

Well Name: WINDWARD FEDERAL	Well Location: T24S / R32E / SEC 30 / LOT 1 / 32.193653 / -103.720708	County or Parish/State: LEA / NM
Well Number: 706H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120908	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550384	Operator: COG PRODUCTION LLC	

Notice of Intent

Sundry ID: 2786986

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/25/2024	Time Sundry Submitted: 12:52
Date proposed operation will begin: 04/25/2024	

Procedure Description: COG Production requests a change to our approved APD for this well to reflect a change in dedicated acres, BHL, and surface casing. Additionally, we request the addition of a contingency 4-string casing design be added to the drill plan in the event water flows are encountered during drilling. Change BHL FROM: 50' FSL & 330' FWL Change BHL TO: 50' FSL & 1020' FWL Lot 4 31-24S-32E Lea Co, NM Change dedicated acres to 1331.72. Change surface casing FROM: 14.75 inch hole, 10.75 inch, 45.5#, J55, BTC Change surface casing TO: 17.50 inch hole, 13.375 inch, 54.5#, J55, BTC, 0 – 930 ft. Also, COG Production requests a variance to allow for break testing as attached. Detailed contingency casing plan and procedure attached.

NOI Attachments

Procedure Description

- 4_string_contingency_casing_specs_20240430131125.pdf
- COP_BOP_Break_Testing_Documentation_6_07_23_20240430131114.pdf
- WINDWARD_FED_COM_706H_PWP1_WP_20240425125221.pdf
- 3_string_casing_specs_20240425125213.pdf
- WINDWARD_FED_COM_706H_PWP1_AC_RPT_20240425125213.pdf
- Windward_Fed_Com_706H_BHL_and_Casing_Sundry_20240425125213.pdf
- WINDWARD_FED_COM_706H_PWP1_PLAN_RPT_20240425125213.pdf

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Lease Number: NMNM120908	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002550384	Operator: COG PRODUCTION LLC	

WINDWARD_FED_706H_C102_NAD83_signed_4_25_24_20240425125213.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: STAN WAGNER

Signed on: APR 30, 2024 01:11 PM

Name: COG PRODUCTION LLC

Title: Regulatory Advisor

Street Address: 600 WEST ILLINOIS AVE

City: MIDLANDState: TX

Phone: (432) 253-9685

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

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY

BLM POC Title: ENGINEER

BLM POC Phone: 5759884722

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition: Approved

Disposition Date: 05/01/2024

Signature: KEITH IMMATTY

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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

SUBMIT IN TRIPLICATE - Other instructions on page 2		5. Lease Serial No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
2. Name of Operator		7. If Unit of CA/Agreement, Name and/or No.
3a. Address	3b. Phone No. (include area code)	8. Well Name and No.
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		9. API Well No.
		10. Field and Pool or Exploratory Area
		11. Country or Parish, State

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

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

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

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

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: LOT 1 / 710 FNL / 700 FWL / TWSP: 24S / RANGE: 32E / SECTION: 30 / LAT: 32.193653 / LONG: -103.720708 (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: 11777 feet, MD: 11800 feet)

BHL: LOT 4 / 50 FSL / 330 FWL / TWSP: 24S / RANGE: 32E / SECTION: 31 / LAT: 32.166718 / LONG: -103.72189 (TVD: 11994 feet, MD: 21870 feet)

CONFIDENTIAL



API BTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	13.375 in.	Wall Thickness	0.380 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			Performance		
Nominal OD	13.375 in.	Drift	12.459 in.	SMYS	55,000 psi
Wall Thickness	0.380 in.	Plain End Weight	52.79 lb/ft	Min UTS	75,000 psi
Nominal Weight	54.500 lb/ft	OD Tolerance	API	Body Yield Strength	853 x1000 lb
Nominal ID	12.615 in.			Min. Internal Yield Pressure	2730 psi
				Collapse Pressure	1130 psi
				Max. Allowed Bending	19 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	909 x1000 lb
Connection OD	14.375 in.	Coupling Face Load	766 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	2730 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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API BTC

Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -

Outside Diameter	9.625 in.	Wall Thickness	0.395 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry				Performance	
Nominal OD	9.625 in.	Drift	8.679 in.	SMYS	80,000 psi
Wall Thickness	0.395 in.	Plain End Weight	38.97 lb/ft	Min UTS	95,000 psi
Nominal Weight	40 lb/ft	OD Tolerance	API	Body Yield Strength	916 x1000 lb
Nominal ID	8.835 in.			Min. Internal Yield Pressure	5750 psi
				Collapse Pressure	3870 psi
				Max. Allowed Bending	38 °/100 ft

Connection Data

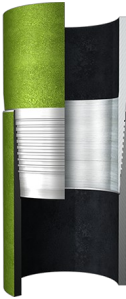
Geometry		Performance	
Thread per In	5	Joint Strength	947 x1000 lb
Connection OD	10.625 in.	Coupling Face Load	837 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	5750 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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Wedge 513[®]



Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.	Body Yield Strength	1068 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	11,070 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	125,000 psi
Nominal ID	6.875 in.			Collapse Pressure	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	60 %	Minimum	9000 ft-lb
Connection ID	6.800 in.	Joint Yield Strength	641 x1000 lb	Optimum	10,800 ft-lb
Make-up Loss	4.420 in.	Internal Pressure Capacity	11,070 psi	Maximum	15,800 ft-lb
Threads per inch	3.29	Compression Efficiency	75.20 %	Operation Limit Torques	
Connection OD Option	Regular	Compression Strength	803 x1000 lb	Operating Torque	53,000 ft-lb
		Max. Allowable Bending	45 °/100 ft	Yield Torque	79,000 ft-lb
		External Pressure Capacity	7360 psi		

Notes

This connection is fully interchangeable with:
Wedge 523[®] - 7.625 in. - 0.375 in.
Connections with Dopeless[®] Technology are fully compatible with the same connection in its Standard version

For the latest performance data, always visit our website: www.tenaris.com

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TXP® BTC



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23.00 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.200 in.	Tension Efficiency	100 %	Minimum	12,980 ft-lb
Coupling Length	9.450 in.	Joint Yield Strength	729 x1000 lb	Optimum	14,420 ft-lb
Connection ID	4.658 in.	Internal Pressure Capacity	14,530 psi	Maximum	15,860 ft-lb
Make-up Loss	4.204 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	729 x1000 lb	Operating Torque	24,200 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Yield Torque	26,900 ft-lb
		External Pressure Capacity	14,540 psi		
		Coupling Face Load	302,000 lb		

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 (15.50) / 0.304 (17.00) / 0.361 (20.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	Tension Efficiency	90.80 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	662 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.670 in.	Internal Pressure Capacity	14,530 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	90.80 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	662 x1000 lb	Operating Torque	33,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	82 °/100 ft	Yield Torque	39,000 ft-lb
		External Pressure Capacity	14,540 psi	Buck-On	
		Coupling Face Load	172,000 lb	Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

*Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
 - Classification - COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
 - Arrangement - Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
 - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
 - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
 - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
 - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
 - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
 - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
 - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
 - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
 - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

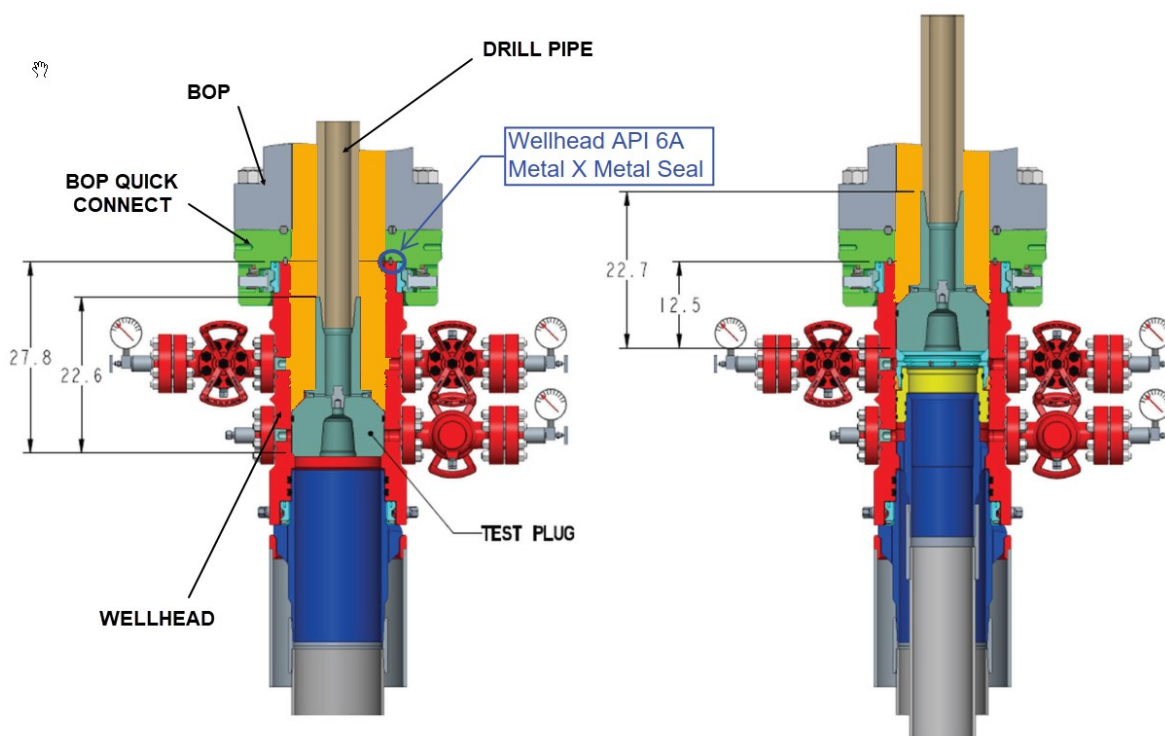


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

General Procedure

1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.



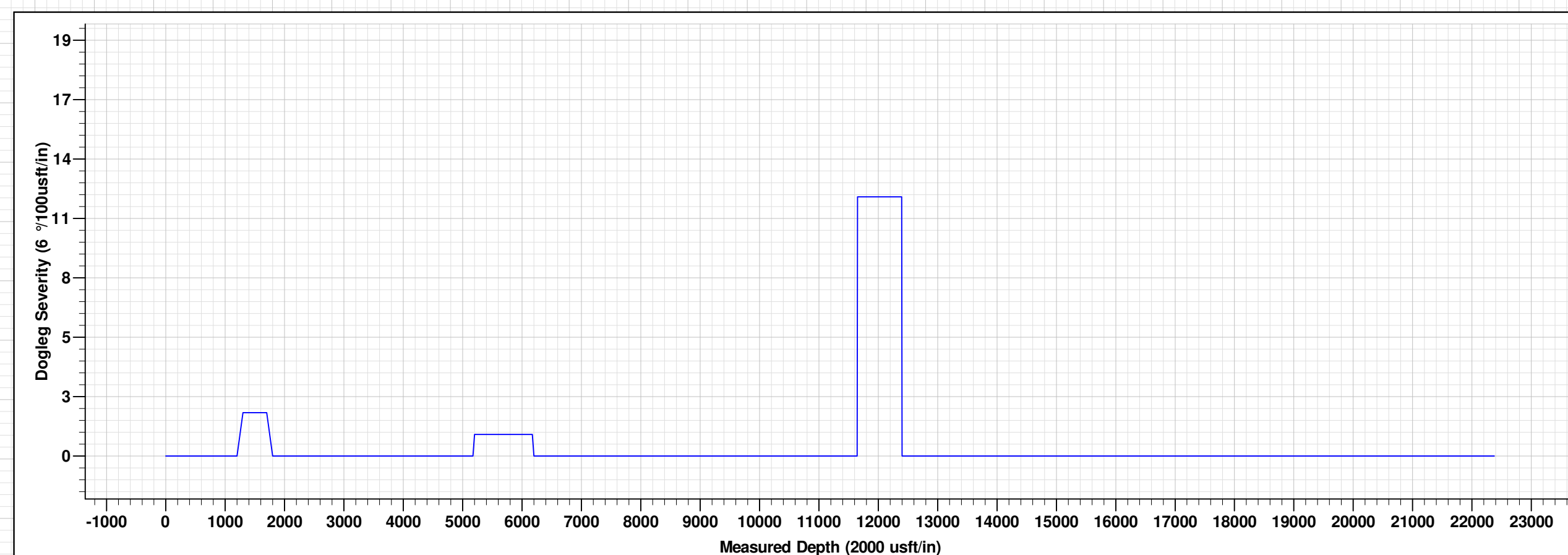
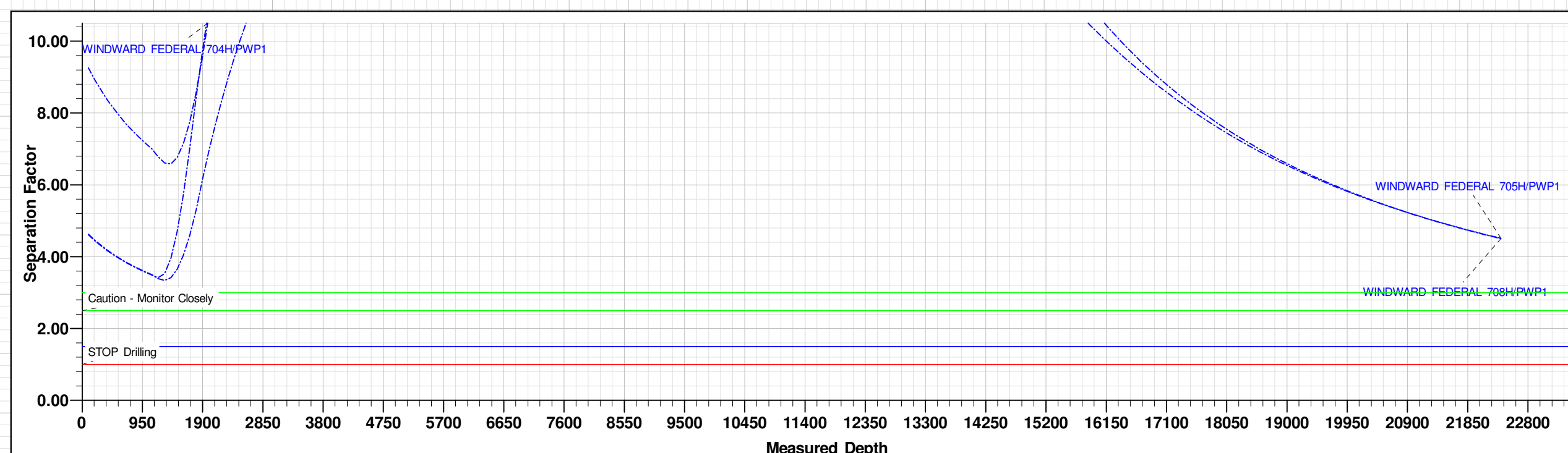
Project: LEA COUNTY SOUTHEAST
Site: WINDWARD FEDERAL PROJECT
Well: WINDWARD FEDERAL 706H
Wellbore: OWB
Design: PWP1
GL: 3541.4
KB=32 @ 3573.4usft

WELL DETAILS: WINDWARD FEDERAL 706H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	434666.60	689660.60	32° 11' 36.705 N	103° 43' 12.822 W

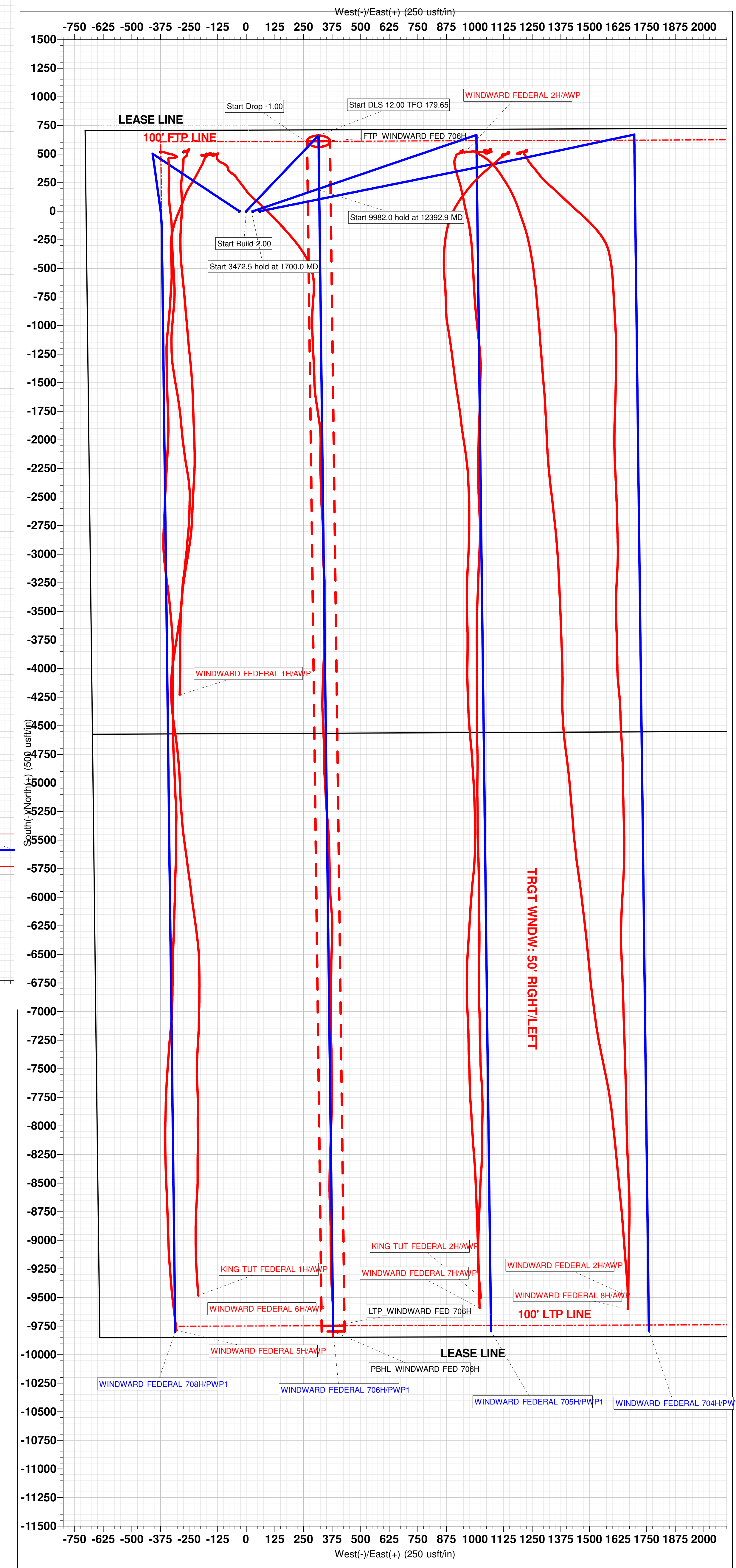
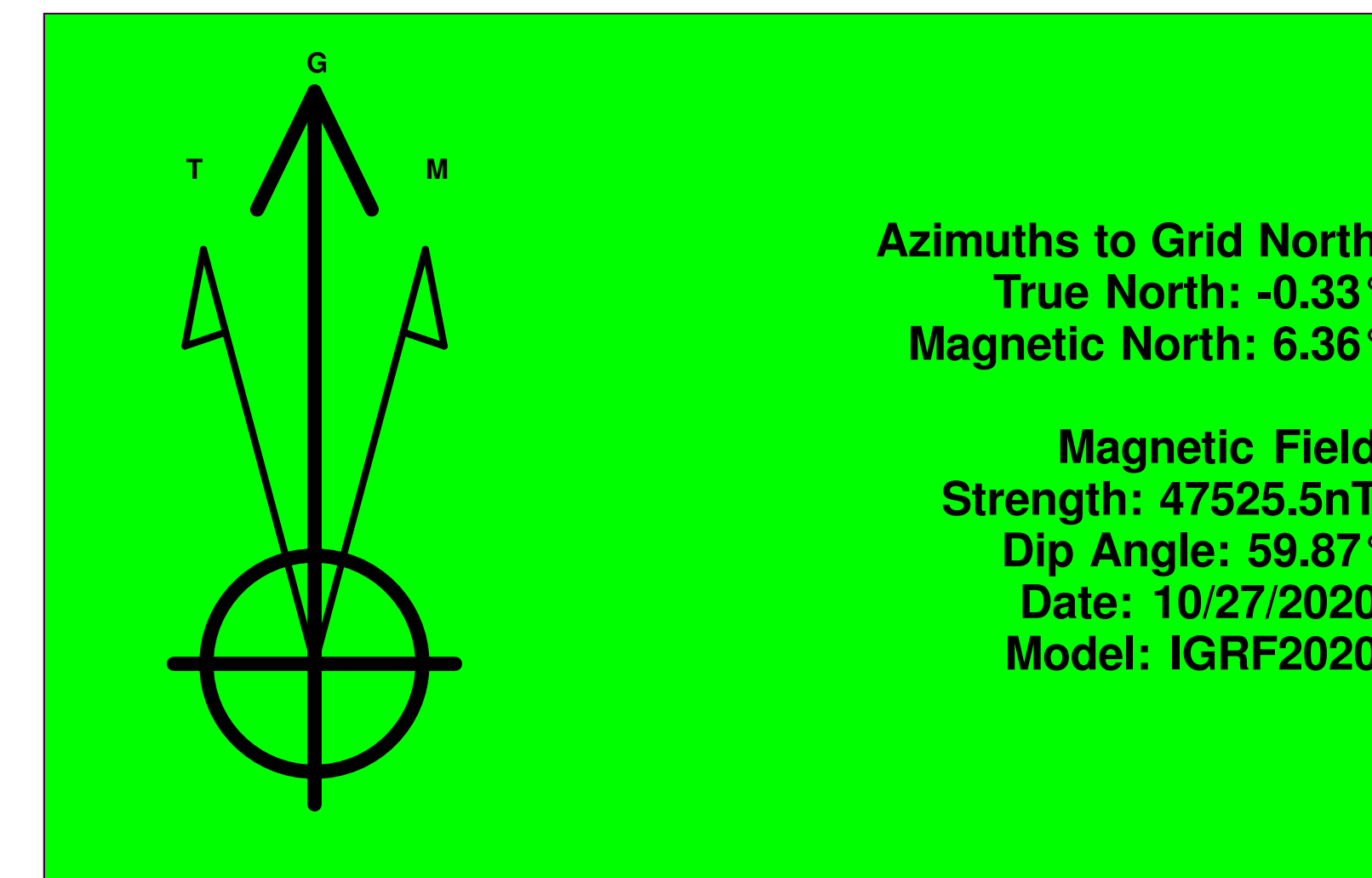
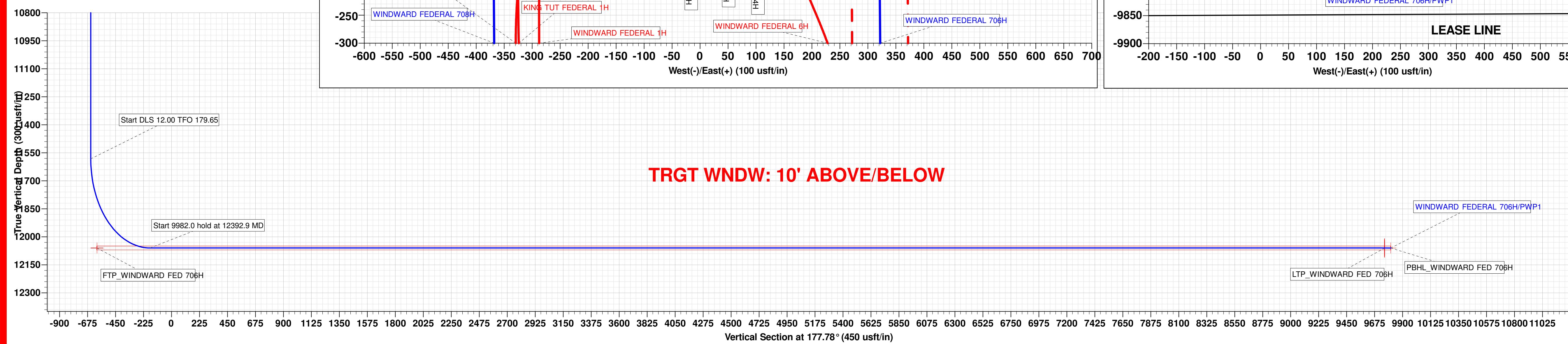
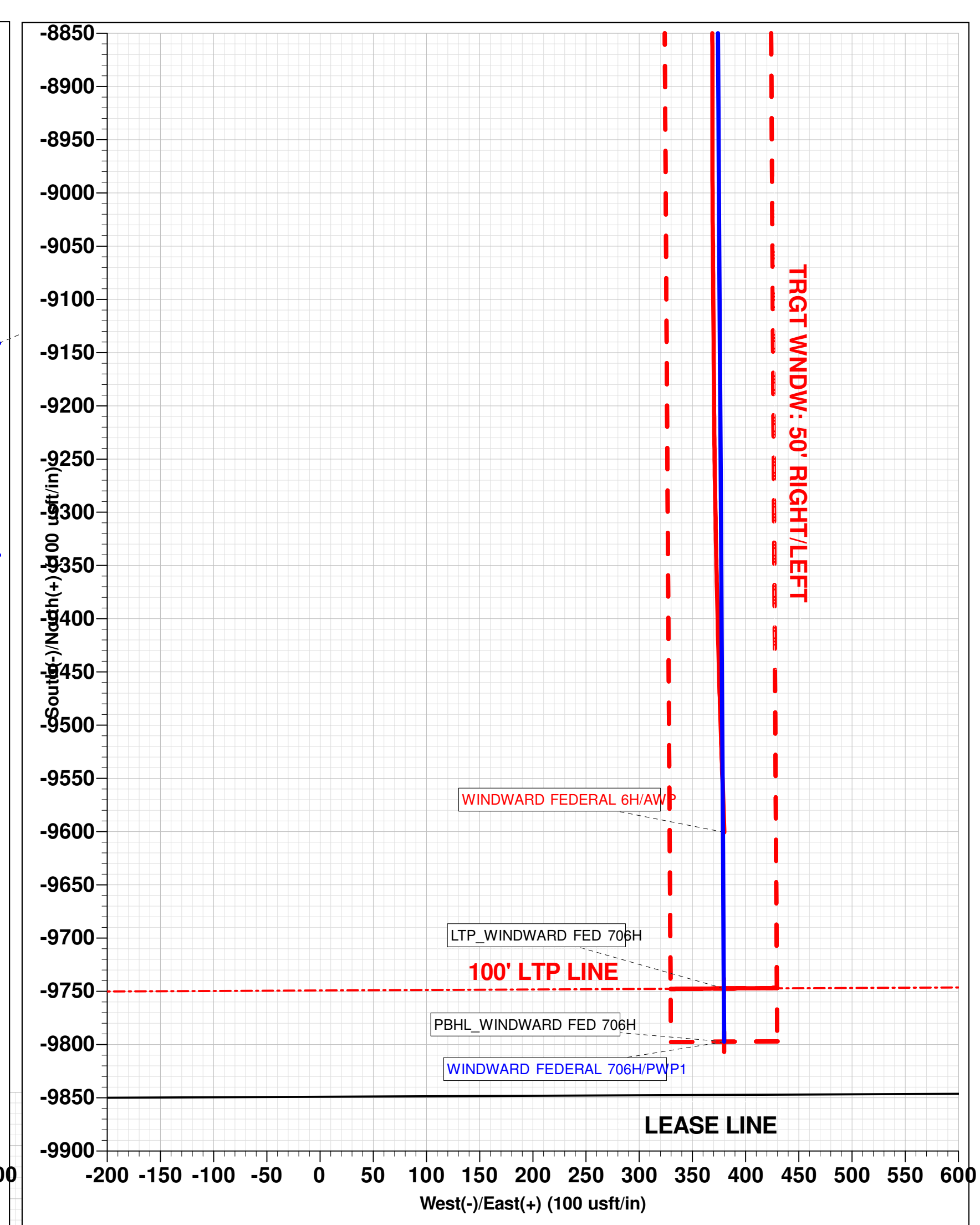
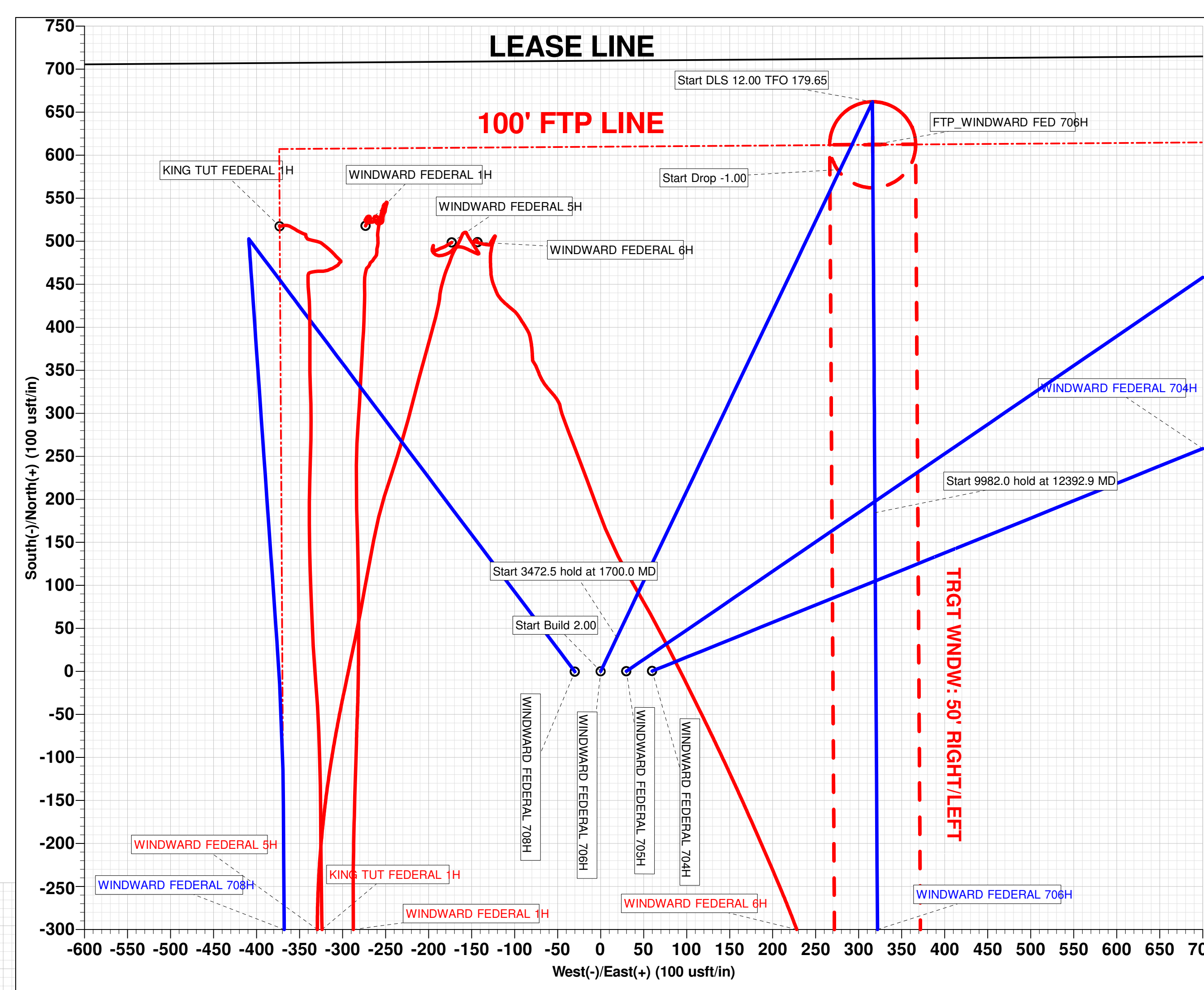
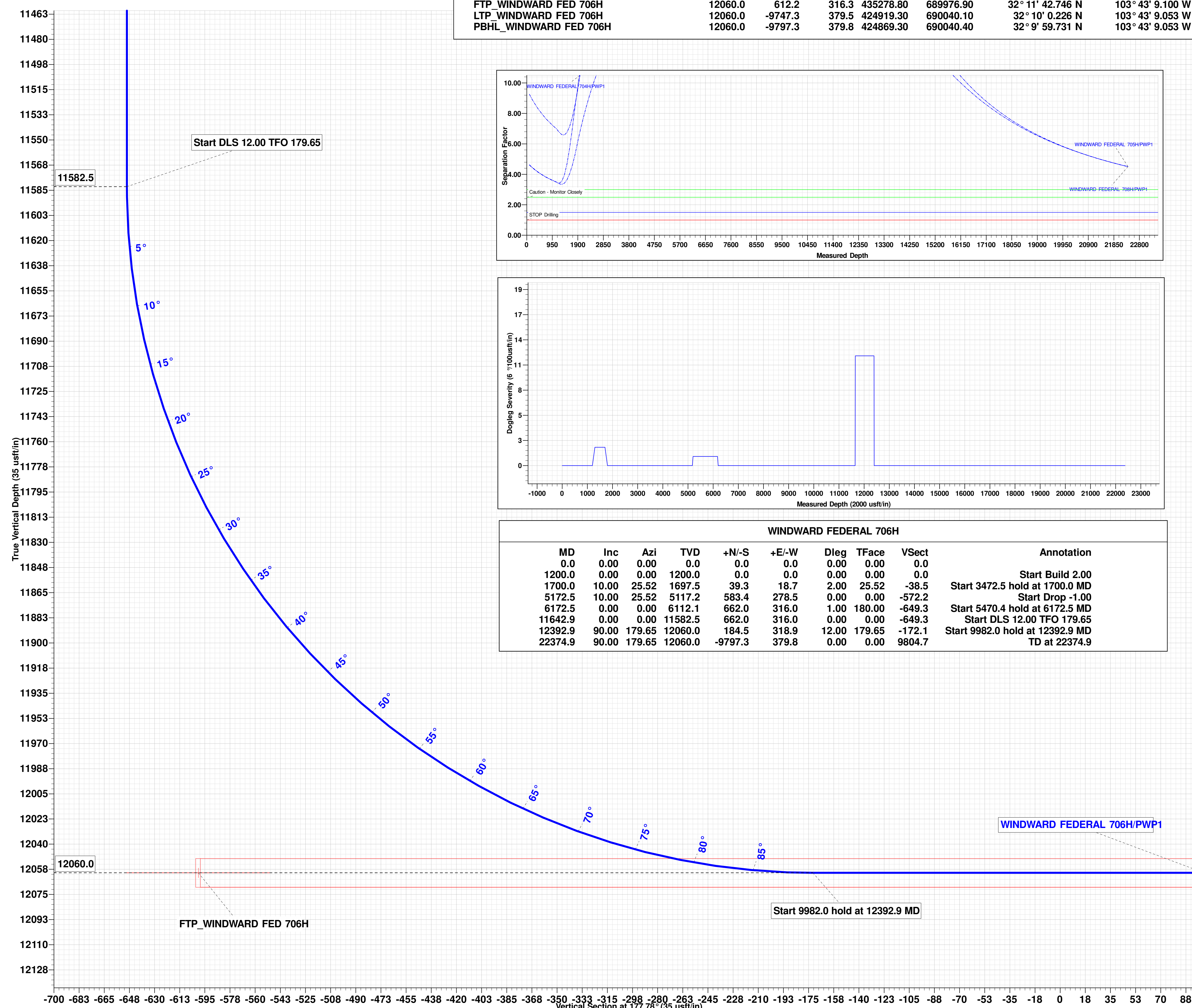
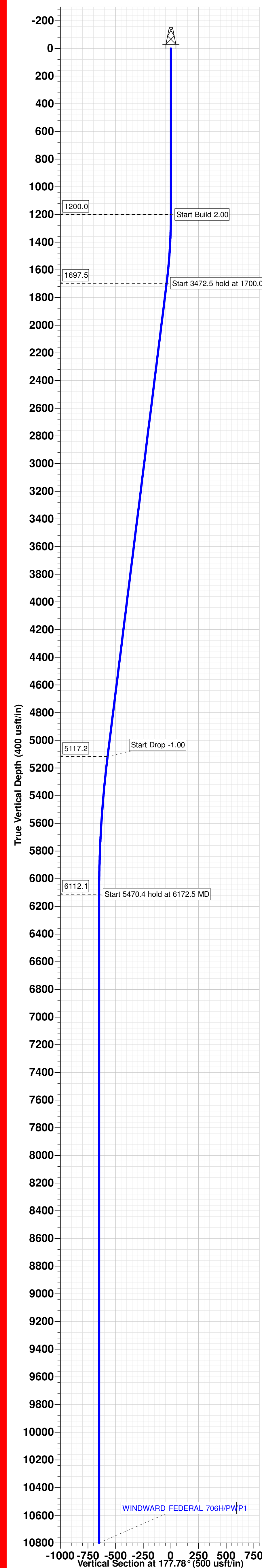
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
FTP_WINDWARD FED 706H	12060.0	612.2	316.3	435278.80	689976.90	32° 11' 42.746 N	103° 43' 9.100 W
LTP_WINDWARD FED 706H	12060.0	-9747.3	379.5	424919.30	690040.10	32° 10' 0.226 N	103° 43' 9.053 W
PBHL_WINDWARD FED 706H	12060.0	-9797.3	379.8	424869.30	690040.40	32° 9' 59.731 N	103° 43' 9.053 W



WINDWARD FEDERAL 706H

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
1700.0	10.00	25.52	1697.5	38.3	18.7	2.00	25.52	-38.5	Start 3472.5 hold at 1700.0 MD
5172.5	10.00	25.52	5172.2	583.4	278.5	0.00	0.00	-572.2	Start Drop -1.00
6172.5	0.00	0.00	6112.1	662.0	316.0	1.00	180.00	-649.3	Start 5470.4 hold at 6172.5 MD
11642.9	0.00	0.00	11582.5	662.0	316.0	0.00	0.00	-649.3	Start DLS 12.00 TFO 179.65
12392.9	90.00	179.65	12060.0	184.5	318.9	12.00	179.65	-172.1	Start 9982.0 hold at 12392.9 MD
22374.9	90.00	179.65	12060.0	-9797.3	379.8	0.00	0.00	9804.7	TD at 22374.9



TRGT WNDW: 10' ABOVE/BELOW



API BTC

Coupling	Pipe Body
Grade: J55 (Casing)	Grade: J55 (Casing)
Body: Bright Green	1st Band: Bright Green
1st Band: White	2nd Band: -
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	J55 (Casing)
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	Regular				

Pipe Body Data

Geometry			Performance		
Nominal OD	10.750 in.	Drift	9.794 in.	SMYS	55,000 psi
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft	Min UTS	75,000 psi
Nominal Weight	45.500 lb/ft	OD Tolerance	API	Body Yield Strength	715 x1000 lb
Nominal ID	9.950 in.			Min. Internal Yield Pressure	3580 psi
				Collapse Pressure	2090 psi
				Max. Allowed Bending	23 °/100 ft

Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	796 x1000 lb
Connection OD	11.750 in.	Coupling Face Load	628 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	3580 psi

Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.
For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.
Couplings OD are shown according to current API 5CT 10th Edition.
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TXP® BTC



Coupling	Pipe Body
Grade: L80-ICY	Grade: L80-ICY
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: Pale Green	3rd Band: Pale Green
3rd Band: -	4th Band: Pale Green
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	L80-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.	Body Yield Strength	726 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	7320 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	85,000 psi
Nominal ID	6.875 in.			Collapse Pressure	5900 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	8.500 in.	Tension Efficiency	100 %	Minimum	16,100 ft-lb
Coupling Length	10.575 in.	Joint Yield Strength	726 x1000 lb	Optimum	17,890 ft-lb
Connection ID	6.863 in.	Internal Pressure Capacity	7320 psi	Maximum	19,680 ft-lb
Make-up Loss	4.766 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	726 x1000 lb	Yield Torque	25,100 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	51 °/100 ft		
		External Pressure Capacity	5900 psi		

Notes

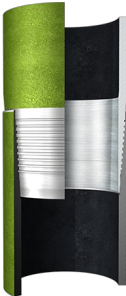
This connection is fully interchangeable with:
TXP® BTC - 7.625 in. - 0.328 / 0.43 / 0.5 / 0.562 / 0.595 / 0.625 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For the latest performance data, always visit our website: www.tenaris.com

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Wedge 513[®]



Coupling	Pipe Body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.625 in.	Wall Thickness	0.375 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	7.625 in.	Wall Thickness	0.375 in.	Body Yield Strength	1068 x1000 lb
Nominal Weight	29.70 lb/ft	Plain End Weight	29.06 lb/ft	Min. Internal Yield Pressure	11,070 psi
Drift	6.750 in.	OD Tolerance	API	SMYS	125,000 psi
Nominal ID	6.875 in.			Collapse Pressure	7360 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	7.625 in.	Tension Efficiency	60 %	Minimum	9000 ft-lb
Connection ID	6.800 in.	Joint Yield Strength	641 x1000 lb	Optimum	10,800 ft-lb
Make-up Loss	4.420 in.	Internal Pressure Capacity	11,070 psi	Maximum	15,800 ft-lb
Threads per inch	3.29	Compression Efficiency	75.20 %	Operation Limit Torques	
Connection OD Option	Regular	Compression Strength	803 x1000 lb	Operating Torque	53,000 ft-lb
		Max. Allowable Bending	45 °/100 ft	Yield Torque	79,000 ft-lb
		External Pressure Capacity	7360 psi		

Notes

This connection is fully interchangeable with:
Wedge 523[®] - 7.625 in. - 0.375 in.
Connections with Dopeless[®] Technology are fully compatible with the same connection in its Standard version

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TXP® BTC



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	6.200 in.	Tension Efficiency	100 %	Minimum	12,980 ft-lb
Coupling Length	9.450 in.	Joint Yield Strength	729 x1000 lb	Optimum	14,420 ft-lb
Connection ID	4.658 in.	Internal Pressure Capacity	14,530 psi	Maximum	15,860 ft-lb
Make-up Loss	4.204 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	5	Compression Strength	729 x1000 lb	Operating Torque	24,200 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	92 °/100 ft	Yield Torque	26,900 ft-lb
		External Pressure Capacity	14,540 psi		

Notes

This connection is fully interchangeable with:
TXP® BTC - 5.5 in. - 0.275 / 0.304 / 0.361 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Standard coupling design comes with optimized 20° bevel.

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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TenarisHydril Wedge 441®



Coupling	Pipe Body
Grade: P110-CY	Grade: P110-CY
Body: White	1st Band: White
1st Band: Grey	2nd Band: Grey
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.415 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Type	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry				Performance	
Nominal OD	5.500 in.	Wall Thickness	0.415 in.	Body Yield Strength	729 x1000 lb
Nominal Weight	23 lb/ft	Plain End Weight	22.56 lb/ft	Min. Internal Yield Pressure	14,530 psi
Drift	4.545 in.	OD Tolerance	API	SMYS	110,000 psi
Nominal ID	4.670 in.			Collapse Pressure	14,540 psi

Connection Data

Geometry		Performance		Make-Up Torques	
Connection OD	5.900 in.	Tension Efficiency	90.80 %	Minimum	15,000 ft-lb
Coupling Length	8.714 in.	Joint Yield Strength	662 x1000 lb	Optimum	16,000 ft-lb
Connection ID	4.670 in.	Internal Pressure Capacity	14,530 psi	Maximum	19,200 ft-lb
Make-up Loss	3.780 in.	Compression Efficiency	90.80 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	662 x1000 lb	Operating Torque	33,000 ft-lb
Connection OD Option	Regular	Max. Allowable Bending	82 °/100 ft	Yield Torque	39,000 ft-lb
		External Pressure Capacity	14,540 psi	Buck-On	
		Coupling Face Load	172,000 lb	Minimum	19,200 ft-lb
				Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

WINDWARD FEDERAL PROJECT

WINDWARD FEDERAL 706H

300255038400

OWB

PWP1

Anticollision Report

24 April, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference 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						
KING TUT FEDERAL 1H - OWB - AWP	22,374.9	18,083.0				Out of Range @TD
KING TUT FEDERAL 2H - OWB - AWP	22,374.9	18,142.0				Out of Range @TD
WINDWARD FEDERAL 1H - OWB - AWP	22,374.9	14,872.0				Out of Range @TD
WINDWARD FEDERAL 2H - OWB (PH) - AWP	22,374.9	11,220.0				Out of Range @TD
WINDWARD FEDERAL 2H - ST01 - AWP	22,374.9	20,401.0				Out of Range @TD
WINDWARD FEDERAL 5H - OWB - AWP	22,374.9	19,108.0				Out of Range @TD
WINDWARD FEDERAL 6H - OWB - AWP	22,374.9	18,873.4				Out of Range @TD
WINDWARD FEDERAL 704H - OWB - PWP1	22,374.9	22,534.6				Out of Range @TD
WINDWARD FEDERAL 705H - OWB - PWP1	22,374.9	22,516.6	694.1	540.2	4.510	
WINDWARD FEDERAL 708H - OWB - PWP1	22,374.9	22,286.2	694.1	540.0	4.505	
WINDWARD FEDERAL 7H - OWB - AWP	22,374.9	19,120.0				Out of Range @TD
WINDWARD FEDERAL 8H - OWB - AWP	22,374.9	19,115.0				Out of Range @TD

Offset Design: WINDWARD FEDERAL PROJECT - KING TUT FEDERAL 1H - OWB - AWP

Survey Program: 211-r.5 MWD							Rule Assigned:						Offset Well Error:		0.0 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)					
0.0	0.0	0.0	7.4	3.0	0.0	-35.81	517.3	-373.2	637.9						
100.0	100.0	94.9	102.3	3.0	1.0	-35.77	517.4	-372.8	637.7	632.7	4.96	128.588			
200.0	200.0	197.5	204.9	3.2	2.1	-35.65	517.7	-371.3	637.1	631.3	5.81	109.734			
300.0	300.0	294.0	301.4	3.3	2.6	-35.52	518.1	-369.8	636.6	630.3	6.30	100.967			
400.0	400.0	394.0	401.4	3.4	3.4	-35.46	518.4	-369.3	636.5	629.3	7.13	89.233			
500.0	500.0	495.9	503.3	3.5	4.3	-35.39	518.5	-368.4	636.1	627.9	8.21	77.477			
600.0	600.0	597.8	605.1	3.7	5.1	-35.30	518.6	-367.2	635.4	626.3	9.17	69.314			
700.0	700.0	699.6	707.0	3.8	5.8	-35.20	518.5	-365.7	634.5	624.5	9.94	63.840			
800.0	800.0	800.5	807.8	3.9	6.3	-35.07	518.2	-363.9	633.3	622.6	10.67	59.332			
900.0	900.0	899.4	906.7	4.0	6.8	-34.98	517.9	-362.3	632.1	620.8	11.32	55.837			
1,000.0	1,000.0	998.8	1,006.2	4.2	7.3	-34.92	517.5	-361.3	631.1	619.1	11.99	52.622			
1,100.0	1,100.0	1,101.1	1,108.4	4.3	7.9	-34.86	516.9	-360.1	630.0	617.2	12.76	49.357			
1,200.0	1,200.0	1,203.3	1,210.6	4.4	8.5	-34.80	516.0	-358.6	628.5	614.9	13.55	46.393			
1,300.0	1,300.0	1,303.3	1,310.5	4.6	8.9	-60.43	515.0	-357.0	625.9	611.8	14.05	44.541			
1,400.0	1,399.8	1,402.5	1,409.8	4.9	9.2	-60.86	514.1	-355.5	621.7	607.2	14.52	42.823			
1,500.0	1,499.5	1,501.5	1,508.7	5.2	9.5	-61.60	513.2	-354.1	615.9	600.9	15.06	40.903			
1,600.0	1,598.7	1,600.0	1,607.2	5.5	9.9	-62.66	512.4	-352.7	608.7	593.1	15.60	39.014			
1,700.0	1,697.5	1,698.3	1,705.5	5.8	10.2	-64.07	511.7	-351.4	600.2	584.1	16.13	37.211			
1,800.0	1,795.9	1,796.2	1,803.4	6.1	10.5	-65.50	511.1	-350.2	591.4	574.8	16.65	35.522			

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - KING TUT FEDERAL 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 211-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,900.0	1,894.4	1,894.1	1,901.3	6.4	11.2	-66.98	510.5	-349.1	583.1	565.5	17.66	33.024	
2,000.0	1,992.9	1,992.0	1,999.2	6.7	12.0	-68.49	509.9	-348.0	575.3	556.6	18.69	30.782	
2,100.0	2,091.4	2,089.9	2,097.1	7.0	12.7	-70.05	509.4	-347.0	568.0	548.3	19.72	28.798	
2,200.0	2,189.9	2,188.3	2,195.5	7.3	13.1	-71.66	509.0	-346.0	561.2	540.9	20.33	27.613	
2,300.0	2,288.4	2,287.0	2,294.2	7.7	13.3	-73.30	508.6	-345.0	554.9	534.2	20.72	26.774	
2,400.0	2,386.8	2,385.6	2,392.8	8.0	13.6	-74.97	508.2	-344.0	549.0	527.8	21.16	25.947	
2,500.0	2,485.3	2,484.3	2,491.5	8.4	13.9	-76.67	507.9	-342.9	543.6	522.0	21.60	25.168	
2,600.0	2,583.8	2,580.9	2,588.1	8.8	14.3	-78.39	507.4	-342.0	538.7	516.5	22.20	24.269	
2,700.0	2,682.3	2,677.1	2,684.2	9.2	14.7	-80.20	506.6	-341.9	534.9	512.1	22.82	23.440	
2,800.0	2,780.8	2,773.0	2,780.1	9.6	15.1	-82.11	505.5	-342.5	532.0	508.6	23.43	22.705	
2,900.0	2,879.2	2,875.0	2,882.2	10.0	15.5	-84.15	504.2	-343.1	529.7	505.6	24.10	21.980	
3,000.0	2,977.7	2,977.8	2,984.9	10.4	16.0	-86.14	503.3	-342.5	527.3	502.5	24.77	21.286	
3,100.0	3,076.2	3,080.7	3,087.9	10.8	16.4	-88.05	502.6	-340.8	524.6	499.1	25.44	20.620	
3,200.0	3,174.7	3,180.2	3,187.3	11.2	16.6	-89.90	502.0	-338.5	521.9	496.2	25.70	20.310	
3,300.0	3,273.2	3,278.7	3,285.7	11.6	16.7	-91.74	501.3	-336.2	519.7	493.7	26.01	19.980	
3,400.0	3,371.6	3,377.1	3,384.1	12.0	17.1	-93.59	500.6	-333.9	518.1	491.6	26.50	19.550	
3,500.0	3,470.1	3,475.6	3,482.6	12.4	17.4	-95.44	500.1	-331.6	517.0	490.0	27.04	19.119	
3,600.0	3,568.6	3,574.4	3,581.3	12.9	17.7	-97.29	499.7	-329.2	516.5	489.0	27.55	18.749	
3,671.1	3,638.6	3,645.1	3,652.1	13.2	17.9	-98.63	499.2	-327.4	516.4	488.6	27.84	18.550 CC	
3,700.0	3,667.1	3,673.9	3,680.8	13.3	18.0	-99.19	498.9	-326.7	516.4	488.5	27.96	18.472 ES	
3,800.0	3,765.6	3,771.8	3,778.6	13.7	18.1	-101.11	497.7	-324.4	516.8	488.5	28.33	18.246	
3,900.0	3,864.0	3,870.3	3,877.1	14.1	18.3	-103.08	496.1	-322.3	518.0	489.4	28.66	18.073	
4,000.0	3,962.5	3,968.7	3,975.5	14.6	18.5	-105.06	494.3	-320.1	519.7	490.7	29.01	17.913	
4,100.0	4,061.0	4,067.0	4,073.8	15.0	18.7	-107.01	492.5	-317.9	522.1	492.7	29.44	17.734	
4,200.0	4,159.5	4,165.6	4,172.4	15.4	19.0	-108.96	490.7	-315.7	525.1	495.1	29.91	17.553	
4,300.0	4,258.0	4,265.5	4,272.2	15.9	19.1	-110.93	488.6	-313.4	528.5	498.1	30.33	17.426	
4,400.0	4,356.4	4,362.1	4,368.8	16.3	19.3	-112.84	486.3	-311.0	532.4	501.7	30.71	17.335	
4,500.0	4,454.9	4,462.7	4,469.3	16.7	19.5	-114.83	483.7	-308.7	537.1	506.0	31.13	17.256	
4,600.0	4,553.4	4,560.7	4,567.2	17.2	19.7	-116.72	481.2	-306.3	542.3	510.7	31.60	17.164	
4,700.0	4,651.9	4,659.4	4,665.8	17.6	20.0	-118.59	478.6	-303.5	547.7	515.6	32.09	17.069 SF	
4,800.0	4,750.4	4,748.4	4,754.8	18.1	20.1	-120.19	476.9	-301.9	554.6	522.1	32.47	17.082	
4,900.0	4,848.9	4,836.0	4,842.4	18.5	20.2	-121.61	476.1	-302.0	563.9	531.2	32.74	17.226	
5,000.0	4,947.3	4,935.6	4,942.0	18.9	20.1	-123.15	475.4	-303.0	574.3	541.4	32.98	17.415	
5,100.0	5,045.8	5,035.5	5,041.9	19.4	20.1	-124.64	474.7	-303.7	584.9	551.6	33.27	17.582	
5,200.0	5,144.3	5,134.5	5,140.8	19.8	20.2	-126.08	474.0	-304.1	595.6	562.1	33.57	17.745	
5,300.0	5,243.0	5,232.5	5,238.9	20.2	20.2	-127.43	473.3	-304.6	605.9	572.1	33.89	17.879	
5,400.0	5,342.0	5,330.5	5,336.9	20.7	20.2	-128.60	472.6	-305.2	615.5	581.3	34.21	17.994	
5,500.0	5,441.2	5,427.6	5,434.0	21.1	20.2	-129.59	471.9	-306.0	624.5	590.0	34.50	18.102	
5,600.0	5,540.6	5,526.8	5,533.2	21.5	20.2	-130.44	471.3	-307.1	632.7	597.9	34.79	18.188	
5,700.0	5,640.2	5,626.3	5,632.7	21.9	20.2	-131.14	470.6	-308.1	639.8	604.7	35.06	18.247	
5,800.0	5,739.9	5,724.8	5,731.1	22.2	20.2	-131.70	470.0	-309.2	645.9	610.6	35.32	18.287	
5,900.0	5,839.7	5,826.1	5,832.5	22.6	20.2	-132.15	469.2	-310.4	651.1	615.5	35.57	18.301	
6,000.0	5,939.7	5,926.6	5,932.9	22.9	20.2	-132.45	468.7	-311.3	654.6	618.8	35.80	18.286	
6,100.0	6,039.6	6,027.3	6,033.6	23.2	20.1	-132.63	468.1	-312.2	657.1	621.1	35.99	18.257	
6,200.0	6,139.6	6,127.6	6,133.9	23.3	20.1	-107.14	468.0	-313.0	658.3	622.2	36.05	18.261	
6,300.0	6,239.6	6,223.8	6,230.1	23.3	20.1	-107.15	467.6	-314.0	659.4	623.3	36.06	18.286	
6,400.0	6,339.6	6,323.0	6,329.3	23.4	20.1	-107.15	467.1	-315.5	661.0	624.9	36.08	18.318	
6,500.0	6,439.6	6,423.5	6,429.8	23.4	20.1	-107.18	466.4	-316.9	662.5	626.4	36.12	18.341	
6,600.0	6,539.6	6,525.6	6,531.8	23.5	20.1	-107.18	465.9	-318.1	663.8	627.6	36.17	18.354	
6,700.0	6,639.6	6,624.9	6,631.2	23.5	20.0	-107.16	465.8	-319.4	665.0	628.8	36.20	18.372	
6,800.0	6,739.6	6,720.7	6,726.9	23.6	20.0	-107.15	465.5	-320.9	666.6	630.4	36.21	18.409	
6,900.0	6,839.6	6,821.3	6,827.5	23.6	20.0	-107.13	465.1	-322.8	668.5	632.3	36.25	18.440	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - KING TUT FEDERAL 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 211-r.5 MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	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)			
7,000.0	6,939.6	6,923.5	6,929.7	23.6	19.9	-107.08	465.2	-324.4	670.1	633.8	36.30	18.459	
7,100.0	7,039.6	7,022.4	7,028.6	23.7	19.9	-107.04	465.2	-326.2	671.8	635.4	36.34	18.487	
7,200.0	7,139.6	7,123.8	7,130.0	23.7	19.9	-107.01	465.1	-327.7	673.2	636.8	36.39	18.498	
7,300.0	7,239.6	7,222.0	7,228.1	23.8	19.8	-106.96	465.2	-329.4	674.8	638.4	36.43	18.524	
7,400.0	7,339.6	7,321.8	7,328.0	23.8	19.8	-106.94	464.9	-331.0	676.5	640.0	36.49	18.541	
7,500.0	7,439.6	7,420.0	7,426.1	23.9	19.8	-106.91	464.7	-332.9	678.4	641.8	36.54	18.567	
7,600.0	7,539.6	7,519.3	7,525.5	23.9	19.8	-106.89	464.3	-334.9	680.4	643.8	36.60	18.592	
7,700.0	7,639.6	7,619.3	7,625.4	24.0	19.8	-106.88	463.9	-337.0	682.5	645.8	36.67	18.614	
7,800.0	7,739.6	7,717.8	7,723.8	24.0	19.8	-106.90	463.0	-338.9	684.7	647.9	36.74	18.636	
7,900.0	7,839.6	7,815.4	7,821.4	24.1	20.0	-107.15	459.6	-340.2	686.9	650.1	36.89	18.623	
8,000.0	7,939.6	7,894.7	7,899.7	24.1	20.1	-108.13	447.2	-339.9	691.4	654.3	37.05	18.659	
8,100.0	8,039.6	7,968.6	7,970.8	24.2	20.3	-109.72	427.4	-338.5	698.7	661.4	37.29	18.737	
8,200.0	8,139.6	8,029.8	8,027.8	24.2	20.5	-111.45	405.0	-338.1	711.6	674.2	37.43	19.011	
8,300.0	8,239.6	8,089.1	8,080.7	24.3	20.6	-113.45	378.3	-337.9	730.3	692.7	37.56	19.444	
8,400.0	8,339.6	8,150.7	8,133.2	24.3	20.8	-115.78	346.2	-337.9	754.9	717.2	37.73	20.008	
8,500.0	8,439.6	8,210.0	8,180.9	24.3	20.9	-118.26	311.0	-336.8	785.1	747.2	37.87	20.729	
8,600.0	8,539.6	8,241.0	8,204.5	24.4	21.0	-119.63	290.9	-336.5	822.0	784.6	37.49	21.925	
8,700.0	8,639.6	8,273.0	8,227.7	24.4	21.1	-121.06	268.9	-336.8	866.3	829.1	37.14	23.327	
8,800.0	8,739.6	8,304.0	8,248.8	24.5	21.2	-122.47	246.1	-337.5	917.0	880.2	36.79	24.926	
8,900.0	8,839.6	8,336.0	8,269.2	24.5	21.3	-123.95	221.5	-338.2	973.4	936.8	36.51	26.659	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - KING TUT FEDERAL 2H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 7835-r.5 MWD												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)			
2,000.0	1,992.9	1,982.3	1,986.7	6.7	3.5	38.88	524.0	939.1	998.9	988.6	10.35	96.470	
2,100.0	2,091.4	2,094.2	2,098.5	7.0	3.5	39.54	525.0	938.6	985.4	974.7	10.68	92.311	
2,200.0	2,189.9	2,190.1	2,194.4	7.3	3.6	40.13	525.3	937.8	971.4	960.3	11.03	88.048	
2,300.0	2,288.4	2,287.5	2,291.8	7.7	3.6	40.80	525.0	937.5	957.7	946.3	11.40	83.993	
2,400.0	2,386.8	2,377.4	2,381.7	8.0	3.7	41.43	524.9	937.6	944.5	932.8	11.75	80.375	
2,500.0	2,485.3	2,473.4	2,477.7	8.4	3.7	42.10	525.3	938.2	932.3	920.2	12.08	77.183	
2,600.0	2,583.8	2,576.4	2,580.7	8.8	3.7	42.81	526.2	938.6	920.0	907.6	12.41	74.144	
2,700.0	2,682.3	2,681.1	2,685.4	9.2	3.7	43.53	527.2	938.2	907.3	894.5	12.76	71.127	
2,800.0	2,780.8	2,783.2	2,787.5	9.6	3.8	44.28	527.5	937.4	894.1	881.0	13.12	68.160	
2,900.0	2,879.2	2,878.6	2,882.8	10.0	3.8	45.06	527.0	937.0	881.0	867.5	13.48	65.351	
3,000.0	2,977.7	2,972.8	2,977.1	10.4	3.9	45.87	526.4	937.0	868.6	854.7	13.83	62.821	
3,100.0	3,076.2	3,069.2	3,073.4	10.8	3.9	46.72	525.9	937.4	856.7	842.5	14.15	60.548	
3,200.0	3,174.7	3,165.0	3,169.3	11.2	3.9	47.58	525.6	938.0	845.2	830.8	14.46	58.463	
3,300.0	3,273.2	3,260.7	3,265.0	11.6	3.9	48.43	525.8	938.7	834.3	819.6	14.76	56.536	
3,400.0	3,371.6	3,366.6	3,370.9	12.0	3.9	49.33	526.9	939.2	823.6	808.6	15.05	54.730	
3,500.0	3,470.1	3,469.9	3,474.2	12.4	4.0	50.23	527.7	938.6	811.9	796.6	15.35	52.895	
3,600.0	3,568.6	3,569.8	3,574.1	12.9	4.1	51.18	527.7	938.1	800.2	784.6	15.65	51.136	
3,700.0	3,667.1	3,665.3	3,669.5	13.3	4.1	52.16	527.1	937.6	788.8	772.8	15.94	49.497	
3,800.0	3,765.6	3,757.1	3,761.3	13.7	4.2	53.13	526.6	937.8	778.2	762.0	16.20	48.040	
3,900.0	3,864.0	3,854.3	3,858.5	14.1	4.2	54.12	527.0	938.5	768.6	752.2	16.43	46.769	
4,000.0	3,962.5	3,958.5	3,962.7	14.6	4.2	55.17	528.0	938.8	758.9	742.2	16.65	45.567	
4,100.0	4,061.0	4,059.2	4,063.4	15.0	4.3	56.24	528.3	938.4	748.7	731.8	16.88	44.364	
4,200.0	4,159.5	4,155.8	4,160.0	15.4	4.4	57.33	528.2	938.2	738.8	721.8	17.09	43.239	
4,300.0	4,258.0	4,251.0	4,255.2	15.9	4.4	58.46	527.8	938.4	729.7	712.4	17.27	42.252	
4,400.0	4,356.4	4,345.4	4,349.6	16.3	4.4	59.64	527.0	939.1	721.3	703.9	17.42	41.404	
4,500.0	4,454.9	4,442.9	4,447.1	16.7	4.5	60.90	526.1	940.3	713.7	696.2	17.54	40.690	
4,600.0	4,553.4	4,544.4	4,548.6	17.2	4.5	62.21	525.4	941.2	706.2	688.6	17.64	40.046	
4,700.0	4,651.9	4,644.0	4,648.2	17.6	4.6	63.51	525.0	941.7	698.8	681.0	17.72	39.427	
4,800.0	4,750.4	4,741.4	4,745.6	18.1	4.6	64.81	524.5	942.3	691.7	673.9	17.80	38.856	
4,900.0	4,848.9	4,837.5	4,841.8	18.5	4.7	66.12	523.9	943.1	685.2	667.4	17.87	38.352	
5,000.0	4,947.3	4,934.6	4,938.8	18.9	4.7	67.51	522.9	944.3	679.5	661.6	17.91	37.939	
5,100.0	5,045.8	5,034.1	5,038.2	19.4	4.8	68.95	521.8	945.4	674.2	656.3	17.94	37.588	
5,200.0	5,144.3	5,134.2	5,138.3	19.8	4.9	70.41	520.8	946.3	669.2	651.3	17.91	37.356	
5,300.0	5,243.0	5,234.6	5,238.8	20.2	4.9	71.72	520.2	947.0	664.6	646.7	17.94	37.038	
5,400.0	5,342.0	5,332.9	5,337.1	20.7	5.0	72.87	519.7	947.6	661.0	643.0	17.99	36.735	
5,500.0	5,441.2	5,433.9	5,438.0	21.1	5.1	73.94	519.2	948.2	657.9	639.9	18.05	36.455	
5,600.0	5,540.6	5,534.5	5,538.7	21.5	5.2	74.87	518.7	948.5	655.4	637.3	18.12	36.171	
5,700.0	5,640.2	5,634.2	5,638.3	21.9	5.3	75.64	518.4	948.7	653.3	635.1	18.21	35.881	
5,800.0	5,739.9	5,734.0	5,738.1	22.2	5.4	76.30	517.8	948.9	651.9	633.6	18.31	35.605	
5,900.0	5,839.7	5,835.6	5,839.7	22.6	5.5	76.80	517.5	948.9	650.7	632.2	18.42	35.327	
6,000.0	5,939.7	5,935.8	5,940.0	22.9	5.6	77.18	516.9	948.8	649.8	631.2	18.54	35.050	
6,100.0	6,039.6	6,036.6	6,040.7	23.2	5.7	77.42	516.3	948.5	649.2	630.5	18.67	34.775	
6,200.0	6,139.6	6,138.2	6,142.3	23.3	5.8	103.03	515.7	948.1	648.8	630.1	18.75	34.599	
6,300.0	6,239.6	6,239.7	6,243.9	23.3	5.9	103.09	515.2	947.4	648.3	629.4	18.87	34.351	
6,400.0	6,339.6	6,342.1	6,346.2	23.4	6.0	103.17	514.5	946.4	647.5	628.5	18.99	34.105	
6,500.0	6,439.6	6,444.1	6,448.2	23.4	6.1	103.26	513.8	945.0	646.2	627.1	19.10	33.834	
6,600.0	6,539.6	6,544.5	6,548.7	23.5	6.2	103.34	513.2	943.5	644.9	625.7	19.22	33.556	
6,700.0	6,639.6	6,646.0	6,650.2	23.5	6.2	103.44	512.5	941.7	643.4	624.1	19.34	33.272	
6,800.0	6,739.6	6,746.6	6,750.7	23.6	6.3	103.57	511.4	939.7	641.7	622.2	19.45	32.986	
6,900.0	6,839.6	6,846.6	6,850.7	23.6	6.4	103.72	510.2	937.6	640.0	620.4	19.57	32.702	
7,000.0	6,939.6	6,945.3	6,949.4	23.6	6.5	103.86	509.1	935.6	638.3	618.6	19.69	32.417	
7,100.0	7,039.6	7,043.6	7,047.6	23.7	6.6	104.00	507.9	934.0	637.0	617.1	19.81	32.147	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - KING TUT FEDERAL 2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 7835-r.5 MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,200.0	7,139.6	7,144.2	7,148.2	23.7	6.8	104.14	506.7	932.4	635.7	615.8	19.93	31.891		
7,300.0	7,239.6	7,246.2	7,250.1	23.8	6.9	104.32	505.2	930.4	634.2	614.2	20.05	31.631		
7,400.0	7,339.6	7,346.9	7,350.8	23.8	7.0	104.52	503.5	928.2	632.5	612.3	20.17	31.363		
7,500.0	7,439.6	7,446.0	7,449.9	23.9	7.1	104.70	501.9	926.0	630.7	610.5	20.29	31.093		
7,600.0	7,539.6	7,543.7	7,547.5	23.9	7.2	104.89	500.3	924.1	629.3	608.9	20.41	30.834		
7,700.0	7,639.6	7,641.9	7,645.7	24.0	7.3	105.07	498.7	922.6	628.2	607.7	20.53	30.597		
7,800.0	7,739.6	7,742.8	7,746.6	24.0	7.5	105.25	497.1	921.1	627.2	606.6	20.65	30.369		
7,900.0	7,839.6	7,841.3	7,845.0	24.1	7.7	105.59	493.8	918.9	626.0	605.2	20.76	30.151		
7,916.2	7,855.9	7,852.2	7,855.9	24.1	7.7	105.68	492.8	918.6	625.9	605.1	20.78	30.118	CC, ES, SF	
8,000.0	7,939.6	7,915.3	7,917.9	24.1	7.8	106.70	481.7	916.7	627.6	606.7	20.82	30.145		
8,100.0	8,039.6	8,002.5	8,000.7	24.2	7.9	109.16	455.1	911.5	631.6	610.9	20.77	30.417		
8,200.0	8,139.6	8,055.0	8,049.1	24.2	8.0	110.94	434.9	909.7	642.1	621.1	20.97	30.622		
8,300.0	8,239.6	8,086.0	8,076.5	24.3	8.1	112.14	420.4	909.8	661.5	640.1	21.42	30.877		
8,400.0	8,339.6	8,132.9	8,116.1	24.3	8.2	114.11	395.4	911.6	689.8	667.9	21.90	31.503		
8,500.0	8,439.6	8,180.0	8,153.6	24.3	8.3	116.23	367.1	914.7	726.1	703.6	22.45	32.335		
8,600.0	8,539.6	8,211.0	8,177.3	24.4	8.3	117.62	347.3	917.4	769.4	746.2	23.18	33.197		
8,700.0	8,639.6	8,257.8	8,211.6	24.4	8.4	119.73	315.9	922.2	818.8	795.0	23.82	34.369		
8,800.0	8,739.6	8,294.6	8,237.3	24.5	8.5	121.39	289.7	926.2	873.7	849.2	24.53	35.611		
8,900.0	8,839.6	8,324.1	8,256.7	24.5	8.6	122.72	267.8	929.6	933.7	908.4	25.27	36.952		
9,000.0	8,939.6	8,351.3	8,273.5	24.6	8.7	123.95	246.7	932.9	998.4	972.4	25.98	38.428		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 1H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 239-r.5 MWD, 761-r.5 MWD, 4644-r.5 MWD, 9817-r.5 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 +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	8.4	3.0	2.0	-27.81	518.0	-273.2	585.7				
100.0	100.0	89.6	98.0	3.0	2.3	-27.79	518.2	-273.1	585.8	580.0	5.79	101.188	
200.0	200.0	187.4	195.8	3.2	3.1	-27.73	519.0	-272.8	586.3	579.7	6.62	88.520	
300.0	300.0	289.7	298.1	3.3	3.6	-27.64	520.1	-272.3	587.1	579.7	7.31	80.276	
400.0	400.0	389.5	397.9	3.4	3.8	-27.55	520.7	-271.7	587.3	579.7	7.60	77.235	
500.0	500.0	489.7	498.1	3.5	4.4	-27.47	521.4	-271.0	587.6	579.3	8.30	70.823	
600.0	600.0	589.9	598.2	3.7	5.5	-27.38	522.1	-270.4	588.0	578.4	9.59	61.321	
700.0	700.0	690.0	698.4	3.8	6.6	-27.29	522.8	-269.7	588.2	577.3	10.97	53.599	
800.0	800.0	791.7	800.1	3.9	7.0	-27.19	523.4	-268.8	588.4	576.8	11.55	50.942	
833.7	833.7	825.4	833.7	4.0	7.0	-27.17	523.5	-268.7	588.4	576.8	11.60	50.726	
900.0	900.0	886.7	895.0	4.0	7.1	-27.13	523.9	-268.5	588.7	577.0	11.69	50.354	
1,000.0	1,000.0	988.0	996.4	4.2	7.1	-27.11	524.7	-268.6	589.5	577.6	11.84	49.793	
1,100.0	1,100.0	1,091.1	1,099.4	4.3	7.2	-27.17	524.7	-269.4	589.8	577.8	12.02	49.050	
1,200.0	1,200.0	1,198.4	1,206.7	4.4	7.3	-27.32	523.6	-270.5	589.4	577.2	12.17	48.408	
1,300.0	1,300.0	1,299.3	1,307.6	4.6	7.4	-53.05	522.3	-270.3	587.0	574.7	12.39	47.399	
1,400.0	1,399.8	1,394.8	1,403.1	4.9	7.4	-53.43	521.7	-269.1	582.9	570.2	12.65	46.094	
1,500.0	1,499.5	1,484.4	1,492.7	5.2	7.5	-53.99	522.7	-268.0	578.1	565.1	12.92	44.733	
1,600.0	1,598.7	1,580.5	1,588.8	5.5	7.6	-54.94	524.4	-267.8	572.4	559.2	13.18	43.431	
1,700.0	1,697.5	1,678.2	1,686.5	5.8	7.7	-56.37	525.8	-269.1	565.4	552.0	13.44	42.064	
1,800.0	1,795.9	1,782.4	1,790.6	6.1	7.8	-58.10	526.3	-271.3	557.4	543.7	13.69	40.721	
1,900.0	1,894.4	1,887.7	1,895.9	6.4	7.9	-59.94	525.4	-273.2	548.7	534.8	13.92	39.404	
2,000.0	1,992.9	1,991.2	1,999.4	6.7	8.0	-61.72	524.1	-273.7	539.4	525.2	14.15	38.130	
2,100.0	2,091.4	2,092.0	2,100.3	7.0	8.1	-63.37	523.0	-272.6	529.7	515.4	14.36	36.883	
2,200.0	2,189.9	2,188.2	2,196.3	7.3	8.1	-64.83	522.9	-270.3	520.4	505.9	14.58	35.688	
2,300.0	2,288.4	2,280.3	2,288.5	7.7	8.2	-66.23	523.6	-268.4	512.5	497.7	14.80	34.633	
2,400.0	2,386.8	2,372.8	2,380.9	8.0	8.3	-67.68	525.4	-267.3	506.2	491.2	15.01	33.734	
2,500.0	2,485.3	2,468.5	2,476.6	8.4	8.4	-69.33	527.1	-267.6	501.3	486.1	15.21	32.959	
2,600.0	2,583.8	2,568.1	2,576.2	8.8	8.6	-71.15	528.6	-268.5	497.1	481.5	15.56	31.949	
2,700.0	2,682.3	2,668.7	2,676.7	9.2	8.9	-73.14	529.1	-269.9	493.0	477.0	15.98	30.862	
2,800.0	2,780.8	2,771.3	2,779.4	9.6	9.0	-75.32	528.5	-271.4	489.0	472.8	16.22	30.156	
2,900.0	2,879.2	2,875.1	2,883.1	10.0	9.1	-77.61	526.8	-272.5	484.6	468.2	16.38	29.583	
3,000.0	2,977.7	2,981.1	2,989.1	10.4	9.1	-79.94	524.6	-272.1	479.6	463.1	16.54	29.004	
3,100.0	3,076.2	3,080.5	3,088.5	10.8	9.2	-82.03	522.9	-270.2	474.3	457.6	16.69	28.414	
3,200.0	3,174.7	3,176.7	3,184.7	11.2	9.3	-84.00	522.0	-268.1	469.8	452.9	16.87	27.842	
3,300.0	3,273.2	3,272.7	3,280.6	11.6	9.5	-85.91	522.0	-266.1	466.3	449.2	17.19	27.137	
3,400.0	3,371.6	3,370.1	3,378.0	12.0	9.6	-87.79	522.7	-264.1	463.9	446.5	17.46	26.566	
3,500.0	3,470.1	3,468.8	3,476.6	12.4	9.7	-89.66	524.1	-262.2	462.5	444.8	17.69	26.140	
3,600.0	3,568.6	3,573.9	3,581.8	12.9	10.0	-91.72	524.4	-258.7	459.7	441.7	18.02	25.515	
3,670.3	3,637.9	3,634.1	3,641.9	13.2	10.3	-92.92	524.7	-257.3	458.9	440.5	18.35	25.011 CC, ES	
3,700.0	3,667.1	3,659.5	3,667.3	13.3	10.4	-93.42	525.0	-257.1	459.0	440.5	18.49	24.832	
3,800.0	3,765.6	3,747.1	3,754.9	13.7	10.8	-95.14	526.7	-257.7	461.7	442.8	18.91	24.417	
3,900.0	3,864.0	3,844.6	3,852.4	14.1	10.9	-97.10	528.5	-259.7	466.1	446.9	19.16	24.332	
4,000.0	3,962.5	3,947.1	3,954.8	14.6	10.9	-99.24	529.2	-261.7	470.7	451.3	19.45	24.204	
4,100.0	4,061.0	4,051.2	4,058.9	15.0	10.9	-101.58	528.0	-263.2	475.0	455.2	19.80	23.997	
4,200.0	4,159.5	4,157.6	4,165.3	15.4	11.0	-104.04	525.6	-263.4	478.6	458.4	20.19	23.702	
4,300.0	4,258.0	4,260.6	4,268.2	15.9	11.1	-106.38	522.9	-261.9	481.3	460.7	20.62	23.345	
4,400.0	4,356.4	4,358.9	4,366.5	16.3	11.1	-108.50	521.0	-260.0	484.4	463.3	21.07	22.988	
4,500.0	4,454.9	4,457.3	4,464.9	16.7	11.2	-110.50	519.9	-258.1	488.2	466.7	21.56	22.650	
4,600.0	4,553.4	4,554.5	4,562.1	17.2	11.3	-112.25	520.5	-256.2	492.7	470.6	22.10	22.298	
4,700.0	4,651.9	4,650.8	4,658.4	17.6	11.5	-113.95	521.3	-254.7	498.0	475.4	22.67	21.971	
4,800.0	4,750.4	4,746.5	4,754.0	18.1	11.5	-115.55	522.3	-253.7	504.4	481.2	23.17	21.770	
4,900.0	4,848.9	4,843.8	4,851.3	18.5	11.6	-117.11	523.8	-253.1	511.5	487.9	23.69	21.590	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 239-r.5 MWD, 761-r.5 MWD, 4644-r.5 MWD, 9817-r.5 MWD												Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,947.3	4,939.2	4,946.6	18.9	11.7	-118.53	525.6	-253.1	519.7	495.4	24.22	21.457	
5,100.0	5,045.8	5,040.6	5,048.0	19.4	11.7	-119.98	527.8	-253.1	528.1	503.3	24.78	21.310	
5,200.0	5,144.3	5,140.7	5,148.2	19.8	11.8	-121.40	529.8	-252.8	536.4	511.1	25.33	21.176	
5,300.0	5,243.0	5,241.0	5,248.4	20.2	11.9	-122.73	531.7	-252.1	544.1	518.2	25.91	21.001	
5,400.0	5,342.0	5,340.1	5,347.5	20.7	12.0	-123.89	533.2	-251.3	551.0	524.6	26.46	20.821	
5,500.0	5,441.2	5,437.7	5,445.1	21.1	12.1	-124.87	534.5	-250.6	557.3	530.3	26.99	20.647	
5,600.0	5,540.6	5,535.1	5,542.5	21.5	12.2	-125.65	536.0	-250.4	563.1	535.6	27.47	20.498	
5,700.0	5,640.2	5,636.2	5,643.6	21.9	12.3	-126.31	537.4	-250.3	568.1	540.1	27.93	20.336	
5,800.0	5,739.9	5,737.2	5,744.6	22.2	12.4	-126.77	539.2	-249.8	571.7	543.3	28.36	20.159	
5,900.0	5,839.7	5,836.8	5,844.2	22.6	12.5	-127.07	541.0	-249.4	574.3	545.5	28.73	19.987	
6,000.0	5,939.7	5,936.7	5,944.1	22.9	12.6	-127.24	542.6	-248.9	575.8	546.8	29.07	19.811	
6,100.0	6,039.6	6,034.9	6,042.2	23.2	12.7	-127.30	543.9	-248.5	576.5	547.1	29.34	19.648	
6,200.0	6,139.6	6,133.4	6,140.7	23.3	12.8	-101.74	544.7	-248.4	576.5	547.0	29.47	19.562	
6,236.3	6,176.0	6,168.6	6,176.0	23.3	12.8	-101.72	544.9	-248.4	576.4	546.9	29.50	19.539	
6,300.0	6,239.6	6,229.6	6,236.9	23.3	12.9	-101.70	545.1	-248.6	576.6	547.0	29.55	19.513	
6,400.0	6,339.6	6,331.6	6,339.0	23.4	12.9	-101.67	545.3	-249.0	576.9	547.3	29.65	19.459	
6,500.0	6,439.6	6,432.2	6,439.5	23.4	13.0	-101.68	545.2	-249.0	577.0	547.2	29.76	19.389	
6,600.0	6,539.6	6,531.1	6,538.4	23.5	13.0	-101.71	544.9	-249.1	577.1	547.2	29.85	19.330	
6,700.0	6,639.6	6,627.2	6,634.5	23.5	13.0	-101.75	544.4	-249.5	577.7	547.7	29.93	19.298	
6,800.0	6,739.6	6,726.6	6,733.9	23.6	13.0	-101.81	543.5	-250.4	578.7	548.6	30.03	19.269	
6,900.0	6,839.6	6,830.7	6,838.0	23.6	13.0	-101.84	543.2	-250.8	579.2	549.0	30.15	19.208	
7,000.0	6,939.6	6,927.8	6,935.1	23.6	13.0	-101.84	543.1	-251.4	579.8	549.6	30.23	19.179	
7,100.0	7,039.6	7,029.2	7,036.5	23.7	13.0	-101.90	542.3	-251.9	580.4	550.1	30.35	19.125	
7,200.0	7,139.6	7,129.3	7,136.6	23.7	13.0	-101.96	541.6	-252.3	580.9	550.5	30.46	19.072	
7,300.0	7,239.6	7,230.4	7,237.7	23.8	13.0	-102.03	540.8	-252.6	581.4	550.8	30.58	19.011	
7,400.0	7,339.6	7,328.7	7,336.0	23.8	13.0	-102.14	539.7	-252.7	581.7	551.0	30.70	18.946	
7,500.0	7,439.6	7,425.3	7,432.5	23.9	13.1	-102.28	538.1	-253.4	582.7	551.9	30.82	18.909	
7,600.0	7,539.6	7,525.4	7,532.6	23.9	13.1	-102.49	535.7	-254.1	584.0	553.0	30.97	18.857	
7,700.0	7,639.6	7,625.6	7,632.8	24.0	13.1	-102.73	533.1	-254.7	585.2	554.0	31.13	18.798	
7,800.0	7,739.6	7,724.8	7,732.0	24.0	13.1	-102.98	530.3	-255.3	586.4	555.1	31.29	18.740	
7,900.0	7,839.6	7,826.9	7,834.0	24.1	13.2	-103.24	527.4	-255.9	587.6	556.1	31.47	18.673	
8,000.0	7,939.6	7,926.5	7,933.5	24.1	13.2	-103.46	525.0	-256.3	588.5	556.9	31.62	18.610	
8,100.0	8,039.6	8,024.7	8,031.8	24.2	13.3	-103.68	522.6	-256.9	589.7	557.9	31.77	18.560	
8,200.0	8,139.6	8,126.7	8,133.7	24.2	13.3	-103.90	520.1	-257.6	590.9	558.9	31.94	18.498	
8,300.0	8,239.6	8,223.6	8,230.5	24.3	13.4	-104.18	517.0	-258.1	592.2	560.1	32.10	18.445	
8,400.0	8,339.6	8,323.9	8,330.8	24.3	13.5	-104.54	513.0	-258.6	593.7	561.4	32.30	18.380	
8,500.0	8,439.6	8,425.2	8,432.0	24.3	13.5	-104.88	509.2	-259.1	595.1	562.6	32.50	18.311	
8,600.0	8,539.6	8,530.3	8,537.0	24.4	13.6	-105.15	506.3	-259.2	595.9	563.2	32.70	18.223	
8,700.0	8,639.6	8,628.5	8,635.2	24.4	13.6	-105.43	503.4	-258.9	596.4	563.5	32.87	18.146	
8,800.0	8,739.6	8,728.0	8,734.7	24.5	13.7	-105.71	500.3	-259.0	597.4	564.3	33.04	18.079	
8,900.0	8,839.6	8,825.6	8,832.2	24.5	13.8	-106.06	496.6	-258.6	598.0	564.8	33.23	17.995	
9,000.0	8,939.6	8,920.3	8,926.8	24.6	13.9	-106.36	493.0	-259.8	600.2	566.8	33.40	17.971	
9,100.0	9,039.6	9,026.7	9,033.2	24.6	14.0	-106.70	489.2	-260.1	601.5	567.9	33.63	17.887	
9,200.0	9,139.6	9,122.9	9,129.3	24.7	14.0	-107.03	485.5	-260.3	602.8	569.0	33.81	17.831	
9,300.0	9,239.6	9,221.8	9,228.2	24.7	14.1	-107.30	482.2	-261.3	604.8	570.8	33.99	17.791	
9,400.0	9,339.6	9,321.6	9,327.9	24.8	14.3	-107.35	481.2	-262.9	606.6	572.4	34.16	17.756	
9,500.0	9,439.6	9,414.5	9,420.7	24.8	14.4	-107.57	478.3	-264.3	609.0	574.7	34.33	17.740	
9,600.0	9,539.6	9,512.5	9,518.7	24.9	14.5	-107.72	475.7	-267.0	612.5	578.0	34.50	17.750	
9,700.0	9,639.6	9,630.7	9,636.9	24.9	14.6	-107.96	472.4	-268.8	614.8	580.0	34.80	17.666	
9,800.0	9,739.6	9,716.7	9,722.8	25.0	14.7	-108.09	470.7	-269.6	616.3	581.4	34.90	17.656 SF	
9,900.0	9,839.6	9,813.2	9,819.3	25.0	14.9	-108.22	468.4	-271.9	619.3	584.2	35.06	17.665	
10,000.0	9,939.6	9,888.7	9,894.3	25.1	14.9	-108.77	461.6	-273.7	624.5	589.3	35.17	17.757	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 1H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 239-r.5 MWD, 761-r.5 MWD, 4644-r.5 MWD, 9817-r.5 MWD													Offset Well Error:	2.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,039.6	9,983.2	9,987.1	25.1	14.9	-110.31	443.6	-274.4	631.7	596.1	35.57	17.760		
10,200.0	10,139.6	10,051.3	10,052.4	25.2	15.0	-111.91	424.5	-274.6	642.5	606.6	35.89	17.903		
10,300.0	10,239.6	10,117.0	10,113.7	25.2	15.0	-113.83	400.9	-275.4	658.6	622.3	36.29	18.151		
10,400.0	10,339.6	10,175.1	10,165.9	25.3	15.1	-115.79	375.5	-276.9	681.0	644.3	36.69	18.560		
10,500.0	10,439.6	10,224.0	10,208.0	25.3	15.2	-117.64	350.7	-278.4	709.8	672.7	37.09	19.138		
10,600.0	10,539.6	10,256.0	10,234.1	25.4	15.2	-118.98	332.2	-279.3	746.0	708.5	37.43	19.931		
10,700.0	10,639.6	10,287.0	10,257.7	25.4	15.3	-120.39	312.2	-280.4	789.9	752.1	37.84	20.875		
10,800.0	10,739.6	10,318.0	10,279.3	25.5	15.4	-121.90	290.0	-281.8	841.3	802.9	38.31	21.960		
10,900.0	10,839.6	10,350.0	10,299.3	25.6	15.4	-123.52	265.1	-283.2	899.2	860.4	38.81	23.166		
11,000.0	10,939.6	10,366.5	10,308.8	25.6	15.5	-124.39	251.6	-283.7	962.3	923.0	39.27	24.506		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design:		WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 2H - OWB (PH) - AWP										Offset Site Error:		0.0 usft		
Survey Program:		100- VES GyroFlex		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:		3.0 usft
Measured Depth	Reference	Measured Depth	Vertical	Reference	Offset	Highside				Distance						
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
3,000.0	2,977.7	2,977.0	2,975.9	10.4	4.0	48.71	520.8	1,072.2	995.7	982.2	13.55	73.471				
3,100.0	3,076.2	3,081.5	3,080.4	10.8	4.0	49.42	522.2	1,071.5	984.0	970.1	13.88	70.917				
3,200.0	3,174.7	3,182.7	3,181.6	11.2	3.9	50.10	523.9	1,070.5	972.1	957.9	14.19	68.494				
3,300.0	3,273.2	3,277.2	3,276.1	11.6	3.9	50.74	525.6	1,069.5	960.4	945.9	14.51	66.171				
3,400.0	3,371.6	3,377.3	3,376.1	12.0	4.0	51.44	527.4	1,068.7	949.1	934.2	14.82	64.029				
3,500.0	3,470.1	3,474.8	3,473.6	12.4	4.0	52.12	529.5	1,067.8	937.8	922.6	15.13	61.983				
3,600.0	3,568.6	3,572.0	3,570.7	12.9	4.0	52.81	531.5	1,067.0	926.8	911.4	15.43	60.066				
3,700.0	3,667.1	3,671.0	3,669.7	13.3	4.0	53.53	533.7	1,066.3	916.0	900.3	15.72	58.279				
3,800.0	3,765.6	3,769.0	3,767.7	13.7	4.1	54.25	536.1	1,065.6	905.4	889.4	16.00	56.577				
3,900.0	3,864.0	3,866.3	3,865.0	14.1	4.1	54.96	538.7	1,064.9	895.1	878.8	16.28	54.974				
4,000.0	3,962.5	3,961.7	3,960.4	14.6	4.2	55.70	540.8	1,064.6	885.1	868.6	16.55	53.475				
4,100.0	4,061.0	4,058.0	4,056.6	15.0	4.2	56.54	541.8	1,064.9	875.8	859.0	16.80	52.118				
4,200.0	4,159.5	4,154.5	4,153.2	15.4	4.3	57.42	542.6	1,065.3	866.8	849.7	17.04	50.858				
4,300.0	4,258.0	4,251.7	4,250.4	15.9	4.4	58.34	543.3	1,066.1	858.3	841.0	17.27	49.700				
4,400.0	4,356.4	4,348.6	4,347.3	16.3	4.5	59.34	542.9	1,067.0	850.2	832.7	17.48	48.650				
4,500.0	4,454.9	4,447.8	4,446.4	16.7	4.5	60.42	542.0	1,068.3	842.5	824.9	17.65	47.726				
4,600.0	4,553.4	4,549.3	4,547.9	17.2	4.6	61.54	541.1	1,069.1	834.8	817.0	17.81	46.865				
4,700.0	4,651.9	4,649.6	4,648.2	17.6	4.7	62.64	540.6	1,069.7	827.1	809.2	17.96	46.043				
4,800.0	4,750.4	4,749.5	4,748.1	18.1	4.7	63.75	540.2	1,070.0	819.5	801.4	18.10	45.273				
4,900.0	4,848.9	4,849.1	4,847.6	18.5	4.8	64.91	539.3	1,070.3	812.2	793.9	18.21	44.588				
5,000.0	4,947.3	4,949.9	4,948.4	18.9	4.8	66.11	538.4	1,070.3	804.9	786.6	18.30	43.982				
5,100.0	5,045.8	5,051.4	5,050.0	19.4	4.9	67.32	537.6	1,069.9	797.6	779.2	18.37	43.430				
5,200.0	5,144.3	5,150.5	5,149.1	19.8	4.9	68.50	537.0	1,069.3	790.4	772.0	18.38	42.995				
5,300.0	5,243.0	5,250.2	5,248.8	20.2	4.9	69.57	536.5	1,068.7	784.0	765.5	18.44	42.516				
5,400.0	5,342.0	5,350.2	5,348.8	20.7	4.9	70.54	536.1	1,067.7	778.2	759.7	18.50	42.065				
5,500.0	5,441.2	5,449.6	5,448.1	21.1	5.0	71.40	535.7	1,066.8	773.2	754.6	18.57	41.641				
5,600.0	5,540.6	5,548.7	5,547.2	21.5	5.0	72.20	534.7	1,065.8	768.8	750.2	18.64	41.239				
5,700.0	5,640.2	5,649.6	5,648.1	21.9	5.0	72.91	533.6	1,064.8	765.3	746.5	18.72	40.872				
5,800.0	5,739.9	5,751.0	5,749.5	22.2	5.1	73.50	532.7	1,063.3	761.9	743.1	18.81	40.496				
5,900.0	5,839.7	5,849.3	5,847.9	22.6	5.1	73.93	532.2	1,062.1	759.1	740.2	18.93	40.109				
6,000.0	5,939.7	5,950.9	5,949.4	22.9	5.2	74.26	531.5	1,060.9	757.0	737.9	19.04	39.754				
6,100.0	6,039.6	6,054.4	6,052.9	23.2	5.2	74.48	530.8	1,059.1	754.9	735.7	19.16	39.393				
6,200.0	6,139.6	6,156.0	6,154.5	23.3	5.3	100.09	530.1	1,057.0	752.8	733.6	19.24	39.129				
6,300.0	6,239.6	6,254.2	6,252.6	23.3	5.3	100.15	529.7	1,055.1	750.9	731.6	19.36	38.785				
6,400.0	6,339.6	6,349.3	6,347.7	23.4	5.4	100.16	529.8	1,053.7	749.5	730.0	19.50	38.444				
6,500.0	6,439.6	6,448.0	6,446.4	23.4	5.4	100.23	529.0	1,052.7	748.7	729.0	19.61	38.169				
6,600.0	6,539.6	6,549.3	6,547.7	23.5	5.5	100.31	528.2	1,051.5	747.6	727.8	19.73	37.894				
6,700.0	6,639.6	6,651.8	6,650.2	23.5	5.6	100.37	527.7	1,050.2	746.5	726.6	19.84	37.616				
6,800.0	6,739.6	6,755.6	6,754.0	23.6	5.7	100.37	528.0	1,048.4	744.7	724.7	19.97	37.289				
6,900.0	6,839.6	6,853.9	6,852.3	23.6	5.7	100.38	528.2	1,046.5	742.8	722.7	20.11	36.939				
7,000.0	6,939.6	6,953.5	6,951.9	23.6	5.8	100.38	528.5	1,045.0	741.2	721.0	20.25	36.609				
7,100.0	7,039.6	7,053.9	7,052.2	23.7	5.9	100.38	528.8	1,043.3	739.5	719.1	20.39	36.272				
7,200.0	7,139.6	7,152.7	7,151.0	23.7	5.9	100.37	529.2	1,041.7	737.9	717.3	20.53	35.937				
7,300.0	7,239.6	7,251.3	7,249.7	23.8	6.0	100.36	529.6	1,040.3	736.4	715.7	20.68	35.607				
7,400.0	7,339.6	7,345.4	7,343.7	23.8	6.1	100.32	530.3	1,039.4	735.3	714.5	20.84	35.283				
7,441.6	7,381.2	7,382.9	7,381.2	23.8	6.1	100.28	530.7	1,039.4	735.2	714.3	20.91	35.159				
7,500.0	7,439.6	7,439.2	7,437.5	23.9	6.1	100.23	531.5	1,039.6	735.3	714.3	21.00	35.011				
7,600.0	7,539.6	7,538.1	7,536.4	23.9	6.1	100.12	532.7	1,040.2	735.7	714.5	21.15	34.780				
7,700.0	7,639.6	7,635.4	7,633.7	24.0	6.2	100.03	533.7	1,041.0	736.2	714.9	21.30	34.565				
7,800.0	7,739.6	7,730.9	7,729.2	24.0	6.2	99.96	534.4	1,042.2	737.4	715.9	21.45	34.378				
7,900.0	7,839.6	7,827.5	7,825.8	24.1	6.3	99.94	534.5	1,043.9	739.1	717.5	21.59	34.239				
8,000.0	7,939.6	7,929.2	7,927.5	24.1	6.3	99.93	534.2	1,045.7	740.9	719.2	21.71	34.131				

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 2H - OWB (PH) - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex							Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,100.0	8,039.6	8,034.0	8,032.2	24.2	6.4	99.98	533.3	1,046.9	742.2	720.4	21.81	34.024	
8,200.0	8,139.6	8,137.9	8,136.2	24.2	6.4	100.02	532.7	1,047.6	742.9	721.0	21.93	33.878	
8,300.0	8,239.6	8,240.4	8,238.6	24.3	6.5	100.07	532.0	1,047.8	743.2	721.2	22.05	33.709	
8,400.0	8,339.6	8,339.6	8,337.8	24.3	6.6	100.16	530.9	1,047.6	743.3	721.1	22.17	33.526	
8,500.0	8,439.6	8,438.3	8,436.6	24.3	6.7	100.25	529.6	1,047.9	743.8	721.5	22.29	33.369	
8,600.0	8,539.6	8,546.5	8,544.7	24.4	6.7	100.41	527.6	1,047.4	743.7	721.3	22.39	33.219	
8,700.0	8,639.6	8,649.8	8,648.0	24.4	6.8	100.58	525.7	1,045.9	742.6	720.1	22.49	33.013	
8,800.0	8,739.6	8,755.5	8,753.7	24.5	6.9	100.77	523.5	1,044.2	741.4	718.8	22.60	32.803	
8,900.0	8,839.6	8,861.5	8,859.6	24.5	7.0	100.95	521.7	1,041.2	738.9	716.2	22.71	32.529	
9,000.0	8,939.6	8,964.3	8,962.3	24.6	7.1	101.12	520.1	1,037.9	736.0	713.2	22.83	32.236	
9,100.0	9,039.6	9,064.0	9,061.9	24.6	7.2	101.24	519.2	1,034.5	732.9	709.9	22.96	31.922	
9,200.0	9,139.6	9,161.8	9,159.7	24.7	7.3	101.32	518.8	1,031.5	730.0	706.9	23.09	31.613	
9,300.0	9,239.6	9,268.7	9,266.5	24.7	7.4	101.41	518.2	1,028.1	727.0	703.8	23.23	31.290	
9,400.0	9,339.6	9,381.9	9,379.6	24.8	7.5	101.53	517.8	1,022.7	722.4	699.0	23.40	30.867	
9,500.0	9,439.6	9,490.3	9,487.8	24.8	7.6	101.57	518.7	1,016.1	716.2	692.6	23.59	30.363	
9,600.0	9,539.6	9,586.1	9,583.4	24.9	7.6	101.56	520.1	1,010.0	709.7	686.0	23.73	29.912	
9,700.0	9,639.6	9,678.7	9,675.9	24.9	7.7	101.57	521.0	1,004.8	704.0	680.2	23.85	29.519	
9,800.0	9,739.6	9,778.8	9,775.9	25.0	7.8	101.59	521.8	999.8	699.0	675.0	24.00	29.118	
9,900.0	9,839.6	9,875.6	9,872.5	25.0	7.9	101.62	522.4	995.0	693.9	669.8	24.15	28.738	
10,000.0	9,939.6	9,974.8	9,971.6	25.1	8.0	101.68	522.6	990.3	689.3	665.0	24.30	28.371	
10,100.0	10,039.6	10,067.9	10,064.6	25.1	8.1	101.78	522.2	986.2	685.0	660.6	24.42	28.050	
10,200.0	10,139.6	10,166.6	10,163.3	25.2	8.2	101.90	521.5	982.6	681.7	657.1	24.56	27.752	
10,300.0	10,239.6	10,262.6	10,259.1	25.2	8.3	102.01	521.0	979.2	678.4	653.6	24.70	27.460	
10,400.0	10,339.6	10,359.6	10,356.1	25.3	8.4	102.08	520.6	976.7	675.8	651.0	24.85	27.194	
10,500.0	10,439.6	10,466.2	10,462.7	25.3	8.5	102.20	519.8	973.5	673.1	648.1	25.01	26.910	
10,600.0	10,539.6	10,568.1	10,564.5	25.4	8.6	102.29	519.6	969.5	669.3	644.1	25.17	26.587	
10,700.0	10,639.6	10,672.2	10,668.6	25.4	8.8	102.29	520.5	965.6	665.4	640.1	25.36	26.239	
10,800.0	10,739.6	10,767.1	10,763.4	25.5	8.9	102.31	521.2	961.6	661.2	635.7	25.51	25.922	
10,900.0	10,839.6	10,858.6	10,854.8	25.6	9.0	102.38	520.9	958.8	658.3	632.7	25.65	25.668	
11,000.0	10,939.6	10,950.4	10,946.6	25.6	9.1	102.51	519.7	957.0	656.6	630.8	25.79	25.461	
11,100.0	11,039.6	11,044.8	11,041.0	25.7	9.2	102.68	517.9	956.1	656.1	630.2	25.93	25.306	
11,148.0	11,087.7	11,091.6	11,087.7	25.7	9.2	102.78	516.8	955.8	656.1	630.1	25.99	25.246 CC	
11,200.0	11,139.6	11,143.4	11,139.5	25.7	9.3	102.91	515.5	955.5	656.1	630.0	26.04	25.191	
11,200.6	11,140.2	11,143.9	11,140.0	25.7	9.3	102.91	515.4	955.5	656.1	630.0	26.04	25.190 ES	
11,300.0	11,239.6	11,220.0	11,216.1	25.8	9.3	103.10	513.3	955.0	656.5	630.2	26.32	24.943	
11,400.0	11,339.6	11,220.0	11,216.1	25.8	9.3	103.10	513.3	955.0	667.6	638.8	28.84	23.147	
11,500.0	11,439.6	11,220.0	11,216.1	25.9	9.3	103.10	513.3	955.0	693.1	660.0	33.16	20.900	
11,600.0	11,539.6	11,220.0	11,216.1	25.9	9.3	103.10	513.3	955.0	731.5	693.5	38.01	19.244	
11,700.0	11,639.5	11,220.0	11,216.1	25.8	9.3	-72.71	513.3	955.0	780.2	737.6	42.62	18.307	
11,800.0	11,736.8	11,220.0	11,216.1	25.5	9.3	-65.68	513.3	955.0	833.3	786.6	46.77	17.816	
11,900.0	11,827.4	11,220.0	11,216.1	25.1	9.3	-58.80	513.3	955.0	887.7	837.4	50.30	17.650 SF	
12,000.0	11,907.3	11,220.0	11,216.1	24.7	9.3	-52.56	513.3	955.0	941.0	887.9	53.10	17.720	
12,100.0	11,972.9	11,220.0	11,216.1	24.5	9.3	-47.24	513.3	955.0	991.2	936.0	55.19	17.959	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 2H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-r.5 MWD												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)			
3,000.0	2,977.7	2,977.0	2,975.9	10.4	4.0	48.71	520.8	1,072.2	995.7	982.2	13.54	73.517	
3,100.0	3,076.2	3,081.5	3,080.4	10.8	4.0	49.42	522.2	1,071.5	984.0	970.1	13.87	70.954	
3,200.0	3,174.7	3,182.7	3,181.6	11.2	3.9	50.10	523.9	1,070.5	972.1	957.9	14.19	68.522	
3,300.0	3,273.2	3,277.2	3,276.1	11.6	3.9	50.74	525.6	1,069.5	960.4	945.9	14.51	66.193	
3,400.0	3,371.6	3,377.3	3,376.1	12.0	4.0	51.44	527.4	1,068.7	949.1	934.3	14.82	64.045	
3,500.0	3,470.1	3,474.8	3,473.6	12.4	4.0	52.12	529.5	1,067.8	937.8	922.6	15.13	61.994	
3,600.0	3,568.6	3,572.0	3,570.7	12.9	4.0	52.81	531.5	1,067.0	926.8	911.4	15.43	60.073	
3,700.0	3,667.1	3,671.0	3,669.7	13.3	4.0	53.53	533.7	1,066.3	916.0	900.3	15.72	58.281	
3,800.0	3,765.6	3,769.0	3,767.7	13.7	4.1	54.25	536.1	1,065.6	905.4	889.4	16.00	56.577	
3,900.0	3,864.0	3,866.3	3,865.0	14.1	4.1	54.96	538.7	1,064.9	895.1	878.8	16.28	54.972	
4,000.0	3,962.5	3,961.7	3,960.4	14.6	4.2	55.70	540.8	1,064.6	885.1	868.6	16.55	53.470	
4,100.0	4,061.0	4,058.0	4,056.6	15.0	4.2	56.54	541.8	1,064.9	875.8	859.0	16.81	52.111	
4,200.0	4,159.5	4,154.5	4,153.2	15.4	4.3	57.42	542.6	1,065.3	866.8	849.7	17.05	50.849	
4,300.0	4,258.0	4,251.7	4,250.4	15.9	4.4	58.34	543.3	1,066.1	858.3	841.0	17.27	49.688	
4,400.0	4,356.4	4,348.6	4,347.3	16.3	4.5	59.34	542.9	1,067.0	850.2	832.7	17.48	48.639	
4,500.0	4,454.9	4,447.8	4,446.4	16.7	4.5	60.42	542.0	1,068.3	842.5	824.9	17.66	47.716	
4,600.0	4,553.4	4,549.3	4,547.9	17.2	4.6	61.54	541.1	1,069.1	834.8	817.0	17.82	46.856	
4,700.0	4,651.9	4,649.6	4,648.2	17.6	4.7	62.64	540.6	1,069.7	827.1	809.2	17.97	46.035	
4,800.0	4,750.4	4,749.5	4,748.1	18.1	4.7	63.75	540.2	1,070.0	819.5	801.4	18.10	45.266	
4,900.0	4,848.9	4,849.1	4,847.6	18.5	4.8	64.91	539.3	1,070.3	812.2	793.9	18.22	44.584	
5,000.0	4,947.3	4,949.9	4,948.4	18.9	4.8	66.11	538.4	1,070.3	804.9	786.6	18.30	43.980	
5,100.0	5,045.8	5,051.4	5,050.0	19.4	4.9	67.32	537.6	1,069.9	797.6	779.2	18.37	43.429	
5,200.0	5,144.3	5,150.5	5,149.1	19.8	4.9	68.50	537.0	1,069.3	790.4	772.0	18.38	42.996	
5,300.0	5,243.0	5,250.2	5,248.8	20.2	4.9	69.57	536.5	1,068.7	784.0	765.5	18.44	42.517	
5,400.0	5,342.0	5,350.2	5,348.8	20.7	4.9	70.54	536.1	1,067.7	778.2	759.7	18.50	42.067	
5,500.0	5,441.2	5,449.6	5,448.1	21.1	5.0	71.40	535.7	1,066.8	773.2	754.6	18.57	41.643	
5,600.0	5,540.6	5,548.7	5,547.2	21.5	5.0	72.20	534.7	1,065.8	768.8	750.2	18.64	41.242	
5,700.0	5,640.2	5,649.6	5,648.1	21.9	5.0	72.91	533.6	1,064.8	763.3	746.6	18.72	40.876	
5,800.0	5,739.9	5,751.0	5,749.5	22.2	5.1	73.50	532.7	1,063.3	761.9	743.1	18.81	40.500	
5,900.0	5,839.7	5,849.3	5,847.9	22.6	5.1	73.93	532.2	1,062.1	759.1	740.2	18.92	40.113	
6,000.0	5,939.7	5,950.9	5,949.4	22.9	5.2	74.26	531.5	1,060.9	757.0	737.9	19.04	39.758	
6,100.0	6,039.6	6,054.4	6,052.9	23.2	5.2	74.48	530.8	1,059.1	754.9	735.7	19.16	39.397	
6,200.0	6,139.6	6,156.0	6,154.5	23.3	5.3	100.09	530.1	1,057.0	752.8	733.6	19.24	39.132	
6,300.0	6,239.6	6,254.2	6,252.6	23.3	5.3	100.15	529.7	1,055.1	750.9	731.6	19.36	38.788	
6,400.0	6,339.6	6,349.3	6,347.7	23.4	5.4	100.16	529.8	1,053.7	749.5	730.0	19.50	38.444	
6,500.0	6,439.6	6,448.0	6,446.4	23.4	5.4	100.23	529.0	1,052.7	748.7	729.0	19.61	38.170	
6,600.0	6,539.6	6,549.3	6,547.7	23.5	5.5	100.31	528.2	1,051.5	747.6	727.8	19.73	37.894	
6,700.0	6,639.6	6,651.8	6,650.2	23.5	5.6	100.37	527.7	1,050.2	746.5	726.6	19.85	37.614	
6,800.0	6,739.6	6,755.6	6,754.0	23.6	5.7	100.37	528.0	1,048.4	744.7	724.7	19.97	37.287	
6,900.0	6,839.6	6,853.9	6,852.3	23.6	5.7	100.38	528.2	1,046.5	742.8	722.7	20.11	36.936	
7,000.0	6,939.6	6,953.5	6,951.9	23.6	5.8	100.38	528.5	1,045.0	741.2	721.0	20.25	36.604	
7,100.0	7,039.6	7,053.9	7,052.2	23.7	5.9	100.38	528.8	1,043.3	739.5	719.1	20.39	36.266	
7,200.0	7,139.6	7,152.7	7,151.0	23.7	5.9	100.37	529.2	1,041.7	737.9	717.3	20.54	35.930	
7,300.0	7,239.6	7,251.3	7,249.7	23.8	6.0	100.36	529.6	1,040.3	736.4	715.7	20.69	35.599	
7,400.0	7,339.6	7,345.4	7,343.7	23.8	6.1	100.32	530.3	1,039.4	735.3	714.5	20.84	35.276	
7,441.6	7,381.2	7,382.9	7,381.2	23.8	6.1	100.28	530.7	1,039.4	735.2	714.3	20.91	35.152	
7,500.0	7,439.6	7,439.2	7,437.5	23.9	6.1	100.23	531.5	1,039.6	735.3	714.3	21.01	35.005	
7,600.0	7,539.6	7,538.1	7,536.4	23.9	6.1	100.12	532.7	1,040.2	735.7	714.5	21.16	34.775	
7,700.0	7,639.6	7,635.4	7,633.7	24.0	6.2	100.03	533.7	1,041.0	736.2	714.9	21.30	34.561	
7,800.0	7,739.6	7,730.9	7,729.2	24.0	6.2	99.96	534.4	1,042.2	737.4	715.9	21.45	34.375	
7,900.0	7,839.6	7,827.5	7,825.8	24.1	6.3	99.94	534.5	1,043.9	739.1	717.5	21.59	34.236	
8,000.0	7,939.6	7,929.2	7,927.5	24.1	6.3	99.93	534.2	1,045.7	740.9	719.2	21.71	34.129	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 2H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 100- VES GyroFlex, 9743-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	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)			
8,100.0	8,039.6	8,034.0	8,032.2	24.2	6.4	99.98	533.3	1,046.9	742.2	720.4	21.82	34.023	
8,200.0	8,139.6	8,137.9	8,136.2	24.2	6.4	100.02	532.7	1,047.6	742.9	721.0	21.93	33.876	
8,300.0	8,239.6	8,240.4	8,238.6	24.3	6.5	100.07	532.0	1,047.8	743.2	721.2	22.05	33.708	
8,400.0	8,339.6	8,339.6	8,337.8	24.3	6.6	100.16	530.9	1,047.6	743.3	721.1	22.17	33.525	
8,500.0	8,439.6	8,438.3	8,436.6	24.3	6.7	100.25	529.6	1,047.9	743.8	721.5	22.29	33.368	
8,600.0	8,539.6	8,546.5	8,544.7	24.4	6.7	100.41	527.6	1,047.4	743.7	721.3	22.39	33.217	
8,700.0	8,639.6	8,649.8	8,648.0	24.4	6.8	100.58	525.7	1,045.9	742.6	720.1	22.50	33.011	
8,800.0	8,739.6	8,755.5	8,753.7	24.5	6.9	100.77	523.5	1,044.2	741.4	718.8	22.60	32.800	
8,900.0	8,839.6	8,861.5	8,859.6	24.5	7.0	100.95	521.7	1,041.2	738.9	716.2	22.72	32.525	
9,000.0	8,939.6	8,964.3	8,962.3	24.6	7.1	101.12	520.1	1,037.9	736.0	713.2	22.84	32.231	
9,100.0	9,039.6	9,064.0	9,061.9	24.6	7.2	101.24	519.2	1,034.5	732.9	709.9	22.96	31.915	
9,200.0	9,139.6	9,161.8	9,159.7	24.7	7.3	101.32	518.8	1,031.5	730.0	706.9	23.10	31.605	
9,300.0	9,239.6	9,268.7	9,266.5	24.7	7.4	101.41	518.2	1,028.1	727.0	703.8	23.24	31.281	
9,400.0	9,339.6	9,381.9	9,379.6	24.8	7.5	101.53	517.8	1,022.7	722.4	699.0	23.41	30.857	
9,500.0	9,439.6	9,490.3	9,487.8	24.8	7.6	101.57	518.7	1,016.1	716.2	692.6	23.60	30.352	
9,600.0	9,539.6	9,586.1	9,583.4	24.9	7.6	101.56	520.1	1,010.0	709.7	686.0	23.73	29.901	
9,700.0	9,639.6	9,678.7	9,675.9	24.9	7.7	101.57	521.0	1,004.8	704.0	680.1	23.86	29.507	
9,800.0	9,739.6	9,772.7	9,769.8	25.0	7.9	101.59	521.7	1,000.2	699.1	675.1	24.00	29.135	
9,881.8	9,821.4	9,824.4	9,821.4	25.0	8.2	101.63	521.4	998.7	697.0	672.7	24.28	28.706 CC, ES	
9,900.0	9,839.6	9,834.1	9,831.1	25.0	8.4	101.65	521.2	998.7	697.1	672.8	24.37	28.607	
10,000.0	9,939.6	9,898.9	9,895.8	25.1	8.9	101.86	518.2	1,001.2	701.5	676.7	24.76	28.328 SF	
10,100.0	10,039.6	10,003.6	10,000.2	25.1	8.9	102.26	512.1	1,006.1	707.3	682.5	24.79	28.535	
10,200.0	10,139.6	10,059.0	10,055.3	25.2	8.9	102.52	508.0	1,009.2	715.1	689.9	25.20	28.380	
10,300.0	10,239.6	10,122.0	10,117.4	25.2	9.0	103.03	499.9	1,016.5	729.3	703.7	25.63	28.459	
10,400.0	10,339.6	10,163.4	10,157.4	25.3	9.0	103.50	492.1	1,023.6	750.2	723.8	26.42	28.397	
10,500.0	10,439.6	10,217.0	10,207.8	25.3	9.0	104.32	478.4	1,035.4	777.8	750.7	27.12	28.676	
10,600.0	10,539.6	10,261.4	10,248.2	25.4	9.1	105.19	463.6	1,046.6	811.2	783.2	28.03	28.935	
10,700.0	10,639.6	10,319.9	10,299.4	25.4	9.2	106.59	439.8	1,061.6	849.2	820.4	28.73	29.554	
10,800.0	10,739.6	10,373.0	10,343.6	25.5	9.3	108.09	413.9	1,075.5	891.8	862.2	29.56	30.168	
10,900.0	10,839.6	10,415.4	10,377.0	25.6	9.4	109.43	390.2	1,086.6	939.0	908.4	30.59	30.698	
11,000.0	10,939.6	10,468.0	10,416.3	25.6	9.6	111.22	357.7	1,099.5	990.1	958.7	31.45	31.481	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-r.5 MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	8.4	3.0	0.0	-19.13	498.7	-173.0	527.9				
100.0	100.0	93.0	101.4	3.0	0.1	-19.18	498.4	-173.4	527.7	523.0	4.73	111.654	
200.0	200.0	192.6	201.0	3.2	0.3	-19.30	497.8	-174.3	527.5	522.6	4.92	107.273	
300.0	300.0	292.4	300.8	3.3	0.5	-19.43	497.3	-175.4	527.3	522.2	5.12	102.924	
400.0	400.0	392.6	401.0	3.4	0.7	-19.56	496.7	-176.5	527.2	521.8	5.34	98.663	
500.0	500.0	493.7	502.0	3.5	0.9	-19.71	496.0	-177.7	526.9	521.3	5.57	94.511	
600.0	600.0	593.9	602.3	3.7	1.1	-19.89	495.1	-179.1	526.5	520.6	5.82	90.517	
700.0	700.0	693.8	702.1	3.8	1.4	-20.06	494.1	-180.4	526.0	520.0	6.07	86.720	
794.7	794.7	786.3	794.7	3.9	1.6	-20.23	493.4	-181.8	525.8	519.5	6.31	83.376	
800.0	800.0	791.5	799.9	3.9	1.6	-20.24	493.4	-181.9	525.8	519.5	6.32	83.191	
900.0	900.0	891.5	899.8	4.0	1.8	-20.43	492.8	-183.6	525.9	519.3	6.58	79.871	
1,000.0	1,000.0	991.4	999.7	4.2	2.0	-20.62	492.2	-185.3	525.9	519.1	6.85	76.742	
1,100.0	1,100.0	1,092.5	1,100.8	4.3	2.2	-20.80	491.6	-186.8	525.9	518.8	7.13	73.770	
1,200.0	1,200.0	1,192.7	1,201.0	4.4	2.4	-20.97	490.9	-188.1	525.7	518.3	7.41	70.967	
1,300.0	1,300.0	1,292.7	1,300.9	4.6	2.7	-46.80	490.2	-189.4	524.3	516.6	7.73	67.799	
1,400.0	1,399.8	1,391.6	1,399.8	4.9	2.9	-47.42	489.6	-190.6	520.7	512.5	8.14	63.966	
1,500.0	1,499.5	1,490.4	1,498.6	5.2	3.1	-48.34	489.3	-191.7	514.9	506.4	8.55	60.239	
1,600.0	1,598.7	1,588.6	1,596.8	5.5	3.3	-49.59	489.1	-192.8	507.1	498.2	8.96	56.631	
1,700.0	1,697.5	1,685.2	1,693.5	5.8	3.5	-51.14	489.3	-193.6	497.7	488.3	9.36	53.176	
1,800.0	1,795.9	1,783.5	1,791.8	6.1	3.7	-52.73	490.0	-194.1	487.7	478.0	9.72	50.161	
1,900.0	1,894.4	1,881.6	1,889.8	6.4	3.9	-54.35	490.9	-194.4	478.2	468.1	10.09	47.393	
2,000.0	1,992.9	1,980.1	1,988.3	6.7	4.1	-56.02	491.9	-194.6	469.2	458.7	10.46	44.863	
2,100.0	2,091.4	2,079.1	2,087.3	7.0	4.3	-57.75	492.9	-194.7	460.5	449.7	10.82	42.551	
2,200.0	2,189.9	2,178.3	2,186.5	7.3	4.5	-59.51	493.9	-194.6	452.2	441.0	11.18	40.439	
2,300.0	2,288.4	2,278.3	2,286.5	7.7	4.7	-61.38	494.8	-194.5	444.2	432.6	11.53	38.506	
2,400.0	2,386.8	2,378.5	2,386.7	8.0	4.9	-63.38	495.0	-194.6	436.2	424.4	11.87	36.741	
2,500.0	2,485.3	2,479.5	2,487.7	8.4	5.1	-65.56	494.5	-194.8	428.4	416.2	12.20	35.128	
2,600.0	2,583.8	2,578.6	2,586.8	8.8	5.3	-67.86	493.2	-195.3	420.8	408.3	12.50	33.663	
2,700.0	2,682.3	2,678.5	2,686.6	9.2	5.6	-70.28	491.6	-195.8	413.6	400.8	12.79	32.338	
2,800.0	2,780.8	2,779.7	2,787.9	9.6	5.8	-72.83	489.5	-195.8	406.7	393.6	13.07	31.111	
2,900.0	2,879.2	2,882.8	2,890.9	10.0	6.0	-75.43	487.1	-194.8	399.5	386.2	13.35	29.934	
3,000.0	2,977.7	2,984.6	2,992.6	10.4	6.2	-77.98	484.7	-192.3	392.0	378.4	13.62	28.782	
3,100.0	3,076.2	3,081.6	3,089.6	10.8	6.4	-80.29	483.3	-188.9	385.0	371.1	13.90	27.692	
3,200.0	3,174.7	3,178.9	3,186.8	11.2	6.6	-82.43	483.5	-184.8	378.9	364.8	14.19	26.703	
3,300.0	3,273.2	3,274.9	3,282.7	11.6	6.8	-84.51	484.5	-180.8	374.0	359.5	14.49	25.813	
3,400.0	3,371.6	3,372.7	3,380.5	12.0	7.0	-86.65	486.0	-177.3	370.2	355.4	14.80	25.021	
3,500.0	3,470.1	3,467.1	3,474.8	12.4	7.2	-88.75	487.7	-174.2	367.5	352.3	15.11	24.317	
3,600.0	3,568.6	3,563.6	3,571.2	12.9	7.4	-90.97	489.6	-172.4	366.6	351.1	15.45	23.732	
3,666.1	3,633.7	3,628.9	3,636.5	13.1	7.5	-92.54	490.6	-171.5	366.4	350.8	15.68	23.365 CC	
3,700.0	3,667.1	3,662.5	3,670.1	13.3	7.6	-93.37	491.0	-171.0	366.5	350.7	15.81	23.180 ES	
3,800.0	3,765.6	3,761.4	3,769.0	13.7	7.8	-95.85	491.9	-169.7	367.0	350.8	16.21	22.647	
3,900.0	3,864.0	3,860.8	3,868.4	14.1	8.0	-98.34	492.7	-168.4	368.1	351.5	16.64	22.128	
4,000.0	3,962.5	3,961.4	3,968.9	14.6	8.2	-100.86	493.3	-166.7	369.6	352.5	17.11	21.601	
4,100.0	4,061.0	4,061.8	4,069.3	15.0	8.4	-103.39	493.5	-164.6	371.3	353.7	17.63	21.059	
4,200.0	4,159.5	4,161.3	4,168.9	15.4	8.6	-105.91	493.4	-162.2	373.3	355.1	18.19	20.518	
4,300.0	4,258.0	4,259.8	4,267.3	15.9	8.8	-108.43	492.9	-159.7	375.9	357.1	18.80	19.994	
4,400.0	4,356.4	4,358.0	4,365.5	16.3	9.0	-110.98	491.9	-157.5	379.4	360.0	19.46	19.495	
4,500.0	4,454.9	4,456.5	4,463.9	16.7	9.2	-113.50	490.9	-155.2	383.7	363.5	20.17	19.025	
4,600.0	4,553.4	4,555.0	4,562.4	17.2	9.4	-115.96	489.8	-152.9	388.7	367.8	20.91	18.587	
4,700.0	4,651.9	4,653.4	4,660.8	17.6	9.6	-118.35	488.8	-150.6	394.4	372.7	21.69	18.183	
4,800.0	4,750.4	4,751.8	4,759.2	18.1	9.8	-120.66	487.8	-148.4	400.8	378.3	22.50	17.816	
4,900.0	4,848.9	4,850.1	4,857.5	18.5	10.0	-122.91	486.7	-146.1	407.9	384.6	23.33	17.484	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 5H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_GC+WIR+DPIPE, 8399-r.5 MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,947.3	4,948.8	4,956.1	18.9	10.2	-125.07	485.7	-143.9	415.6	391.4	24.18	17.187		
5,100.0	5,045.8	5,043.6	5,050.9	19.4	10.4	-127.04	485.0	-141.9	424.0	399.0	25.01	16.952		
5,200.0	5,144.3	5,135.7	5,143.0	19.8	10.6	-128.61	486.2	-141.9	434.4	408.7	25.75	16.873		
5,300.0	5,243.0	5,231.8	5,239.0	20.2	10.8	-129.92	488.5	-143.1	445.3	418.9	26.47	16.822		
5,400.0	5,342.0	5,330.5	5,337.7	20.7	11.0	-130.98	491.2	-144.8	455.6	428.4	27.16	16.773		
5,500.0	5,441.2	5,429.9	5,437.0	21.1	11.2	-131.84	493.9	-146.5	464.9	437.1	27.82	16.710		
5,600.0	5,540.6	5,529.2	5,536.3	21.5	11.4	-132.50	496.6	-148.3	473.1	444.6	28.43	16.639		
5,700.0	5,640.2	5,628.5	5,635.5	21.9	11.7	-132.97	499.3	-150.2	480.3	451.3	29.00	16.563		
5,800.0	5,739.9	5,729.3	5,736.2	22.2	11.9	-133.28	502.1	-151.9	486.1	456.6	29.53	16.464		
5,900.0	5,839.7	5,829.7	5,836.6	22.6	12.1	-133.44	504.8	-153.6	490.7	460.7	30.01	16.354		
6,000.0	5,939.7	5,930.5	5,937.3	22.9	12.3	-133.44	507.5	-155.0	493.9	463.5	30.44	16.227		
6,100.0	6,039.6	6,030.3	6,037.1	23.2	12.5	-133.33	509.9	-156.3	495.9	465.1	30.80	16.098		
6,200.0	6,139.6	6,130.6	6,137.4	23.3	12.7	-107.76	510.5	-157.0	496.7	465.6	31.06	15.993		
6,300.0	6,239.6	6,230.8	6,237.6	23.3	12.9	-107.76	510.4	-157.4	497.1	465.8	31.29	15.887		
6,400.0	6,339.6	6,330.4	6,337.2	23.4	13.1	-107.75	510.3	-157.9	497.5	466.0	31.52	15.786		
6,500.0	6,439.6	6,429.9	6,436.7	23.4	13.3	-107.75	510.2	-158.4	498.1	466.3	31.75	15.688		
6,600.0	6,539.6	6,529.8	6,536.6	23.5	13.5	-107.77	509.8	-158.9	498.7	466.7	31.99	15.590		
6,700.0	6,639.6	6,629.6	6,636.4	23.5	13.8	-107.80	509.4	-159.4	499.3	467.1	32.23	15.492		
6,800.0	6,739.6	6,729.4	6,736.1	23.6	14.0	-107.82	509.0	-160.0	500.0	467.5	32.47	15.397		
6,900.0	6,839.6	6,828.7	6,835.5	23.6	14.2	-107.91	508.0	-160.5	500.8	468.0	32.73	15.301		
7,000.0	6,939.6	6,925.6	6,932.4	23.6	14.4	-108.03	506.7	-161.0	501.7	468.8	32.97	15.217		
7,100.0	7,039.6	7,017.7	7,024.5	23.7	14.6	-108.30	503.8	-162.4	504.1	470.9	33.21	15.179		
7,200.0	7,139.6	7,116.5	7,123.1	23.7	14.8	-108.67	499.7	-164.3	507.3	473.7	33.52	15.133		
7,300.0	7,239.6	7,217.2	7,223.8	23.8	15.0	-109.01	495.8	-166.3	510.4	476.6	33.84	15.081		
7,400.0	7,339.6	7,316.0	7,322.4	23.8	15.2	-109.34	492.0	-168.4	513.7	479.5	34.15	15.043		
7,500.0	7,439.6	7,416.6	7,423.0	23.9	15.4	-109.65	488.2	-170.6	516.9	482.5	34.46	14.999		
7,600.0	7,539.6	7,515.9	7,522.1	23.9	15.6	-110.02	484.0	-172.5	520.2	485.5	34.78	14.957		
7,700.0	7,639.6	7,616.0	7,622.1	24.0	15.8	-110.45	479.2	-174.3	523.6	488.5	35.12	14.910		
7,800.0	7,739.6	7,716.0	7,722.0	24.0	16.0	-110.86	474.5	-176.1	527.0	491.5	35.45	14.866		
7,900.0	7,839.6	7,817.1	7,823.0	24.1	16.3	-111.25	470.0	-177.9	530.2	494.4	35.78	14.818		
8,000.0	7,939.6	7,918.3	7,924.1	24.1	16.5	-111.61	465.7	-179.5	533.2	497.1	36.11	14.765		
8,100.0	8,039.6	8,018.4	8,024.1	24.2	16.7	-111.96	461.6	-181.0	536.1	499.7	36.43	14.715		
8,200.0	8,139.6	8,117.7	8,123.2	24.2	16.9	-112.34	457.2	-182.4	539.1	502.4	36.75	14.669		
8,300.0	8,239.6	8,217.7	8,223.1	24.3	17.1	-112.76	452.3	-183.7	542.2	505.1	37.08	14.620		
8,400.0	8,339.6	8,317.4	8,322.7	24.3	17.3	-113.18	447.5	-185.0	545.2	507.8	37.41	14.574		
8,500.0	8,439.6	8,418.5	8,423.6	24.3	17.4	-113.63	442.3	-186.1	548.3	510.6	37.67	14.554		
8,600.0	8,539.6	8,522.5	8,527.5	24.4	17.5	-114.06	437.5	-186.9	550.9	513.0	37.87	14.545		
8,700.0	8,639.6	8,623.3	8,628.2	24.4	17.5	-114.44	433.4	-187.2	552.9	514.8	38.04	14.533 SF		
8,800.0	8,739.6	8,710.4	8,715.2	24.5	17.6	-114.85	428.6	-188.0	556.0	517.8	38.15	14.575		
8,900.0	8,839.6	8,777.7	8,782.0	24.5	18.0	-115.45	421.4	-189.7	563.0	524.7	38.29	14.704		
9,000.0	8,939.6	8,823.0	8,826.4	24.6	18.4	-116.18	412.4	-191.7	576.9	538.7	38.25	15.082		
9,100.0	9,039.6	8,892.0	8,892.3	24.6	18.8	-117.71	392.8	-196.7	597.6	559.0	38.60	15.481		
9,200.0	9,139.6	8,947.8	8,943.8	24.7	19.1	-119.20	372.1	-202.8	625.7	586.9	38.77	16.138		
9,300.0	9,239.6	9,012.0	9,000.7	24.7	19.4	-121.17	343.5	-210.5	660.1	621.0	39.12	16.876		
9,400.0	9,339.6	9,049.6	9,032.6	24.8	19.6	-122.44	324.2	-215.5	700.6	661.5	39.06	17.935		
9,500.0	9,439.6	9,106.0	9,078.1	24.8	19.9	-124.42	292.0	-224.0	747.8	708.4	39.43	18.966		
9,600.0	9,539.6	9,122.8	9,090.9	24.9	19.9	-125.02	281.5	-226.9	800.5	761.5	39.03	20.510		
9,700.0	9,639.6	9,148.7	9,110.0	24.9	20.0	-125.95	264.7	-231.9	859.4	820.6	38.83	22.134		
9,800.0	9,739.6	9,169.0	9,124.1	25.0	20.0	-126.68	250.8	-236.2	923.5	884.9	38.63	23.906		
9,900.0	9,839.6	9,203.0	9,146.7	25.0	20.0	-127.87	226.6	-244.0	991.7	953.0	38.66	25.653		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design:		WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 6H - OWB - AWP												Offset Site Error:		0.0 usft
Survey Program:		100-Standard Keeper 104, 8667-r.5 MWD+IFR1+MS							Rule Assigned:					Offset Well Error:		3.0 usft
Measured Depth	Reference Depth	Measured Depth	Offset Vertical Depth	Reference	Semi Major Axis 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)					
0.0	0.0	0.0	8.1	3.0	3.0	-15.99	498.9	-143.0	519.1							
100.0	100.0	88.0	96.1	3.0	3.0	-16.00	499.2	-143.1	519.3	512.9	6.44	80.626				
200.0	200.0	187.9	196.0	3.2	3.0	-16.01	499.9	-143.4	520.1	513.5	6.57	79.146				
300.0	300.0	287.6	295.7	3.3	3.0	-16.03	500.7	-143.8	520.9	514.2	6.71	77.654				
400.0	400.0	388.2	396.3	3.4	3.0	-16.05	501.4	-144.2	521.7	514.9	6.85	76.161				
500.0	500.0	495.3	503.4	3.5	3.0	-16.14	501.3	-145.1	521.9	514.9	6.99	74.666				
600.0	600.0	596.0	604.1	3.7	3.1	-16.31	500.1	-146.3	521.1	514.0	7.12	73.184				
700.0	700.0	695.1	703.2	3.8	3.1	-16.34	499.4	-146.4	520.4	513.2	7.25	71.762				
800.0	800.0	795.3	803.3	3.9	3.1	-16.23	499.1	-145.3	519.9	512.5	7.39	70.357				
900.0	900.0	896.3	904.3	4.0	3.1	-16.07	498.8	-143.7	519.1	511.6	7.53	68.948				
1,000.0	1,000.0	997.6	1,005.6	4.2	3.1	-15.90	498.3	-141.9	518.1	510.4	7.67	67.540				
1,100.0	1,100.0	1,097.0	1,105.0	4.3	3.1	-15.71	497.8	-140.0	517.1	509.3	7.82	66.157				
1,200.0	1,200.0	1,198.1	1,206.1	4.4	3.1	-15.49	497.2	-137.8	515.9	508.0	7.96	64.783				
1,300.0	1,300.0	1,297.8	1,305.7	4.6	3.1	-40.94	496.5	-135.5	513.4	505.2	8.17	62.858				
1,400.0	1,399.8	1,396.8	1,404.7	4.9	3.2	-41.13	496.2	-133.0	508.4	500.0	8.45	60.156				
1,500.0	1,499.5	1,496.0	1,503.9	5.2	3.2	-41.62	495.9	-130.6	501.0	492.2	8.75	57.279				
1,600.0	1,598.7	1,587.7	1,595.6	5.5	3.2	-42.42	496.0	-128.9	491.5	482.4	9.05	54.324				
1,700.0	1,697.5	1,683.8	1,691.7	5.8	3.3	-43.68	497.3	-128.3	481.1	471.7	9.35	51.451				
1,800.0	1,795.9	1,782.4	1,790.3	6.1	3.3	-44.99	498.8	-127.6	469.8	460.2	9.61	48.910				
1,900.0	1,894.4	1,881.3	1,889.1	6.4	3.4	-46.35	500.3	-126.8	458.7	448.9	9.87	46.488				
2,000.0	1,992.9	1,980.7	1,988.5	6.7	3.4	-47.78	501.9	-125.8	447.9	437.8	10.13	44.195				
2,100.0	2,091.4	2,078.4	2,086.2	7.0	3.5	-49.24	503.5	-124.9	437.4	427.0	10.40	42.052				
2,200.0	2,189.9	2,178.1	2,185.9	7.3	3.5	-50.79	505.1	-123.8	427.2	416.5	10.67	40.050				
2,300.0	2,288.4	2,281.5	2,289.2	7.7	3.6	-52.52	506.1	-122.8	416.8	405.9	10.92	38.174				
2,400.0	2,386.8	2,384.9	2,392.6	8.0	3.6	-54.64	504.9	-122.9	405.4	394.3	11.14	36.378				
2,500.0	2,485.3	2,482.3	2,490.1	8.4	3.6	-56.87	503.0	-123.5	394.1	382.8	11.36	34.702				
2,600.0	2,583.8	2,581.4	2,589.1	8.8	3.6	-59.29	500.9	-124.3	383.5	372.0	11.55	33.215				
2,700.0	2,682.3	2,680.5	2,688.2	9.2	3.6	-61.90	498.6	-125.3	373.5	361.8	11.71	31.898				
2,800.0	2,780.8	2,782.4	2,790.1	9.6	3.7	-64.82	495.1	-126.2	363.4	351.6	11.84	30.695				
2,900.0	2,879.2	2,881.0	2,888.5	10.0	3.7	-67.83	491.1	-127.0	353.7	341.8	11.95	29.601				
3,000.0	2,977.7	2,978.7	2,986.2	10.4	3.7	-70.98	487.0	-127.7	345.0	332.9	12.04	28.648				
3,100.0	3,076.2	3,077.3	3,084.7	10.8	3.8	-74.26	483.0	-128.0	337.1	325.0	12.12	27.812				
3,200.0	3,174.7	3,174.5	3,181.8	11.2	3.8	-77.58	479.2	-128.1	330.4	318.2	12.20	27.080				
3,300.0	3,273.2	3,272.3	3,279.5	11.6	3.9	-80.96	475.9	-128.1	325.0	312.7	12.29	26.446				
3,400.0	3,371.6	3,370.6	3,377.7	12.0	3.9	-84.42	472.6	-127.9	320.7	308.3	12.40	25.865				
3,500.0	3,470.1	3,467.7	3,474.9	12.4	4.0	-87.92	469.5	-127.8	317.9	305.3	12.55	25.331				
3,600.0	3,568.6	3,566.0	3,573.1	12.9	4.0	-91.46	466.5	-127.6	316.2	303.5	12.75	24.805				
3,675.6	3,643.0	3,640.0	3,647.0	13.2	4.1	-94.16	464.2	-127.5	315.8	302.9	12.94	24.405 CC				
3,700.0	3,667.1	3,664.2	3,671.2	13.3	4.1	-95.05	463.4	-127.5	315.9	302.9	13.01	24.272 ES				
3,800.0	3,765.6	3,763.5	3,770.5	13.7	4.2	-98.71	460.0	-127.2	316.6	303.2	13.36	23.691				
3,900.0	3,864.0	3,862.0	3,868.9	14.1	4.2	-102.32	456.5	-126.5	318.2	304.4	13.80	23.058				
4,000.0	3,962.5	3,961.0	3,967.8	14.6	4.3	-105.92	452.8	-125.6	320.9	306.5	14.33	22.387				
4,100.0	4,061.0	4,059.9	4,066.7	15.0	4.4	-109.45	449.0	-124.3	324.4	309.4	14.95	21.695				
4,200.0	4,159.5	4,158.2	4,164.9	15.4	4.5	-112.86	445.4	-122.9	329.0	313.3	15.65	21.024				
4,300.0	4,258.0	4,257.0	4,263.6	15.9	4.6	-116.25	441.3	-121.2	334.6	318.1	16.42	20.371				
4,400.0	4,356.4	4,355.9	4,362.3	16.3	4.6	-119.49	437.4	-119.4	341.1	323.8	17.25	19.773				
4,500.0	4,454.9	4,454.6	4,461.0	16.7	4.7	-122.44	434.6	-117.3	348.3	330.2	18.10	19.249				
4,600.0	4,553.4	4,552.7	4,559.1	17.2	4.8	-125.21	432.0	-115.2	356.3	337.4	18.96	18.797				
4,700.0	4,651.9	4,651.4	4,657.7	17.6	4.9	-127.80	429.9	-113.2	365.2	345.3	19.83	18.414				
4,800.0	4,750.4	4,751.0	4,757.2	18.1	5.0	-130.27	427.9	-111.0	374.5	353.8	20.72	18.075				
4,900.0	4,848.9	4,849.4	4,855.6	18.5	5.1	-132.61	425.8	-108.6	384.4	362.8	21.61	17.787				
5,000.0	4,947.3	4,947.0	4,953.2	18.9	5.2	-134.81	423.8	-106.3	394.9	372.4	22.49	17.555				

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8667-r.5 MWD+IFR1+MS								Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,045.8	5,046.1	5,052.2	19.4	5.3	-136.94	421.7	-103.8	405.8	382.4	23.39	17.352	
5,200.0	5,144.3	5,144.3	5,150.4	19.8	5.4	-138.93	419.8	-101.5	417.3	393.1	24.24	17.218	
5,300.0	5,243.0	5,241.2	5,247.3	20.2	5.5	-140.75	417.8	-99.1	428.3	403.2	25.07	17.086	
5,400.0	5,342.0	5,338.8	5,344.7	20.7	5.6	-142.41	415.1	-96.9	438.8	412.9	25.87	16.963	
5,500.0	5,441.2	5,436.8	5,442.7	21.1	5.7	-143.88	412.2	-94.9	448.4	421.8	26.62	16.842	
5,600.0	5,540.6	5,535.9	5,541.8	21.5	5.8	-145.15	409.4	-93.0	457.0	429.7	27.34	16.716	
5,700.0	5,640.2	5,634.9	5,640.7	21.9	5.9	-146.26	406.5	-91.1	464.4	436.3	28.01	16.578	
5,800.0	5,739.9	5,734.7	5,740.5	22.2	6.0	-147.20	403.6	-89.3	470.4	441.8	28.64	16.426	
5,900.0	5,839.7	5,833.9	5,839.6	22.6	6.1	-148.00	400.7	-87.6	475.2	446.0	29.22	16.267	
6,000.0	5,939.7	5,932.8	5,938.4	22.9	6.2	-148.67	397.8	-85.7	478.6	448.9	29.73	16.096	
6,100.0	6,039.6	6,032.8	6,038.4	23.2	6.3	-149.23	394.7	-84.1	480.8	450.6	30.20	15.923	
6,200.0	6,139.6	6,129.1	6,134.6	23.3	6.4	-124.13	391.7	-82.9	481.9	451.5	30.39	15.854	
6,300.0	6,239.6	6,227.5	6,232.9	23.3	6.6	-124.52	388.3	-81.9	483.0	452.5	30.54	15.814	
6,400.0	6,339.6	6,327.1	6,332.5	23.4	6.7	-124.91	384.8	-81.2	484.5	453.8	30.70	15.779	
6,500.0	6,439.6	6,425.5	6,430.7	23.4	6.8	-125.32	381.0	-80.6	486.1	455.3	30.85	15.756	
6,600.0	6,539.6	6,524.0	6,529.2	23.5	6.9	-125.74	377.0	-80.1	488.1	457.1	31.01	15.741	
6,700.0	6,639.6	6,623.7	6,628.8	23.5	7.0	-126.16	372.8	-79.7	490.3	459.1	31.17	15.726	
6,800.0	6,739.6	6,725.3	6,730.4	23.6	7.1	-126.56	368.8	-79.4	492.3	460.9	31.35	15.703	
6,900.0	6,839.6	6,825.5	6,830.5	23.6	7.2	-126.87	365.5	-79.3	494.2	462.7	31.50	15.689	
7,000.0	6,939.6	6,925.3	6,930.2	23.6	7.3	-127.19	362.2	-79.1	496.1	464.4	31.65	15.677	
7,100.0	7,039.6	7,033.8	7,038.7	23.7	7.4	-127.64	358.6	-77.4	496.8	464.9	31.89	15.580	
7,200.0	7,139.6	7,130.9	7,135.7	23.7	7.5	-128.05	355.5	-75.5	497.2	465.2	32.03	15.525	
7,300.0	7,239.6	7,230.1	7,234.8	23.8	7.6	-128.47	352.1	-74.0	498.2	466.0	32.18	15.479	
7,400.0	7,339.6	7,330.2	7,334.8	23.8	7.8	-128.87	348.8	-72.6	499.1	466.8	32.34	15.433	
7,500.0	7,439.6	7,429.6	7,434.2	23.9	7.9	-129.26	345.4	-71.3	500.2	467.7	32.50	15.393	
7,600.0	7,539.6	7,530.9	7,535.4	23.9	8.0	-129.66	342.1	-69.8	501.2	468.5	32.67	15.344	
7,700.0	7,639.6	7,632.2	7,636.7	24.0	8.1	-130.04	339.1	-68.2	501.9	469.1	32.83	15.288	
7,800.0	7,739.6	7,732.8	7,737.2	24.0	8.2	-130.45	336.0	-66.4	502.4	469.5	32.99	15.228	
7,900.0	7,839.6	7,833.8	7,838.1	24.1	8.3	-130.86	333.0	-64.4	502.9	469.7	33.16	15.166	
8,000.0	7,939.6	7,934.7	7,939.0	24.1	8.5	-131.25	330.3	-62.2	503.1	469.7	33.32	15.098	
8,100.0	8,039.6	8,035.0	8,039.2	24.2	8.6	-131.66	327.5	-60.0	503.2	469.7	33.48	15.031	
8,200.0	8,139.6	8,135.3	8,139.5	24.2	8.7	-132.05	324.9	-57.7	503.2	469.6	33.63	14.963	
8,300.0	8,239.6	8,234.7	8,238.8	24.3	8.8	-132.49	322.0	-55.2	503.4	469.6	33.79	14.898	
8,400.0	8,339.6	8,333.7	8,337.7	24.3	8.9	-132.95	318.9	-52.6	503.6	469.7	33.94	14.838	
8,500.0	8,439.6	8,430.1	8,434.0	24.3	9.1	-133.37	315.8	-50.5	504.2	470.2	34.07	14.800	
8,600.0	8,539.6	8,530.5	8,534.3	24.4	9.2	-133.78	312.5	-48.7	505.1	470.9	34.23	14.758	
8,700.0	8,639.6	8,627.7	8,631.4	24.4	9.3	-134.13	309.5	-47.4	506.4	472.0	34.35	14.741 SF	
8,800.0	8,739.6	8,712.3	8,716.0	24.5	9.3	-134.53	305.4	-46.5	509.0	474.7	34.38	14.808	
8,900.0	8,839.6	8,787.6	8,790.4	24.5	9.4	-135.64	294.6	-43.3	516.2	481.8	34.42	14.999	
9,000.0	8,939.6	8,856.0	8,855.8	24.6	9.5	-137.59	276.2	-36.3	529.1	494.6	34.49	15.341	
9,100.0	9,039.6	8,911.7	8,906.5	24.6	9.7	-139.81	254.8	-28.0	549.4	514.9	34.45	15.946	
9,200.0	9,139.6	8,964.6	8,952.3	24.7	9.8	-142.24	230.0	-18.6	577.7	543.3	34.41	16.789	
9,300.0	9,239.6	9,012.4	8,991.1	24.7	9.9	-144.65	203.9	-8.9	614.2	579.8	34.33	17.889	
9,400.0	9,339.6	9,057.7	9,025.5	24.8	10.1	-147.08	176.3	1.5	658.4	624.1	34.27	19.209	
9,500.0	9,439.6	9,119.1	9,068.5	24.8	10.2	-150.55	136.2	19.1	708.8	674.4	34.42	20.592	
9,600.0	9,539.6	9,169.0	9,100.1	24.9	10.3	-153.56	102.4	37.7	764.1	729.6	34.48	22.164	
9,700.0	9,639.6	9,188.0	9,111.2	24.9	10.4	-154.72	89.0	45.4	825.2	790.7	34.41	23.981	
9,800.0	9,739.6	9,218.0	9,127.4	25.0	10.4	-156.53	67.0	57.7	891.9	857.4	34.50	25.849	
9,900.0	9,839.6	9,218.0	9,127.4	25.0	10.4	-156.53	67.0	57.7	963.3	928.7	34.56	27.875	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.4	3.0	3.0	89.62	0.4	60.0	60.0					
100.0	100.0	99.6	100.0	3.0	3.0	89.62	0.4	60.0	60.0	53.5	6.48	9.256		
200.0	200.0	199.6	200.0	3.2	3.2	89.62	0.4	60.0	60.0	53.3	6.72	8.926		
300.0	300.0	299.6	300.0	3.3	3.3	89.62	0.4	60.0	60.0	53.0	6.95	8.629		
400.0	400.0	399.6	400.0	3.4	3.4	89.62	0.4	60.0	60.0	52.8	7.18	8.360		
500.0	500.0	499.6	500.0	3.5	3.5	89.62	0.4	60.0	60.0	52.6	7.39	8.116		
600.0	600.0	599.6	600.0	3.7	3.7	89.62	0.4	60.0	60.0	52.4	7.60	7.892		
700.0	700.0	699.6	700.0	3.8	3.8	89.62	0.4	60.0	60.0	52.2	7.81	7.686		
800.0	800.0	799.6	800.0	3.9	3.9	89.62	0.4	60.0	60.0	52.0	8.00	7.496		
900.0	900.0	899.6	900.0	4.0	4.0	89.62	0.4	60.0	60.0	51.8	8.20	7.319		
1,000.0	1,000.0	999.6	1,000.0	4.2	4.2	89.62	0.4	60.0	60.0	51.6	8.39	7.155		
1,100.0	1,100.0	1,099.6	1,100.0	4.3	4.3	89.62	0.4	60.0	60.0	51.4	8.57	7.001		
1,200.0	1,200.0	1,199.6	1,200.0	4.4	4.5	89.62	0.4	60.0	60.0	51.2	8.84	6.784 CC, ES		
1,300.0	1,300.0	1,297.7	1,298.1	4.6	4.7	64.96	1.0	61.5	60.8	51.6	9.21	6.607		
1,400.0	1,399.8	1,395.7	1,395.9	4.9	4.9	67.38	2.9	66.2	63.4	53.8	9.63	6.582 SF		
1,500.0	1,499.5	1,493.5	1,493.4	5.2	5.2	70.98	6.0	73.9	67.9	57.9	10.04	6.767		
1,600.0	1,598.7	1,591.0	1,590.2	5.5	5.5	75.22	10.4	84.7	74.7	64.2	10.42	7.165		
1,700.0	1,697.5	1,688.2	1,686.2	5.8	5.8	79.61	15.9	98.5	83.8	73.0	10.78	7.773		
1,800.0	1,795.9	1,785.0	1,781.4	6.1	6.1	82.97	22.7	115.2	95.7	84.6	11.14	8.591		
1,900.0	1,894.4	1,881.3	1,875.3	6.4	6.5	84.40	30.6	134.8	110.4	98.8	11.53	9.574		
2,000.0	1,992.9	1,977.9	1,968.8	6.7	6.8	84.52	39.7	157.2	127.3	115.5	11.86	10.739		
2,100.0	2,091.4	2,076.3	2,063.9	7.0	7.1	84.38	49.2	180.8	144.9	132.7	12.27	11.814		
2,200.0	2,189.9	2,174.7	2,158.9	7.3	7.4	84.28	58.8	204.4	162.5	149.8	12.71	12.791		
2,300.0	2,288.4	2,273.2	2,254.0	7.7	7.8	84.19	68.3	228.1	180.1	167.0	13.16	13.689		
2,400.0	2,386.8	2,371.6	2,349.1	8.0	8.2	84.12	77.8	251.7	197.7	184.1	13.62	14.515		
2,500.0	2,485.3	2,470.1	2,444.2	8.4	8.5	84.06	87.4	275.3	215.3	201.2	14.09	15.277		
2,600.0	2,583.8	2,568.5	2,539.3	8.8	8.9	84.01	96.9	298.9	232.9	218.3	14.57	15.980		
2,700.0	2,682.3	2,666.9	2,634.4	9.2	9.3	83.97	106.5	322.6	250.5	235.4	15.06	16.628		
2,800.0	2,780.8	2,765.4	2,729.5	9.6	9.8	83.93	116.0	346.2	268.1	252.5	15.56	17.228		
2,900.0	2,879.2	2,863.8	2,824.5	10.0	10.2	83.90	125.6	369.8	285.7	269.6	16.07	17.783		
3,000.0	2,977.7	2,962.3	2,919.6	10.4	10.6	83.87	135.1	393.4	303.3	286.7	16.57	18.298		
3,100.0	3,076.2	3,060.7	3,014.7	10.8	11.0	83.84	144.7	417.0	320.9	303.8	17.09	18.776		
3,200.0	3,174.7	3,159.1	3,109.8	11.2	11.5	83.82	154.2	440.7	338.5	320.9	17.61	19.220		
3,300.0	3,273.2	3,257.6	3,204.9	11.6	11.9	83.80	163.7	464.3	356.1	337.9	18.13	19.635		
3,400.0	3,371.6	3,356.0	3,300.0	12.0	12.3	83.78	173.3	487.9	373.7	355.0	18.66	20.021		
3,500.0	3,470.1	3,454.4	3,395.0	12.4	12.8	83.76	182.8	511.5	391.3	372.1	19.20	20.382		
3,600.0	3,568.6	3,552.9	3,490.1	12.9	13.2	83.75	192.4	535.2	408.9	389.1	19.73	20.721		
3,700.0	3,667.1	3,651.3	3,585.2	13.3	13.7	83.73	201.9	558.8	426.5	406.2	20.27	21.037		
3,800.0	3,765.6	3,749.8	3,680.3	13.7	14.2	83.72	211.5	582.4	444.1	423.2	20.81	21.335		
3,900.0	3,864.0	3,848.2	3,775.4	14.1	14.6	83.70	221.0	606.0	461.6	440.3	21.36	21.614		
4,000.0	3,962.5	3,946.6	3,870.5	14.6	15.1	83.69	230.6	629.6	479.2	457.3	21.91	21.877		
4,100.0	4,061.0	4,045.1	3,965.6	15.0	15.5	83.68	240.1	653.3	496.8	474.4	22.46	22.125		
4,200.0	4,159.5	4,143.5	4,060.6	15.4	16.0	83.67	249.6	676.9	514.4	491.4	23.01	22.359		
4,300.0	4,258.0	4,242.0	4,155.7	15.9	16.5	83.66	259.2	700.5	532.0	508.5	23.56	22.581		
4,400.0	4,356.4	4,340.4	4,250.8	16.3	16.9	83.66	268.7	724.1	549.6	525.5	24.12	22.790		
4,500.0	4,454.9	4,438.8	4,345.9	16.7	17.4	83.65	278.3	747.8	567.2	542.6	24.68	22.988		
4,600.0	4,553.4	4,537.3	4,441.0	17.2	17.9	83.64	287.8	771.4	584.8	559.6	25.23	23.176		
4,700.0	4,651.9	4,635.7	4,536.1	17.6	18.3	83.63	297.4	795.0	602.4	576.6	25.79	23.354		
4,800.0	4,750.4	4,734.2	4,631.2	18.1	18.8	83.63	306.9	818.6	620.0	593.7	26.36	23.524		
4,900.0	4,848.9	4,832.6	4,726.2	18.5	19.3	83.62	316.5	842.3	637.6	610.7	26.92	23.685		
5,000.0	4,947.3	4,931.0	4,821.3	18.9	19.7	83.61	326.0	865.9	655.2	627.7	27.49	23.838		
5,100.0	5,045.8	5,029.5	4,916.4	19.4	20.2	83.61	335.5	889.5	672.8	644.8	28.05	23.985		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,144.3	5,127.9	5,011.5	19.8	20.7	83.65	345.1	913.1	690.4	661.8	28.60	24.143		
5,300.0	5,243.0	5,226.3	5,106.5	20.2	21.2	83.71	354.6	936.7	708.2	679.0	29.19	24.261		
5,400.0	5,342.0	5,324.7	5,201.5	20.7	21.6	83.64	364.2	960.3	726.1	696.3	29.81	24.357		
5,500.0	5,441.2	5,422.9	5,296.4	21.1	22.1	83.45	373.7	983.9	744.2	713.8	30.46	24.431		
5,600.0	5,540.6	5,521.0	5,391.2	21.5	22.6	83.15	383.2	1,007.4	762.6	731.5	31.15	24.485		
5,700.0	5,640.2	5,618.9	5,485.7	21.9	23.1	82.75	392.7	1,030.9	781.3	749.4	31.86	24.521		
5,800.0	5,739.9	5,716.6	5,580.1	22.2	23.6	82.25	402.2	1,054.4	800.3	767.7	32.61	24.541		
5,900.0	5,839.7	5,814.1	5,674.3	22.6	24.0	81.67	411.6	1,077.8	819.6	786.2	33.39	24.548		
6,000.0	5,939.7	5,911.4	5,768.3	22.9	24.5	81.01	421.0	1,101.1	839.3	805.1	34.20	24.543		
6,100.0	6,039.6	6,008.4	5,862.0	23.2	25.0	80.29	430.4	1,124.4	859.6	824.5	35.04	24.532		
6,200.0	6,139.6	6,105.1	5,955.3	23.3	25.4	104.96	439.8	1,147.6	880.3	844.4	35.88	24.533		
6,300.0	6,239.6	6,201.7	6,048.6	23.3	25.9	103.98	449.2	1,170.8	901.4	864.6	36.75	24.530		
6,400.0	6,339.6	6,298.2	6,141.9	23.4	26.4	103.05	458.6	1,194.0	922.7	885.1	37.60	24.536		
6,500.0	6,439.6	6,394.8	6,235.2	23.4	26.9	102.15	467.9	1,217.1	944.2	905.7	38.46	24.552		
6,600.0	6,539.6	6,491.4	6,328.5	23.5	27.3	101.30	477.3	1,240.3	966.0	926.6	39.31	24.575		
6,700.0	6,639.6	6,590.4	6,424.1	23.5	27.8	100.45	487.2	1,263.9	987.7	947.5	40.17	24.589		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.1	3.0	3.0	89.62	0.2	30.0	30.0					
100.0	100.0	99.9	100.0	3.0	3.0	89.62	0.2	30.0	30.0	23.5	6.48	4.628		
200.0	200.0	199.9	200.0	3.2	3.2	89.62	0.2	30.0	30.0	23.3	6.72	4.463		
300.0	300.0	299.9	300.0	3.3	3.3	89.62	0.2	30.0	30.0	23.0	6.95	4.314		
400.0	400.0	399.9	400.0	3.4	3.4	89.62	0.2	30.0	30.0	22.8	7.18	4.180		
500.0	500.0	499.9	500.0	3.5	3.5	89.62	0.2	30.0	30.0	22.6	7.39	4.058		
600.0	600.0	599.9	600.0	3.7	3.7	89.62	0.2	30.0	30.0	22.4	7.60	3.946		
700.0	700.0	699.9	700.0	3.8	3.8	89.62	0.2	30.0	30.0	22.2	7.81	3.843		
800.0	800.0	799.9	800.0	3.9	3.9	89.62	0.2	30.0	30.0	22.0	8.01	3.748		
900.0	900.0	899.9	900.0	4.0	4.0	89.62	0.2	30.0	30.0	21.8	8.20	3.659		
1,000.0	1,000.0	999.9	1,000.0	4.2	4.2	89.62	0.2	30.0	30.0	21.6	8.39	3.577		
1,100.0	1,100.0	1,099.9	1,100.0	4.3	4.3	89.62	0.2	30.0	30.0	21.4	8.57	3.500		
1,200.0	1,200.0	1,199.9	1,200.0	4.4	4.5	89.62	0.2	30.0	30.0	21.2	8.84	3.392 CC, ES		
1,300.0	1,300.0	1,299.0	1,299.1	4.6	4.7	65.21	1.2	31.4	30.7	21.5	9.19	3.338 SF		
1,400.0	1,399.8	1,398.1	1,398.1	4.9	4.9	68.24	4.1	35.7	32.8	23.2	9.59	3.416		
1,500.0	1,499.5	1,497.1	1,496.7	5.2	5.2	72.49	8.9	42.7	36.4	26.5	9.97	3.656		
1,600.0	1,598.7	1,596.0	1,594.8	5.5	5.5	77.12	15.6	52.6	41.8	31.5	10.32	4.055		
1,700.0	1,697.5	1,694.6	1,692.3	5.8	5.8	81.51	24.2	65.2	49.1	38.4	10.65	4.609		
1,800.0	1,795.9	1,793.1	1,788.9	6.1	6.2	83.81	34.7	80.5	58.4	47.4	10.99	5.311		
1,900.0	1,894.4	1,891.7	1,885.2	6.4	6.4	83.37	46.9	98.4	69.5	58.2	11.28	6.161		
2,000.0	1,992.9	1,991.1	1,982.0	6.7	6.7	82.72	59.5	116.8	81.0	69.3	11.66	6.943		
2,100.0	2,091.4	2,090.4	2,078.8	7.0	7.1	82.23	72.1	135.3	92.5	80.4	12.06	7.666		
2,200.0	2,189.9	2,189.7	2,175.6	7.3	7.4	81.85	84.7	153.7	104.0	91.5	12.47	8.336		
2,300.0	2,288.4	2,289.1	2,272.3	7.7	7.8	81.55	97.3	172.2	115.5	102.6	12.89	8.957		
2,400.0	2,386.8	2,388.4	2,369.1	8.0	8.1	81.30	109.9	190.6	127.0	113.7	13.32	9.534		
2,500.0	2,485.3	2,487.7	2,465.9	8.4	8.5	81.09	122.5	209.1	138.5	124.7	13.75	10.069		
2,600.0	2,583.8	2,587.1	2,562.7	8.8	8.9	80.91	135.2	227.5	150.0	135.8	14.19	10.566		
2,700.0	2,682.3	2,686.4	2,659.5	9.2	9.3	80.76	147.8	246.0	161.5	146.8	14.64	11.029		
2,800.0	2,780.8	2,785.7	2,756.3	9.6	9.7	80.63	160.4	264.4	173.0	157.9	15.10	11.461		
2,900.0	2,879.2	2,885.1	2,853.1	10.0	10.1	80.52	173.0	282.9	184.5	169.0	15.55	11.863		
3,000.0	2,977.7	2,984.4	2,949.9	10.4	10.6	80.41	185.6	301.3	196.0	180.0	16.02	12.239		
3,100.0	3,076.2	3,083.7	3,046.7	10.8	11.0	80.32	198.2	319.8	207.5	191.0	16.48	12.590		
3,200.0	3,174.7	3,183.1	3,143.4	11.2	11.4	80.24	210.8	338.2	219.0	202.1	16.96	12.919		
3,300.0	3,273.2	3,282.4	3,240.2	11.6	11.9	80.17	223.4	356.7	230.6	213.1	17.43	13.227		
3,400.0	3,371.6	3,381.7	3,337.0	12.0	12.3	80.11	236.0	375.1	242.1	224.2	17.91	13.517		
3,500.0	3,470.1	3,481.1	3,433.8	12.4	12.7	80.05	248.6	393.6	253.6	235.2	18.39	13.789		
3,600.0	3,568.6	3,580.4	3,530.6	12.9	13.2	79.99	261.2	412.0	265.1	246.2	18.87	14.045		
3,700.0	3,667.1	3,679.7	3,627.4	13.3	13.6	79.94	273.8	430.5	276.6	257.2	19.36	14.287		
3,800.0	3,765.6	3,779.1	3,724.2	13.7	14.1	79.90	286.4	448.9	288.1	268.3	19.85	14.515		
3,900.0	3,864.0	3,878.4	3,821.0	14.1	14.5	79.85	299.0	467.4	299.6	279.3	20.34	14.730		
4,000.0	3,962.5	3,977.7	3,917.8	14.6	15.0	79.81	311.6	485.8	311.1	290.3	20.83	14.934		
4,100.0	4,061.0	4,077.1	4,014.5	15.0	15.4	79.78	324.2	504.3	322.7	301.3	21.33	15.127		
4,200.0	4,159.5	4,176.4	4,111.3	15.4	15.9	79.74	336.8	522.7	334.2	312.3	21.83	15.310		
4,300.0	4,258.0	4,275.8	4,208.1	15.9	16.3	79.71	349.4	541.2	345.7	323.4	22.33	15.483		
4,400.0	4,356.4	4,375.1	4,304.9	16.3	16.8	79.68	362.0	559.6	357.2	334.4	22.83	15.648		
4,500.0	4,454.9	4,474.4	4,401.7	16.7	17.3	79.65	374.7	578.1	368.7	345.4	23.33	15.805		
4,600.0	4,553.4	4,573.8	4,498.5	17.2	17.7	79.63	387.3	596.5	380.2	356.4	23.83	15.954		
4,700.0	4,651.9	4,673.1	4,595.3	17.6	18.2	79.60	399.9	615.0	391.7	367.4	24.34	16.097		
4,800.0	4,750.4	4,772.4	4,692.1	18.1	18.6	79.58	412.5	633.4	403.3	378.4	24.84	16.232		
4,900.0	4,848.9	4,871.8	4,788.9	18.5	19.1	79.56	425.1	651.9	414.8	389.4	25.35	16.362		
5,000.0	4,947.3	4,971.1	4,885.6	18.9	19.6	79.54	437.7	670.3	426.3	400.4	25.86	16.486		
5,100.0	5,045.8	5,070.4	4,982.4	19.4	20.0	79.52	450.3	688.8	437.8	411.4	26.37	16.604		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,200.0	5,144.3	5,169.8	5,079.2	19.8	20.5	79.52	462.9	707.2	449.3	422.5	26.85	16.732	
5,300.0	5,243.0	5,269.1	5,176.0	20.2	21.0	79.46	475.5	725.7	461.1	433.7	27.41	16.822	
5,400.0	5,342.0	5,368.3	5,272.6	20.7	21.4	79.19	488.1	744.1	473.2	445.2	28.02	16.888	
5,500.0	5,441.2	5,467.4	5,369.2	21.1	21.9	78.75	500.7	762.5	485.6	456.9	28.68	16.930	
5,600.0	5,540.6	5,566.4	5,465.6	21.5	22.4	78.14	513.2	780.9	498.5	469.1	29.41	16.950	
5,700.0	5,640.2	5,665.2	5,561.9	21.9	22.8	77.38	525.8	799.3	511.8	481.6	30.19	16.952	
5,800.0	5,739.9	5,763.8	5,658.0	22.2	23.3	76.49	538.3	817.6	525.6	494.6	31.03	16.938	
5,900.0	5,839.7	5,862.1	5,753.8	22.6	23.8	75.48	550.8	835.8	540.0	508.1	31.93	16.912	
6,000.0	5,939.7	5,960.3	5,849.4	22.9	24.2	74.36	563.2	854.1	555.1	522.2	32.89	16.880	
6,100.0	6,039.6	6,058.1	5,944.8	23.2	24.7	73.15	575.6	872.2	571.0	537.1	33.89	16.848	
6,200.0	6,139.6	6,158.1	6,042.3	23.3	25.2	97.31	588.3	890.8	587.6	552.7	34.90	16.835	
6,300.0	6,239.6	6,264.3	6,146.1	23.3	25.6	95.88	600.9	909.2	603.6	567.7	35.93	16.802	
6,400.0	6,339.6	6,371.3	6,251.1	23.4	26.1	94.64	612.5	926.2	618.5	581.7	36.88	16.771	
6,500.0	6,439.6	6,479.1	6,357.2	23.4	26.6	93.57	623.0	941.6	632.2	594.5	37.77	16.739	
6,600.0	6,539.6	6,587.5	6,464.3	23.5	27.1	92.64	632.5	955.5	644.6	606.0	38.59	16.704	
6,700.0	6,639.6	6,696.5	6,572.3	23.5	27.6	91.86	640.9	967.8	655.6	616.2	39.34	16.664	
6,800.0	6,739.6	6,806.1	6,681.1	23.6	28.0	91.20	648.1	978.4	665.1	625.1	40.03	16.617	
6,900.0	6,839.6	6,916.1	6,790.6	23.6	28.5	90.66	654.2	987.3	673.2	632.5	40.64	16.564	
7,000.0	6,939.6	7,026.5	6,900.7	23.6	28.9	90.24	659.2	994.5	679.7	638.5	41.19	16.502	
7,100.0	7,039.6	7,137.2	7,011.2	23.7	29.3	89.92	662.9	1,000.0	684.6	643.0	41.66	16.435	
7,200.0	7,139.6	7,248.1	7,122.0	23.7	29.6	89.71	665.5	1,003.7	688.0	645.9	42.05	16.363	
7,300.0	7,239.6	7,359.2	7,233.0	23.8	29.9	89.60	666.8	1,005.7	689.7	647.4	42.33	16.294	
7,400.0	7,339.6	7,465.8	7,339.6	23.8	30.1	89.58	667.0	1,006.0	690.0	647.6	42.46	16.252	
7,500.0	7,439.6	7,565.8	7,439.6	23.9	30.1	89.58	667.0	1,006.0	690.0	647.5	42.54	16.219	
7,600.0	7,539.6	7,665.8	7,539.6	23.9	30.1	89.58	667.0	1,006.0	690.0	647.4	42.63	16.184	
7,700.0	7,639.6	7,765.8	7,639.6	24.0	30.2	89.58	667.0	1,006.0	690.0	647.3	42.73	16.150	
7,800.0	7,739.6	7,865.8	7,739.6	24.0	30.2	89.58	667.0	1,006.0	690.0	647.2	42.82	16.115	
7,900.0	7,839.6	7,965.8	7,839.6	24.1	30.2	89.58	667.0	1,006.0	690.0	647.1	42.91	16.080	
8,000.0	7,939.6	8,065.8	7,939.6	24.1	30.3	89.58	667.0	1,006.0	690.0	647.0	43.00	16.046	
8,100.0	8,039.6	8,165.8	8,039.6	24.2	30.3	89.58	667.0	1,006.0	690.0	646.9	43.10	16.011	
8,200.0	8,139.6	8,265.8	8,139.6	24.2	30.3	89.58	667.0	1,006.0	690.0	646.8	43.19	15.976	
8,300.0	8,239.6	8,365.8	8,239.6	24.3	30.4	89.58	667.0	1,006.0	690.0	646.7	43.28	15.942	
8,400.0	8,339.6	8,465.8	8,339.6	24.3	30.4	89.58	667.0	1,006.0	690.0	646.6	43.38	15.907	
8,500.0	8,439.6	8,565.8	8,439.6	24.3	30.4	89.58	667.0	1,006.0	690.0	646.5	43.47	15.872	
8,600.0	8,539.6	8,665.8	8,539.6	24.4	30.5	89.58	667.0	1,006.0	690.0	646.5	43.57	15.838	
8,700.0	8,639.6	8,765.8	8,639.6	24.4	30.5	89.58	667.0	1,006.0	690.0	646.4	43.66	15.803	
8,800.0	8,739.6	8,865.8	8,739.6	24.5	30.5	89.58	667.0	1,006.0	690.0	646.3	43.76	15.768	
8,900.0	8,839.6	8,965.8	8,839.6	24.5	30.6	89.58	667.0	1,006.0	690.0	646.2	43.86	15.734	
9,000.0	8,939.6	9,065.8	8,939.6	24.6	30.6	89.58	667.0	1,006.0	690.0	646.1	43.95	15.699	
9,100.0	9,039.6	9,165.8	9,039.6	24.6	30.6	89.58	667.0	1,006.0	690.0	646.0	44.05	15.665	
9,200.0	9,139.6	9,265.8	9,139.6	24.7	30.7	89.58	667.0	1,006.0	690.0	645.9	44.15	15.630	
9,300.0	9,239.6	9,365.8	9,239.6	24.7	30.7	89.58	667.0	1,006.0	690.0	645.8	44.24	15.596	
9,400.0	9,339.6	9,465.8	9,339.6	24.8	30.7	89.58	667.0	1,006.0	690.0	645.7	44.34	15.561	
9,500.0	9,439.6	9,565.8	9,439.6	24.8	30.8	89.58	667.0	1,006.0	690.0	645.6	44.44	15.527	
9,600.0	9,539.6	9,665.8	9,539.6	24.9	30.8	89.58	667.0	1,006.0	690.0	645.5	44.54	15.492	
9,700.0	9,639.6	9,765.8	9,639.6	24.9	30.8	89.58	667.0	1,006.0	690.0	645.4	44.64	15.458	
9,800.0	9,739.6	9,865.8	9,739.6	25.0	30.9	89.58	667.0	1,006.0	690.0	645.3	44.74	15.423	
9,900.0	9,839.6	9,965.8	9,839.6	25.0	30.9	89.58	667.0	1,006.0	690.0	645.2	44.84	15.389	
10,000.0	9,939.6	10,065.8	9,939.6	25.1	31.0	89.58	667.0	1,006.0	690.0	645.1	44.94	15.354	
10,100.0	10,039.6	10,165.8	10,039.6	25.1	31.0	89.58	667.0	1,006.0	690.0	645.0	45.04	15.320	
10,200.0	10,139.6	10,265.8	10,139.6	25.2	31.0	89.58	667.0	1,006.0	690.0	644.9	45.14	15.286	
10,300.0	10,239.6	10,365.8	10,239.6	25.2	31.1	89.58	667.0	1,006.0	690.0	644.8	45.24	15.252	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,400.0	10,339.6	10,465.8	10,339.6	25.3	31.1	89.58	667.0	1,006.0	690.0	644.7	45.34	15.217	
10,500.0	10,439.6	10,565.8	10,439.6	25.3	31.1	89.58	667.0	1,006.0	690.0	644.6	45.45	15.183	
10,600.0	10,539.6	10,665.8	10,539.6	25.4	31.2	89.58	667.0	1,006.0	690.0	644.5	45.55	15.149	
10,700.0	10,639.6	10,765.8	10,639.6	25.4	31.2	89.58	667.0	1,006.0	690.0	644.4	45.65	15.115	
10,800.0	10,739.6	10,865.8	10,739.6	25.5	31.3	89.58	667.0	1,006.0	690.0	644.3	45.75	15.081	
10,900.0	10,839.6	10,965.8	10,839.6	25.6	31.3	89.58	667.0	1,006.0	690.0	644.2	45.86	15.047	
11,000.0	10,939.6	11,065.8	10,939.6	25.6	31.3	89.58	667.0	1,006.0	690.0	644.1	45.96	15.013	
11,100.0	11,039.6	11,165.8	11,039.6	25.7	31.4	89.58	667.0	1,006.0	690.0	644.0	46.07	14.979	
11,200.0	11,139.6	11,265.8	11,139.6	25.7	31.4	89.58	667.0	1,006.0	690.0	643.8	46.17	14.945	
11,300.0	11,239.6	11,365.8	11,239.6	25.8	31.4	89.58	667.0	1,006.0	690.0	643.7	46.28	14.911	
11,400.0	11,339.6	11,465.8	11,339.6	25.8	31.5	89.58	667.0	1,006.0	690.0	643.6	46.38	14.877	
11,500.0	11,439.6	11,565.8	11,439.6	25.9	31.5	89.58	667.0	1,006.0	690.0	643.5	46.49	14.844	
11,600.0	11,539.6	11,665.8	11,539.6	25.9	31.6	89.58	667.0	1,006.0	690.0	643.4	46.59	14.810	
11,604.4	11,544.1	11,670.3	11,544.1	25.9	31.6	-90.07	667.0	1,006.0	690.0	643.4	46.59	14.809	
11,700.0	11,639.5	11,765.7	11,639.5	25.8	31.6	-90.35	667.0	1,006.0	690.0	643.3	46.74	14.762	
11,800.0	11,736.8	11,866.8	11,740.2	25.5	31.5	-91.60	659.8	1,006.0	690.3	643.2	47.09	14.658	
11,900.0	11,827.4	11,971.6	11,840.6	25.1	31.2	-92.84	630.5	1,006.2	690.9	643.7	47.22	14.631	
12,000.0	11,907.3	12,080.1	11,935.3	24.7	30.9	-93.96	578.0	1,006.5	691.7	644.6	47.08	14.691	
12,100.0	11,972.9	12,192.2	12,018.0	24.5	30.7	-94.92	502.7	1,007.0	692.6	645.9	46.68	14.838	
12,200.0	12,021.5	12,307.3	12,082.3	24.2	30.5	-95.64	407.6	1,007.6	693.4	647.3	46.07	15.052	
12,300.0	12,051.0	12,424.7	12,122.7	24.1	30.4	-96.09	297.7	1,008.3	693.9	648.6	45.35	15.301	
12,400.0	12,060.0	12,541.7	12,135.1	24.1	30.4	-96.21	181.6	1,009.0	694.1	649.4	44.70	15.528	
12,500.0	12,060.0	12,641.7	12,135.1	24.1	30.4	-96.21	81.6	1,009.6	694.1	649.5	44.60	15.563	
12,600.0	12,060.0	12,741.7	12,135.1	24.1	30.5	-96.21	-18.4	1,010.2	694.1	649.5	44.55	15.581	
12,700.0	12,060.0	12,841.7	12,135.1	24.2	30.6	-96.21	-118.4	1,010.8	694.1	649.5	44.55	15.580	
12,800.0	12,060.0	12,941.7	12,135.1	24.2	30.7	-96.21	-218.4	1,011.4	694.1	649.5	44.60	15.561	
12,900.0	12,060.0	13,041.7	12,135.1	24.3	30.8	-96.21	-318.4	1,012.0	694.1	649.4	44.71	15.524	
13,000.0	12,060.0	13,141.7	12,135.1	24.3	30.9	-96.21	-418.4	1,012.6	694.1	649.2	44.87	15.470	
13,100.0	12,060.0	13,241.7	12,135.1	24.4	31.1	-96.21	-518.4	1,013.2	694.1	649.0	45.07	15.399	
13,200.0	12,060.0	13,341.7	12,135.1	24.5	31.2	-96.21	-618.4	1,013.8	694.1	648.8	45.33	15.311	
13,300.0	12,060.0	13,441.7	12,135.1	24.6	31.4	-96.21	-718.4	1,014.4	694.1	648.5	45.64	15.208	
13,400.0	12,060.0	13,541.7	12,135.1	24.7	31.6	-96.21	-818.4	1,015.1	694.1	648.1	45.99	15.091	
13,500.0	12,060.0	13,641.7	12,135.1	24.8	31.8	-96.21	-918.4	1,015.7	694.1	647.7	46.39	14.961	
13,600.0	12,060.0	13,741.7	12,135.1	24.9	32.0	-96.21	-1,018.4	1,016.3	694.1	647.2	46.84	14.818	
13,700.0	12,060.0	13,841.7	12,135.1	25.0	32.2	-96.21	-1,118.4	1,016.9	694.1	646.8	47.33	14.664	
13,800.0	12,060.0	13,941.7	12,135.1	25.2	32.5	-96.21	-1,218.4	1,017.5	694.1	646.2	47.87	14.500	
13,900.0	12,060.0	14,041.7	12,135.1	25.3	32.7	-96.21	-1,318.4	1,018.1	694.1	645.6	48.44	14.328	
14,000.0	12,060.0	14,141.7	12,135.1	25.5	33.0	-96.21	-1,418.4	1,018.7	694.1	645.0	49.06	14.148	
14,100.0	12,060.0	14,241.7	12,135.1	25.7	33.3	-96.21	-1,518.4	1,019.3	694.1	644.4	49.72	13.961	
14,200.0	12,060.0	14,341.7	12,135.1	25.9	33.5	-96.21	-1,618.4	1,019.9	694.1	643.7	50.41	13.769	
14,300.0	12,060.0	14,441.7	12,135.1	26.2	33.8	-96.21	-1,718.4	1,020.5	694.1	643.0	51.14	13.573	
14,400.0	12,060.0	14,541.7	12,135.1	26.4	34.2	-96.21	-1,818.4	1,021.2	694.1	642.2	51.90	13.374	
14,500.0	12,060.0	14,641.7	12,135.1	26.7	34.5	-96.21	-1,918.4	1,021.8	694.1	641.4	52.69	13.173	
14,600.0	12,060.0	14,741.7	12,135.1	27.0	34.8	-96.21	-2,018.3	1,022.4	694.1	640.6	53.52	12.969	
14,700.0	12,060.0	14,841.7	12,135.1	27.3	35.2	-96.21	-2,118.3	1,023.0	694.1	639.7	54.37	12.765	
14,800.0	12,060.0	14,941.7	12,135.1	27.6	35.5	-96.21	-2,218.3	1,023.6	694.1	638.8	55.26	12.561	
14,900.0	12,060.0	15,041.7	12,135.1	28.0	35.9	-96.21	-2,318.3	1,024.2	694.1	637.9	56.17	12.358	
15,000.0	12,060.0	15,141.7	12,135.1	28.4	36.3	-96.21	-2,418.3	1,024.8	694.1	637.0	57.10	12.155	
15,100.0	12,060.0	15,241.7	12,135.1	28.8	36.7	-96.21	-2,518.3	1,025.4	694.1	636.0	58.06	11.954	
15,200.0	12,060.0	15,341.7	12,135.1	29.2	37.1	-96.21	-2,618.3	1,026.0	694.1	635.0	59.05	11.755	
15,300.0	12,060.0	15,441.7	12,135.1	29.7	37.5	-96.21	-2,718.3	1,026.6	694.1	634.0	60.05	11.558	
15,400.0	12,060.0	15,541.7	12,135.1	30.2	37.9	-96.21	-2,818.3	1,027.3	694.1	633.0	61.08	11.364	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,500.0	12,060.0	15,641.7	12,135.1	30.6	38.3	-96.21	-2,918.3	1,027.9	694.1	632.0	62.13	11.172	
15,600.0	12,060.0	15,741.7	12,135.1	31.2	38.8	-96.21	-3,018.3	1,028.5	694.1	630.9	63.19	10.984	
15,700.0	12,060.0	15,841.7	12,135.1	31.7	39.2	-96.21	-3,118.3	1,029.1	694.1	629.8	64.28	10.799	
15,800.0	12,060.0	15,941.7	12,135.1	32.2	39.7	-96.21	-3,218.3	1,029.7	694.1	628.7	65.38	10.617	
15,900.0	12,060.0	16,041.7	12,135.1	32.8	40.2	-96.21	-3,318.3	1,030.3	694.1	627.6	66.49	10.438	
16,000.0	12,060.0	16,141.7	12,135.1	33.3	40.7	-96.21	-3,418.3	1,030.9	694.1	626.5	67.63	10.264	
16,100.0	12,060.0	16,241.7	12,135.1	33.9	41.2	-96.21	-3,518.3	1,031.5	694.1	625.3	68.77	10.093	
16,200.0	12,060.0	16,341.7	12,135.1	34.5	41.7	-96.21	-3,618.3	1,032.1	694.1	624.2	69.93	9.925	
16,300.0	12,060.0	16,441.7	12,135.1	35.1	42.2	-96.21	-3,718.3	1,032.7	694.1	623.0	71.11	9.761	
16,400.0	12,060.0	16,541.7	12,135.1	35.7	42.7	-96.21	-3,818.3	1,033.4	694.1	621.8	72.29	9.601	
16,500.0	12,060.0	16,641.7	12,135.1	36.3	43.2	-96.21	-3,918.3	1,034.0	694.1	620.6	73.49	9.444	
16,600.0	12,060.0	16,741.7	12,135.1	37.0	43.7	-96.21	-4,018.3	1,034.6	694.1	619.4	74.70	9.291	
16,700.0	12,060.0	16,841.7	12,135.1	37.6	44.3	-96.21	-4,118.3	1,035.2	694.1	618.2	75.92	9.142	
16,800.0	12,060.0	16,941.7	12,135.1	38.2	44.8	-96.21	-4,218.3	1,035.8	694.1	616.9	77.15	8.996	
16,900.0	12,060.0	17,041.7	12,135.1	38.9	45.4	-96.21	-4,318.3	1,036.4	694.1	615.7	78.40	8.854	
17,000.0	12,060.0	17,141.7	12,135.1	39.5	45.9	-96.21	-4,418.3	1,037.0	694.1	614.4	79.65	8.715	
17,100.0	12,060.0	17,241.7	12,135.1	40.2	46.5	-96.21	-4,518.3	1,037.6	694.1	613.2	80.90	8.579	
17,200.0	12,060.0	17,341.7	12,135.1	40.9	47.1	-96.21	-4,618.3	1,038.2	694.1	611.9	82.17	8.447	
17,300.0	12,060.0	17,441.7	12,135.1	41.5	47.6	-96.21	-4,718.3	1,038.8	694.1	610.6	83.45	8.318	
17,400.0	12,060.0	17,541.7	12,135.1	42.2	48.2	-96.21	-4,818.3	1,039.5	694.1	609.4	84.73	8.192	
17,500.0	12,060.0	17,641.7	12,135.1	42.9	48.8	-96.21	-4,918.3	1,040.1	694.1	608.1	86.02	8.069	
17,600.0	12,060.0	17,741.7	12,135.1	43.6	49.4	-96.21	-5,018.3	1,040.7	694.1	606.8	87.32	7.949	
17,700.0	12,060.0	17,841.7	12,135.1	44.2	50.0	-96.21	-5,118.3	1,041.3	694.1	605.5	88.63	7.832	
17,800.0	12,060.0	17,941.7	12,135.1	44.9	50.6	-96.21	-5,218.3	1,041.9	694.1	604.1	89.94	7.717	
17,900.0	12,060.0	18,041.7	12,135.1	45.6	51.2	-96.21	-5,318.3	1,042.5	694.1	602.8	91.25	7.606	
18,000.0	12,060.0	18,141.7	12,135.1	46.3	51.8	-96.21	-5,418.3	1,043.1	694.1	601.5	92.58	7.497	
18,100.0	12,060.0	18,241.7	12,135.1	47.0	52.4	-96.21	-5,518.3	1,043.7	694.1	600.2	93.91	7.391	
18,200.0	12,060.0	18,341.7	12,135.1	47.7	53.1	-96.21	-5,618.3	1,044.3	694.1	598.8	95.24	7.288	
18,300.0	12,060.0	18,441.7	12,135.1	48.4	53.7	-96.21	-5,718.3	1,044.9	694.1	597.5	96.58	7.187	
18,400.0	12,060.0	18,541.7	12,135.1	49.1	54.3	-96.21	-5,818.3	1,045.6	694.1	596.2	97.93	7.088	
18,500.0	12,060.0	18,641.7	12,135.1	49.8	54.9	-96.21	-5,918.3	1,046.2	694.1	594.8	99.28	6.992	
18,600.0	12,060.0	18,741.7	12,135.1	50.5	55.6	-96.21	-6,018.3	1,046.8	694.1	593.5	100.63	6.897	
18,700.0	12,060.0	18,841.7	12,135.1	51.2	56.2	-96.21	-6,118.3	1,047.4	694.1	592.1	101.99	6.806	
18,800.0	12,060.0	18,941.7	12,135.1	51.9	56.9	-96.21	-6,218.3	1,048.0	694.1	590.7	103.35	6.716	
18,900.0	12,060.0	19,041.7	12,135.1	52.6	57.5	-96.21	-6,318.3	1,048.6	694.1	589.4	104.72	6.628	
19,000.0	12,060.0	19,141.7	12,135.1	53.4	58.2	-96.21	-6,418.3	1,049.2	694.1	588.0	106.09	6.543	
19,100.0	12,060.0	19,241.7	12,135.1	54.1	58.8	-96.21	-6,518.3	1,049.8	694.1	586.6	107.46	6.459	
19,200.0	12,060.0	19,341.7	12,135.1	54.8	59.5	-96.21	-6,618.3	1,050.4	694.1	585.2	108.84	6.377	
19,300.0	12,060.0	19,441.7	12,135.1	55.5	60.1	-96.21	-6,718.3	1,051.0	694.1	583.9	110.22	6.297	
19,400.0	12,060.0	19,541.7	12,135.1	56.2	60.8	-96.21	-6,818.3	1,051.7	694.1	582.5	111.61	6.219	
19,500.0	12,060.0	19,641.7	12,135.1	57.0	61.4	-96.21	-6,918.3	1,052.3	694.1	581.1	113.00	6.143	
19,600.0	12,060.0	19,741.7	12,135.1	57.7	62.1	-96.21	-7,018.3	1,052.9	694.1	579.7	114.39	6.068	
19,700.0	12,060.0	19,841.7	12,135.1	58.4	62.8	-96.21	-7,118.3	1,053.5	694.1	578.3	115.78	5.995	
19,800.0	12,060.0	19,941.7	12,135.1	59.1	63.5	-96.21	-7,218.3	1,054.1	694.1	576.9	117.18	5.923	
19,900.0	12,060.0	20,041.7	12,135.1	59.9	64.1	-96.21	-7,318.2	1,054.7	694.1	575.5	118.58	5.853	
20,000.0	12,060.0	20,141.7	12,135.1	60.6	64.8	-96.21	-7,418.2	1,055.3	694.1	574.1	119.98	5.785	
20,100.0	12,060.0	20,241.7	12,135.1	61.3	65.5	-96.21	-7,518.2	1,055.9	694.1	572.7	121.39	5.718	
20,200.0	12,060.0	20,341.7	12,135.1	62.0	66.2	-96.21	-7,618.2	1,056.5	694.1	571.3	122.79	5.652	
20,300.0	12,060.0	20,441.7	12,135.1	62.8	66.8	-96.21	-7,718.2	1,057.1	694.1	569.9	124.20	5.588	
20,400.0	12,060.0	20,541.7	12,135.1	63.5	67.5	-96.21	-7,818.2	1,057.7	694.1	568.5	125.62	5.525	
20,500.0	12,060.0	20,641.7	12,135.1	64.2	68.2	-96.21	-7,918.2	1,058.4	694.1	567.1	127.03	5.464	
20,600.0	12,060.0	20,741.7	12,135.1	65.0	68.9	-96.21	-8,018.2	1,059.0	694.1	565.6	128.45	5.404	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
20,700.0	12,060.0	20,841.7	12,135.1	65.7	69.6	-96.21	-8,118.2	1,059.6	694.1	564.2		129.87	5.345
20,800.0	12,060.0	20,941.7	12,135.1	66.4	70.3	-96.21	-8,218.2	1,060.2	694.1	562.8		131.29	5.287
20,900.0	12,060.0	21,041.7	12,135.1	67.2	71.0	-96.21	-8,318.2	1,060.8	694.1	561.4		132.71	5.230
21,000.0	12,060.0	21,141.7	12,135.1	67.9	71.7	-96.21	-8,418.2	1,061.4	694.1	559.9		134.14	5.174
21,100.0	12,060.0	21,241.7	12,135.1	68.6	72.4	-96.21	-8,518.2	1,062.0	694.1	558.5		135.56	5.120
21,200.0	12,060.0	21,341.7	12,135.1	69.4	73.1	-96.21	-8,618.2	1,062.6	694.1	557.1		136.99	5.067
21,300.0	12,060.0	21,441.7	12,135.1	70.1	73.8	-96.21	-8,718.2	1,063.2	694.1	555.7		138.42	5.014
21,400.0	12,060.0	21,541.7	12,135.1	70.9	74.5	-96.21	-8,818.2	1,063.8	694.1	554.2		139.85	4.963
21,500.0	12,060.0	21,641.7	12,135.1	71.6	75.2	-96.21	-8,918.2	1,064.5	694.1	552.8		141.29	4.913
21,600.0	12,060.0	21,741.7	12,135.1	72.3	75.9	-96.21	-9,018.2	1,065.1	694.1	551.4		142.72	4.863
21,700.0	12,060.0	21,841.7	12,135.1	73.1	76.6	-96.21	-9,118.2	1,065.7	694.1	549.9		144.16	4.815
21,800.0	12,060.0	21,941.7	12,135.1	73.8	77.3	-96.21	-9,218.2	1,066.3	694.1	548.5		145.60	4.767
21,900.0	12,060.0	22,041.7	12,135.1	74.6	78.0	-96.21	-9,318.2	1,066.9	694.1	547.0		147.04	4.720
22,000.0	12,060.0	22,141.7	12,135.1	75.3	78.7	-96.21	-9,418.2	1,067.5	694.1	545.6		148.48	4.675
22,100.0	12,060.0	22,241.7	12,135.1	76.1	79.4	-96.21	-9,518.2	1,068.1	694.1	544.2		149.92	4.630
22,200.0	12,060.0	22,341.7	12,135.1	76.8	80.1	-96.21	-9,618.2	1,068.7	694.1	542.7		151.37	4.585
22,300.0	12,060.0	22,441.7	12,135.1	77.5	80.8	-96.21	-9,718.2	1,069.3	694.1	541.3		152.81	4.542
22,374.9	12,060.0	22,516.6	12,135.1	78.1	81.3	-96.21	-9,793.1	1,069.8	694.1	540.2		153.89	4.510

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.1	0.0	3.0	3.0	-90.57	-0.3	-29.9	29.9					
100.0	100.0	100.1	100.0	3.0	3.0	-90.57	-0.3	-29.9	29.9	23.4	6.48	4.613		
200.0	200.0	200.1	200.0	3.2	3.2	-90.57	-0.3	-29.9	29.9	23.2	6.72	4.448		
300.0	300.0	300.1	300.0	3.3	3.3	-90.57	-0.3	-29.9	29.9	22.9	6.95	4.300		
400.0	400.0	400.1	400.0	3.4	3.4	-90.57	-0.3	-29.9	29.9	22.7	7.18	4.166		
500.0	500.0	500.1	500.0	3.5	3.5	-90.57	-0.3	-29.9	29.9	22.5	7.39	4.044		
600.0	600.0	600.1	600.0	3.7	3.7	-90.57	-0.3	-29.9	29.9	22.3	7.60	3.933		
700.0	700.0	700.1	700.0	3.8	3.8	-90.57	-0.3	-29.9	29.9	22.1	7.81	3.830		
800.0	800.0	800.1	800.0	3.9	3.9	-90.57	-0.3	-29.9	29.9	21.9	8.01	3.735		
900.0	900.0	900.1	900.0	4.0	4.0	-90.57	-0.3	-29.9	29.9	21.7	8.20	3.647		
1,000.0	1,000.0	1,000.1	1,000.0	4.2	4.2	-90.57	-0.3	-29.9	29.9	21.5	8.39	3.565		
1,100.0	1,100.0	1,100.1	1,100.0	4.3	4.3	-90.57	-0.3	-29.9	29.9	21.3	8.57	3.489		
1,166.6	1,166.6	1,166.7	1,166.6	4.4	4.4	-90.57	-0.3	-29.9	29.9	21.2	8.69	3.441 CC		
1,200.0	1,200.0	1,200.0	1,199.9	4.4	4.4	-90.57	-0.3	-29.9	29.9	21.2	8.75	3.417 ES, SF		
1,300.0	1,300.0	1,299.5	1,299.3	4.6	4.6	-116.36	1.1	-30.9	31.7	22.7	8.98	3.529		
1,400.0	1,399.8	1,398.6	1,398.4	4.9	4.8	-117.02	5.2	-34.0	37.1	27.7	9.38	3.954		
1,500.0	1,499.5	1,497.4	1,496.8	5.2	5.1	-117.75	12.0	-39.2	46.1	36.3	9.78	4.713		
1,600.0	1,598.7	1,595.6	1,594.2	5.5	5.4	-118.35	21.5	-46.3	58.6	48.4	10.17	5.761		
1,700.0	1,697.5	1,693.0	1,690.5	5.8	5.8	-118.78	33.5	-55.4	74.7	64.1	10.58	7.061		
1,800.0	1,795.9	1,791.3	1,787.3	6.1	6.0	-119.19	47.1	-65.6	92.6	81.7	10.95	8.456		
1,900.0	1,894.4	1,889.7	1,884.2	6.4	6.3	-119.46	60.8	-75.9	110.5	99.2	11.33	9.753		
2,000.0	1,992.9	1,988.1	1,981.1	6.7	6.6	-119.66	74.4	-86.2	128.5	116.8	11.73	10.954		
2,100.0	2,091.4	2,086.5	2,077.9	7.0	6.9	-119.81	88.1	-96.5	146.4	134.3	12.13	12.069		
2,200.0	2,189.9	2,184.8	2,174.8	7.3	7.3	-119.92	101.7	-106.8	164.4	151.8	12.55	13.102		
2,300.0	2,288.4	2,283.2	2,271.7	7.7	7.6	-120.02	115.3	-117.0	182.3	169.4	12.97	14.062		
2,400.0	2,386.8	2,381.6	2,368.6	8.0	8.0	-120.09	129.0	-127.3	200.3	186.9	13.39	14.954		
2,500.0	2,485.3	2,480.0	2,465.5	8.4	8.3	-120.16	142.6	-137.6	218.2	204.4	13.83	15.784		
2,600.0	2,583.8	2,578.3	2,562.4	8.8	8.7	-120.21	156.3	-147.9	236.2	221.9	14.26	16.557		
2,700.0	2,682.3	2,676.7	2,659.2	9.2	9.1	-120.26	169.9	-158.2	254.1	239.4	14.71	17.277		
2,800.0	2,780.8	2,775.1	2,756.1	9.6	9.5	-120.30	183.6	-168.4	272.1	256.9	15.16	17.950		
2,900.0	2,879.2	2,873.5	2,853.0	10.0	9.8	-120.33	197.2	-178.7	290.0	274.4	15.61	18.579		
3,000.0	2,977.7	2,971.8	2,949.9	10.4	10.2	-120.36	210.8	-189.0	308.0	291.9	16.07	19.169		
3,100.0	3,076.2	3,070.2	3,046.8	10.8	10.6	-120.39	224.5	-199.3	325.9	309.4	16.53	19.721		
3,200.0	3,174.7	3,168.6	3,143.6	11.2	11.0	-120.42	238.1	-209.6	343.8	326.9	16.99	20.239		
3,300.0	3,273.2	3,267.0	3,240.5	11.6	11.4	-120.44	251.8	-219.8	361.8	344.3	17.46	20.726		
3,400.0	3,371.6	3,365.3	3,337.4	12.0	11.9	-120.46	265.4	-230.1	379.7	361.8	17.92	21.185		
3,500.0	3,470.1	3,463.7	3,434.3	12.4	12.3	-120.48	279.1	-240.4	397.7	379.3	18.40	21.617		
3,600.0	3,568.6	3,562.1	3,531.2	12.9	12.7	-120.50	292.7	-250.7	415.6	396.8	18.87	22.025		
3,700.0	3,667.1	3,660.5	3,628.1	13.3	13.1	-120.51	306.3	-261.0	433.6	414.2	19.35	22.410		
3,800.0	3,765.6	3,758.8	3,724.9	13.7	13.5	-120.53	320.0	-271.3	451.5	431.7	19.83	22.775		
3,900.0	3,864.0	3,857.2	3,821.8	14.1	13.9	-120.54	333.6	-281.5	469.5	449.2	20.31	23.120		
4,000.0	3,962.5	3,955.6	3,918.7	14.6	14.4	-120.55	347.3	-291.8	487.4	466.6	20.79	23.447		
4,100.0	4,061.0	4,054.0	4,015.6	15.0	14.8	-120.56	360.9	-302.1	505.4	484.1	21.27	23.758		
4,200.0	4,159.5	4,152.3	4,112.5	15.4	15.2	-120.57	374.6	-312.4	523.3	501.6	21.76	24.053		
4,300.0	4,258.0	4,250.7	4,209.3	15.9	15.6	-120.58	388.2	-322.7	541.3	519.0	22.24	24.333		
4,400.0	4,356.4	4,349.1	4,306.2	16.3	16.1	-120.59	401.8	-332.9	559.2	536.5	22.73	24.600		
4,500.0	4,454.9	4,447.5	4,403.1	16.7	16.5	-120.60	415.5	-343.2	577.2	553.9	23.22	24.855		
4,600.0	4,553.4	4,545.9	4,500.0	17.2	16.9	-120.61	429.1	-353.5	595.1	571.4	23.70	25.107		
4,700.0	4,651.9	4,648.2	4,600.9	17.6	17.4	-120.65	443.0	-363.9	612.8	588.6	24.20	25.327		
4,800.0	4,750.4	4,752.6	4,704.0	18.1	17.8	-120.84	455.7	-373.5	629.7	605.0	24.71	25.480		
4,900.0	4,848.9	4,857.2	4,807.7	18.5	18.2	-121.16	466.9	-381.9	645.6	620.4	25.22	25.600		
5,000.0	4,947.3	4,962.0	4,911.8	18.9	18.7	-121.61	476.6	-389.3	660.7	634.9	25.72	25.688		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,045.8	5,066.9	5,016.2	19.4	19.1	-122.19	484.8	-395.4	674.9	648.6	26.21	25.745	
5,200.0	5,144.3	5,171.8	5,120.8	19.8	19.5	-122.90	491.5	-400.5	688.2	661.5	26.68	25.796	
5,300.0	5,243.0	5,276.9	5,225.6	20.2	19.8	-123.70	496.6	-404.4	700.0	672.9	27.16	25.775	
5,400.0	5,342.0	5,382.2	5,330.8	20.7	20.2	-124.48	500.2	-407.1	710.1	682.5	27.62	25.706	
5,500.0	5,441.2	5,487.5	5,436.1	21.1	20.5	-125.24	502.3	-408.6	718.5	690.4	28.07	25.594	
5,600.0	5,540.6	5,592.0	5,540.6	21.5	20.6	-125.98	502.9	-409.1	725.1	696.7	28.45	25.484	
5,700.0	5,640.2	5,691.6	5,640.2	21.9	20.7	-126.60	502.9	-409.1	730.5	701.7	28.81	25.357	
5,800.0	5,739.9	5,791.3	5,739.9	22.2	20.7	-127.09	502.9	-409.1	734.9	705.8	29.16	25.207	
5,900.0	5,839.7	5,891.1	5,839.7	22.6	20.8	-127.47	502.9	-409.1	738.4	708.9	29.49	25.040	
6,000.0	5,939.7	5,991.1	5,939.7	22.9	20.8	-127.73	502.9	-409.1	740.7	710.9	29.80	24.860	
6,100.0	6,039.6	6,091.0	6,039.6	23.2	20.9	-127.87	502.9	-409.1	742.0	712.0	30.07	24.675	
6,200.0	6,139.6	6,191.0	6,139.6	23.3	20.9	-102.38	502.9	-409.1	742.3	712.1	30.22	24.562	
6,300.0	6,239.6	6,291.0	6,239.6	23.3	21.0	-102.38	502.9	-409.1	742.3	712.0	30.35	24.459	
6,400.0	6,339.6	6,391.0	6,339.6	23.4	21.0	-102.38	502.9	-409.1	742.3	711.8	30.48	24.358	
6,500.0	6,439.6	6,491.0	6,439.6	23.4	21.1	-102.38	502.9	-409.1	742.3	711.7	30.60	24.257	
6,600.0	6,539.6	6,591.0	6,539.6	23.5	21.1	-102.38	502.9	-409.1	742.3	711.6	30.73	24.157	
6,700.0	6,639.6	6,691.0	6,639.6	23.5	21.2	-102.38	502.9	-409.1	742.3	711.5	30.86	24.058	
6,800.0	6,739.6	6,791.0	6,739.6	23.6	21.2	-102.38	502.9	-409.1	742.3	711.3	30.98	23.959	
6,900.0	6,839.6	6,891.0	6,839.6	23.6	21.3	-102.38	502.9	-409.1	742.3	711.2	31.11	23.861	
7,000.0	6,939.6	6,991.0	6,939.6	23.6	21.3	-102.38	502.9	-409.1	742.3	711.1	31.24	23.763	
7,100.0	7,039.6	7,091.0	7,039.6	23.7	21.3	-102.38	502.9	-409.1	742.3	710.9	31.37	23.666	
7,200.0	7,139.6	7,191.0	7,139.6	23.7	21.4	-102.38	502.9	-409.1	742.3	710.8	31.49	23.570	
7,300.0	7,239.6	7,291.0	7,239.6	23.8	21.4	-102.38	502.9	-409.1	742.3	710.7	31.62	23.474	
7,400.0	7,339.6	7,391.0	7,339.6	23.8	21.5	-102.38	502.9	-409.1	742.3	710.6	31.75	23.378	
7,500.0	7,439.6	7,491.0	7,439.6	23.9	21.5	-102.38	502.9	-409.1	742.3	710.4	31.88	23.283	
7,600.0	7,539.6	7,591.0	7,539.6	23.9	21.6	-102.38	502.9	-409.1	742.3	710.3	32.01	23.189	
7,700.0	7,639.6	7,691.0	7,639.6	24.0	21.7	-102.38	502.9	-409.1	742.3	710.2	32.14	23.095	
7,800.0	7,739.6	7,791.0	7,739.6	24.0	21.7	-102.38	502.9	-409.1	742.3	710.0	32.27	23.002	
7,900.0	7,839.6	7,891.0	7,839.6	24.1	21.8	-102.38	502.9	-409.1	742.3	709.9	32.40	22.909	
8,000.0	7,939.6	7,991.0	7,939.6	24.1	21.8	-102.38	502.9	-409.1	742.3	709.8	32.53	22.817	
8,100.0	8,039.6	8,091.0	8,039.6	24.2	21.9	-102.38	502.9	-409.1	742.3	709.7	32.66	22.726	
8,200.0	8,139.6	8,191.0	8,139.6	24.2	21.9	-102.38	502.9	-409.1	742.3	709.5	32.80	22.635	
8,300.0	8,239.6	8,291.0	8,239.6	24.3	22.0	-102.38	502.9	-409.1	742.3	709.4	32.93	22.544	
8,400.0	8,339.6	8,391.0	8,339.6	24.3	22.0	-102.38	502.9	-409.1	742.3	709.3	33.06	22.454	
8,500.0	8,439.6	8,491.0	8,439.6	24.3	22.1	-102.38	502.9	-409.1	742.3	709.1	33.19	22.365	
8,600.0	8,539.6	8,591.0	8,539.6	24.4	22.1	-102.38	502.9	-409.1	742.3	709.0	33.32	22.276	
8,700.0	8,639.6	8,691.0	8,639.6	24.4	22.2	-102.38	502.9	-409.1	742.3	708.9	33.46	22.188	
8,800.0	8,739.6	8,791.0	8,739.6	24.5	22.2	-102.38	502.9	-409.1	742.3	708.7	33.59	22.100	
8,900.0	8,839.6	8,891.0	8,839.6	24.5	22.3	-102.38	502.9	-409.1	742.3	708.6	33.72	22.013	
9,000.0	8,939.6	8,991.0	8,939.6	24.6	22.3	-102.38	502.9	-409.1	742.3	708.5	33.86	21.926	
9,100.0	9,039.6	9,091.0	9,039.6	24.6	22.4	-102.38	502.9	-409.1	742.3	708.3	33.99	21.840	
9,200.0	9,139.6	9,191.0	9,139.6	24.7	22.4	-102.38	502.9	-409.1	742.3	708.2	34.12	21.754	
9,300.0	9,239.6	9,291.0	9,239.6	24.7	22.5	-102.38	502.9	-409.1	742.3	708.1	34.26	21.669	
9,400.0	9,339.6	9,391.0	9,339.6	24.8	22.5	-102.38	502.9	-409.1	742.3	707.9	34.39	21.584	
9,500.0	9,439.6	9,491.0	9,439.6	24.8	22.6	-102.38	502.9	-409.1	742.3	707.8	34.53	21.500	
9,600.0	9,539.6	9,591.0	9,539.6	24.9	22.6	-102.38	502.9	-409.1	742.3	707.7	34.66	21.416	
9,700.0	9,639.6	9,691.0	9,639.6	24.9	22.7	-102.38	502.9	-409.1	742.3	707.5	34.80	21.333	
9,800.0	9,739.6	9,791.0	9,739.6	25.0	22.8	-102.38	502.9	-409.1	742.3	707.4	34.93	21.251	
9,900.0	9,839.6	9,891.0	9,839.6	25.0	22.8	-102.38	502.9	-409.1	742.3	707.2	35.07	21.169	
10,000.0	9,939.6	9,991.0	9,939.6	25.1	22.9	-102.38	502.9	-409.1	742.3	707.1	35.20	21.087	
10,100.0	10,039.6	10,091.0	10,039.6	25.1	22.9	-102.38	502.9	-409.1	742.3	707.0	35.34	21.006	
10,200.0	10,139.6	10,191.0	10,139.6	25.2	23.0	-102.38	502.9	-409.1	742.3	706.8	35.47	20.925	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,300.0	10,239.6	10,291.0	10,239.6	25.2	23.0	-102.38	502.9	-409.1	742.3	706.7	35.61	20.845	
10,400.0	10,339.6	10,391.0	10,339.6	25.3	23.1	-102.38	502.9	-409.1	742.3	706.6	35.75	20.765	
10,500.0	10,439.6	10,491.0	10,439.6	25.3	23.1	-102.38	502.9	-409.1	742.3	706.4	35.88	20.686	
10,600.0	10,539.6	10,591.0	10,539.6	25.4	23.2	-102.38	502.9	-409.1	742.3	706.3	36.02	20.608	
10,700.0	10,639.6	10,691.0	10,639.6	25.4	23.2	-102.38	502.9	-409.1	742.3	706.2	36.16	20.530	
10,800.0	10,739.6	10,791.0	10,739.6	25.5	23.3	-102.38	502.9	-409.1	742.3	706.0	36.30	20.452	
10,900.0	10,839.6	10,891.0	10,839.6	25.6	23.4	-102.38	502.9	-409.1	742.3	705.9	36.43	20.375	
11,000.0	10,939.6	10,991.0	10,939.6	25.6	23.4	-102.38	502.9	-409.1	742.3	705.7	36.57	20.298	
11,100.0	11,039.6	11,091.0	11,039.6	25.7	23.5	-102.38	502.9	-409.1	742.3	705.6	36.71	20.222	
11,200.0	11,139.6	11,191.0	11,139.6	25.7	23.5	-102.38	502.9	-409.1	742.3	705.5	36.85	20.146	
11,300.0	11,239.6	11,291.0	11,239.6	25.8	23.6	-102.38	502.9	-409.1	742.3	705.3	36.99	20.070	
11,400.0	11,339.6	11,391.0	11,339.6	25.8	23.6	-102.38	502.9	-409.1	742.3	705.2	37.12	19.996	
11,500.0	11,439.6	11,491.0	11,439.6	25.9	23.7	-102.38	502.9	-409.1	742.3	705.1	37.26	19.921	
11,600.0	11,539.6	11,591.0	11,539.6	25.9	23.8	-102.38	502.9	-409.1	742.3	704.9	37.40	19.847	
11,700.0	11,639.5	11,690.9	11,639.5	25.8	23.8	78.31	502.9	-409.1	741.6	704.2	37.44	19.810	
11,800.0	11,736.8	11,775.0	11,723.4	25.5	23.7	79.78	498.3	-408.7	738.0	700.8	37.22	19.828	
11,900.0	11,827.4	11,860.1	11,806.2	25.1	23.4	81.67	479.1	-407.4	733.2	696.3	36.95	19.845	
12,000.0	11,907.3	11,947.1	11,885.9	24.7	23.1	83.91	444.8	-405.0	727.6	691.0	36.66	19.850	
12,100.0	11,972.9	12,037.6	11,960.8	24.5	22.9	86.43	394.3	-401.5	721.7	685.4	36.38	19.841	
12,200.0	12,021.5	12,132.6	12,027.7	24.2	22.6	89.17	327.2	-396.8	716.0	679.8	36.14	19.812	
12,300.0	12,051.0	12,233.1	12,082.5	24.1	22.4	92.05	243.4	-390.9	710.7	674.7	36.00	19.741	
12,400.0	12,060.0	12,340.3	12,120.2	24.1	22.2	94.90	143.6	-383.9	706.3	670.2	36.03	19.600	
12,500.0	12,060.0	12,456.2	12,134.9	24.1	22.2	96.14	29.2	-375.9	701.2	665.0	36.18	19.379	
12,600.0	12,060.0	12,537.4	12,134.9	24.1	22.2	96.18	-51.9	-371.3	696.2	660.0	36.18	19.242	
12,700.0	12,060.0	12,617.9	12,134.9	24.2	22.3	96.20	-132.4	-369.1	694.0	657.7	36.23	19.156	
12,729.1	12,060.0	12,641.4	12,134.9	24.2	22.3	96.20	-155.9	-368.8	693.9	657.6	36.25	19.142	
12,800.0	12,060.0	12,712.3	12,134.9	24.2	22.3	96.20	-226.8	-368.4	693.9	657.5	36.37	19.077	
12,900.0	12,060.0	12,812.3	12,134.9	24.3	22.4	96.20	-326.8	-367.8	693.9	657.2	36.61	18.952	
13,000.0	12,060.0	12,912.3	12,134.9	24.3	22.5	96.20	-426.8	-367.2	693.9	656.9	36.91	18.798	
13,100.0	12,060.0	13,012.3	12,134.9	24.4	22.6	96.20	-526.8	-366.6	693.9	656.6	37.27	18.616	
13,200.0	12,060.0	13,112.3	12,134.9	24.5	22.7	96.20	-626.8	-366.0	693.9	656.2	37.69	18.409	
13,300.0	12,060.0	13,212.3	12,134.9	24.6	22.8	96.20	-726.8	-365.4	693.9	655.7	38.16	18.181	
13,400.0	12,060.0	13,312.3	12,134.9	24.7	23.0	96.20	-826.8	-364.7	693.9	655.2	38.69	17.933	
13,500.0	12,060.0	13,412.3	12,134.9	24.8	23.1	96.20	-926.8	-364.1	693.9	654.6	39.27	17.668	
13,600.0	12,060.0	13,512.3	12,134.9	24.9	23.3	96.20	-1,026.8	-363.5	693.9	654.0	39.90	17.390	
13,700.0	12,060.0	13,612.3	12,134.9	25.0	23.5	96.20	-1,126.8	-362.9	693.9	653.3	40.58	17.100	
13,800.0	12,060.0	13,712.3	12,134.9	25.2	23.7	96.20	-1,226.8	-362.3	693.9	652.6	41.30	16.801	
13,900.0	12,060.0	13,812.3	12,134.9	25.3	23.9	96.20	-1,326.8	-361.7	693.9	651.8	42.06	16.497	
14,000.0	12,060.0	13,912.3	12,134.9	25.5	24.2	96.20	-1,426.8	-361.1	693.9	651.0	42.86	16.188	
14,100.0	12,060.0	14,012.3	12,134.9	25.7	24.4	96.20	-1,526.8	-360.5	693.9	650.2	43.71	15.876	
14,200.0	12,060.0	14,112.3	12,134.9	25.9	24.7	96.20	-1,626.8	-359.9	693.9	649.3	44.58	15.564	
14,300.0	12,060.0	14,212.3	12,134.9	26.2	25.0	96.20	-1,726.8	-359.3	693.9	648.4	45.49	15.253	
14,400.0	12,060.0	14,312.3	12,134.9	26.4	25.4	96.20	-1,826.8	-358.7	693.9	647.5	46.44	14.943	
14,500.0	12,060.0	14,412.3	12,134.9	26.7	25.7	96.20	-1,926.8	-358.1	693.9	646.5	47.41	14.637	
14,600.0	12,060.0	14,512.3	12,134.9	27.0	26.1	96.20	-2,026.7	-357.5	693.9	645.5	48.41	14.335	
14,700.0	12,060.0	14,612.3	12,134.9	27.3	26.5	96.20	-2,126.7	-356.8	693.9	644.5	49.43	14.037	
14,800.0	12,060.0	14,712.3	12,134.9	27.6	26.9	96.20	-2,226.7	-356.2	693.9	643.4	50.48	13.745	
14,900.0	12,060.0	14,812.3	12,134.9	28.0	27.4	96.20	-2,326.7	-355.6	693.9	642.3	51.56	13.459	
15,000.0	12,060.0	14,912.3	12,134.9	28.4	27.8	96.20	-2,426.7	-355.0	693.9	641.3	52.65	13.179	
15,100.0	12,060.0	15,012.3	12,134.9	28.8	28.3	96.20	-2,526.7	-354.4	693.9	640.1	53.77	12.906	
15,200.0	12,060.0	15,112.3	12,134.9	29.2	28.8	96.20	-2,626.7	-353.8	693.9	639.0	54.90	12.639	
15,300.0	12,060.0	15,212.3	12,134.9	29.7	29.3	96.20	-2,726.7	-353.2	693.9	637.9	56.05	12.379	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design:		WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 708H - OWB - PWP1											Offset Site Error:		0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error:		3.0 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,400.0	12,060.0	15,312.3	12,134.9	30.2	29.8	96.20	-2,826.7	-352.6	693.9	636.7	57.22	12.127			
15,500.0	12,060.0	15,412.3	12,134.9	30.6	30.3	96.20	-2,926.7	-352.0	693.9	635.5	58.41	11.881			
15,600.0	12,060.0	15,512.3	12,134.9	31.2	30.8	96.20	-3,026.7	-351.4	693.9	634.3	59.61	11.642			
15,700.0	12,060.0	15,612.3	12,134.9	31.7	31.4	96.20	-3,126.7	-350.8	693.9	633.1	60.82	11.409			
15,800.0	12,060.0	15,712.3	12,134.9	32.2	32.0	96.20	-3,226.7	-350.2	693.9	631.9	62.05	11.184			
15,900.0	12,060.0	15,812.3	12,134.9	32.8	32.5	96.20	-3,326.7	-349.6	693.9	630.6	63.29	10.965			
16,000.0	12,060.0	15,912.3	12,134.9	33.3	33.1	96.20	-3,426.7	-348.9	693.9	629.4	64.54	10.752			
16,100.0	12,060.0	16,012.3	12,134.9	33.9	33.7	96.20	-3,526.7	-348.3	693.9	628.1	65.80	10.546			
16,200.0	12,060.0	16,112.3	12,134.9	34.5	34.3	96.20	-3,626.7	-347.7	693.9	626.9	67.07	10.346			
16,300.0	12,060.0	16,212.3	12,134.9	35.1	34.9	96.20	-3,726.7	-347.1	693.9	625.6	68.35	10.152			
16,400.0	12,060.0	16,312.3	12,134.9	35.7	35.6	96.20	-3,826.7	-346.5	693.9	624.3	69.64	9.964			
16,500.0	12,060.0	16,412.3	12,134.9	36.3	36.2	96.20	-3,926.7	-345.9	693.9	623.0	70.94	9.781			
16,600.0	12,060.0	16,512.3	12,134.9	37.0	36.8	96.20	-4,026.7	-345.3	693.9	621.7	72.25	9.604			
16,700.0	12,060.0	16,612.3	12,134.9	37.6	37.5	96.20	-4,126.7	-344.7	693.9	620.4	73.57	9.433			
16,800.0	12,060.0	16,712.3	12,134.9	38.2	38.1	96.20	-4,226.7	-344.1	693.9	619.1	74.89	9.266			
16,900.0	12,060.0	16,812.3	12,134.9	38.9	38.7	96.20	-4,326.7	-343.5	693.9	617.7	76.22	9.104			
17,000.0	12,060.0	16,912.3	12,134.9	39.5	39.4	96.20	-4,426.7	-342.9	693.9	616.4	77.56	8.947			
17,100.0	12,060.0	17,012.3	12,134.9	40.2	40.1	96.20	-4,526.7	-342.3	693.9	615.0	78.90	8.795			
17,200.0	12,060.0	17,112.3	12,134.9	40.9	40.7	96.20	-4,626.7	-341.6	693.9	613.7	80.25	8.647			
17,300.0	12,060.0	17,212.3	12,134.9	41.5	41.4	96.20	-4,726.7	-341.0	694.0	612.3	81.60	8.504			
17,400.0	12,060.0	17,312.3	12,134.9	42.2	42.1	96.20	-4,826.7	-340.4	694.0	611.0	82.97	8.364			
17,500.0	12,060.0	17,412.3	12,134.9	42.9	42.7	96.20	-4,926.7	-339.8	694.0	609.6	84.33	8.229			
17,600.0	12,060.0	17,512.3	12,134.9	43.6	43.4	96.20	-5,026.7	-339.2	694.0	608.3	85.70	8.097			
17,700.0	12,060.0	17,612.3	12,134.9	44.2	44.1	96.20	-5,126.7	-338.6	694.0	606.9	87.08	7.970			
17,800.0	12,060.0	17,712.3	12,134.9	44.9	44.8	96.20	-5,226.7	-338.0	694.0	605.5	88.45	7.845			
17,900.0	12,060.0	17,812.3	12,134.9	45.6	45.5	96.20	-5,326.7	-337.4	694.0	604.1	89.84	7.725			
18,000.0	12,060.0	17,912.3	12,134.9	46.3	46.1	96.20	-5,426.7	-336.8	694.0	602.7	91.23	7.607			
18,100.0	12,060.0	18,012.3	12,134.9	47.0	46.8	96.20	-5,526.7	-336.2	694.0	601.4	92.62	7.493			
18,200.0	12,060.0	18,112.3	12,134.9	47.7	47.5	96.20	-5,626.7	-335.6	694.0	600.0	94.01	7.382			
18,300.0	12,060.0	18,212.3	12,134.9	48.4	48.2	96.20	-5,726.7	-335.0	694.0	598.6	95.41	7.273			
18,400.0	12,060.0	18,312.3	12,134.9	49.1	48.9	96.20	-5,826.7	-334.4	694.0	597.2	96.81	7.168			
18,500.0	12,060.0	18,412.3	12,134.9	49.8	49.6	96.20	-5,926.7	-333.7	694.0	595.8	98.22	7.066			
18,600.0	12,060.0	18,512.3	12,134.9	50.5	50.3	96.20	-6,026.7	-333.1	694.0	594.4	99.63	6.966			
18,700.0	12,060.0	18,612.3	12,134.9	51.2	51.0	96.20	-6,126.7	-332.5	694.0	592.9	101.04	6.869			
18,800.0	12,060.0	18,712.3	12,134.9	51.9	51.7	96.20	-6,226.7	-331.9	694.0	591.5	102.45	6.774			
18,900.0	12,060.0	18,812.3	12,134.9	52.6	52.5	96.20	-6,326.7	-331.3	694.0	590.1	103.87	6.681			
19,000.0	12,060.0	18,912.3	12,134.9	53.4	53.2	96.20	-6,426.7	-330.7	694.0	588.7	105.29	6.591			
19,100.0	12,060.0	19,012.3	12,134.9	54.1	53.9	96.20	-6,526.7	-330.1	694.0	587.3	106.71	6.503			
19,200.0	12,060.0	19,112.3	12,134.9	54.8	54.6	96.20	-6,626.7	-329.5	694.0	585.9	108.13	6.418			
19,300.0	12,060.0	19,212.3	12,134.9	55.5	55.3	96.20	-6,726.7	-328.9	694.0	584.4	109.56	6.334			
19,400.0	12,060.0	19,312.3	12,134.9	56.2	56.0	96.20	-6,826.7	-328.3	694.0	583.0	110.99	6.253			
19,500.0	12,060.0	19,412.3	12,134.9	57.0	56.7	96.20	-6,926.7	-327.7	694.0	581.6	112.42	6.173			
19,600.0	12,060.0	19,512.3	12,134.9	57.7	57.5	96.20	-7,026.7	-327.1	694.0	580.1	113.85	6.096			
19,700.0	12,060.0	19,612.3	12,134.9	58.4	58.2	96.20	-7,126.7	-326.5	694.0	578.7	115.29	6.020			
19,800.0	12,060.0	19,712.3	12,134.9	59.1	58.9	96.20	-7,226.7	-325.8	694.0	577.3	116.73	5.946			
19,900.0	12,060.0	19,812.3	12,134.9	59.9	59.6	96.20	-7,326.7	-325.2	694.0	575.8	118.17	5.873			
20,000.0	12,060.0	19,912.3	12,134.9	60.6	60.3	96.20	-7,426.6	-324.6	694.0	574.4	119.61	5.802			
20,100.0	12,060.0	20,012.3	12,134.9	61.3	61.1	96.20	-7,526.6	-324.0	694.0	573.0	121.05	5.733			
20,200.0	12,060.0	20,112.3	12,134.9	62.0	61.8	96.20	-7,626.6	-323.4	694.0	571.5	122.49	5.666			
20,300.0	12,060.0	20,212.3	12,134.9	62.8	62.5	96.20	-7,726.6	-322.8	694.0	570.1	123.94	5.600			
20,400.0	12,060.0	20,312.3	12,134.9	63.5	63.3	96.20	-7,826.6	-322.2	694.0	568.6	125.38	5.535			
20,500.0	12,060.0	20,412.3	12,134.9	64.2	64.0	96.20	-7,926.6	-321.6	694.0	567.2	126.83	5.472			

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1200-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,600.0	12,060.0	20,512.3	12,134.9	65.0	64.7	96.20	-8,026.6	-321.0	694.0	565.7	128.28	5.410	
20,700.0	12,060.0	20,612.3	12,134.9	65.7	65.4	96.20	-8,126.6	-320.4	694.0	564.3	129.73	5.350	
20,800.0	12,060.0	20,712.3	12,134.9	66.4	66.2	96.20	-8,226.6	-319.8	694.0	562.8	131.19	5.290	
20,900.0	12,060.0	20,812.3	12,134.9	67.2	66.9	96.20	-8,326.6	-319.2	694.0	561.4	132.64	5.232	
21,000.0	12,060.0	20,912.3	12,134.9	67.9	67.6	96.20	-8,426.6	-318.6	694.0	559.9	134.10	5.176	
21,100.0	12,060.0	21,012.3	12,134.9	68.6	68.4	96.20	-8,526.6	-317.9	694.0	558.5	135.55	5.120	
21,200.0	12,060.0	21,112.3	12,134.9	69.4	69.1	96.20	-8,626.6	-317.3	694.0	557.0	137.01	5.066	
21,300.0	12,060.0	21,212.3	12,134.9	70.1	69.8	96.20	-8,726.6	-316.7	694.0	555.6	138.47	5.012	
21,400.0	12,060.0	21,312.3	12,134.9	70.9	70.6	96.20	-8,826.6	-316.1	694.0	554.1	139.93	4.960	
21,500.0	12,060.0	21,412.3	12,134.9	71.6	71.3	96.20	-8,926.6	-315.5	694.0	552.7	141.39	4.909	
21,600.0	12,060.0	21,512.3	12,134.9	72.3	72.1	96.20	-9,026.6	-314.9	694.0	551.2	142.85	4.859	
21,700.0	12,060.0	21,612.3	12,134.9	73.1	72.8	96.20	-9,126.6	-314.3	694.0	549.7	144.31	4.809	
21,800.0	12,060.0	21,712.3	12,134.9	73.8	73.5	96.20	-9,226.6	-313.7	694.0	548.3	145.78	4.761	
21,900.0	12,060.0	21,812.3	12,134.9	74.6	74.3	96.20	-9,326.6	-313.1	694.0	546.8	147.24	4.714	
22,000.0	12,060.0	21,912.3	12,134.9	75.3	75.0	96.20	-9,426.6	-312.5	694.1	545.3	148.71	4.667	
22,100.0	12,060.0	22,012.3	12,134.9	76.1	75.7	96.20	-9,526.6	-311.9	694.1	543.9	150.18	4.622	
22,200.0	12,060.0	22,112.3	12,134.9	76.8	76.5	96.20	-9,626.6	-311.3	694.1	542.4	151.64	4.577	
22,300.0	12,060.0	22,212.3	12,134.9	77.5	77.2	96.20	-9,726.6	-310.6	694.1	541.0	153.09	4.534	
22,307.5	12,060.0	22,219.8	12,134.9	77.6	77.3	96.20	-9,734.1	-310.6	694.1	540.9	153.19	4.531	
22,374.9	12,060.0	22,286.2	12,134.9	78.1	77.7	96.20	-9,800.5	-310.2	694.1	540.0	154.06	4.505	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 7H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8608-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,600.0	3,568.6	3,568.5	3,572.4	12.9	3.9	54.87	511.4	1,143.8	998.3	983.2	15.13	65.982	
3,700.0	3,667.1	3,663.7	3,667.6	13.3	4.0	55.62	512.0	1,143.4	988.0	972.6	15.41	64.121	
3,800.0	3,765.6	3,762.1	3,766.0	13.7	4.0	56.40	512.8	1,143.2	978.1	962.4	15.67	62.409	
3,900.0	3,864.0	3,857.2	3,861.0	14.1	4.1	57.17	513.7	1,143.2	968.6	952.7	15.93	60.793	
4,000.0	3,962.5	3,952.0	3,955.8	14.6	4.1	57.95	514.5	1,143.7	959.8	943.6	16.18	59.310	
4,100.0	4,061.0	4,044.8	4,048.6	15.0	4.2	58.73	515.3	1,144.5	951.6	935.2	16.43	57.933	
4,200.0	4,159.5	4,140.8	4,144.6	15.4	4.3	59.56	516.1	1,145.7	943.9	927.3	16.65	56.682	
4,300.0	4,258.0	4,238.7	4,242.6	15.9	4.3	60.43	516.7	1,147.2	936.7	919.8	16.86	55.543	
4,400.0	4,356.4	4,335.9	4,339.7	16.3	4.4	61.34	516.8	1,148.9	930.0	912.9	17.06	54.504	
4,500.0	4,454.9	4,453.6	4,457.4	16.7	4.4	62.49	516.3	1,149.8	922.4	905.2	17.20	53.621	
4,600.0	4,553.4	4,553.8	4,557.6	17.2	4.4	63.53	515.3	1,149.4	914.0	896.6	17.35	52.673	
4,700.0	4,651.9	4,650.3	4,654.1	17.6	4.5	64.52	514.6	1,149.1	906.0	888.5	17.50	51.767	
4,800.0	4,750.4	4,748.6	4,752.4	18.1	4.5	65.56	513.8	1,148.8	898.2	880.6	17.63	50.942	
4,900.0	4,848.9	4,847.0	4,850.8	18.5	4.5	66.61	513.0	1,148.5	890.8	873.0	17.75	50.176	
5,000.0	4,947.3	4,945.3	4,949.1	18.9	4.6	67.67	512.3	1,148.2	883.7	865.9	17.86	49.475	
5,100.0	5,045.8	5,044.2	5,048.0	19.4	4.6	68.77	511.5	1,148.0	877.0	859.0	17.96	48.833	
5,200.0	5,144.3	5,142.5	5,146.3	19.8	4.7	69.84	510.8	1,147.7	870.6	852.5	18.01	48.337	
5,300.0	5,243.0	5,242.4	5,246.2	20.2	4.7	70.85	509.8	1,147.4	864.9	846.8	18.10	47.796	
5,400.0	5,342.0	5,339.5	5,343.3	20.7	4.8	71.75	508.8	1,147.0	860.0	841.8	18.19	47.282	
5,500.0	5,441.2	5,443.6	5,447.4	21.1	4.8	72.63	507.5	1,146.4	855.7	837.4	18.27	46.839	
5,600.0	5,540.6	5,545.1	5,548.8	21.5	4.9	73.39	506.2	1,145.5	851.8	833.5	18.36	46.392	
5,700.0	5,640.2	5,643.7	5,647.5	21.9	4.9	74.04	505.0	1,144.4	848.4	829.9	18.47	45.936	
5,800.0	5,739.9	5,743.4	5,747.1	22.2	5.0	74.58	503.7	1,143.4	845.6	827.0	18.58	45.506	
5,900.0	5,839.7	5,845.0	5,848.7	22.6	5.1	75.03	502.5	1,142.2	843.2	824.5	18.70	45.092	
6,000.0	5,939.7	5,944.0	5,947.7	22.9	5.1	75.34	501.5	1,141.2	841.3	822.5	18.83	44.676	
6,100.0	6,039.6	6,043.5	6,047.2	23.2	5.2	75.55	500.5	1,140.0	839.9	820.9	18.97	44.267	
6,200.0	6,139.6	6,144.9	6,148.6	23.3	5.3	101.18	499.4	1,138.9	838.8	819.8	19.06	44.009	
6,300.0	6,239.6	6,245.9	6,249.6	23.3	5.4	101.26	498.4	1,137.6	837.8	818.6	19.18	43.678	
6,400.0	6,339.6	6,348.1	6,351.7	23.4	5.4	101.34	497.5	1,136.1	836.5	817.2	19.30	43.340	
6,500.0	6,439.6	6,447.5	6,451.2	23.4	5.5	101.43	496.5	1,134.4	835.0	815.6	19.43	42.986	
6,600.0	6,539.6	6,549.0	6,552.6	23.5	5.6	101.51	495.7	1,132.5	833.4	813.8	19.55	42.630	
6,700.0	6,639.6	6,650.3	6,653.9	23.5	5.7	101.60	494.8	1,130.6	831.7	812.1	19.67	42.275	
6,800.0	6,739.6	6,754.4	6,758.0	23.6	5.8	101.67	494.2	1,128.5	829.8	810.0	19.80	41.911	
6,900.0	6,839.6	6,860.0	6,863.5	23.6	5.9	101.73	493.9	1,125.6	827.3	807.3	19.93	41.514	
7,000.0	6,939.6	6,950.0	6,953.5	23.6	5.9	101.74	494.2	1,123.2	824.6	804.5	20.09	41.053	
7,100.0	7,039.6	7,042.2	7,045.7	23.7	6.0	101.73	494.6	1,122.6	823.8	803.5	20.25	40.688	
7,200.0	7,139.6	7,142.0	7,145.5	23.7	6.1	101.70	495.0	1,122.0	823.1	802.7	20.40	40.355	
7,300.0	7,239.6	7,242.7	7,246.2	23.8	6.1	101.68	495.5	1,121.4	822.5	801.9	20.55	40.026	
7,400.0	7,339.6	7,344.1	7,347.6	23.8	6.2	101.69	495.6	1,120.5	821.6	800.9	20.70	39.697	
7,500.0	7,439.6	7,447.4	7,450.9	23.9	6.3	101.74	495.0	1,119.1	820.4	799.5	20.83	39.380	
7,599.4	7,539.1	7,535.6	7,539.1	23.9	6.4	101.80	494.4	1,118.1	819.4	798.4	20.98	39.049	
7,600.0	7,539.6	7,536.0	7,539.5	23.9	6.4	101.81	494.4	1,118.1	819.4	798.4	20.98	39.047	
7,700.0	7,639.6	7,623.9	7,627.3	24.0	6.4	101.88	493.1	1,118.7	820.4	799.3	21.12	38.851	
7,800.0	7,739.6	7,723.9	7,727.4	24.0	6.5	102.00	491.1	1,119.9	822.0	800.8	21.22	38.737	
7,900.0	7,839.6	7,821.1	7,824.4	24.1	6.6	102.15	488.7	1,121.0	823.6	802.3	21.33	38.620	
8,000.0	7,939.6	7,920.5	7,923.9	24.1	6.6	102.31	486.0	1,122.3	825.5	804.0	21.43	38.524	
8,100.0	8,039.6	8,020.8	8,024.1	24.2	6.7	102.50	483.0	1,123.6	827.4	805.9	21.53	38.436	
8,200.0	8,139.6	8,137.2	8,140.5	24.2	6.8	102.58	481.6	1,124.3	828.1	806.5	21.62	38.306	
8,300.0	8,239.6	8,237.9	8,241.2	24.3	6.8	102.56	481.9	1,124.2	828.0	806.2	21.76	38.044	
8,400.0	8,339.6	8,338.5	8,341.8	24.3	6.9	102.60	481.4	1,123.8	827.7	805.8	21.90	37.794	
8,500.0	8,439.6	8,442.4	8,445.7	24.3	7.0	102.69	480.2	1,123.0	827.2	805.2	22.03	37.555	
8,600.0	8,539.6	8,552.9	8,556.1	24.4	7.1	102.85	478.4	1,121.1	826.0	803.8	22.14	37.301	

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 7H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8608-r.5 MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
8,700.0	8,639.6	8,659.3	8,662.4	24.4	7.2	103.07	475.9	1,117.9	823.5	801.3	22.25	37.011		
8,800.0	8,739.6	8,774.7	8,777.2	24.5	7.4	103.81	466.5	1,111.2	819.7	797.4	22.30	36.762		
8,900.0	8,839.6	8,922.2	8,918.3	24.5	8.0	106.65	430.4	1,090.5	812.2	790.0	22.22	36.559		
9,000.0	8,939.6	9,053.3	9,031.4	24.6	8.6	111.26	373.4	1,057.8	801.3	779.0	22.25	36.004		
9,100.0	9,039.6	9,130.3	9,088.4	24.6	8.8	114.96	328.5	1,032.5	791.8	769.4	22.39	35.359		
9,174.3	9,113.9	9,169.3	9,113.9	24.7	8.9	117.10	302.4	1,018.8	789.4	766.8	22.60	34.937	CC, ES	
9,200.0	9,139.6	9,180.3	9,120.7	24.7	8.9	117.73	294.7	1,014.8	789.7	767.0	22.69	34.807		
9,300.0	9,239.6	9,220.0	9,143.2	24.7	9.0	120.09	265.3	1,000.6	797.1	773.8	23.22	34.320		
9,400.0	9,339.6	9,249.0	9,157.8	24.8	9.1	121.89	242.5	990.2	814.6	790.6	23.98	33.963		
9,500.0	9,439.6	9,271.3	9,168.1	24.8	9.2	123.30	224.4	982.2	842.1	817.1	24.93	33.771	SF	
9,600.0	9,539.6	9,283.0	9,173.2	24.9	9.2	124.05	214.7	978.0	879.0	853.0	25.98	33.837		
9,700.0	9,639.6	9,314.0	9,185.5	24.9	9.3	126.03	188.4	967.2	924.4	897.3	27.14	34.065		
9,800.0	9,739.6	9,314.0	9,185.5	25.0	9.3	126.03	188.4	967.2	977.4	949.2	28.21	34.653		

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 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

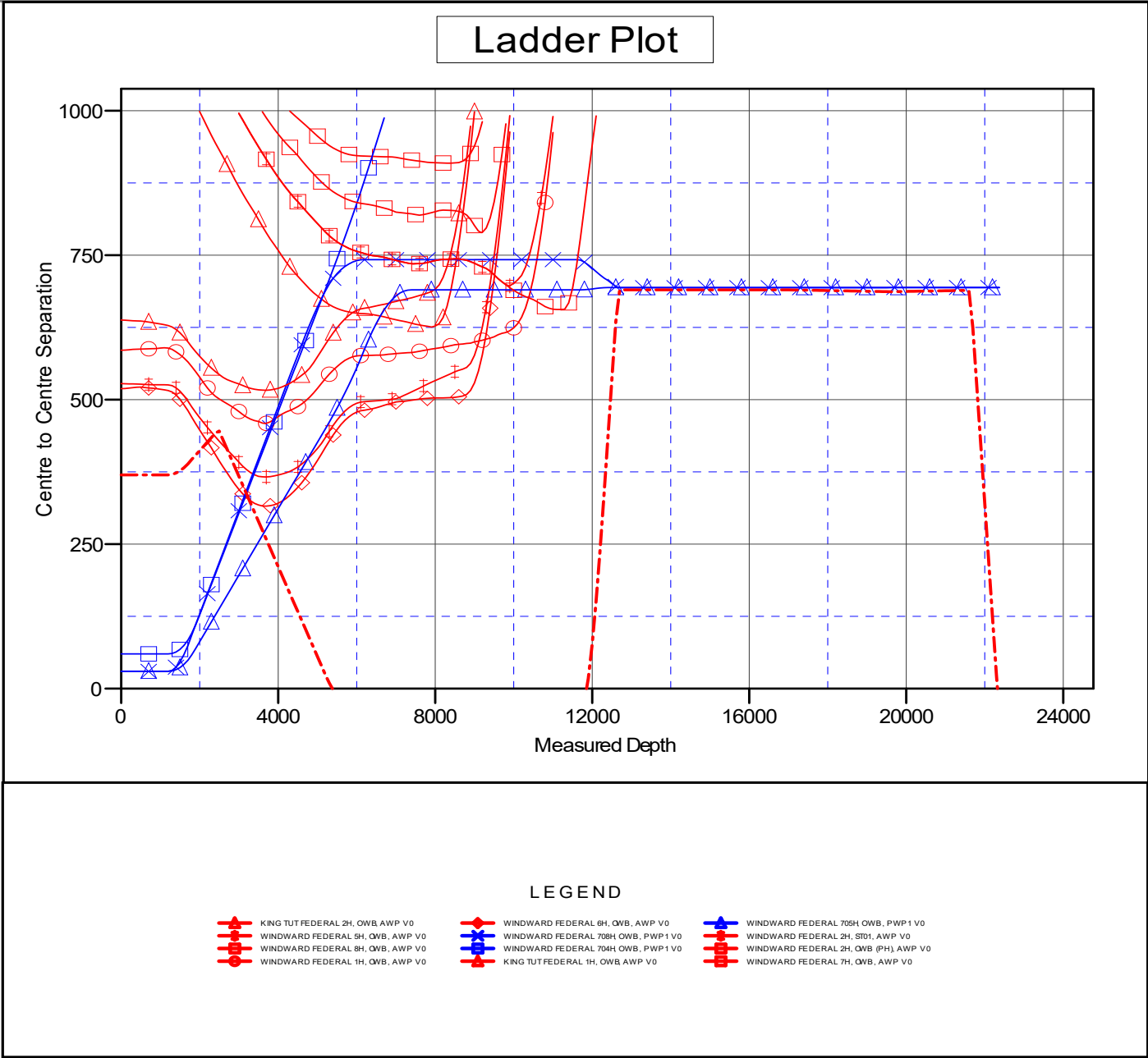
Offset Design: WINDWARD FEDERAL PROJECT - WINDWARD FEDERAL 8H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 8684-r.5 MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum 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)			
4,300.0	4,258.0	4,232.7	4,236.5	15.9	4.2	60.41	520.9	1,209.5	999.3	982.4	16.87	59.247	
4,400.0	4,356.4	4,334.5	4,338.2	16.3	4.3	61.34	520.4	1,212.0	993.1	976.0	17.06	58.215	
4,500.0	4,454.9	4,428.7	4,432.4	16.7	4.3	62.21	519.9	1,213.8	986.8	969.5	17.25	57.192	
4,600.0	4,553.4	4,529.9	4,533.6	17.2	4.4	63.17	519.2	1,215.9	980.8	963.4	17.42	56.293	
4,700.0	4,651.9	4,632.7	4,636.4	17.6	4.4	64.14	518.6	1,217.9	974.9	957.3	17.58	55.451	
4,800.0	4,750.4	4,735.6	4,739.2	18.1	4.5	65.11	518.4	1,219.2	968.7	950.9	17.73	54.626	
4,900.0	4,848.9	4,837.0	4,840.7	18.5	4.6	66.06	518.4	1,220.1	962.3	944.4	17.88	53.822	
5,000.0	4,947.3	4,935.3	4,938.9	18.9	4.6	66.99	518.6	1,220.9	956.1	938.1	18.02	53.049	
5,100.0	5,045.8	5,032.1	5,035.7	19.4	4.7	67.90	518.9	1,222.0	950.4	932.3	18.16	52.330	
5,200.0	5,144.3	5,134.4	5,138.0	19.8	4.8	68.86	519.2	1,222.9	944.8	926.6	18.25	51.784	
5,300.0	5,243.0	5,231.8	5,235.4	20.2	4.9	69.66	519.9	1,223.7	939.9	921.5	18.38	51.137	
5,400.0	5,342.0	5,333.8	5,337.4	20.7	5.0	70.41	520.6	1,224.4	935.6	917.1	18.51	50.558	
5,500.0	5,441.2	5,431.3	5,434.9	21.1	5.0	71.03	521.5	1,225.1	932.0	913.4	18.65	49.983	
5,600.0	5,540.6	5,534.4	5,538.0	21.5	5.1	71.59	522.3	1,225.7	929.0	910.2	18.78	49.464	
5,700.0	5,640.2	5,633.4	5,637.0	21.9	5.2	72.04	523.3	1,226.1	926.4	907.5	18.93	48.944	
5,800.0	5,739.9	5,734.7	5,738.3	22.2	5.3	72.40	524.2	1,226.5	924.5	905.4	19.08	48.455	
5,900.0	5,839.7	5,832.0	5,835.6	22.6	5.4	72.63	525.4	1,227.1	923.2	903.9	19.25	47.961	
6,000.0	5,939.7	5,934.8	5,938.4	22.9	5.5	72.77	526.8	1,227.5	922.3	902.9	19.41	47.504	
6,100.0	6,039.6	6,035.6	6,039.2	23.2	5.6	72.81	528.1	1,227.8	921.8	902.2	19.59	47.054	
6,200.0	6,139.6	6,138.2	6,141.8	23.3	5.6	98.26	529.6	1,228.0	921.6	901.9	19.71	46.761	
6,300.0	6,239.6	6,237.2	6,240.8	23.3	5.7	98.17	531.1	1,228.0	921.3	901.5	19.86	46.400	
6,400.0	6,339.6	6,336.9	6,340.4	23.4	5.8	98.07	532.6	1,228.1	921.2	901.2	20.00	46.055	
6,500.0	6,439.6	6,439.4	6,442.9	23.4	5.9	98.00	533.9	1,228.0	921.0	900.8	20.14	45.732	
6,600.0	6,539.6	6,539.7	6,543.3	23.5	6.0	97.94	534.8	1,227.8	920.6	900.3	20.27	45.416	
6,700.0	6,639.6	6,636.9	6,640.4	23.5	6.1	97.90	535.4	1,227.7	920.4	900.0	20.41	45.098	
6,800.0	6,739.6	6,738.0	6,741.5	23.6	6.2	97.87	536.0	1,227.7	920.3	899.8	20.54	44.807	
6,900.0	6,839.6	6,840.6	6,844.1	23.6	6.2	97.84	536.4	1,227.4	920.0	899.4	20.66	44.528	
7,000.0	6,939.6	6,944.3	6,947.8	23.6	6.3	97.86	536.2	1,226.7	919.3	898.6	20.77	44.267	
7,100.0	7,039.6	7,048.1	7,051.6	23.7	6.3	97.93	535.3	1,225.3	918.2	897.3	20.87	44.000	
7,200.0	7,139.6	7,147.1	7,150.6	23.7	6.3	98.02	534.0	1,223.9	917.0	896.0	20.97	43.718	
7,300.0	7,239.6	7,248.0	7,251.4	23.8	6.3	98.12	532.7	1,222.5	915.7	894.6	21.08	43.443	
7,400.0	7,339.6	7,345.9	7,349.4	23.8	6.3	98.22	531.2	1,221.1	914.6	893.4	21.19	43.167	
7,500.0	7,439.6	7,444.1	7,447.5	23.9	6.3	98.35	529.4	1,219.9	913.6	892.3	21.29	42.907	
7,600.0	7,539.6	7,544.1	7,547.5	23.9	6.4	98.47	527.5	1,218.8	912.8	891.4	21.40	42.657	
7,700.0	7,639.6	7,646.2	7,649.6	24.0	6.4	98.60	525.6	1,217.4	911.8	890.3	21.50	42.409	
7,800.0	7,739.6	7,742.3	7,745.6	24.0	6.4	98.74	523.6	1,216.2	910.8	889.2	21.61	42.150	
7,900.0	7,839.6	7,838.4	7,841.7	24.1	6.4	98.88	521.4	1,215.5	910.4	888.7	21.72	41.916	
8,000.0	7,939.6	7,939.8	7,943.1	24.1	6.5	99.01	519.5	1,215.0	910.2	888.4	21.83	41.699	
8,100.0	8,039.6	8,037.1	8,040.3	24.2	6.5	99.12	517.7	1,214.4	909.9	888.0	21.94	41.467	
8,200.0	8,139.6	8,140.2	8,143.5	24.2	6.5	99.23	516.0	1,213.9	909.7	887.6	22.05	41.253	
8,300.0	8,239.6	8,238.2	8,241.4	24.3	6.6	99.36	514.1	1,213.4	909.5	887.3	22.17	41.031	
8,354.0	8,293.6	8,290.5	8,293.7	24.3	6.6	99.43	513.0	1,213.1	909.4	887.2	22.23	40.912 CC, ES	
8,400.0	8,339.6	8,334.2	8,337.4	24.3	6.6	99.49	512.1	1,213.1	909.5	887.2	22.28	40.815	
8,500.0	8,439.6	8,433.8	8,436.9	24.3	6.7	99.63	509.8	1,212.9	909.8	887.4	22.39	40.624	
8,600.0	8,539.6	8,510.0	8,513.2	24.4	6.7	99.75	507.8	1,212.9	910.5	887.9	22.55	40.382	
8,700.0	8,639.6	8,601.8	8,604.8	24.4	8.0	100.05	502.8	1,214.2	912.9	890.0	22.83	39.983	
8,800.0	8,739.6	8,684.0	8,686.5	24.5	9.2	100.54	494.3	1,217.0	918.0	894.8	23.18	39.605 SF	
8,900.0	8,839.6	8,736.0	8,737.8	24.5	9.3	100.99	486.5	1,219.7	926.2	902.8	23.37	39.633	
9,000.0	8,939.6	8,794.2	8,794.3	24.6	9.5	101.74	473.3	1,224.3	939.0	915.4	23.58	39.823	
9,100.0	9,039.6	8,831.0	8,828.7	24.6	9.7	102.44	460.8	1,227.8	957.3	933.3	23.94	39.978	
9,200.0	9,139.6	8,879.0	8,871.6	24.7	9.9	103.59	440.1	1,233.5	981.2	956.9	24.29	40.389	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB=32 @ 3573.4usft	Coordinates are relative to: WINDWARD FEDERAL 706H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W	Grid Convergence at Surface is: 0.33°



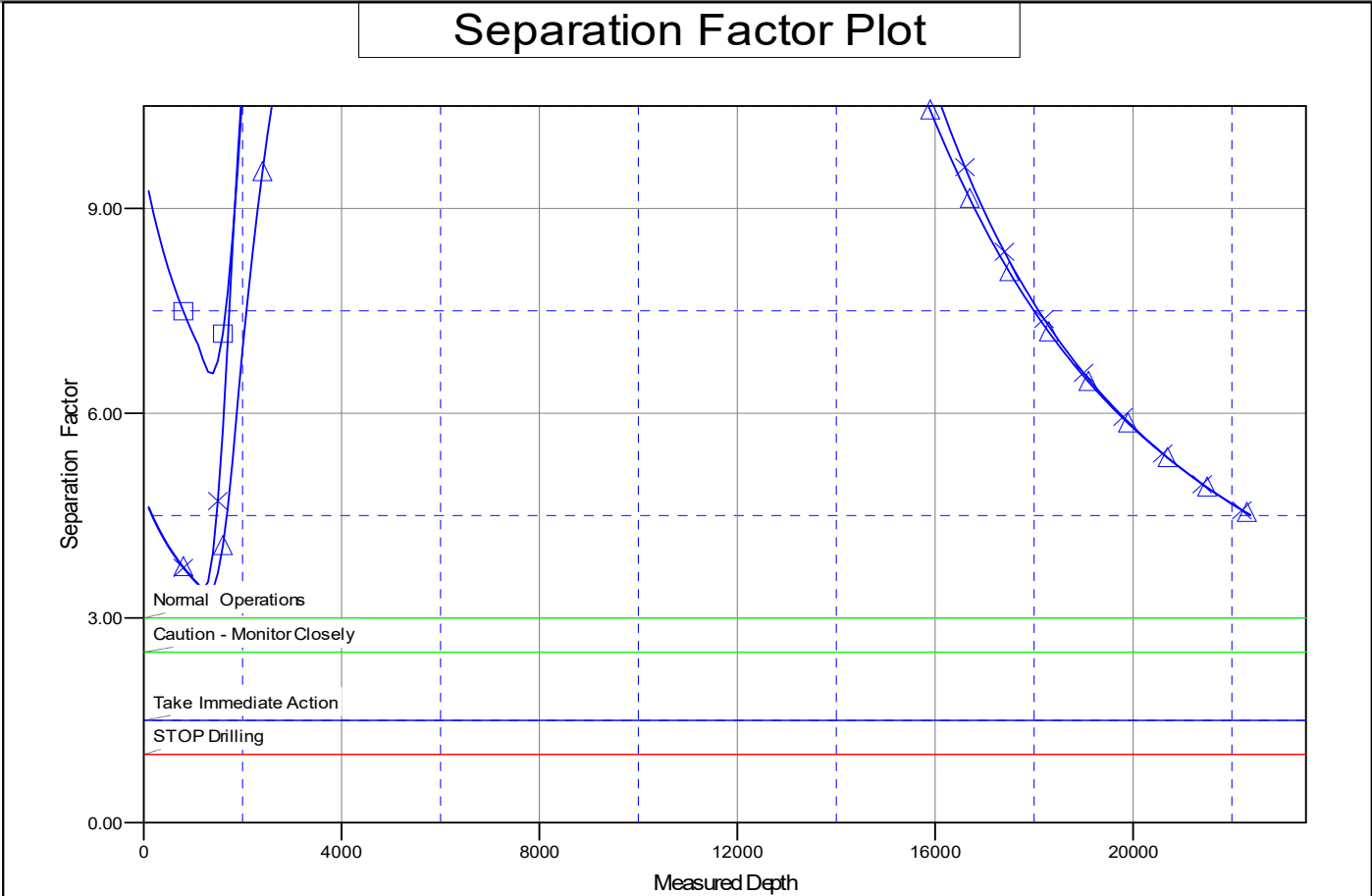
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Project:	LEA COUNTY SOUTHEAST	TVD Reference:	KB=32 @ 3573.4usft
Reference Site:	WINDWARD FEDERAL PROJECT	MD Reference:	KB=32 @ 3573.4usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to KB=32 @ 3573.4usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: WINDWARD FEDERAL 706H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.33°



LEGEND

	KING TUT FEDERAL 2H, OWB, AWP V0		WINDWARD FEDERAL 6H, OWB, AWP V0		WINDWARD FEDERAL 705H OWB, PWP1 V0
	WINDWARD FEDERAL 5H, OWB, AWP V0		WINDWARD FEDERAL 706H OWB, PWP1 V0		WINDWARD FEDERAL 2H, ST01, AWP V0
	WINDWARD FEDERAL 8H, OWB, AWP V0		WINDWARD FEDERAL 704H OWB, PWP1 V0		WINDWARD FEDERAL 2H, OWB (PH), AWP V0
	WINDWARD FEDERAL 1H, OWB, AWP V0		KING TUT FEDERAL 1H, OWB, AWP V0		WINDWARD FEDERAL 7H, OWB, AWP V0

COG Operating, LLC - Windward Federal 706H

1. Geologic Formations

TVD of target	12,060' EOL	Pilot hole depth	NA
MD at TD:	22,375'	Deepest expected fresh water:	380'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	776	Water	
Top of Salt	1072	Salt	
Base of Salt	4391	Salt	
Lamar	4627	Salt Water	
Bell Canyon	4651	Salt Water	
Cherry Canyon	5569	Oil/Gas	
Brushy Canyon	6863	Oil/Gas	
Bone Spring	8490	Oil/Gas	
1st Bone Spring Sand	9629	Oil/Gas	
1st Bone Spring Shale	9864	Oil/Gas	
2nd Bone Spring Sand	10233	Oil/Gas	
3rd Bone Spring Sand	11606	Oil/Gas	
Wolfcamp	11957	Oil/Gas	
Wolfcamp A	12086	Oil/Gas	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50	0	930	13.375"	54.5	J55	BTC	2.66	1.43	16.83	17.93
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.33	1.01	2.88	2.90
8.750"	8500	11500	7.625"	29.7	P110-ICY	W513	1.23	1.52	3.13	1.88
6.75"	0	11300	5.5"	23	P110-CY	BTC	1.83	2.14	2.80	2.80
6.75"	11300	22,375	5.5"	23	P110-CY	W441	1.72	2.00	2.63	2.39
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	930	13.375"	54.5	J55	BTC	2.66	1.43	16.83	17.93
12.25"	0	4530	9.625"	40	L80-IC	BTC	1.64	1.28	5.06	5.23
8.75"	4330	11500	7.625"	29.7	P110-ICY	W513	1.23	1.52	3.13	1.88
6.75"	0	11300	5.5"	23	P110-CY	BTC	1.83	2.14	2.80	2.80
6.75"	11300	22,375	5.5"	23	P110-CY	W441	1.72	2.00	2.63	2.39
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 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows or losses are encountered.

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

April 25, 2024

1

COG Operating, LLC - Windward Federal 706H

	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 706H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	450	12.8	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 tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	710	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	830	13.2	1.34	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'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	560	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
Int. #1	670	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	850	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	830	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows or losses are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	4,330'	20%
Production	11,250'	20% OH in Lateral (KOP to EOL)

COG Operating, LLC - Windward Federal 706H

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 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 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per 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 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

COG Operating, LLC - Windward Federal 706H

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 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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
---	-----------------------------

5b. Contingency 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	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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 706H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8470 psi at 12060' 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 43 CFR Part 3170 Subpart 3176. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

DELAWARE BASIN EAST

LEA COUNTY SOUTHEAST

WINDWARD FEDERAL PROJECT

WINDWARD FEDERAL 706H

300255038400

OWB

Plan: PWP1

Standard Planning Report

24 April, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

Site	WINDWARD FEDERAL PROJECT		
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

Well	WINDWARD FEDERAL 706H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.33 °		
		Latitude:	32° 11' 36.705 N
		Longitude:	103° 43' 12.822 W
		Ground Level:	3,541.4 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/27/2020	6.69	59.87	47,525.51738349

Design	PWP1				
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	177.78

Plan Survey Tool Program	Date	4/24/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,200.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp	
2	1,200.0	22,374.9 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

ConocoPhillips
Planning Report

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Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	10.00	25.52	1,697.5	39.3	18.7	2.00	2.00	0.00	25.52	
5,172.5	10.00	25.52	5,117.2	583.4	278.5	0.00	0.00	0.00	0.00	
6,172.5	0.00	0.00	6,112.1	662.0	316.0	1.00	-1.00	0.00	180.00	
11,642.9	0.00	0.00	11,582.5	662.0	316.0	0.00	0.00	0.00	0.00	
12,392.9	90.00	179.65	12,060.0	184.5	318.9	12.00	12.00	23.95	179.65	
22,374.9	90.00	179.65	12,060.0	-9,797.3	379.8	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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
Start Build 2.00									
1,300.0	2.00	25.52	1,300.0	1.6	0.8	-1.5	2.00	2.00	0.00
1,400.0	4.00	25.52	1,399.8	6.3	3.0	-6.2	2.00	2.00	0.00
1,500.0	6.00	25.52	1,499.5	14.2	6.8	-13.9	2.00	2.00	0.00
1,600.0	8.00	25.52	1,598.7	25.2	12.0	-24.7	2.00	2.00	0.00
1,700.0	10.00	25.52	1,697.5	39.3	18.7	-38.5	2.00	2.00	0.00
Start 3472.5 hold at 1700.0 MD									
1,800.0	10.00	25.52	1,795.9	54.9	26.2	-53.9	0.00	0.00	0.00
1,900.0	10.00	25.52	1,894.4	70.6	33.7	-69.3	0.00	0.00	0.00
2,000.0	10.00	25.52	1,992.9	86.3	41.2	-84.6	0.00	0.00	0.00
2,100.0	10.00	25.52	2,091.4	102.0	48.7	-100.0	0.00	0.00	0.00
2,200.0	10.00	25.52	2,189.9	117.6	56.2	-115.4	0.00	0.00	0.00
2,300.0	10.00	25.52	2,288.4	133.3	63.6	-130.7	0.00	0.00	0.00
2,400.0	10.00	25.52	2,386.8	149.0	71.1	-146.1	0.00	0.00	0.00
2,500.0	10.00	25.52	2,485.3	164.6	78.6	-161.5	0.00	0.00	0.00
2,600.0	10.00	25.52	2,583.8	180.3	86.1	-176.8	0.00	0.00	0.00
2,700.0	10.00	25.52	2,682.3	196.0	93.6	-192.2	0.00	0.00	0.00
2,800.0	10.00	25.52	2,780.8	211.7	101.0	-207.6	0.00	0.00	0.00
2,900.0	10.00	25.52	2,879.2	227.3	108.5	-223.0	0.00	0.00	0.00
3,000.0	10.00	25.52	2,977.7	243.0	116.0	-238.3	0.00	0.00	0.00
3,100.0	10.00	25.52	3,076.2	258.7	123.5	-253.7	0.00	0.00	0.00
3,200.0	10.00	25.52	3,174.7	274.3	131.0	-269.1	0.00	0.00	0.00
3,300.0	10.00	25.52	3,273.2	290.0	138.4	-284.4	0.00	0.00	0.00
3,400.0	10.00	25.52	3,371.6	305.7	145.9	-299.8	0.00	0.00	0.00
3,500.0	10.00	25.52	3,470.1	321.4	153.4	-315.2	0.00	0.00	0.00
3,600.0	10.00	25.52	3,568.6	337.0	160.9	-330.5	0.00	0.00	0.00
3,700.0	10.00	25.52	3,667.1	352.7	168.4	-345.9	0.00	0.00	0.00
3,800.0	10.00	25.52	3,765.6	368.4	175.8	-361.3	0.00	0.00	0.00
3,900.0	10.00	25.52	3,864.0	384.0	183.3	-376.6	0.00	0.00	0.00
4,000.0	10.00	25.52	3,962.5	399.7	190.8	-392.0	0.00	0.00	0.00
4,100.0	10.00	25.52	4,061.0	415.4	198.3	-407.4	0.00	0.00	0.00
4,200.0	10.00	25.52	4,159.5	431.1	205.8	-422.8	0.00	0.00	0.00
4,300.0	10.00	25.52	4,258.0	446.7	213.2	-438.1	0.00	0.00	0.00
4,400.0	10.00	25.52	4,356.4	462.4	220.7	-453.5	0.00	0.00	0.00
4,500.0	10.00	25.52	4,454.9	478.1	228.2	-468.9	0.00	0.00	0.00
4,600.0	10.00	25.52	4,553.4	493.7	235.7	-484.2	0.00	0.00	0.00
4,700.0	10.00	25.52	4,651.9	509.4	243.2	-499.6	0.00	0.00	0.00
4,800.0	10.00	25.52	4,750.4	525.1	250.6	-515.0	0.00	0.00	0.00
4,900.0	10.00	25.52	4,848.9	540.7	258.1	-530.3	0.00	0.00	0.00
5,000.0	10.00	25.52	4,947.3	556.4	265.6	-545.7	0.00	0.00	0.00
5,100.0	10.00	25.52	5,045.8	572.1	273.1	-561.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,172.5	10.00	25.52	5,117.2	583.4	278.5	-572.2	0.00	0.00	0.00
Start Drop -1.00									
5,200.0	9.72	25.52	5,144.3	587.7	280.5	-576.4	1.00	-1.00	0.00
5,300.0	8.72	25.52	5,243.0	602.2	287.4	-590.6	1.00	-1.00	0.00
5,400.0	7.72	25.52	5,342.0	615.1	293.6	-603.2	1.00	-1.00	0.00
5,500.0	6.72	25.52	5,441.2	626.4	299.0	-614.4	1.00	-1.00	0.00
5,600.0	5.72	25.52	5,540.6	636.2	303.7	-624.0	1.00	-1.00	0.00
5,700.0	4.72	25.52	5,640.2	644.4	307.6	-632.0	1.00	-1.00	0.00
5,800.0	3.72	25.52	5,739.9	651.1	310.8	-638.6	1.00	-1.00	0.00
5,900.0	2.72	25.52	5,839.7	656.2	313.2	-643.5	1.00	-1.00	0.00
6,000.0	1.72	25.52	5,939.7	659.7	314.9	-647.0	1.00	-1.00	0.00
6,100.0	0.72	25.52	6,039.6	661.6	315.8	-648.9	1.00	-1.00	0.00
6,172.5	0.00	0.00	6,112.1	662.0	316.0	-649.3	1.00	-1.00	-35.22
Start 5470.4 hold at 6172.5 MD									
6,200.0	0.00	0.00	6,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,639.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,739.6	662.0	316.0	-649.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,839.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,939.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,039.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,639.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,739.6	662.0	316.0	-649.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,839.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,939.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,039.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,639.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,739.6	662.0	316.0	-649.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,839.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,939.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,039.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,500.0	0.00	0.00	9,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,639.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,739.6	662.0	316.0	-649.3	0.00	0.00	0.00
9,900.0	0.00	0.00	9,839.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,939.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,100.0	0.00	0.00	10,039.6	662.0	316.0	-649.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
10,200.0	0.00	0.00	10,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,500.0	0.00	0.00	10,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,639.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,800.0	0.00	0.00	10,739.6	662.0	316.0	-649.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,839.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,939.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,039.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,139.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,239.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,400.0	0.00	0.00	11,339.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,439.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,539.6	662.0	316.0	-649.3	0.00	0.00	0.00
11,642.9	0.00	0.00	11,582.5	662.0	316.0	-649.3	0.00	0.00	0.00
Start DLS 12.00 TFO 179.65									
11,700.0	6.86	179.65	11,639.5	658.6	316.0	-645.8	12.00	12.00	0.00
11,800.0	18.86	179.65	11,736.8	636.4	316.2	-623.6	12.00	12.00	0.00
11,900.0	30.86	179.65	11,827.4	594.4	316.4	-581.7	12.00	12.00	0.00
12,000.0	42.86	179.65	11,907.3	534.5	316.8	-521.9	12.00	12.00	0.00
12,042.1	47.91	179.65	11,936.8	504.6	317.0	-491.9	12.00	12.00	0.00
FTP_WINDWARD FED 706H									
12,100.0	54.86	179.65	11,972.9	459.4	317.2	-446.7	12.00	12.00	0.00
12,200.0	66.86	179.65	12,021.5	372.2	317.8	-359.6	12.00	12.00	0.00
12,300.0	78.86	179.65	12,051.0	276.8	318.3	-264.3	12.00	12.00	0.00
12,392.9	90.00	179.65	12,060.0	184.5	318.9	-172.1	12.00	12.00	0.00
Start 9982.0 hold at 12392.9 MD									
12,400.0	90.00	179.65	12,060.0	177.4	319.0	-164.9	0.00	0.00	0.00
12,500.0	90.00	179.65	12,060.0	77.4	319.6	-65.0	0.00	0.00	0.00
12,600.0	90.00	179.65	12,060.0	-22.6	320.2	35.0	0.00	0.00	0.00
12,700.0	90.00	179.65	12,060.0	-122.6	320.8	134.9	0.00	0.00	0.00
12,800.0	90.00	179.65	12,060.0	-222.6	321.4	234.9	0.00	0.00	0.00
12,900.0	90.00	179.65	12,060.0	-322.6	322.0	334.8	0.00	0.00	0.00
13,000.0	90.00	179.65	12,060.0	-422.6	322.6	434.8	0.00	0.00	0.00
13,100.0	90.00	179.65	12,060.0	-522.6	323.2	534.7	0.00	0.00	0.00
13,200.0	90.00	179.65	12,060.0	-622.6	323.8	634.7	0.00	0.00	0.00
13,300.0	90.00	179.65	12,060.0	-722.6	324.4	734.6	0.00	0.00	0.00
13,400.0	90.00	179.65	12,060.0	-822.6	325.1	834.6	0.00	0.00	0.00
13,500.0	90.00	179.65	12,060.0	-922.6	325.7	934.5	0.00	0.00	0.00
13,600.0	90.00	179.65	12,060.0	-1,022.6	326.3	1,034.4	0.00	0.00	0.00
13,700.0	90.00	179.65	12,060.0	-1,122.6	326.9	1,134.4	0.00	0.00	0.00
13,800.0	90.00	179.65	12,060.0	-1,222.6	327.5	1,234.3	0.00	0.00	0.00
13,900.0	90.00	179.65	12,060.0	-1,322.6	328.1	1,334.3	0.00	0.00	0.00
14,000.0	90.00	179.65	12,060.0	-1,422.6	328.7	1,434.2	0.00	0.00	0.00
14,100.0	90.00	179.65	12,060.0	-1,522.6	329.3	1,534.2	0.00	0.00	0.00
14,200.0	90.00	179.65	12,060.0	-1,622.6	329.9	1,634.1	0.00	0.00	0.00
14,300.0	90.00	179.65	12,060.0	-1,722.6	330.5	1,734.1	0.00	0.00	0.00
14,400.0	90.00	179.65	12,060.0	-1,822.6	331.2	1,834.0	0.00	0.00	0.00
14,500.0	90.00	179.65	12,060.0	-1,922.6	331.8	1,934.0	0.00	0.00	0.00
14,600.0	90.00	179.65	12,060.0	-2,022.6	332.4	2,033.9	0.00	0.00	0.00
14,700.0	90.00	179.65	12,060.0	-2,122.6	333.0	2,133.9	0.00	0.00	0.00
14,800.0	90.00	179.65	12,060.0	-2,222.6	333.6	2,233.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
14,900.0	90.00	179.65	12,060.0	-2,322.6	334.2	2,333.8	0.00	0.00	0.00
15,000.0	90.00	179.65	12,060.0	-2,422.5	334.8	2,433.7	0.00	0.00	0.00
15,100.0	90.00	179.65	12,060.0	-2,522.5	335.4	2,533.6	0.00	0.00	0.00
15,200.0	90.00	179.65	12,060.0	-2,622.5	336.0	2,633.6	0.00	0.00	0.00
15,300.0	90.00	179.65	12,060.0	-2,722.5	336.6	2,733.5	0.00	0.00	0.00
15,400.0	90.00	179.65	12,060.0	-2,822.5	337.3	2,833.5	0.00	0.00	0.00
15,500.0	90.00	179.65	12,060.0	-2,922.5	337.9	2,933.4	0.00	0.00	0.00
15,600.0	90.00	179.65	12,060.0	-3,022.5	338.5	3,033.4	0.00	0.00	0.00
15,700.0	90.00	179.65	12,060.0	-3,122.5	339.1	3,133.3	0.00	0.00	0.00
15,800.0	90.00	179.65	12,060.0	-3,222.5	339.7	3,233.3	0.00	0.00	0.00
15,900.0	90.00	179.65	12,060.0	-3,322.5	340.3	3,333.2	0.00	0.00	0.00
16,000.0	90.00	179.65	12,060.0	-3,422.5	340.9	3,433.2	0.00	0.00	0.00
16,100.0	90.00	179.65	12,060.0	-3,522.5	341.5	3,533.1	0.00	0.00	0.00
16,200.0	90.00	179.65	12,060.0	-3,622.5	342.1	3,633.1	0.00	0.00	0.00
16,300.0	90.00	179.65	12,060.0	-3,722.5	342.7	3,733.0	0.00	0.00	0.00
16,400.0	90.00	179.65	12,060.0	-3,822.5	343.4	3,833.0	0.00	0.00	0.00
16,500.0	90.00	179.65	12,060.0	-3,922.5	344.0	3,932.9	0.00	0.00	0.00
16,600.0	90.00	179.65	12,060.0	-4,022.5	344.6	4,032.8	0.00	0.00	0.00
16,700.0	90.00	179.65	12,060.0	-4,122.5	345.2	4,132.8	0.00	0.00	0.00
16,800.0	90.00	179.65	12,060.0	-4,222.5	345.8	4,232.7	0.00	0.00	0.00
16,900.0	90.00	179.65	12,060.0	-4,322.5	346.4	4,332.7	0.00	0.00	0.00
17,000.0	90.00	179.65	12,060.0	-4,422.5	347.0	4,432.6	0.00	0.00	0.00
17,100.0	90.00	179.65	12,060.0	-4,522.5	347.6	4,532.6	0.00	0.00	0.00
17,200.0	90.00	179.65	12,060.0	-4,622.5	348.2	4,632.5	0.00	0.00	0.00
17,300.0	90.00	179.65	12,060.0	-4,722.5	348.8	4,732.5	0.00	0.00	0.00
17,400.0	90.00	179.65	12,060.0	-4,822.5	349.5	4,832.4	0.00	0.00	0.00
17,500.0	90.00	179.65	12,060.0	-4,922.5	350.1	4,932.4	0.00	0.00	0.00
17,600.0	90.00	179.65	12,060.0	-5,022.5	350.7	5,032.3	0.00	0.00	0.00
17,700.0	90.00	179.65	12,060.0	-5,122.5	351.3	5,132.3	0.00	0.00	0.00
17,800.0	90.00	179.65	12,060.0	-5,222.5	351.9	5,232.2	0.00	0.00	0.00
17,900.0	90.00	179.65	12,060.0	-5,322.5	352.5	5,332.2	0.00	0.00	0.00
18,000.0	90.00	179.65	12,060.0	-5,422.5	353.1	5,432.1	0.00	0.00	0.00
18,100.0	90.00	179.65	12,060.0	-5,522.5	353.7	5,532.0	0.00	0.00	0.00
18,200.0	90.00	179.65	12,060.0	-5,622.5	354.3	5,632.0	0.00	0.00	0.00
18,300.0	90.00	179.65	12,060.0	-5,722.5	354.9	5,731.9	0.00	0.00	0.00
18,400.0	90.00	179.65	12,060.0	-5,822.5	355.6	5,831.9	0.00	0.00	0.00
18,500.0	90.00	179.65	12,060.0	-5,922.5	356.2	5,931.8	0.00	0.00	0.00
18,600.0	90.00	179.65	12,060.0	-6,022.5	356.8	6,031.8	0.00	0.00	0.00
18,700.0	90.00	179.65	12,060.0	-6,122.5	357.4	6,131.7	0.00	0.00	0.00
18,800.0	90.00	179.65	12,060.0	-6,222.5	358.0	6,231.7	0.00	0.00	0.00
18,900.0	90.00	179.65	12,060.0	-6,322.5	358.6	6,331.6	0.00	0.00	0.00
19,000.0	90.00	179.65	12,060.0	-6,422.5	359.2	6,431.6	0.00	0.00	0.00
19,100.0	90.00	179.65	12,060.0	-6,522.5	359.8	6,531.5	0.00	0.00	0.00
19,200.0	90.00	179.65	12,060.0	-6,622.5	360.4	6,631.5	0.00	0.00	0.00
19,300.0	90.00	179.65	12,060.0	-6,722.5	361.0	6,731.4	0.00	0.00	0.00
19,400.0	90.00	179.65	12,060.0	-6,822.5	361.7	6,831.4	0.00	0.00	0.00
19,500.0	90.00	179.65	12,060.0	-6,922.5	362.3	6,931.3	0.00	0.00	0.00
19,600.0	90.00	179.65	12,060.0	-7,022.5	362.9	7,031.2	0.00	0.00	0.00
19,700.0	90.00	179.65	12,060.0	-7,122.5	363.5	7,131.2	0.00	0.00	0.00
19,800.0	90.00	179.65	12,060.0	-7,222.5	364.1	7,231.1	0.00	0.00	0.00
19,900.0	90.00	179.65	12,060.0	-7,322.5	364.7	7,331.1	0.00	0.00	0.00
20,000.0	90.00	179.65	12,060.0	-7,422.5	365.3	7,431.0	0.00	0.00	0.00
20,100.0	90.00	179.65	12,060.0	-7,522.5	365.9	7,531.0	0.00	0.00	0.00
20,200.0	90.00	179.65	12,060.0	-7,622.5	366.5	7,630.9	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,300.0	90.00	179.65	12,060.0	-7,722.5	367.1	7,730.9	0.00	0.00	0.00	
20,400.0	90.00	179.65	12,060.0	-7,822.4	367.8	7,830.8	0.00	0.00	0.00	
20,500.0	90.00	179.65	12,060.0	-7,922.4	368.4	7,930.8	0.00	0.00	0.00	
20,600.0	90.00	179.65	12,060.0	-8,022.4	369.0	8,030.7	0.00	0.00	0.00	
20,700.0	90.00	179.65	12,060.0	-8,122.4	369.6	8,130.7	0.00	0.00	0.00	
20,800.0	90.00	179.65	12,060.0	-8,222.4	370.2	8,230.6	0.00	0.00	0.00	
20,900.0	90.00	179.65	12,060.0	-8,322.4	370.8	8,330.6	0.00	0.00	0.00	
21,000.0	90.00	179.65	12,060.0	-8,422.4	371.4	8,430.5	0.00	0.00	0.00	
21,100.0	90.00	179.65	12,060.0	-8,522.4	372.0	8,530.5	0.00	0.00	0.00	
21,200.0	90.00	179.65	12,060.0	-8,622.4	372.6	8,630.4	0.00	0.00	0.00	
21,300.0	90.00	179.65	12,060.0	-8,722.4	373.2	8,730.3	0.00	0.00	0.00	
21,400.0	90.00	179.65	12,060.0	-8,822.4	373.9	8,830.3	0.00	0.00	0.00	
21,500.0	90.00	179.65	12,060.0	-8,922.4	374.5	8,930.2	0.00	0.00	0.00	
21,600.0	90.00	179.65	12,060.0	-9,022.4	375.1	9,030.2	0.00	0.00	0.00	
21,700.0	90.00	179.65	12,060.0	-9,122.4	375.7	9,130.1	0.00	0.00	0.00	
21,800.0	90.00	179.65	12,060.0	-9,222.4	376.3	9,230.1	0.00	0.00	0.00	
21,900.0	90.00	179.65	12,060.0	-9,322.4	376.9	9,330.0	0.00	0.00	0.00	
22,000.0	90.00	179.65	12,060.0	-9,422.4	377.5	9,430.0	0.00	0.00	0.00	
22,100.0	90.00	179.65	12,060.0	-9,522.4	378.1	9,529.9	0.00	0.00	0.00	
22,200.0	90.00	179.65	12,060.0	-9,622.4	378.7	9,629.9	0.00	0.00	0.00	
22,300.0	90.00	179.65	12,060.0	-9,722.4	379.3	9,729.8	0.00	0.00	0.00	
LTP_WINDWARD FED 706H										
22,374.9	90.00	179.65	12,060.0	-9,797.3	379.8	9,804.7	0.00	0.00	0.00	
TD at 22374.9 - PBHL_WINDWARD FED 706H										

Design Targets										
Target Name										
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude	
FTP_WINDWARD FED	0.00	0.00	12,060.0	612.2	316.3	435,278.80	689,976.90	32° 11' 42.746 N	103° 43' 9.100 W	
- plan misses target center by 163.6usft at 12042.1usft MD (11936.8 TVD, 504.6 N, 317.0 E)										
- Circle (radius 50.0)										
LTP_WINDWARD FED	90.00	179.50	12,060.0	-9,747.3	379.5	424,919.30	690,040.10	32° 10' 0.226 N	103° 43' 9.053 W	
- plan misses target center by 24.9usft at 22300.0usft MD (12060.0 TVD, -9722.4 N, 379.3 E)										
- Circle (radius 50.0)										
PBHL_WINDWARD FED	0.00	359.65	12,060.0	-9,797.3	379.8	424,869.30	690,040.40	32° 9' 59.731 N	103° 43' 9.053 W	
- plan hits target center										
- Rectangle (sides W100.0 H10,410.0 D20.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
22,374.9	12,060.0	5-1/2" Production Casing		5-1/2	6

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well WINDWARD FEDERAL 706H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=32 @ 3573.4usft
Project:	LEA COUNTY SOUTHEAST	MD Reference:	KB=32 @ 3573.4usft
Site:	WINDWARD FEDERAL PROJECT	North Reference:	Grid
Well:	WINDWARD FEDERAL 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,200.0	1,200.0	0.0	0.0	Start Build 2.00
1,700.0	1,697.5	39.3	18.7	Start 3472.5 hold at 1700.0 MD
5,172.5	5,117.2	583.4	278.5	Start Drop -1.00
6,172.5	6,112.1	662.0	316.0	Start 5470.4 hold at 6172.5 MD
11,642.9	11,582.5	662.0	316.0	Start DLS 12.00 TFO 179.65
12,392.9	12,060.0	184.5	318.9	Start 9982.0 hold at 12392.9 MD
22,374.9	12,060.0	-9,797.3	379.8	TD at 22374.9

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) 746-1283 Fax: (575) 746-9720

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) 476-3460 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 30-025-50384	Pool Code 98248	Pool Name WC-025 G-08 S243217P; Upper Wolfcamp
Property Code 40143	Property Name WINDWARD FEDERAL	Well Number 706H
OGRID No. 217955	Operator Name COG PRODUCTION LLC	Elevation 3541.4'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	30	24-S	32-E		710	NORTH	700	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	1020	WEST	LEA
Dedicated Acres 1331.72	Joint or Infill	Consolidation Code	Order No.						

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

FTP/PPP1 100' FNL & 1020' FWL Y=435337.5 N X=731161.5 E LAT.=32.195331° N LONG.=103.719675° W GRID AZ. TO FTP 27°19'07" NAD 83 NME SURFACE LOCATION Y=434725.2 N X=730845.2 E LAT.=32.193653° N LONG.=103.720708° W NAD 83 NME PROPOSED BOTTOM HOLE LOCATION Y=424927.7 N X=731225.4 E LAT.=32.166716° N LONG.=103.719660° W POINT LEGEND <table border="1"> <tr><td>1</td><td>Y=435430.2 N X=730140.9 E</td></tr> <tr><td>2</td><td>Y=432790.7 N X=730157.0 E</td></tr> <tr><td>3</td><td>Y=430150.9 N X=730172.3 E</td></tr> <tr><td>4</td><td>Y=427509.5 N X=730189.1 E</td></tr> <tr><td>5</td><td>Y=424873.0 N X=730205.8 E</td></tr> <tr><td>6</td><td>Y=424886.2 N X=733060.2 E</td></tr> <tr><td>7</td><td>Y=430176.4 N X=733021.2 E</td></tr> <tr><td>8</td><td>Y=435450.5 N X=732978.6 E</td></tr> </table> LOT 1 46.10 Ac LOT 2 46.18 Ac LOT 3 46.26 Ac LOT 4 46.34 Ac LOT 1 46.46 Ac LOT 2 46.63 Ac LOT 3 46.79 Ac LOT 4 46.96 Ac GRID AZ. - 179°38'54" HORZ. DIST. - 10410.0' SECTION 30 SECTION 31 1020' B.H. 50'	1	Y=435430.2 N X=730140.9 E	2	Y=432790.7 N X=730157.0 E	3	Y=430150.9 N X=730172.3 E	4	Y=427509.5 N X=730189.1 E	5	Y=424873.0 N X=730205.8 E	6	Y=424886.2 N X=733060.2 E	7	Y=430176.4 N X=733021.2 E	8	Y=435450.5 N X=732978.6 E	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. <u>Stan Wagner</u> 4/25/2024 Signature Date Stan Wagner Printed Name E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 3, 2020 Date of Survey Signature & Seal of Professional Surveyor <u>Chad Harcrow</u> 3/24/24 Certificate No. CHAD HARCROW 17777 W.O. # 24-273 DRAWN BY: WN
1	Y=435430.2 N X=730140.9 E																
2	Y=432790.7 N X=730157.0 E																
3	Y=430150.9 N X=730172.3 E																
4	Y=427509.5 N X=730189.1 E																
5	Y=424873.0 N X=730205.8 E																
6	Y=424886.2 N X=733060.2 E																
7	Y=430176.4 N X=733021.2 E																
8	Y=435450.5 N X=732978.6 E																

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 340099

CONDITIONS

Operator: COG PRODUCTION, LLC 600 W. Illinois Ave Midland, TX 79701	OGRID: 217955
	Action Number: 340099
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	The C-103 NOI was not approved or rejected; however, the work requested in the C-103 NOI was performed and completed without NMOCD approval. This action will result in review for potential compliance actions.	10/27/2025
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	10/27/2025
matthew.gomez	Administrative order required for non-standard spacing unit prior to production.	10/27/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	10/27/2025