9.26	51.326		
2,565.0	2,563.0	2,564.6	2,564.2	6.0	3.6	4.72	501.6	-94.2	467.2	457.9	9.37	49.849		
2,600.0	2,597.8	2,599.7	2,599.3	6.0	3.6	4.71	500.8	-94.5	462.9	453.4	9.43	49.060		
2,660.0	2,657.5	2,659.3	2,658.9	6.1	3.6	4.66	499.5	-95.2	455.4	445.8	9.55	47.670		
2,700.0	2,697.3	2,702.3	2,701.9	6.2	3.6	4.63	498.3	-95.6	450.2	440.6	9.63	46.744		
2,755.0	2,752.0	2,760.7	2,760.3	6.3	3.7	4.58	496.2	-96.1	442.7	432.9	9.75	45.404		
2,800.0	2,796.7	2,805.5	2,805.0	6.4	3.7	4.53	494.4	-96.6	436.3	426.5	9.85	44.303		
2,850.0	2,846.4	2,855.0	2,854.5	6.5	3.7	4.49	492.5	-96.9	429.2	419.3	9.97	43.070		
2,900.0	2,896.2	2,905.5	2,904.9	6.6	3.7	4.45	490.4	-97.3	422.1	412.0	10.08	41.854		
2,945.0	2,940.9	2,949.5	2,948.9	6.7	3.7	4.41	488.6	-97.6	415.6	405.4	10.20	40.753		
3,000.0	2,995.6	3,004.0	3,003.3	6.8	3.7	4.36	486.3	-97.9	407.8	397.4	10.34	39.439		
3,040.0	3,035.4	3,044.5	3,043.7	6.9	3.8	4.35	484.6	-98.0	402.0	391.5	10.45	38.481		
3,100.0	3,095.1	3,103.2	3,102.4	7.1	3.8	4.33	482.2	-98.2	393.3	382.7	10.61	37.072		
3,135.0	3,129.9	3,137.0	3,136.2	7.1	3.8	4.33	480.9	-98.2	388.4	377.6	10.71	36.260		
3,200.0	3,194.5	3,200.0	3,199.2	7.3	3.8	4.33	478.6	-98.3	379.3	368.4	10.90	34.803		
3,230.0	3,224.4	3,229.8	3,228.9	7.4	3.8	4.34	477.6	-98.3	375.2	364.2	10.99	34.142		
3,300.0	3,294.0	3,298.9	3,298.0	7.6	3.9	4.37	475.3	-98.2	365.6	354.4	11.20	32.640		
3,325.0	3,318.8	3,323.4	3,322.5	7.6	3.9	4.39	474.5	-98.1	362.2	350.9	11.28	32.109		
3,400.0	3,393.4	3,397.5	3,396.6	7.8	3.9	4.44	472.0	-98.0	351.9	340.4	11.52	30.558		
3,420.0	3,413.3	3,417.1	3,416.2	7.9	3.9	4.45	471.4	-97.9	349.2	337.6	11.58	30.152		
3,500.0	3,492.9	3,495.5	3,494.5	8.1	4.0	4.50	469.0	-97.9	338.4	326.6	11.84	28.575		
3,515.0	3,507.8	3,510.7	3,509.7	8.1	4.0	4.51	468.5	-97.8	336.4	324.5	11.89	28.286		
3,600.0	3,592.3	3,595.3	3,594.3	8.4	4.1	4.58	465.9	-97.6	325.0	312.8	12.18	26.677		
3,610.0	3,602.3	3,605.3	3,604.3	8.4	4.1	4.59	465.6	-97.6	323.6	311.4	12.22	26.491		
3,700.0	3,691.8	3,695.0	3,694.0	8.7	4.1	4.65	462.7	-97.5	311.4	298.8	12.53	24.852		
3,705.0	3,696.8	3,700.0	3,698.9	8.7	4.1	4.65	462.5	-97.5	310.7	298.1	12.55	24.762		
3,800.0	3,791.2	3,795.0	3,793.8	9.0	4.2	4.78	459.2	-97.1	297.5	284.6	12.88	23.086		
3,895.0	3,885.7	3,889.5	3,888.3	9.2	4.3	4.95	455.7	-96.4	284.1	270.8	13.23	21.467		
3,900.0	3,890.7	3,894.4	3,893.2	9.3	4.3	4.96	455.6	-96.4	283.4	270.1	13.25	21.383		
3,990.0	3,980.2	3,983.9	3,982.6	9.5	4.3	5.20	452.2	-95.5	270.5	256.9	13.59	19.909		
4,000.0	3,990.1	3,993.8	3,992.5	9.6	4.3	5.24	451.8	-95.3	269.1	255.5	13.63	19.749		
4,085.0	4,074.7	4,077.5	4,076.2	9.8	4.4	5.55	448.7	-94.2	256.9	243.0	13.95	18.416		
4,100.0	4,089.6	4,092.4	4,091.0	9.9	4.4	5.62	448.2	-94.0	254.8	240.8	14.01	18.189		
4,180.0	4,169.2	4,172.6	4,171.1	10.1	4.5	5.98	445.1	-92.7	243.3	229.0	14.32	16.993		
4,200.0	4,189.0	4,192.8	4,191.3	10.2	4.5	6.08	444.3	-92.4	240.4	226.0	14.40	16.698		
4,275.0	4,263.6	4,267.1	4,265.6	10.4	4.6	6.48	441.1	-91.2	229.3	214.6	14.69	15.606		
4,300.0	4,288.5	4,291.4	4,289.9	10.5	4.6	6.63	440.1	-90.7	225.6	210.8	14.79	15.252		
4,370.0	4,358.1	4,359.1	4,357.5	10.7	4.6	7.08	437.6	-89.4	215.6	200.5	15.08	14.298		
4,400.0	4,388.0	4,388.2	4,386.6	10.8	4.7	7.32	436.7	-88.8	211.5	196.3	15.20	13.913		
4,465.0	4,452.6	4,452.0	4,450.3	11.0	4.7	7.87	434.9	-87.5	202.8	187.3	15.47	13.112		
4,500.0	4,487.4	4,486.7	4,485.0	11.1	4.8	8.20	434.0	-86.7	198.1	182.5	15.61	12.695		
4,560.0	4,547.1	4,545.8	4,544.0	11.3	4.8	8.80	432.5	-85.5	190.3	174.4	15.86	12.003		
4,600.0	4,586.9	4,584.7	4,582.9	11.4	4.9	9.20	431.6	-84.7	185.2	169.2	16.02	11.559		
4,655.0	4,641.6	4,639.1	4,637.3	11.6	4.9	9.83	430.4	-83.5	178.3	162.0	16.25	10.972		
4,700.0	4,686.3	4,683.8	4,682.0	11.8	5.0	10.39	429.5	-82.6	172.6	156.2	16.43	10.506		
4,750.0	4,736.0	4,733.4	4,731.6	11.9	5.0	11.06	428.5	-81.5	166.4	149.8	16.64	10.002		
4,800.0	4,785.8	4,782.8	4,781.0	12.1	5.0	11.82	427.5	-80.3	160.2	143.3	16.84	9.512		
4,820.6	4,806.2	4,803.3	4,801.4	12.2	5.1	12.15	427.1	-79.8	157.6	140.7	16.92	9.317		
4,845.0	4,830.5	4,827.6	4,825.7	12.2	5.1	12.55	426.6	-79.2	154.7	137.7	17.02	9.089		
4,900.0	4,885.3	4,882.2	4,880.3	12.4	5.1	13.47	425.4	-77.9	148.3	131.1	17.23	8.609		
4,940.0	4,925.1	4,921.9	4,919.9	12.5	5.2	14.14	424.6	-77.0	144.1	126.7	17.39	8.284		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #6H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: Reference		100-Standard Keeper 104, 8667-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		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 Factor			
5,000.0	4,984.9	4,981.6	4,979.6	12.7	5.2	15.20	423.4	-75.5	138.3	120.6	17.63	7.842		
5,035.0	5,019.8	5,016.3	5,014.4	12.8	5.3	15.85	422.6	-74.6	135.2	117.4	17.78	7.605		
5,100.0	5,084.7	5,080.9	5,078.9	13.1	5.3	17.01	421.3	-73.1	130.1	112.0	18.04	7.212		
5,130.0	5,114.7	5,110.9	5,108.9	13.2	5.4	17.54	420.7	-72.4	128.0	109.8	18.16	7.049		
5,200.0	5,184.6	5,180.7	5,178.7	13.4	5.4	18.77	419.4	-70.7	123.8	105.3	18.43	6.715		
5,225.0	5,209.6	5,205.8	5,203.7	13.5	5.5	19.21	418.9	-70.1	122.5	103.9	18.53	6.608		
5,300.0	5,284.6	5,281.3	5,279.2	13.7	5.5	20.43	417.0	-68.3	118.8	100.0	18.82	6.314		
5,320.0	5,304.6	5,301.6	5,299.4	13.8	5.6	20.74	416.5	-67.9	118.0	99.1	18.90	6.242		
5,400.0	5,384.6	5,381.7	5,379.5	14.0	5.6	21.87	414.1	-66.1	115.1	95.9	19.22	5.988		
5,415.0	5,399.6	5,396.6	5,394.4	14.1	5.7	22.05	413.7	-65.8	114.6	95.4	19.27	5.948		
5,420.4	5,405.0	5,402.0	5,399.8	14.1	5.7	7.19	413.5	-65.7	114.5	95.2	19.29	5.934		
5,500.0	5,484.6	5,481.5	5,479.3	14.4	5.7	8.12	411.3	-64.1	112.4	92.8	19.60	5.736		
5,510.0	5,494.6	5,491.6	5,489.4	14.4	5.8	8.23	411.0	-63.9	112.1	92.5	19.64	5.712		
5,600.0	5,584.6	5,581.6	5,579.3	14.7	5.9	9.30	408.3	-62.3	109.8	89.8	19.99	5.494		
5,605.0	5,589.6	5,586.5	5,584.3	14.7	5.9	9.36	408.2	-62.2	109.7	89.7	20.01	5.482		
5,700.0	5,684.6	5,681.3	5,678.9	15.0	6.0	10.53	405.4	-60.4	107.3	86.9	20.38	5.263		
5,795.0	5,779.6	5,776.5	5,774.1	15.3	6.1	11.72	402.7	-58.7	105.0	84.2	20.75	5.058		
5,800.0	5,784.6	5,781.5	5,779.1	15.3	6.1	11.78	402.6	-58.6	104.8	84.1	20.77	5.047		
5,890.0	5,874.6	5,871.3	5,868.8	15.6	6.2	12.99	399.9	-57.0	102.6	81.4	21.13	4.854		
5,900.0	5,884.6	5,881.3	5,878.8	15.7	6.2	13.13	399.6	-56.8	102.3	81.1	21.17	4.834		
5,985.0	5,969.6	5,966.5	5,964.0	15.9	6.3	14.27	397.1	-55.3	100.2	78.7	21.50	4.660		
6,000.0	5,984.6	5,981.5	5,979.0	16.0	6.3	14.48	396.6	-55.1	99.8	78.2	21.56	4.629		
6,080.0	6,064.6	6,061.5	6,058.9	16.3	6.4	15.57	394.1	-53.8	97.8	75.9	21.87	4.470		
6,100.0	6,084.6	6,081.5	6,078.9	16.3	6.4	15.83	393.5	-53.5	97.2	75.3	21.95	4.430		
6,175.0	6,159.6	6,156.7	6,154.1	16.6	6.5	16.70	391.1	-52.7	95.1	72.9	22.25	4.276		
6,200.0	6,184.6	6,181.9	6,179.3	16.7	6.5	17.00	390.2	-52.4	94.4	72.0	22.34	4.224		
6,270.0	6,254.6	6,252.0	6,249.3	16.9	6.6	17.78	387.7	-51.9	92.2	69.5	22.62	4.074		
6,300.0	6,284.6	6,281.9	6,279.2	17.0	6.6	18.10	386.7	-51.7	91.2	68.5	22.75	4.011		
6,365.0	6,349.6	6,347.1	6,344.4	17.2	6.7	18.87	384.3	-51.2	89.1	66.1	23.00	3.875		
6,400.0	6,384.6	6,382.1	6,379.4	17.3	6.7	19.28	383.0	-51.0	88.0	64.8	23.14	3.801		
6,460.0	6,444.6	6,442.3	6,439.4	17.5	6.8	20.03	380.6	-50.6	85.9	62.5	23.38	3.672		
6,500.0	6,484.6	6,482.3	6,479.4	17.7	6.8	20.55	379.0	-50.4	84.4	60.9	23.54	3.586		
6,555.0	6,539.6	6,537.4	6,534.5	17.9	6.9	21.26	376.7	-50.1	82.4	58.6	23.76	3.467		
6,600.0	6,584.6	6,582.3	6,579.4	18.0	6.9	21.87	374.8	-49.9	80.7	56.8	23.94	3.372		
6,650.0	6,634.6	6,632.3	6,629.3	18.2	7.0	22.58	372.7	-49.8	78.8	54.7	24.14	3.265		
6,700.0	6,684.6	6,682.0	6,678.9	18.3	7.0	23.27	370.7	-49.6	77.0	52.7	24.34	3.165		
6,745.0	6,729.6	6,726.8	6,723.7	18.5	7.1	23.84	369.1	-49.5	75.6	51.0	24.52	3.082		
6,800.0	6,784.6	6,781.6	6,778.5	18.7	7.1	24.46	367.2	-49.4	73.9	49.2	24.74	2.987		
6,840.0	6,824.6	6,821.5	6,818.4	18.8	7.2	24.92	365.9	-49.4	72.7	47.8	24.90	2.920		
6,900.0	6,884.6	6,881.6	6,878.5	19.0	7.2	25.66	364.0	-49.3	71.0	45.8	25.14	2.824		
6,935.0	6,919.6	6,916.6	6,913.4	19.1	7.3	26.09	362.8	-49.3	69.9	44.7	25.28	2.767		
7,000.0	6,984.6	6,980.9	6,977.7	19.4	7.4	27.35	360.6	-48.6	68.3	42.8	25.53	2.675		
7,030.0	7,014.6	7,010.8	7,007.6	19.5	7.4	28.20	359.7	-48.0	67.7	42.1	25.63	2.643		
7,100.0	7,084.6	7,080.8	7,077.5	19.7	7.5	30.24	357.5	-46.5	66.5	40.7	25.86	2.573		
7,125.0	7,109.6	7,105.9	7,102.6	19.8	7.5	30.96	356.7	-46.0	66.1	40.1	25.94	2.548		
7,200.0	7,184.6	7,181.1	7,177.7	20.1	7.6	33.04	354.1	-44.8	64.5	38.4	26.18	2.465		
7,220.0	7,204.6	7,201.0	7,197.7	20.1	7.6	33.60	353.4	-44.5	64.1	37.9	26.25	2.443		
7,300.0	7,284.6	7,281.0	7,277.5	20.4	7.7	35.79	350.7	-43.4	62.6	36.1	26.51	2.360		
7,315.0	7,299.6	7,295.9	7,292.5	20.5	7.7	36.22	350.2	-43.2	62.3	35.7	26.56	2.345		
7,400.0	7,384.6	7,381.0	7,377.5	20.7	7.8	38.72	347.4	-42.0	60.8	33.9	26.84	2.264		
7,410.0	7,394.6	7,391.0	7,387.5	20.8	7.8	39.01	347.1	-41.9	60.6	33.7	26.87	2.254		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-Standard Keeper 104, 8667-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		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 Factor			
7,500.0	7,484.6	7,480.8	7,477.2	21.1	7.9	41.82	344.0	-40.6	59.0	31.9	27.15	2.174		
7,505.0	7,489.6	7,485.8	7,482.2	21.1	7.9	41.97	343.8	-40.6	59.0	31.8	27.17	2.170		
7,600.0	7,584.6	7,580.6	7,576.9	21.4	8.0	44.92	340.9	-39.2	57.8	30.3	27.47	2.105		
7,695.0	7,679.6	7,675.4	7,671.7	21.8	8.2	48.14	338.1	-37.5	57.0	29.3	27.77	2.054		
7,700.0	7,684.6	7,680.4	7,676.7	21.8	8.2	48.31	337.9	-37.4	57.0	29.2	27.78	2.052		
7,790.0	7,774.6	7,770.2	7,766.5	22.1	8.3	51.52	335.2	-35.7	56.6	28.5	28.06	2.016		
7,800.0	7,784.6	7,780.2	7,776.5	22.1	8.3	51.88	334.9	-35.5	56.6	28.5	28.10	2.013		
7,855.8	7,840.4	7,836.0	7,832.2	22.3	8.4	53.88	333.3	-34.4	56.4	28.2	28.28	1.996 Advise and Monitor, CC		
7,885.0	7,869.6	7,865.0	7,861.2	22.4	8.4	54.90	332.5	-33.8	56.5	28.1	28.37	1.991 Advise and Monitor		
7,900.0	7,884.6	7,880.0	7,876.2	22.5	8.4	55.42	332.1	-33.5	56.5	28.1	28.42	1.988 Advise and Monitor		
7,980.0	7,964.6	7,960.0	7,956.1	22.7	8.5	58.22	329.9	-31.7	56.8	28.1	28.69	1.978 Advise and Monitor, ES		
8,000.0	7,984.6	7,980.0	7,976.1	22.8	8.5	58.93	329.3	-31.3	56.8	28.1	28.76	1.976 Advise and Monitor		
8,075.0	8,059.6	8,054.8	8,050.9	23.1	8.6	61.55	327.3	-29.6	57.3	28.3	29.03	1.975 Advise and Monitor, SF		
8,100.0	8,084.6	8,079.8	8,075.9	23.2	8.6	62.39	326.7	-29.0	57.5	28.4	29.12	1.975 Advise and Monitor		
8,170.0	8,154.6	8,149.7	8,145.7	23.4	8.7	64.73	324.8	-27.4	58.2	28.8	29.39	1.978 Advise and Monitor		
8,200.0	8,184.6	8,179.7	8,175.7	23.5	8.8	65.83	323.9	-26.7	58.5	29.0	29.51	1.982 Advise and Monitor		
8,265.0	8,249.6	8,244.6	8,240.6	23.7	8.8	68.22	322.0	-25.0	59.2	29.5	29.77	1.990 Advise and Monitor		
8,300.0	8,284.6	8,279.7	8,275.6	23.9	8.9	69.49	320.9	-24.1	59.7	29.8	29.91	1.995 Advise and Monitor		
8,360.0	8,344.6	8,339.7	8,335.6	24.1	9.0	71.72	319.0	-22.6	60.5	30.3	30.17	2.005		
8,400.0	8,384.6	8,379.7	8,375.6	24.2	9.0	73.10	317.7	-21.7	61.0	30.6	30.34	2.010		
8,455.0	8,439.6	8,435.0	8,430.8	24.4	9.1	75.04	315.9	-20.5	61.6	31.0	30.58	2.013		
8,500.0	8,484.6	8,479.9	8,475.6	24.6	9.1	76.51	314.5	-19.7	62.0	31.3	30.79	2.015		
8,550.0	8,534.6	8,530.0	8,525.7	24.7	9.2	78.14	312.9	-18.8	62.5	31.5	31.02	2.016		
8,600.0	8,584.6	8,580.2	8,575.9	24.9	9.2	79.72	311.2	-18.0	63.0	31.7	31.25	2.015		
8,645.0	8,629.6	8,625.4	8,621.1	25.1	9.3	81.04	309.8	-17.5	63.2	31.8	31.46	2.010		
8,700.0	8,684.6	8,680.4	8,676.1	25.3	9.3	82.85	307.9	-17.1	63.4	31.7	31.70	1.999 Advise and Monitor		
8,740.0	8,724.6	8,719.7	8,715.2	25.4	9.4	85.51	305.0	-16.4	63.8	31.9	31.91	2.000 Advise and Monitor		
8,800.0	8,784.6	8,779.7	8,771.6	25.6	9.5	92.60	297.0	-14.1	66.1	33.8	32.33	2.046		
8,835.0	8,819.6	8,808.4	8,802.5	25.7	9.5	98.12	290.2	-11.6	69.6	37.0	32.66	2.132		
8,900.0	8,884.6	8,864.1	8,855.3	26.0	9.8	109.37	273.7	-5.3	81.9	48.5	33.39	2.454		
8,930.0	8,914.6	8,888.6	8,877.7	26.1	9.8	114.31	264.6	-1.7	90.5	56.8	33.71	2.686		
9,000.0	8,984.6	8,942.8	8,925.6	26.3	10.1	124.04	241.1	7.3	116.9	82.5	34.41	3.397		
9,025.0	9,009.6	8,960.5	8,940.7	26.4	10.3	126.76	232.4	10.5	128.2	93.6	34.61	3.705		
9,100.0	9,084.6	9,009.2	8,980.5	26.7	10.6	133.13	206.0	20.3	167.6	132.5	35.10	4.774		
9,120.0	9,104.6	9,021.2	8,989.8	26.7	10.6	134.45	199.0	22.9	179.3	144.1	35.20	5.092		
9,200.0	9,184.6	9,065.6	9,023.1	27.0	10.9	138.55	171.6	33.4	229.8	194.4	35.49	6.477		
9,215.0	9,199.6	9,074.0	9,029.2	27.1	10.9	139.20	166.1	35.5	239.9	204.4	35.56	6.747		
9,300.0	9,284.6	9,113.8	9,056.8	27.4	11.1	141.50	140.0	47.2	300.0	264.2	35.73	8.396		
9,310.0	9,294.6	9,123.0	9,063.0	27.4	11.1	141.87	133.9	50.4	307.4	271.5	35.83	8.578		
9,400.0	9,384.6	9,153.7	9,082.7	27.7	11.2	142.84	113.2	61.6	375.7	339.8	35.91	10.464		
9,405.0	9,389.6	9,155.5	9,083.8	27.7	11.2	142.89	112.0	62.3	379.7	343.7	35.92	10.570		
9,500.0	9,484.6	9,186.8	9,102.4	28.1	11.3	143.59	90.1	74.8	455.9	419.8	36.12	12.623		
9,595.0	9,579.6	9,218.0	9,119.3	28.4	11.5	144.23	67.3	87.6	535.3	498.9	36.42	14.699		
9,600.0	9,584.6	9,218.0	9,119.3	28.4	11.5	144.23	67.3	87.6	539.5	503.1	36.41	14.818		
9,690.0	9,674.6	9,236.4	9,128.6	28.7	11.5	144.60	53.4	95.2	617.0	580.5	36.57	16.871		
9,700.0	9,684.6	9,238.6	9,129.7	28.8	11.5	144.65	51.7	96.2	625.8	589.2	36.60	17.098		
9,785.0	9,769.6	9,263.0	9,141.0	29.1	11.6	145.14	32.6	106.3	700.8	663.9	36.90	18.992		
9,800.0	9,784.6	9,263.0	9,141.0	29.1	11.6	145.14	32.6	106.3	714.1	677.2	36.90	19.353		
9,880.0	9,864.6	9,263.0	9,141.0	29.4	11.6	145.14	32.6	106.3	786.1	749.2	36.93	21.286		
9,900.0	9,884.6	9,279.2	9,147.9	29.5	11.6	145.47	19.6	113.0	804.0	766.9	37.13	21.657		
9,975.0	9,959.6	9,292.7	9,153.5	29.7	11.7	145.73	8.6	118.5	872.3	835.0	37.34	23.363		

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 #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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

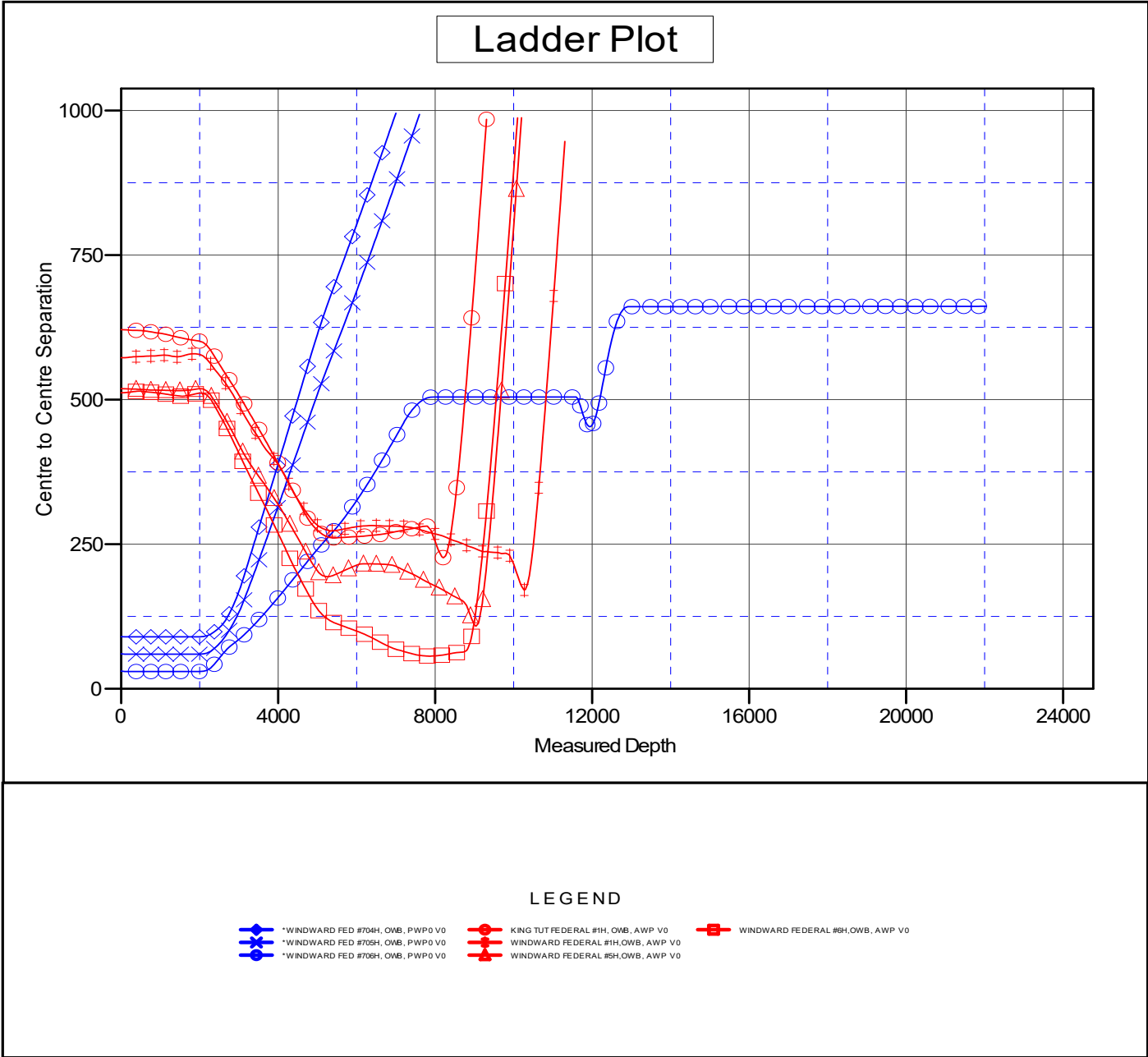
Offset Design:	WINDWARD FEDERAL PROJECT (BULLDOG 2432) - WINDWARD FEDERAL #6H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-Standard Keeper 104, 8667-MWD+HFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured	Vertical	Measured	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	9,984.6	9,296.9	9,155.2	29.8	11.7	145.82	5.1	120.3	895.2	857.8	37.41	23.931	
10,070.0	10,054.6	9,312.0	9,161.0	30.1	11.7	146.11	-7.3	126.5	959.7	922.0	37.65	25.490	
10,100.0	10,084.6	9,312.0	9,161.0	30.2	11.7	146.11	-7.3	126.5	987.4	949.7	37.69	26.197	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 + 3541.5ft @ 3573.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FEDERAL #708H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



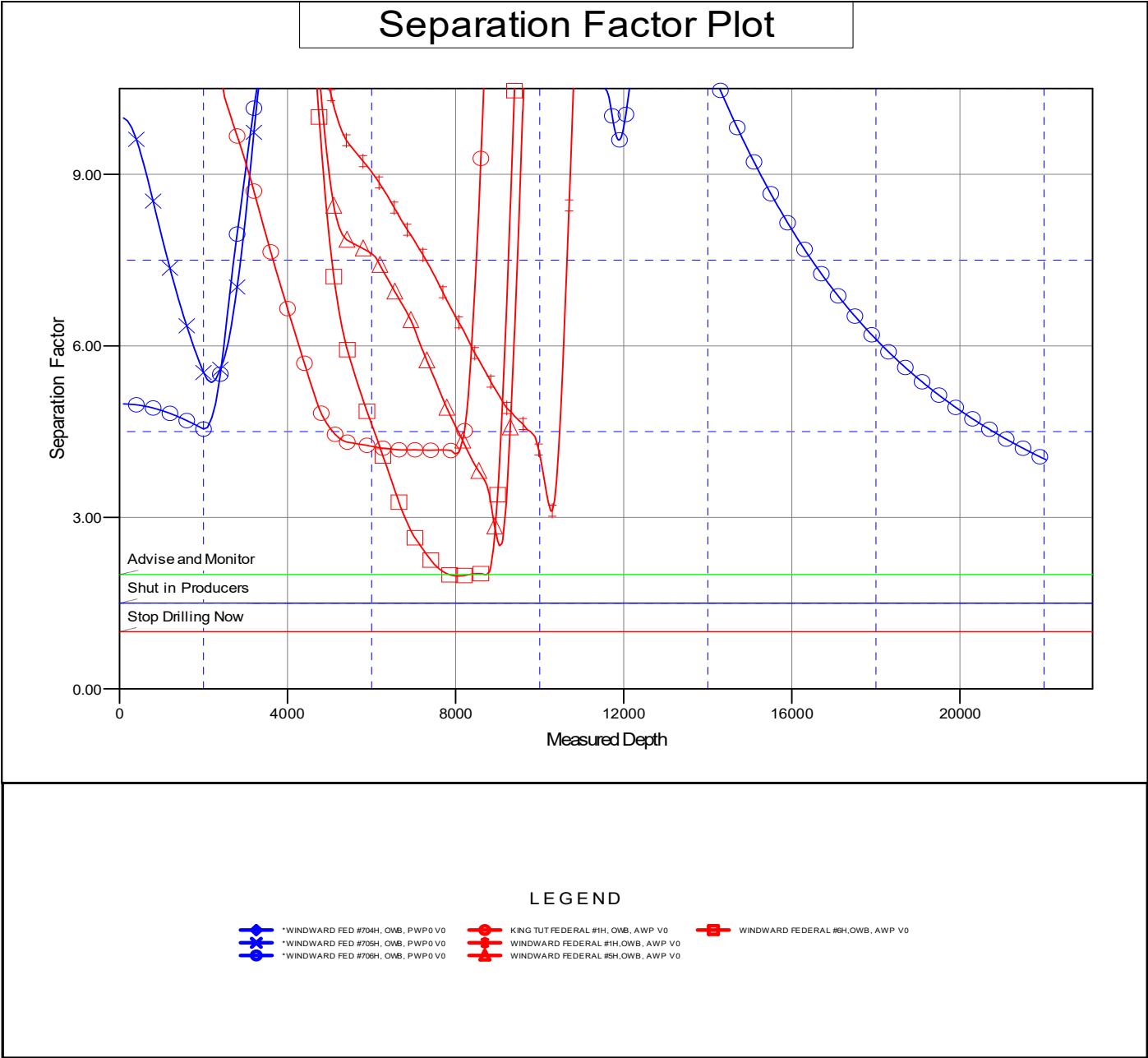
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Reference Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL #708H	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 + 3541.5ft @ 3573.5usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FEDERAL #708H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

WINDWARD FEDERAL PROJECT (BULLDOG 2432)

WINDWARD FEDERAL #708H

OWB

Plan: PWP0

Standard Planning Report

25 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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 #708H		
Well Position	+N/-S	36,029.2 usft	Northing:
	+E/-W	-52,256.7 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	6.52	59.82	47,574.04865697

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	181.64

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	11,638.0 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	11,638.0	22,051.3 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 #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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	
2,299.9	6.00	345.07	2,299.4	15.2	-4.0	2.00	2.00	0.00	345.07	
4,820.6	6.00	345.07	4,806.2	269.7	-71.9	0.00	0.00	0.00	0.00	
5,420.4	0.00	0.00	5,405.0	300.0	-80.0	1.00	-1.00	0.00	180.00	
11,638.0	0.00	0.00	11,622.5	300.0	-80.0	0.00	0.00	0.00	0.00	
12,388.0	90.00	200.35	12,100.0	-147.7	-246.0	12.00	12.00	0.00	200.35	
12,905.4	90.00	179.65	12,100.0	-654.4	-335.4	4.00	0.00	-4.00	-90.00	
22,051.3	90.00	179.65	12,100.0	-9,800.2	-280.3	0.00	0.00	0.00	0.00	PBHL(WINDWARD F

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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	345.07	2,100.0	1.7	-0.4	-1.7	2.00	2.00	0.00
2,200.0	4.00	345.07	2,199.8	6.7	-1.8	-6.7	2.00	2.00	0.00
2,299.9	6.00	345.07	2,299.4	15.2	-4.0	-15.0	2.00	2.00	0.00
Start 2520.6 hold at 2299.9 MD									
2,400.0	6.00	345.07	2,398.9	25.3	-6.7	-25.1	0.00	0.00	0.00
2,500.0	6.00	345.07	2,498.4	35.4	-9.4	-35.1	0.00	0.00	0.00
2,600.0	6.00	345.07	2,597.8	45.5	-12.1	-45.1	0.00	0.00	0.00
2,700.0	6.00	345.07	2,697.3	55.6	-14.8	-55.1	0.00	0.00	0.00
2,800.0	6.00	345.07	2,796.7	65.7	-17.5	-65.1	0.00	0.00	0.00
2,900.0	6.00	345.07	2,896.2	75.8	-20.2	-75.1	0.00	0.00	0.00
3,000.0	6.00	345.07	2,995.6	85.8	-22.9	-85.2	0.00	0.00	0.00
3,100.0	6.00	345.07	3,095.1	95.9	-25.6	-95.2	0.00	0.00	0.00
3,200.0	6.00	345.07	3,194.5	106.0	-28.3	-105.2	0.00	0.00	0.00
3,300.0	6.00	345.07	3,294.0	116.1	-31.0	-115.2	0.00	0.00	0.00
3,400.0	6.00	345.07	3,393.4	126.2	-33.7	-125.2	0.00	0.00	0.00
3,500.0	6.00	345.07	3,492.9	136.3	-36.4	-135.2	0.00	0.00	0.00
3,600.0	6.00	345.07	3,592.3	146.4	-39.0	-145.3	0.00	0.00	0.00
3,700.0	6.00	345.07	3,691.8	156.5	-41.7	-155.3	0.00	0.00	0.00
3,800.0	6.00	345.07	3,791.2	166.6	-44.4	-165.3	0.00	0.00	0.00
3,900.0	6.00	345.07	3,890.7	176.7	-47.1	-175.3	0.00	0.00	0.00
4,000.0	6.00	345.07	3,990.1	186.8	-49.8	-185.3	0.00	0.00	0.00
4,100.0	6.00	345.07	4,089.6	196.9	-52.5	-195.3	0.00	0.00	0.00
4,200.0	6.00	345.07	4,189.0	207.0	-55.2	-205.4	0.00	0.00	0.00
4,300.0	6.00	345.07	4,288.5	217.1	-57.9	-215.4	0.00	0.00	0.00
4,400.0	6.00	345.07	4,388.0	227.2	-60.6	-225.4	0.00	0.00	0.00
4,500.0	6.00	345.07	4,487.4	237.3	-63.3	-235.4	0.00	0.00	0.00
4,600.0	6.00	345.07	4,586.9	247.4	-66.0	-245.4	0.00	0.00	0.00
4,700.0	6.00	345.07	4,686.3	257.5	-68.7	-255.4	0.00	0.00	0.00
4,800.0	6.00	345.07	4,785.8	267.6	-71.4	-265.5	0.00	0.00	0.00
4,820.6	6.00	345.07	4,806.2	269.7	-71.9	-267.5	0.00	0.00	0.00
Start Drop -1.00									

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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)
4,900.0	5.20	345.07	4,885.3	277.2	-73.9	-275.0	1.00	-1.00	0.00
5,000.0	4.20	345.07	4,984.9	285.1	-76.0	-282.8	1.00	-1.00	0.00
5,100.0	3.20	345.07	5,084.7	291.3	-77.7	-289.0	1.00	-1.00	0.00
5,200.0	2.20	345.07	5,184.6	295.9	-78.9	-293.5	1.00	-1.00	0.00
5,300.0	1.20	345.07	5,284.6	298.8	-79.7	-296.4	1.00	-1.00	0.00
5,400.0	0.20	345.07	5,384.6	300.0	-80.0	-297.6	1.00	-1.00	0.00
5,420.4	0.00	0.00	5,405.0	300.0	-80.0	-297.6	1.00	-1.00	73.03
Start 6217.5 hold at 5420.4 MD									
5,500.0	0.00	0.00	5,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,100.0	0.00	0.00	6,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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	9,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,684.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,784.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,884.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,984.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,084.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,184.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,284.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,384.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,484.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,584.6	300.0	-80.0	-297.6	0.00	0.00	0.00	
11,638.0	0.00	0.00	11,622.5	300.0	-80.0	-297.6	0.00	0.00	0.00	
Start Build 12.00										
11,650.0	1.44	200.35	11,634.6	299.9	-80.1	-297.4	12.00	12.00	0.00	
11,675.0	4.44	200.35	11,659.5	298.7	-80.5	-296.2	12.00	12.00	0.00	
11,700.0	7.44	200.35	11,684.4	296.2	-81.4	-293.8	12.00	12.00	0.00	
11,725.0	10.44	200.35	11,709.1	292.6	-82.7	-290.1	12.00	12.00	0.00	
11,750.0	13.44	200.35	11,733.5	287.7	-84.5	-285.2	12.00	12.00	0.00	
11,775.0	16.44	200.35	11,757.7	281.7	-86.8	-279.1	12.00	12.00	0.00	
11,800.0	19.44	200.35	11,781.5	274.5	-89.5	-271.8	12.00	12.00	0.00	
11,825.0	22.44	200.35	11,804.8	266.1	-92.6	-263.3	12.00	12.00	0.00	
11,850.0	25.44	200.35	11,827.7	256.6	-96.1	-253.7	12.00	12.00	0.00	
11,875.0	28.44	200.35	11,849.9	246.0	-100.0	-243.0	12.00	12.00	0.00	
11,900.0	31.44	200.35	11,871.6	234.3	-104.4	-231.2	12.00	12.00	0.00	
11,925.0	34.44	200.35	11,892.6	221.5	-109.1	-218.3	12.00	12.00	0.00	
11,950.0	37.44	200.35	11,912.8	207.8	-114.2	-204.4	12.00	12.00	0.00	
11,975.0	40.44	200.35	11,932.3	193.0	-119.7	-189.5	12.00	12.00	0.00	
12,000.0	43.44	200.35	11,950.9	177.4	-125.5	-173.7	12.00	12.00	0.00	
12,025.0	46.44	200.35	11,968.5	160.8	-131.6	-157.0	12.00	12.00	0.00	
12,050.0	49.44	200.35	11,985.3	143.4	-138.1	-139.4	12.00	12.00	0.00	
12,075.0	52.44	200.35	12,001.0	125.2	-144.8	-121.0	12.00	12.00	0.00	
12,100.0	55.44	200.35	12,015.8	106.3	-151.9	-101.9	12.00	12.00	0.00	
12,125.0	58.44	200.35	12,029.4	86.6	-159.1	-82.0	12.00	12.00	0.00	
12,150.0	61.44	200.35	12,041.9	66.3	-166.7	-61.5	12.00	12.00	0.00	
12,175.0	64.44	200.35	12,053.3	45.5	-174.4	-40.5	12.00	12.00	0.00	
12,200.0	67.44	200.35	12,063.5	24.1	-182.3	-18.8	12.00	12.00	0.00	
12,225.0	70.44	200.35	12,072.5	2.2	-190.5	3.3	12.00	12.00	0.00	
12,250.0	73.44	200.35	12,080.2	-20.1	-198.7	25.8	12.00	12.00	0.00	
12,275.0	76.44	200.35	12,086.7	-42.7	-207.1	48.6	12.00	12.00	0.00	
12,300.0	79.44	200.35	12,091.9	-65.6	-215.6	71.8	12.00	12.00	0.00	
12,325.0	82.44	200.35	12,095.9	-88.8	-224.2	95.2	12.00	12.00	0.00	
12,350.0	85.44	200.35	12,098.5	-112.1	-232.8	118.7	12.00	12.00	0.00	
12,375.0	88.44	200.35	12,099.8	-135.5	-241.5	142.3	12.00	12.00	0.00	
12,388.0	90.00	200.35	12,100.0	-147.7	-246.0	154.6	12.00	12.00	0.00	
Start DLS 4.00 TFO -90.00										
12,400.0	90.00	199.87	12,100.0	-159.0	-250.2	166.0	4.00	0.00	-4.00	
12,500.0	90.00	195.87	12,100.0	-254.1	-280.9	262.0	4.00	0.00	-4.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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)
12,600.0	90.00	191.87	12,100.0	-351.2	-304.8	359.7	4.00	0.00	-4.00
12,700.0	90.00	187.87	12,100.0	-449.7	-322.0	458.7	4.00	0.00	-4.00
12,800.0	90.00	183.87	12,100.0	-549.1	-332.2	558.4	4.00	0.00	-4.00
12,905.4	90.00	179.65	12,100.0	-654.4	-335.4	663.7	4.00	0.00	-4.00
Start 9145.9 hold at 12905.4 MD									
13,000.0	90.00	179.65	12,100.0	-749.1	-334.8	758.3	0.00	0.00	0.00
13,100.0	90.00	179.65	12,100.0	-849.1	-334.2	858.3	0.00	0.00	0.00
13,200.0	90.00	179.65	12,100.0	-949.0	-333.6	958.2	0.00	0.00	0.00
13,300.0	90.00	179.65	12,100.0	-1,049.0	-333.0	1,058.1	0.00	0.00	0.00
13,400.0	90.00	179.65	12,100.0	-1,149.0	-332.4	1,158.1	0.00	0.00	0.00
13,500.0	90.00	179.65	12,100.0	-1,249.0	-331.8	1,258.0	0.00	0.00	0.00
13,600.0	90.00	179.65	12,100.0	-1,349.0	-331.2	1,358.0	0.00	0.00	0.00
13,700.0	90.00	179.65	12,100.0	-1,449.0	-330.6	1,457.9	0.00	0.00	0.00
13,800.0	90.00	179.65	12,100.0	-1,549.0	-330.0	1,557.8	0.00	0.00	0.00
13,900.0	90.00	179.65	12,100.0	-1,649.0	-329.4	1,657.8	0.00	0.00	0.00
14,000.0	90.00	179.65	12,100.0	-1,749.0	-328.8	1,757.7	0.00	0.00	0.00
14,100.0	90.00	179.65	12,100.0	-1,849.0	-328.2	1,857.7	0.00	0.00	0.00
14,200.0	90.00	179.65	12,100.0	-1,949.0	-327.6	1,957.6	0.00	0.00	0.00
14,300.0	90.00	179.65	12,100.0	-2,049.0	-327.0	2,057.5	0.00	0.00	0.00
14,400.0	90.00	179.65	12,100.0	-2,149.0	-326.4	2,157.5	0.00	0.00	0.00
14,500.0	90.00	179.65	12,100.0	-2,249.0	-325.8	2,257.4	0.00	0.00	0.00
14,600.0	90.00	179.65	12,100.0	-2,349.0	-325.2	2,357.4	0.00	0.00	0.00
14,700.0	90.00	179.65	12,100.0	-2,449.0	-324.6	2,457.3	0.00	0.00	0.00
14,800.0	90.00	179.65	12,100.0	-2,549.0	-324.0	2,557.2	0.00	0.00	0.00
14,900.0	90.00	179.65	12,100.0	-2,649.0	-323.4	2,657.2	0.00	0.00	0.00
15,000.0	90.00	179.65	12,100.0	-2,749.0	-322.8	2,757.1	0.00	0.00	0.00
15,100.0	90.00	179.65	12,100.0	-2,849.0	-322.2	2,857.1	0.00	0.00	0.00
15,200.0	90.00	179.65	12,100.0	-2,949.0	-321.6	2,957.0	0.00	0.00	0.00
15,300.0	90.00	179.65	12,100.0	-3,049.0	-321.0	3,056.9	0.00	0.00	0.00
15,400.0	90.00	179.65	12,100.0	-3,149.0	-320.4	3,156.9	0.00	0.00	0.00
15,500.0	90.00	179.65	12,100.0	-3,249.0	-319.8	3,256.8	0.00	0.00	0.00
15,600.0	90.00	179.65	12,100.0	-3,349.0	-319.2	3,356.8	0.00	0.00	0.00
15,700.0	90.00	179.65	12,100.0	-3,449.0	-318.6	3,456.7	0.00	0.00	0.00
15,800.0	90.00	179.65	12,100.0	-3,549.0	-318.0	3,556.6	0.00	0.00	0.00
15,900.0	90.00	179.65	12,100.0	-3,649.0	-317.4	3,656.6	0.00	0.00	0.00
16,000.0	90.00	179.65	12,100.0	-3,749.0	-316.8	3,756.5	0.00	0.00	0.00
16,100.0	90.00	179.65	12,100.0	-3,849.0	-316.2	3,856.5	0.00	0.00	0.00
16,200.0	90.00	179.65	12,100.0	-3,949.0	-315.6	3,956.4	0.00	0.00	0.00
16,300.0	90.00	179.65	12,100.0	-4,049.0	-315.0	4,056.3	0.00	0.00	0.00
16,400.0	90.00	179.65	12,100.0	-4,149.0	-314.4	4,156.3	0.00	0.00	0.00
16,500.0	90.00	179.65	12,100.0	-4,249.0	-313.8	4,256.2	0.00	0.00	0.00
16,600.0	90.00	179.65	12,100.0	-4,349.0	-313.2	4,356.2	0.00	0.00	0.00
16,700.0	90.00	179.65	12,100.0	-4,449.0	-312.5	4,456.1	0.00	0.00	0.00
16,800.0	90.00	179.65	12,100.0	-4,549.0	-311.9	4,556.0	0.00	0.00	0.00
16,900.0	90.00	179.65	12,100.0	-4,649.0	-311.3	4,656.0	0.00	0.00	0.00
17,000.0	90.00	179.65	12,100.0	-4,749.0	-310.7	4,755.9	0.00	0.00	0.00
17,100.0	90.00	179.65	12,100.0	-4,849.0	-310.1	4,855.9	0.00	0.00	0.00
17,200.0	90.00	179.65	12,100.0	-4,949.0	-309.5	4,955.8	0.00	0.00	0.00
17,300.0	90.00	179.65	12,100.0	-5,049.0	-308.9	5,055.7	0.00	0.00	0.00
17,400.0	90.00	179.65	12,100.0	-5,149.0	-308.3	5,155.7	0.00	0.00	0.00
17,500.0	90.00	179.65	12,100.0	-5,249.0	-307.7	5,255.6	0.00	0.00	0.00
17,600.0	90.00	179.65	12,100.0	-5,349.0	-307.1	5,355.6	0.00	0.00	0.00
17,700.0	90.00	179.65	12,100.0	-5,449.0	-306.5	5,455.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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)
17,800.0	90.00	179.65	12,100.0	-5,549.0	-305.9	5,555.4	0.00	0.00	0.00
17,900.0	90.00	179.65	12,100.0	-5,649.0	-305.3	5,655.4	0.00	0.00	0.00
18,000.0	90.00	179.65	12,100.0	-5,749.0	-304.7	5,755.3	0.00	0.00	0.00
18,100.0	90.00	179.65	12,100.0	-5,849.0	-304.1	5,855.3	0.00	0.00	0.00
18,200.0	90.00	179.65	12,100.0	-5,949.0	-303.5	5,955.2	0.00	0.00	0.00
18,300.0	90.00	179.65	12,100.0	-6,049.0	-302.9	6,055.1	0.00	0.00	0.00
18,400.0	90.00	179.65	12,100.0	-6,149.0	-302.3	6,155.1	0.00	0.00	0.00
18,500.0	90.00	179.65	12,100.0	-6,249.0	-301.7	6,255.0	0.00	0.00	0.00
18,600.0	90.00	179.65	12,100.0	-6,349.0	-301.1	6,355.0	0.00	0.00	0.00
18,700.0	90.00	179.65	12,100.0	-6,448.9	-300.5	6,454.9	0.00	0.00	0.00
18,800.0	90.00	179.65	12,100.0	-6,548.9	-299.9	6,554.8	0.00	0.00	0.00
18,900.0	90.00	179.65	12,100.0	-6,648.9	-299.3	6,654.8	0.00	0.00	0.00
19,000.0	90.00	179.65	12,100.0	-6,748.9	-298.7	6,754.7	0.00	0.00	0.00
19,100.0	90.00	179.65	12,100.0	-6,848.9	-298.1	6,854.7	0.00	0.00	0.00
19,200.0	90.00	179.65	12,100.0	-6,948.9	-297.5	6,954.6	0.00	0.00	0.00
19,300.0	90.00	179.65	12,100.0	-7,048.9	-296.9	7,054.5	0.00	0.00	0.00
19,400.0	90.00	179.65	12,100.0	-7,148.9	-296.3	7,154.5	0.00	0.00	0.00
19,500.0	90.00	179.65	12,100.0	-7,248.9	-295.7	7,254.4	0.00	0.00	0.00
19,600.0	90.00	179.65	12,100.0	-7,348.9	-295.1	7,354.4	0.00	0.00	0.00
19,700.0	90.00	179.65	12,100.0	-7,448.9	-294.5	7,454.3	0.00	0.00	0.00
19,800.0	90.00	179.65	12,100.0	-7,548.9	-293.9	7,554.2	0.00	0.00	0.00
19,900.0	90.00	179.65	12,100.0	-7,648.9	-293.3	7,654.2	0.00	0.00	0.00
20,000.0	90.00	179.65	12,100.0	-7,748.9	-292.7	7,754.1	0.00	0.00	0.00
20,100.0	90.00	179.65	12,100.0	-7,848.9	-292.1	7,854.1	0.00	0.00	0.00
20,200.0	90.00	179.65	12,100.0	-7,948.9	-291.5	7,954.0	0.00	0.00	0.00
20,300.0	90.00	179.65	12,100.0	-8,048.9	-290.9	8,053.9	0.00	0.00	0.00
20,400.0	90.00	179.65	12,100.0	-8,148.9	-290.3	8,153.9	0.00	0.00	0.00
20,500.0	90.00	179.65	12,100.0	-8,248.9	-289.6	8,253.8	0.00	0.00	0.00
20,600.0	90.00	179.65	12,100.0	-8,348.9	-289.0	8,353.8	0.00	0.00	0.00
20,700.0	90.00	179.65	12,100.0	-8,448.9	-288.4	8,453.7	0.00	0.00	0.00
20,800.0	90.00	179.65	12,100.0	-8,548.9	-287.8	8,553.6	0.00	0.00	0.00
20,900.0	90.00	179.65	12,100.0	-8,648.9	-287.2	8,653.6	0.00	0.00	0.00
21,000.0	90.00	179.65	12,100.0	-8,748.9	-286.6	8,753.5	0.00	0.00	0.00
21,100.0	90.00	179.65	12,100.0	-8,848.9	-286.0	8,853.5	0.00	0.00	0.00
21,200.0	90.00	179.65	12,100.0	-8,948.9	-285.4	8,953.4	0.00	0.00	0.00
21,300.0	90.00	179.65	12,100.0	-9,048.9	-284.8	9,053.3	0.00	0.00	0.00
21,400.0	90.00	179.65	12,100.0	-9,148.9	-284.2	9,153.3	0.00	0.00	0.00
21,500.0	90.00	179.65	12,100.0	-9,248.9	-283.6	9,253.2	0.00	0.00	0.00
21,600.0	90.00	179.65	12,100.0	-9,348.9	-283.0	9,353.2	0.00	0.00	0.00
21,700.0	90.00	179.65	12,100.0	-9,448.9	-282.4	9,453.1	0.00	0.00	0.00
21,800.0	90.00	179.65	12,100.0	-9,548.9	-281.8	9,553.0	0.00	0.00	0.00
21,900.0	90.00	179.65	12,100.0	-9,648.9	-281.2	9,653.0	0.00	0.00	0.00
22,000.0	90.00	179.65	12,100.0	-9,748.9	-280.6	9,752.9	0.00	0.00	0.00
22,051.3	90.00	179.65	12,100.0	-9,800.2	-280.3	9,804.2	0.00	0.00	0.00
TD at 22051.3									

ConocoPhillips
Planning Report

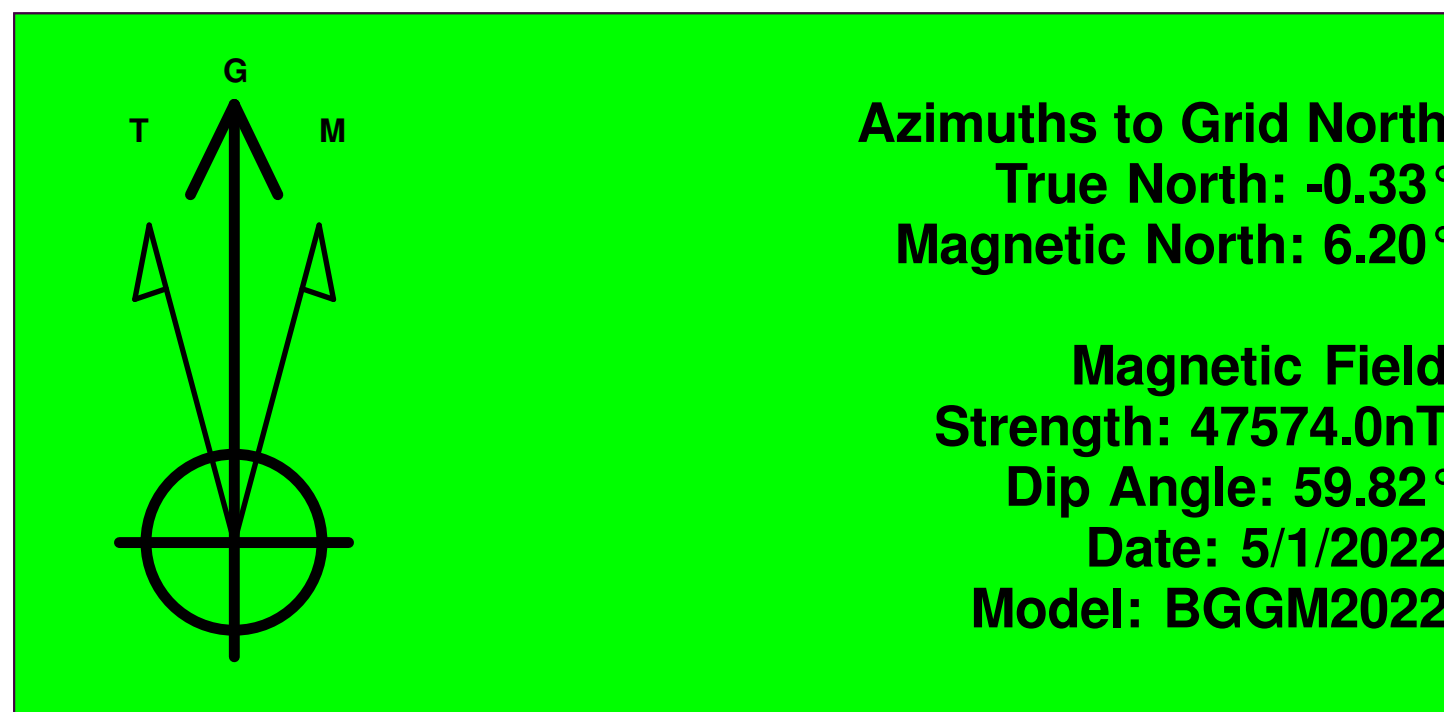
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 32ft + 3541.5ft @ 3573.5usft
Site:	WINDWARD FEDERAL PROJECT (BULLDOG 2432)	North Reference:	Grid
Well:	WINDWARD FEDERAL #708H	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	607.6	-343.8	435,273.90	689,286.90	32° 11' 42.736 N	103° 43' 17.130 W
- plan misses target center by 497.1usft at 11928.4usft MD (11895.3 TVD, 219.7 N, -109.8 E)									
- Circle (radius 50.0)									
LTP(WINDWARD FED #	0.00	0.01	12,100.0	-9,750.2	-280.6	424,916.10	689,350.10	32° 10' 0.233 N	103° 43' 17.081 W
- plan misses target center by 1.3usft at 22000.0usft MD (12100.0 TVD, -9748.9 N, -280.6 E)									
- Point									
PBHL(WINDWARD FED	0.00	359.65	12,100.0	-9,800.2	-280.3	424,866.10	689,350.40	32° 9' 59.738 N	103° 43' 17.080 W
- plan hits target center									
- Rectangle (sides W100.0 H10,500.0 D20.0)									

Plan Annotations					
Measured Depth	Vertical	Local Coordinates			
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00	
2,299.9	2,299.4	15.2	-4.0	Start 2520.6 hold at 2299.9 MD	
4,820.6	4,806.2	269.7	-71.9	Start Drop -1.00	
5,420.4	5,405.0	300.0	-80.0	Start 6217.5 hold at 5420.4 MD	
11,638.0	11,622.5	300.0	-80.0	Start Build 12.00	
12,388.0	12,100.0	-147.7	-246.0	Start DLS 4.00 TFO -90.00	
12,905.4	12,100.0	-654.4	-335.4	Start 9145.9 hold at 12905.4 MD	
22,051.3	12,100.0	-9,800.2	-280.3	TD at 22051.3	

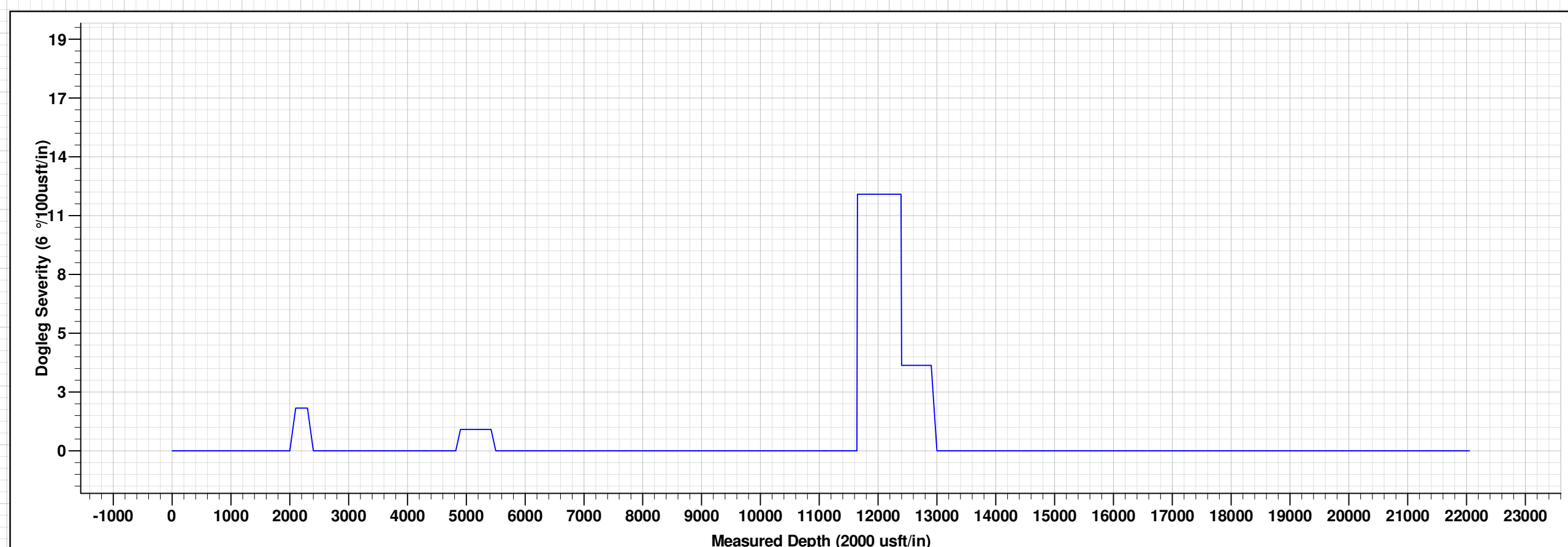
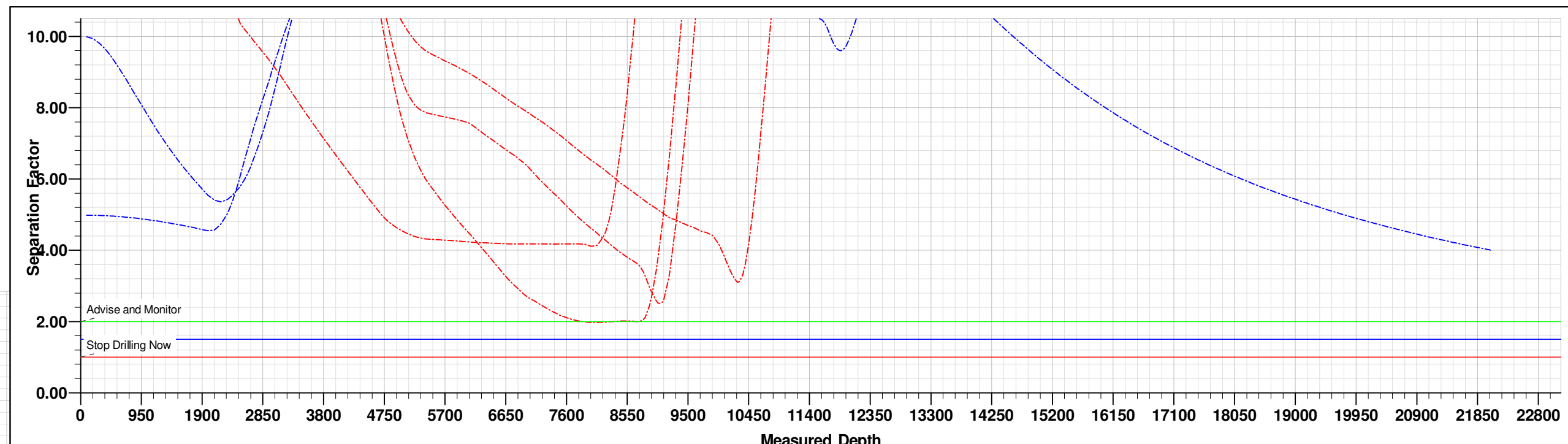


Project: BULLDOG PROSPECT (NM-E)
Site: WINDWARD FEDERAL PROJECT (BULLDOG 2432)
Well: WINDWARD FEDERAL #708H
Wellbore: OWB
Design: PWP0
GL: 3541.5
RKB 32ft + 3541.5ft @ 3573.5usft

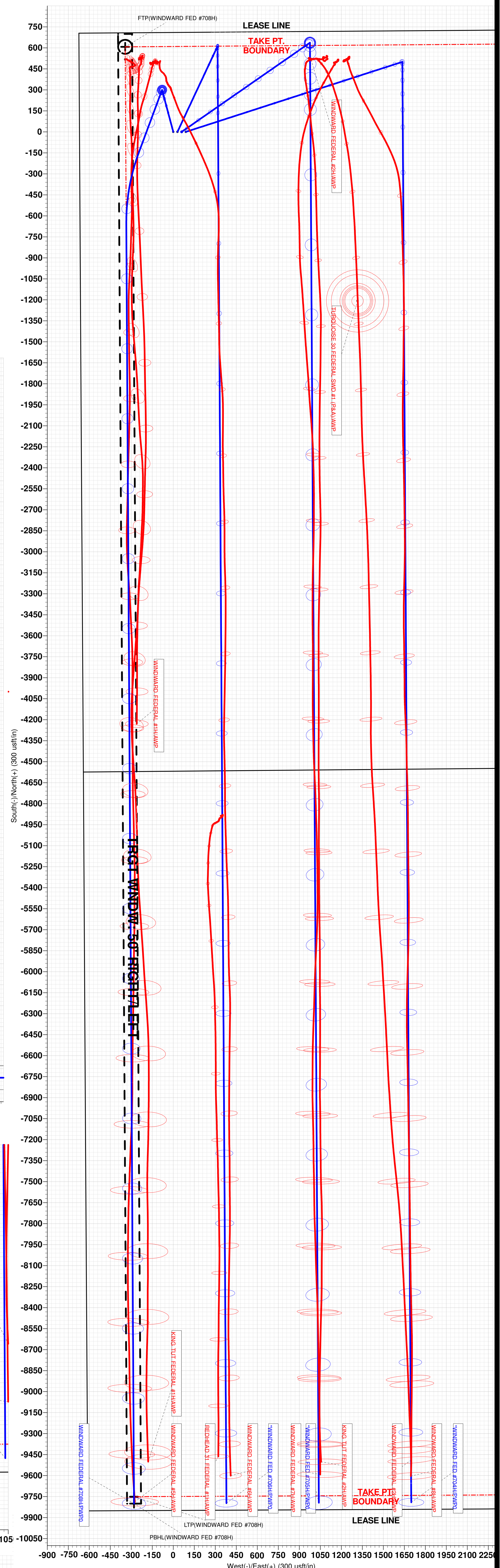
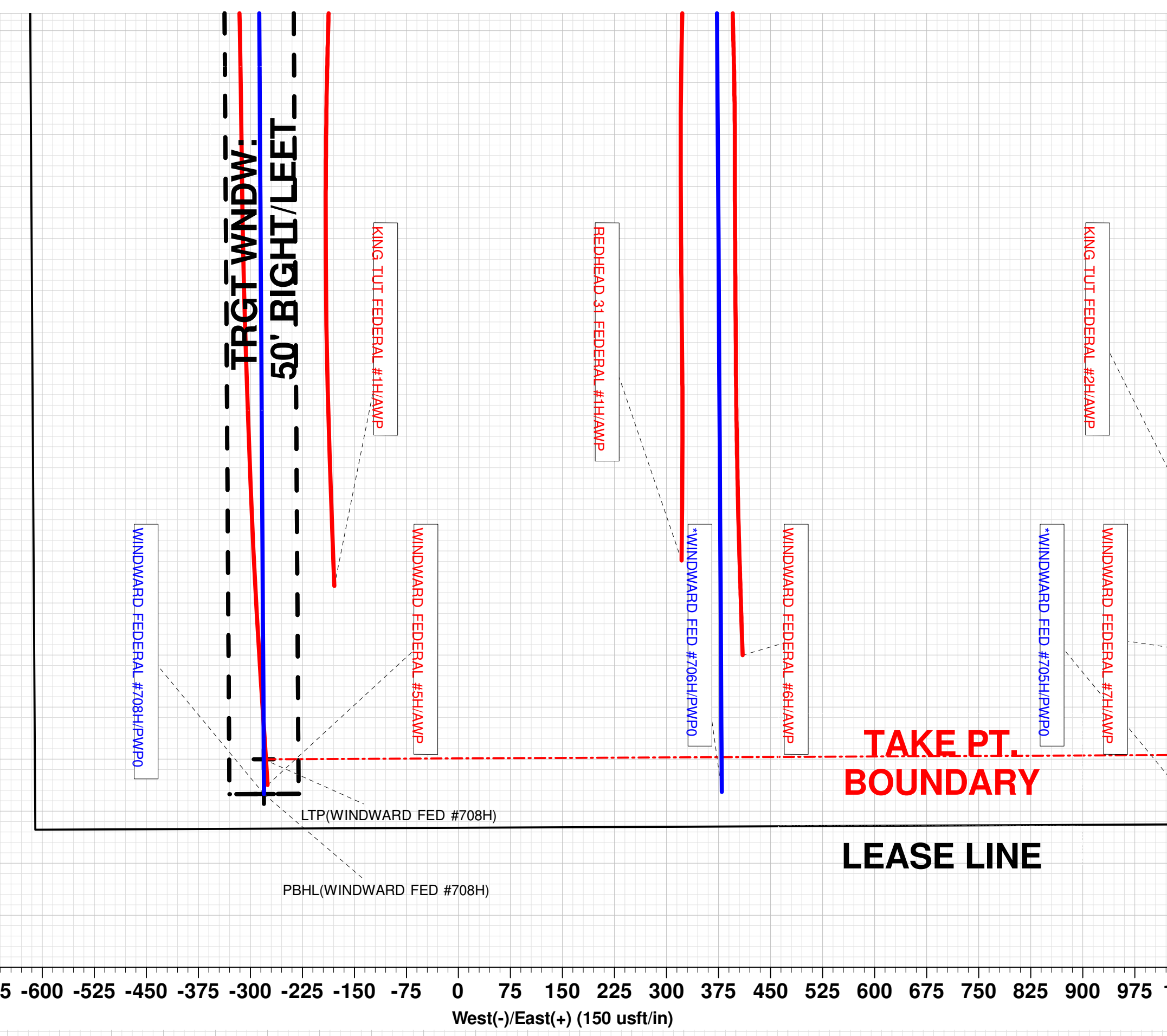
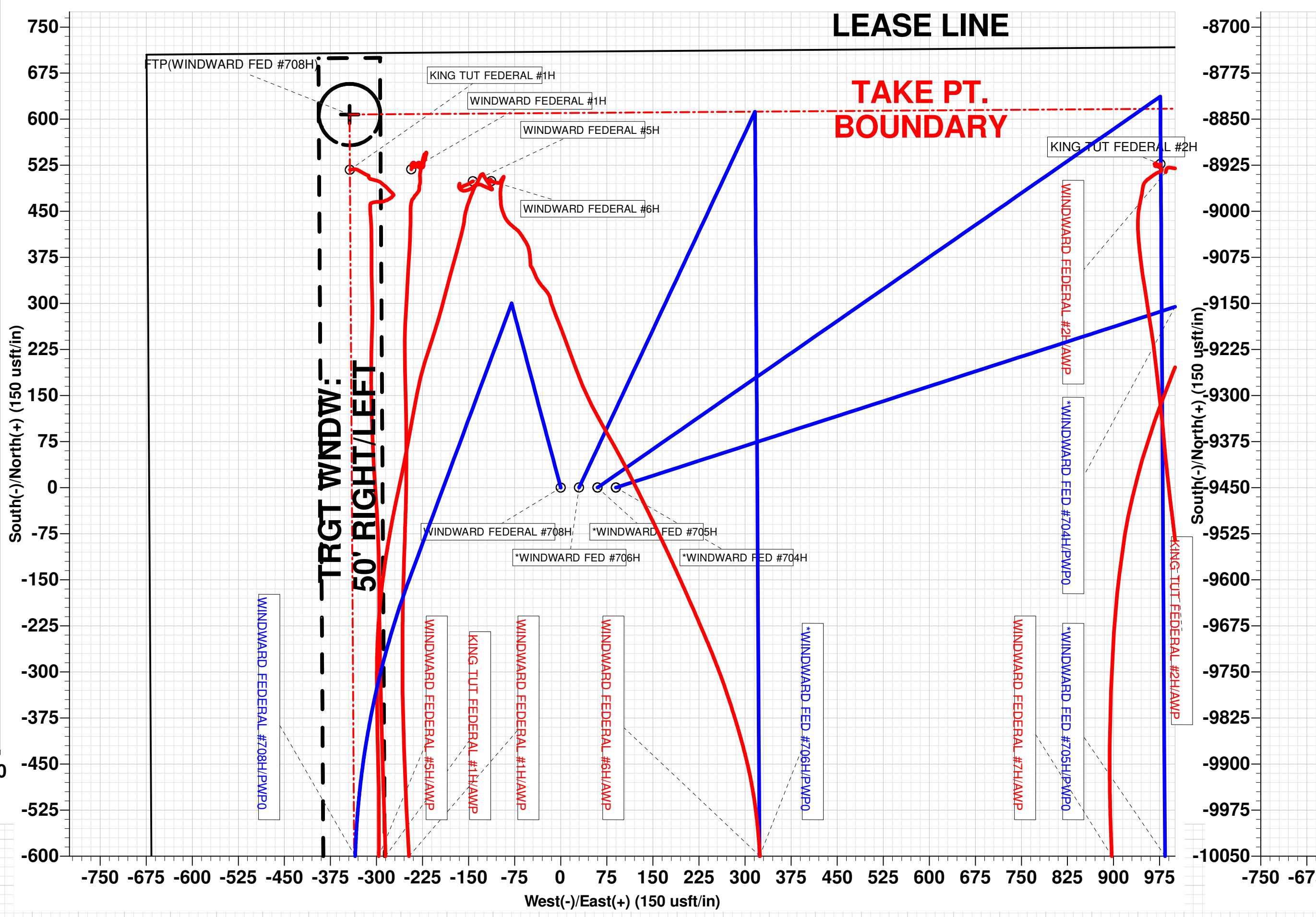
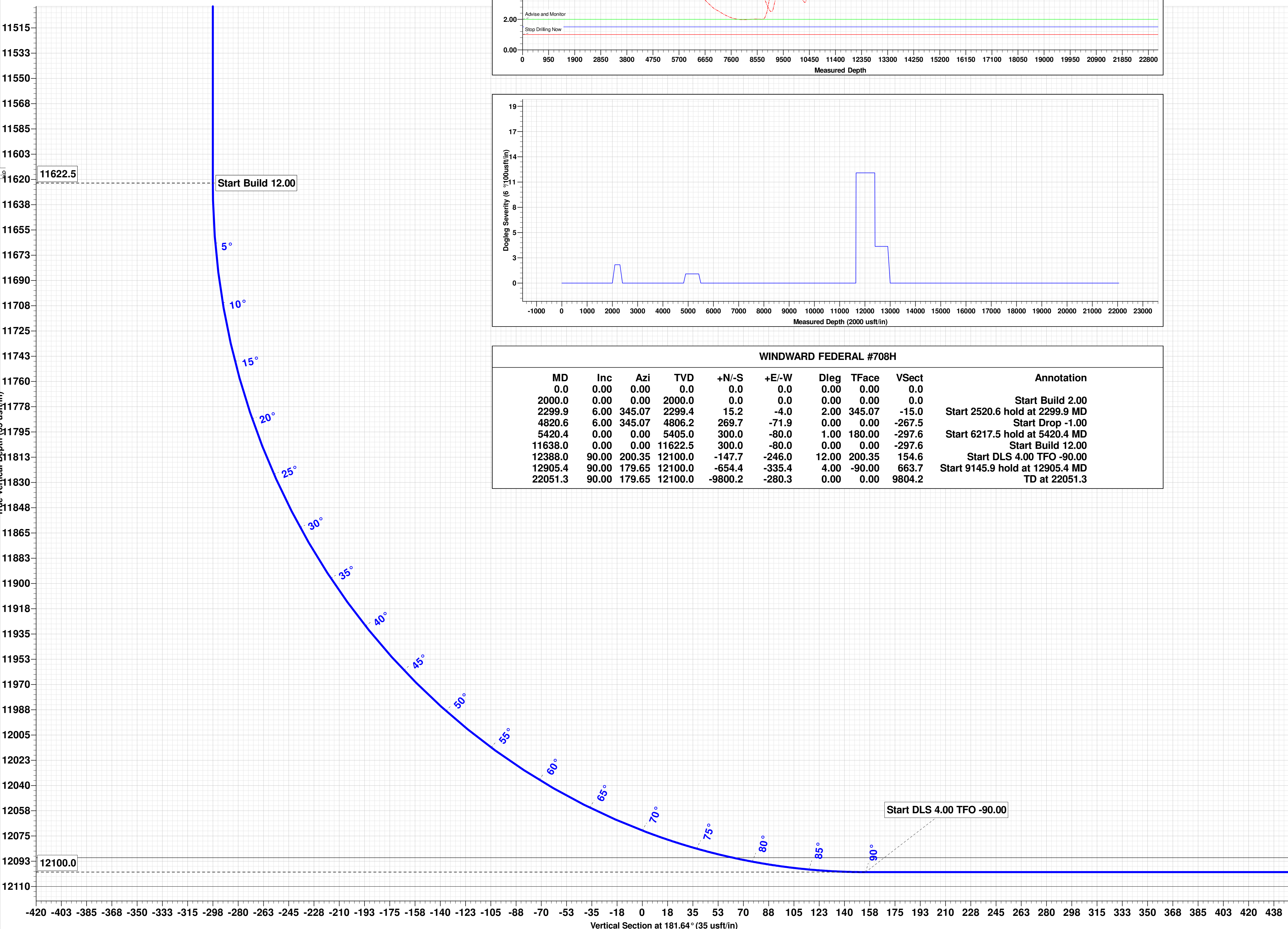
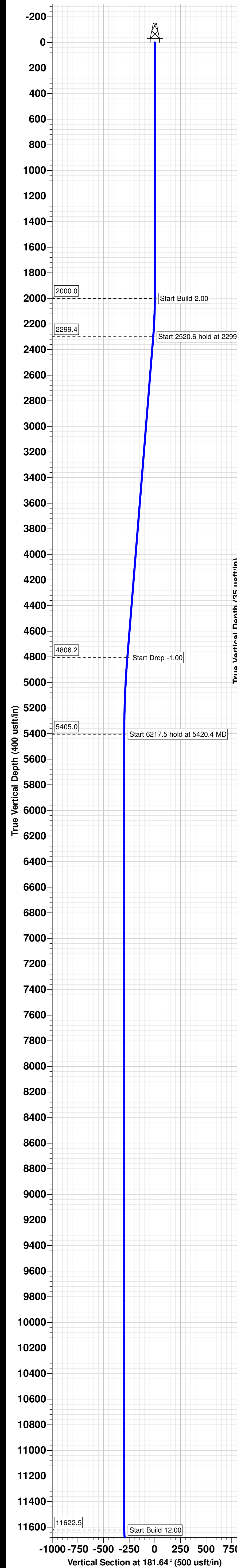


WELL DETAILS: WINDWARD FEDERAL #708H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434666.30	689630.70	32° 11' 36.704 N	103° 43' 13.170 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP(WINDWARD FED #708H)	12100.0	607.6	-343.8	435273.90	689286.90	32° 11' 42.736 N
LTP(WINDWARD FED #708H)	12100.0	-9750.2	-280.6	424916.10	689350.10	32° 10' 0.233 N
PBHL(WINDWARD FED #708H)	12100.0	-9800.2	-280.3	424866.10	689350.40	32° 9' 59.738 N



WINDWARD FEDERAL #708H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	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 2520.6 hold at 2299.9 MD
2299.9	6.00	345.07	2299.4	15.2	-4.0	2.00	345.07	-15.0	Start Drop -1.00
4820.6	6.00	345.07	4806.2	269.7	-71.9	0.00	0.00	-267.5	Start 6217.5 hold at 5420.4 MD
5420.4	0.00	0.00	5405.0	300.0	-80.0	1.00	180.00	-297.6	Start Build 12.00
11638.0	0.00	0.00	11622.5	300.0	-80.0	0.00	0.00	-297.6	Start DLS 4.00 TFO -90.00
12388.0	90.00	200.35	12100.0	-147.7	-246.0	12.00	200.35	154.6	Start 9145.9 hold at 12905.4 MD
12905.4	90.00	179.65	12100.0	-654.4	-335.4	4.00	-90.00	663.7	TD at 22051.3
22051.3	90.00	179.65	12100.0	-9800.2	-280.3	0.00	0.00	9804.2	



TRGT WNDW: 10'
ABOVE/BELOW

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

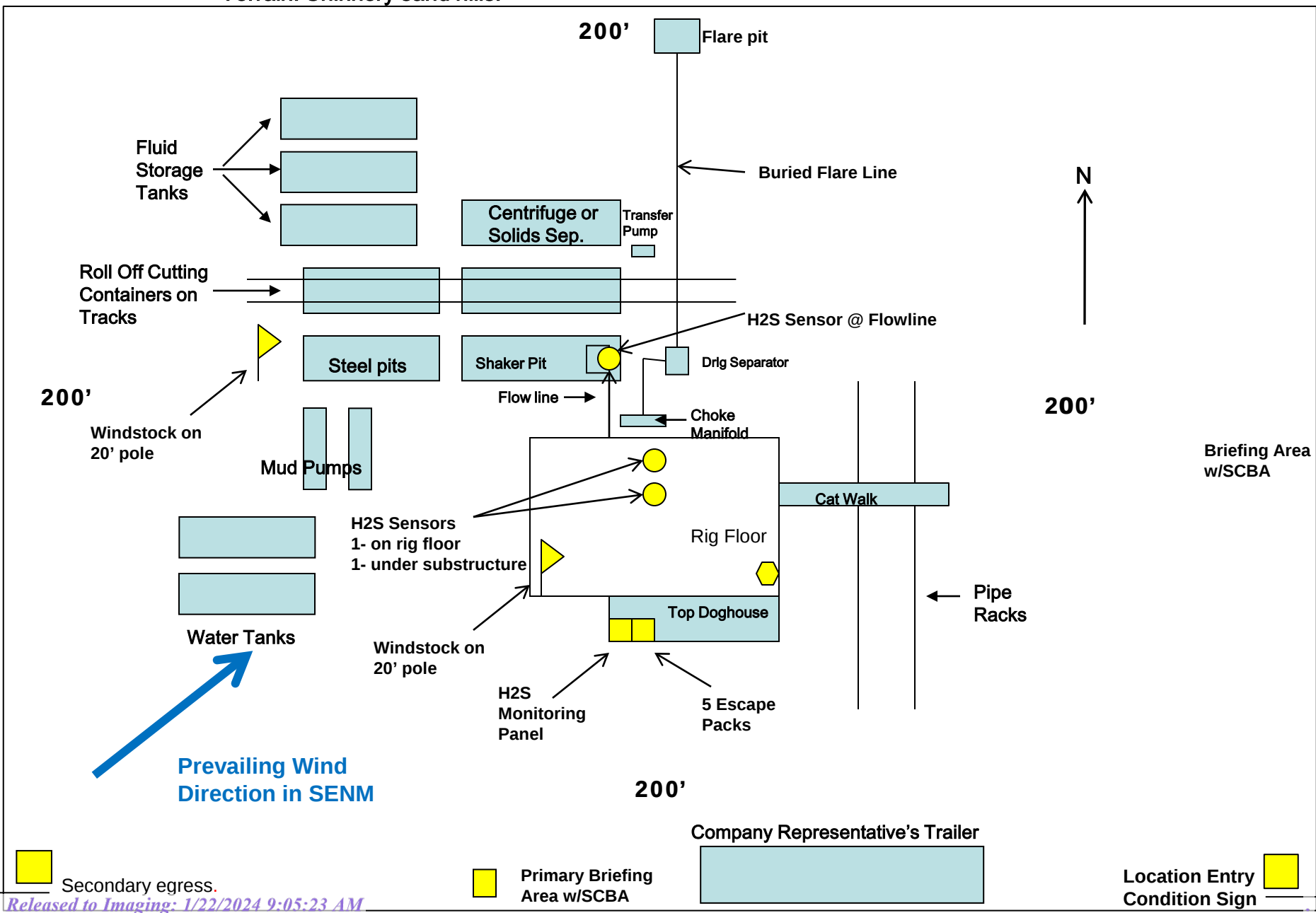
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location 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

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

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



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 303922

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID:
	217955
	Action Number:
	303922
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