

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692291	County or Parish/State: LEA / NM
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842800S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2676066

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/09/2022	Time Sundry Submitted: 06:35
Date proposed operation will begin: 06/09/2022	

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 330' FEL. Section 32. T23S. R32E. To: 2590' FSL & 330' FEL. Section 32. T23S. R32E. Dedicated Acres From: 1279 To: 479.13 C102, Directional Plan and AC Report Attached.

NOI Attachments

Procedure Description

- GIN_AND_TECTONIC_FEDERAL_COM_501H_AC_RPT_20220609183528.pdf
- GIN_AND_TECTONIC_FEDERAL_COM_501H_Directional_Plan_20220609183528.pdf
- GIN_AND_TECTONIC_FED_COM_501H_C102_Nad83_20220609183528.pdf

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692291	County or Parish/State: LEA / NM
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842800S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

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: MAYTE REYES
Signed on: JUN 09, 2022 06:34 PM
Name: COG OPERATING LLC
Title: Regulatory Analyst
Street Address: 925 N ELDRIDGE PARKWAY
City: HOUSTON **State:** TX
Phone: (281) 293-1000
Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera
Street Address: 2208 West Main Street
City: Artesia **State:** NM **Zip:** 88210
Phone: (575)748-6940
Email address: gerald.a.herrera@conocophillips.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS
BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234
BLM POC Email Address: cwalls@blm.gov
Disposition: Approved
Disposition Date: 09/09/2022
Signature: Chris Walls

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM120906
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GIN AND TECTONIC FEDERAL CO
2. Name of Operator COG OPERATING LLC		9. API Well No. 3002548428
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443	10. Field and Pool or Exploratory Area MESA VERDE/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 5/T24S/R32E/NMP		11. Country or Parish, State LEA/NM

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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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.)

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

BHL Change
From: 50' FNL & 330' FEL. Section 32. T23S. R32E.
To: 2590' FSL & 330' FEL. Section 32. T23S. R32E.

Dedicated Acres
From: 1279
To: 479.13

C102, Directional Plan and AC Report Attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/09/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/09/2022
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 CARLSBAD	

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: SESE / 220 FSL / 1265 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239882 / LONG: -103.692291 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239566 / LONG: -103.689269 (TVD: 10408 feet, MD: 10500 feet)

PPP: SENE / 2639 FNL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246551 / LONG: -103.689255 (TVD: 10522 feet, MD: 12950 feet)

BHL: NENE / 50 FNL / 330 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268139 / LONG: -103.689214 (TVD: 10530 feet, MD: 20689 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

**GIN & TECTONIC FEDERAL PROJECT (BULLDOG
2332)**

GIN AND TECTONIC FEDERAL COM #501H

300254842800

OWB

PWP0

Anticollision Report

24 May, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	5/24/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
2,000.0	10,118.9	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction
10,118.9	18,160.8	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,339.5	4,334.4	145.7	124.7	6.946	CC
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,400.0	4,394.6	145.8	124.5	6.831	ES
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,845.0	4,837.2	155.0	131.0	6.468	SF
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	2,965.1	2,967.9	206.4	194.8	17.759	CC
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	3,000.0	3,002.2	206.5	194.7	17.503	ES
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	3,600.0	3,591.3	239.1	223.9	15.755	SF
GIN AND TECTONIC FEDERAL COM #205H - OWB - P						Out of range
GIN AND TECTONIC FEDERAL COM #206H - OWB - P						Out of range
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	2,000.0	1,992.0	295.0	288.4	44.848	CC, ES
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	2,400.0	2,370.3	339.9	329.9	33.898	SF
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,000.0	1,991.4	325.0	318.4	49.411	CC, ES
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,400.0	2,346.4	375.9	365.3	35.557	SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,000.0	1,996.9	60.0	53.4	9.120	CC, ES
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,200.0	2,192.0	73.5	65.1	8.754	SF
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL #3H - LATERAL 01 - AWP-LAT 01						Out of range
MASTIFF FEDERAL #3H - OWB-PILOT HOLE - AWP-P						Out of range
MASTIFF FEDERAL COM 310H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,196.1	8,056.5	952.8	921.9	30.871	CC
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,200.0	8,060.3	952.8	921.9	30.854	ES
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,930.0	8,787.4	995.4	961.5	29.327	SF
MASTIFF FEDERAL COM 406H - OWB - PWP0	10,138.6	10,070.7	667.4	629.5	17.620	CC
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,160.8	18,337.7	702.1	569.6	5.299	ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	18,160.8	16,754.3				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	18,160.8	17,028.7				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #205H - OWB - P	18,160.8	16,795.3				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #206H - OWB - P	18,160.8	17,043.9				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	18,160.8	16,744.8				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	18,160.8	17,067.9				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	18,160.8	18,129.6				Out of Range @TD
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL #3H - LATERAL 01 - AWP-LAT 01	18,160.8	10,098.0				Out of Range @TD
MASTIFF FEDERAL #3H - OWB-PILOT HOLE - AWP-P	18,160.8	10,544.5				Out of Range @TD
MASTIFF FEDERAL COM 310H - OWB - PWP0	18,160.8	17,078.1				Out of Range @TD
MASTIFF FEDERAL COM 312H - OWB - PWP0	18,160.8	17,184.2				Out of Range @TD
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,160.8	18,337.7	702.1	569.6	5.299	ES, SF

Offset Design:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program:	0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Rule Assigned:							
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	
0.0	0.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3					
95.0	95.0	88.3	88.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.00	44.700		
100.0	100.0	93.3	93.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.00	44.699		
190.0	190.0	183.3	183.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.01	44.646		
200.0	200.0	193.3	193.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.01	44.636		
285.0	285.0	278.3	278.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.02	44.520		
300.0	300.0	293.3	293.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.03	44.494		
380.0	380.0	373.3	373.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.05	44.327		
400.0	400.0	393.3	393.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.06	44.277		
475.0	475.0	468.3	468.3	3.0	3.0	20.58	251.1	94.3	268.2	262.1	6.09	44.067		
500.0	500.0	493.3	493.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.10	43.989		
570.0	570.0	563.3	563.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.13	43.746		
600.0	600.0	593.3	593.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.15	43.632		
665.0	665.0	658.3	658.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.19	43.366		
700.0	700.0	693.3	693.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.21	43.213		
760.0	760.0	753.3	753.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.25	42.933		

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)			
800.0	800.0	793.3	793.3	3.2	3.1	20.58	251.1	94.3	268.2	261.9	6.28	42.736	
855.0	855.0	848.3	848.3	3.2	3.2	20.58	251.1	94.3	268.2	261.9	6.32	42.452	
900.0	900.0	893.3	893.3	3.2	3.2	20.58	251.1	94.3	268.2	261.9	6.35	42.209	
950.0	950.0	943.3	943.3	3.2	3.2	20.58	251.1	94.3	268.2	261.8	6.40	41.928	
1,000.0	1,000.0	993.3	993.3	3.2	3.2	20.58	251.1	94.3	268.2	261.8	6.44	41.637	
1,045.0	1,045.0	1,038.3	1,038.3	3.3	3.3	20.58	251.1	94.3	268.2	261.7	6.48	41.367	
1,100.0	1,100.0	1,093.3	1,093.3	3.3	3.3	20.58	251.1	94.3	268.2	261.7	6.54	41.027	
1,140.0	1,140.0	1,133.3	1,133.3	3.3	3.3	20.58	251.1	94.3	268.2	261.6	6.58	40.774	
1,200.0	1,200.0	1,193.3	1,193.3	3.4	3.3	20.58	251.1	94.3	268.2	261.6	6.64	40.385	
1,235.0	1,235.0	1,228.3	1,228.3	3.4	3.4	20.58	251.1	94.3	268.2	261.5	6.68	40.154	
1,300.0	1,300.0	1,293.3	1,293.3	3.4	3.4	20.58	251.1	94.3	268.2	261.5	6.75	39.716	
1,330.0	1,330.0	1,323.3	1,323.3	3.4	3.4	20.58	251.1	94.3	268.2	261.4	6.79	39.512	
1,400.0	1,400.0	1,393.3	1,393.3	3.5	3.5	20.58	251.1	94.3	268.2	261.4	6.87	39.028	
1,425.0	1,425.0	1,418.3	1,418.3	3.5	3.5	20.58	251.1	94.3	268.2	261.3	6.90	38.853	
1,500.0	1,500.0	1,493.3	1,493.3	3.5	3.5	20.58	251.1	94.3	268.2	261.2	7.00	38.324	
1,520.0	1,520.0	1,513.3	1,513.3	3.6	3.6	20.58	251.1	94.3	268.2	261.2	7.02	38.182	
1,600.0	1,600.0	1,593.3	1,593.3	3.6	3.6	20.58	251.1	94.3	268.2	261.1	7.13	37.610	
1,615.0	1,615.0	1,608.3	1,608.3	3.6	3.6	20.58	251.1	94.3	268.2	261.1	7.15	37.503	
1,700.0	1,700.0	1,693.3	1,693.3	3.7	3.7	20.58	251.1	94.3	268.2	261.0	7.27	36.891	
1,710.0	1,710.0	1,703.3	1,703.3	3.7	3.7	20.58	251.1	94.3	268.2	260.9	7.29	36.819	
1,800.0	1,800.0	1,793.3	1,793.3	3.8	3.8	20.58	251.1	94.3	268.2	260.8	7.42	36.169	
1,805.0	1,805.0	1,798.3	1,798.3	3.8	3.8	20.58	251.1	94.3	268.2	260.8	7.42	36.133	
1,900.0	1,900.0	1,893.3	1,893.3	3.9	3.8	20.58	251.1	94.3	268.2	260.7	7.57	35.449	
1,995.0	1,995.0	1,988.3	1,988.3	3.9	3.9	20.58	251.1	94.3	268.2	260.5	7.71	34.769	
2,000.0	2,000.0	1,993.3	1,993.3	3.9	3.9	20.58	251.1	94.3	268.2	260.5	7.72	34.733	
2,090.0	2,090.0	2,087.1	2,087.0	4.0	4.1	-76.16	250.1	95.2	267.3	259.4	7.89	33.895	
2,100.0	2,100.0	2,097.5	2,097.5	4.0	4.1	-76.17	249.9	95.4	267.1	259.2	7.90	33.821	
2,185.0	2,184.9	2,186.3	2,186.1	4.3	4.7	-76.31	246.6	98.3	264.1	255.9	8.23	32.081	
2,200.0	2,199.8	2,201.9	2,201.8	4.4	4.8	-76.34	245.8	99.0	263.4	255.1	8.28	31.797	
2,280.0	2,279.6	2,285.3	2,284.9	4.9	5.3	-76.55	240.5	103.8	258.6	250.0	8.63	29.971	
2,300.0	2,299.5	2,305.9	2,305.3	5.1	5.4	-76.61	239.0	105.2	257.2	248.5	8.71	29.536	
2,375.0	2,373.9	2,380.7	2,379.7	5.5	5.6	-77.10	233.1	110.4	251.5	242.5	8.98	28.020	
2,400.0	2,398.7	2,405.6	2,404.4	5.7	5.7	-77.37	231.2	112.1	249.5	240.4	9.07	27.521	
2,450.2	2,448.3	2,455.5	2,454.1	5.8	5.8	-78.07	227.3	115.6	245.3	236.1	9.24	26.558	
2,470.0	2,467.9	2,475.2	2,473.7	5.8	5.8	-78.36	225.8	117.0	243.7	234.4	9.31	26.171	
2,500.0	2,497.5	2,505.0	2,503.4	5.8	5.8	-78.80	223.5	119.1	241.2	231.8	9.42	25.594	
2,565.0	2,561.7	2,569.7	2,567.7	5.9	5.9	-79.80	218.4	123.6	235.8	226.1	9.70	24.313	
2,600.0	2,596.3	2,604.5	2,602.3	6.0	6.0	-80.36	215.7	126.0	232.9	223.1	9.85	23.650	
2,660.0	2,655.6	2,664.2	2,661.6	6.1	6.1	-81.34	211.1	130.2	228.1	217.9	10.14	22.497	
2,700.0	2,695.1	2,703.9	2,701.2	6.2	6.2	-82.02	208.0	133.0	224.9	214.5	10.33	21.762	
2,755.0	2,749.4	2,758.6	2,755.6	6.3	6.3	-82.99	203.7	136.8	220.5	209.9	10.62	20.764	
2,800.0	2,793.8	2,803.4	2,800.1	6.4	6.4	-83.81	200.2	139.9	217.0	206.2	10.86	19.986	
2,850.0	2,843.2	2,853.1	2,849.5	6.5	6.5	-84.76	196.4	143.4	213.2	202.0	11.14	19.140	
2,900.0	2,892.6	2,902.8	2,899.0	6.6	6.6	-85.73	192.5	146.8	209.4	198.0	11.42	18.336	
2,945.0	2,937.1	2,947.6	2,943.5	6.7	6.7	-86.64	189.0	150.0	206.0	194.4	11.69	17.633	
3,000.0	2,991.4	3,002.3	2,997.9	6.8	6.8	-87.79	184.7	153.8	202.0	190.0	12.01	16.818	
3,040.0	3,030.9	3,042.1	3,037.5	6.9	6.9	-88.66	181.6	156.5	199.1	186.9	12.26	16.245	
3,100.0	3,090.1	3,101.8	3,096.8	7.0	7.0	-90.01	177.0	160.7	194.9	182.3	12.63	15.431	
3,135.0	3,124.7	3,136.6	3,131.4	7.1	7.1	-90.82	174.3	163.1	192.5	179.7	12.86	14.975	
3,200.0	3,188.9	3,201.2	3,195.7	7.3	7.3	-92.39	169.3	167.6	188.1	174.9	13.27	14.174	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)				
3,230.0	3,218.5	3,231.0	3,225.4	7.4	7.4	-93.13	166.9	169.7	186.2	172.7	13.47	13.820		
3,300.0	3,287.7	3,300.7	3,294.6	7.6	7.5	-94.93	161.5	174.6	181.7	167.8	13.94	13.040		
3,325.0	3,312.4	3,325.5	3,319.4	7.6	7.6	-95.60	159.6	176.3	180.2	166.1	14.10	12.774		
3,400.0	3,386.4	3,400.1	3,393.5	7.8	7.8	-97.66	153.8	181.5	175.7	161.1	14.61	12.022		
3,420.0	3,406.2	3,420.0	3,413.3	7.9	7.9	-98.23	152.2	182.9	174.5	159.8	14.75	11.832		
3,500.0	3,485.2	3,499.6	3,492.4	8.1	8.1	-100.58	146.0	188.5	170.1	154.8	15.30	11.114		
3,515.0	3,500.0	3,514.5	3,507.3	8.2	8.1	-101.03	144.9	189.5	169.3	153.8	15.40	10.987		
3,600.0	3,584.0	3,599.0	3,591.4	8.4	8.4	-103.68	138.3	195.4	164.9	148.9	16.00	10.309		
3,610.0	3,593.9	3,609.0	3,601.2	8.4	8.4	-104.00	137.5	196.1	164.4	148.4	16.07	10.234		
3,700.0	3,682.8	3,698.5	3,690.3	8.7	8.6	-106.97	130.6	202.3	160.3	143.6	16.69	9.601		
3,705.0	3,687.7	3,703.4	3,695.2	8.7	8.7	-107.14	130.2	202.7	160.1	143.3	16.73	9.568		
3,800.0	3,781.5	3,797.9	3,789.2	9.0	8.9	-110.44	122.8	209.3	156.2	138.8	17.39	8.982		
3,895.0	3,875.3	3,892.4	3,883.1	9.3	9.2	-113.90	115.5	215.9	152.9	134.9	18.05	8.472		
3,900.0	3,880.3	3,897.4	3,888.1	9.3	9.2	-114.08	115.1	216.2	152.8	134.7	18.08	8.447		
3,990.0	3,969.2	3,986.9	3,977.1	9.6	9.5	-117.49	108.1	222.5	150.2	131.5	18.70	8.032		
4,000.0	3,979.1	3,996.8	3,987.0	9.6	9.5	-117.88	107.3	223.1	149.9	131.2	18.77	7.990		
4,085.0	4,063.0	4,081.4	4,071.1	9.9	9.8	-121.20	100.7	229.0	148.1	128.8	19.34	7.659		
4,100.0	4,077.8	4,096.3	4,085.9	9.9	9.8	-121.80	99.6	230.1	147.8	128.4	19.44	7.606		
4,180.0	4,156.8	4,175.8	4,165.0	10.2	10.1	-125.00	93.4	235.6	146.6	126.7	19.96	7.346		
4,200.0	4,176.6	4,195.7	4,184.8	10.2	10.2	-125.81	91.8	237.0	146.4	126.3	20.09	7.288		
4,275.0	4,250.7	4,270.3	4,259.0	10.5	10.4	-128.86	86.0	242.2	145.8	125.3	20.57	7.090		
4,300.0	4,275.4	4,295.2	4,283.7	10.5	10.5	-129.88	84.1	244.0	145.7	125.0	20.73	7.032		
4,339.5	4,314.3	4,334.4	4,322.7	10.7	10.6	-131.49	81.0	246.7	145.7	124.7	20.97	6.946 CC		
4,370.0	4,344.5	4,364.8	4,352.9	10.8	10.7	-132.74	78.7	248.8	145.7	124.6	21.16	6.886		
4,400.0	4,374.1	4,394.6	4,382.6	10.9	10.8	-133.96	76.4	250.9	145.8	124.5	21.35	6.831 ES		
4,465.0	4,438.3	4,459.3	4,446.9	11.1	11.0	-136.61	71.3	255.4	146.3	124.5	21.74	6.728		
4,500.0	4,472.9	4,494.1	4,481.5	11.2	11.1	-138.02	68.6	257.8	146.6	124.7	21.95	6.681		
4,560.0	4,532.2	4,553.8	4,540.9	11.4	11.3	-140.43	64.0	262.0	147.5	125.2	22.31	6.612		
4,600.0	4,571.7	4,593.5	4,580.4	11.5	11.4	-142.02	60.9	264.8	148.2	125.7	22.54	6.574		
4,655.0	4,626.0	4,648.2	4,634.8	11.7	11.6	-144.17	56.6	268.6	149.4	126.5	22.86	6.533		
4,700.0	4,670.4	4,693.0	4,679.3	11.9	11.7	-145.91	53.1	271.7	150.5	127.4	23.13	6.507		
4,750.0	4,719.8	4,742.7	4,728.8	12.0	11.9	-147.81	49.3	275.2	151.9	128.5	23.41	6.486		
4,800.0	4,769.2	4,792.4	4,778.2	12.2	12.1	-149.67	45.4	278.6	153.4	129.7	23.70	6.473		
4,845.0	4,813.6	4,837.2	4,822.8	12.3	12.2	-151.32	41.9	281.8	155.0	131.0	23.96	6.468 SF		
4,900.0	4,868.0	4,891.9	4,877.2	12.5	12.4	-153.28	37.6	285.6	157.0	132.7	24.28	6.468		
4,940.0	4,907.5	4,931.7	4,916.7	12.7	12.5	-154.68	34.6	288.4	158.6	134.1	24.51	6.473		
5,000.0	4,966.7	4,991.4	4,976.1	12.9	12.7	-156.72	29.9	292.5	161.2	136.4	24.85	6.487		
5,035.0	5,001.3	5,026.2	5,010.7	13.0	12.9	-157.88	27.2	295.0	162.8	137.8	25.06	6.498		
5,100.0	5,065.5	5,090.8	5,075.0	13.2	13.1	-159.97	22.2	299.5	166.0	140.5	25.43	6.525		
5,130.0	5,095.1	5,120.6	5,104.6	13.3	13.2	-160.91	19.8	301.5	167.5	141.9	25.61	6.540		
5,200.0	5,164.3	5,190.3	5,173.9	13.5	13.4	-163.03	14.4	306.4	171.2	145.2	26.02	6.579		
5,225.0	5,189.0	5,215.1	5,198.6	13.6	13.5	-163.77	12.5	308.1	172.6	146.4	26.17	6.595		
5,300.0	5,263.0	5,289.7	5,272.8	13.9	13.7	-165.91	6.7	313.3	176.9	150.3	26.62	6.647		
5,320.0	5,282.8	5,309.6	5,292.6	14.0	13.8	-166.46	5.1	314.7	178.1	151.4	26.74	6.662		
5,400.0	5,361.8	5,389.2	5,371.7	14.2	14.1	-168.60	-1.1	320.3	183.0	155.8	27.22	6.724		
5,415.0	5,376.6	5,404.1	5,386.5	14.3	14.1	-168.98	-2.2	321.3	184.0	156.7	27.31	6.737		
5,500.0	5,460.6	5,488.6	5,470.6	14.6	14.4	-171.11	-8.8	327.2	189.6	161.7	27.84	6.810		
5,510.0	5,470.5	5,498.6	5,480.5	14.6	14.4	-171.35	-9.6	327.9	190.2	162.3	27.90	6.819		
5,600.0	5,559.3	5,588.1	5,569.5	14.9	14.8	-173.45	-16.5	334.2	196.4	167.9	28.46	6.901		
5,605.0	5,564.3	5,593.0	5,574.5	14.9	14.8	-173.56	-16.9	334.5	196.7	168.3	28.49	6.906		

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)			
5,700.0	5,658.1	5,687.5	5,668.4	15.3	15.1	-175.63	-24.3	341.1	203.6	174.5	29.09	6.996	
5,795.0	5,751.9	5,782.0	5,762.4	15.6	15.4	-177.56	-31.6	347.7	210.6	180.9	29.70	7.090	
5,800.0	5,756.9	5,787.0	5,767.3	15.6	15.4	-177.66	-32.0	348.0	211.0	181.2	29.74	7.095	
5,890.0	5,845.8	5,876.5	5,856.3	15.9	15.7	-179.37	-39.0	354.3	217.9	187.6	30.32	7.186	
5,900.0	5,855.6	5,886.4	5,866.2	16.0	15.8	-179.55	-39.8	355.0	218.7	188.3	30.39	7.196	
5,985.0	5,939.6	5,971.0	5,950.3	16.3	16.1	178.94	-46.3	360.9	225.4	194.4	30.95	7.282	
6,000.0	5,954.4	5,985.9	5,965.1	16.3	16.1	178.69	-47.5	361.9	226.6	195.5	31.05	7.297	
6,080.0	6,033.4	6,065.4	6,044.3	16.6	16.4	177.36	-53.7	367.5	233.0	201.4	31.58	7.379	
6,100.0	6,053.2	6,085.3	6,064.0	16.7	16.5	177.04	-55.3	368.8	234.7	202.9	31.71	7.400	
6,175.0	6,127.3	6,159.9	6,138.2	16.9	16.7	175.88	-61.1	374.0	240.9	208.6	32.22	7.476	
6,200.0	6,152.0	6,184.8	6,163.0	17.0	16.8	175.51	-63.0	375.8	242.9	210.6	32.38	7.502	
6,270.0	6,221.1	6,254.4	6,232.2	17.3	17.1	174.50	-68.4	380.6	248.8	216.0	32.86	7.573	
6,300.0	6,250.7	6,284.2	6,261.9	17.4	17.2	174.08	-70.7	382.7	251.4	218.3	33.06	7.603	
6,365.0	6,314.9	6,348.9	6,326.2	17.6	17.4	173.20	-75.8	387.2	256.9	223.4	33.51	7.668	
6,400.0	6,349.5	6,383.7	6,360.8	17.7	17.5	172.74	-78.5	389.7	260.0	226.2	33.75	7.703	
6,460.0	6,408.7	6,443.4	6,420.1	18.0	17.7	171.98	-83.1	393.8	265.2	231.0	34.16	7.763	
6,500.0	6,448.3	6,483.1	6,459.7	18.1	17.8	171.49	-86.2	396.6	268.7	234.2	34.44	7.802	
6,555.0	6,502.6	6,537.8	6,514.1	18.3	18.0	170.84	-90.5	400.4	273.5	238.7	34.82	7.856	
6,600.0	6,547.0	6,582.6	6,558.6	18.4	18.2	170.32	-94.0	403.5	277.5	242.4	35.13	7.900	
6,650.0	6,596.4	6,632.3	6,608.0	18.6	18.4	169.76	-97.8	407.0	282.0	246.5	35.48	7.948	
6,700.0	6,645.8	6,682.0	6,657.5	18.8	18.5	169.22	-101.7	410.5	286.5	250.6	35.83	7.996	
6,745.0	6,690.2	6,726.8	6,702.0	19.0	18.7	168.75	-105.2	413.6	290.5	254.4	36.14	8.039	
6,800.0	6,744.6	6,781.5	6,756.4	19.2	18.9	168.18	-109.4	417.4	295.5	259.0	36.53	8.090	
6,840.0	6,784.1	6,820.9	6,795.6	19.3	19.0	167.79	-112.5	420.1	299.2	262.4	36.80	8.128	
6,900.0	6,843.3	6,878.8	6,853.2	19.5	19.2	167.30	-116.7	423.9	304.9	267.7	37.21	8.193	
6,935.0	6,877.9	6,912.5	6,886.8	19.6	19.4	167.06	-119.0	425.9	308.4	271.0	37.45	8.235	
7,000.0	6,942.1	6,975.2	6,949.2	19.9	19.6	166.70	-122.7	429.3	315.3	277.4	37.90	8.320	
7,030.0	6,971.7	7,004.0	6,978.0	20.0	19.7	166.58	-124.3	430.7	318.6	280.5	38.10	8.362	
7,100.0	7,040.9	7,071.4	7,045.2	20.2	19.9	166.38	-127.6	433.7	326.7	288.1	38.58	8.467	
7,125.0	7,065.6	7,095.4	7,069.2	20.3	20.0	166.34	-128.6	434.6	329.7	290.9	38.75	8.507	
7,200.0	7,139.6	7,167.4	7,141.1	20.6	20.2	166.31	-131.2	436.9	339.0	299.7	39.26	8.635	
7,220.0	7,159.4	7,186.6	7,160.3	20.7	20.3	166.32	-131.8	437.4	341.6	302.2	39.40	8.670	
7,300.0	7,238.4	7,263.2	7,236.9	21.0	20.6	166.45	-133.6	439.1	352.3	312.3	39.94	8.821	
7,315.0	7,253.2	7,277.6	7,251.2	21.0	20.6	166.49	-133.9	439.3	354.4	314.3	40.04	8.850	
7,400.0	7,337.2	7,358.7	7,332.4	21.3	20.9	166.79	-134.8	440.2	366.5	325.9	40.60	9.027	
7,410.0	7,347.0	7,368.2	7,341.9	21.3	20.9	166.84	-134.9	440.2	368.0	327.3	40.67	9.049	
7,500.0	7,435.9	7,455.6	7,429.2	21.7	21.2	167.29	-135.0	440.3	381.7	340.4	41.27	9.247	
7,505.0	7,440.9	7,460.5	7,434.2	21.7	21.2	167.32	-135.0	440.3	382.4	341.1	41.31	9.258	
7,600.0	7,534.7	7,554.4	7,528.0	22.0	21.5	167.79	-135.0	440.3	396.9	355.0	41.96	9.460	
7,695.0	7,628.5	7,648.2	7,621.8	22.4	21.8	168.23	-135.0	440.3	411.5	368.9	42.61	9.657	
7,700.0	7,633.5	7,653.1	7,626.8	22.4	21.8	168.25	-135.0	440.3	412.3	369.6	42.65	9.667	
7,790.0	7,722.4	7,742.0	7,715.7	22.7	22.1	168.63	-135.0	440.3	426.1	382.8	43.27	9.847	
7,791.0	7,723.4	7,743.0	7,716.7	22.7	22.1	168.64	-135.0	440.3	426.2	383.0	43.27	9.849	
7,800.0	7,732.2	7,751.9	7,725.5	22.8	22.1	168.68	-135.0	440.3	427.6	384.3	43.34	9.867	
7,885.0	7,816.3	7,836.0	7,809.6	23.0	22.4	169.02	-135.0	440.3	439.9	396.0	43.92	10.017	
7,900.0	7,831.2	7,850.8	7,824.5	23.1	22.4	169.08	-135.0	440.3	442.0	397.9	44.02	10.040	
7,980.0	7,910.5	7,930.1	7,903.8	23.4	22.6	169.35	-135.0	440.3	452.2	407.7	44.57	10.147	
8,000.0	7,930.3	7,950.0	7,923.6	23.5	22.7	169.41	-135.0	440.3	454.6	409.9	44.71	10.169	
8,075.0	8,004.8	8,024.5	7,998.1	23.7	22.9	169.62	-135.0	440.3	463.0	417.8	45.22	10.240	
8,100.0	8,029.7	8,049.3	8,023.0	23.8	23.0	169.68	-135.0	440.3	465.6	420.2	45.39	10.258	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,170.0	8,099.4	8,119.0	8,092.7	24.1	23.2	169.84	-135.0	440.3	472.3	426.4	45.87	10.297	
8,200.0	8,129.3	8,148.9	8,122.6	24.2	23.3	169.90	-135.0	440.3	474.9	428.8	46.07	10.308	
8,265.0	8,194.0	8,213.7	8,187.3	24.4	23.5	170.02	-135.0	440.3	480.0	433.5	46.51	10.320	
8,300.0	8,229.0	8,248.6	8,222.3	24.5	23.7	170.07	-135.0	440.3	482.5	435.7	46.75	10.320	
8,360.0	8,288.8	8,308.5	8,282.1	24.7	23.8	170.16	-135.0	440.3	486.2	439.1	47.16	10.310	
8,400.0	8,328.8	8,348.4	8,322.1	24.9	24.0	170.20	-135.0	440.3	488.4	440.9	47.43	10.296	
8,455.0	8,383.7	8,403.4	8,377.0	25.1	24.1	170.26	-135.0	440.3	490.9	443.1	47.80	10.269	
8,500.0	8,428.7	8,448.3	8,422.0	25.2	24.3	170.29	-135.0	440.3	492.5	444.4	48.10	10.238	
8,550.0	8,478.7	8,498.3	8,472.0	25.4	24.5	170.33	-135.0	440.3	493.9	445.5	48.44	10.197	
8,600.0	8,528.7	8,548.3	8,522.0	25.5	24.6	170.35	-135.0	440.3	494.9	446.2	48.78	10.147	
8,645.0	8,573.6	8,593.3	8,566.9	25.7	24.8	170.36	-135.0	440.3	495.5	446.4	49.07	10.097	
8,691.4	8,620.0	8,639.6	8,613.3	25.8	24.9	-92.97	-135.0	440.3	495.7	446.3	49.38	10.038	
8,700.0	8,628.6	8,648.3	8,621.9	25.9	24.9	-92.97	-135.0	440.3	495.7	446.2	49.43	10.027	
8,740.0	8,668.6	8,688.3	8,661.9	26.0	25.1	-92.97	-135.0	440.3	495.7	446.0	49.69	9.975	
8,800.0	8,728.6	8,751.0	8,724.5	26.2	25.1	-92.51	-131.0	440.3	495.5	445.6	49.92	9.926	
8,835.0	8,763.6	8,786.8	8,759.8	26.3	25.1	-91.82	-125.0	440.3	495.3	445.3	50.04	9.898	
8,888.7	8,817.4	8,839.5	8,810.7	26.4	25.2	-90.25	-111.4	440.2	495.1	444.9	50.20	9.862	
8,900.0	8,828.6	8,850.1	8,820.7	26.5	25.2	-89.85	-108.0	440.2	495.1	444.9	50.23	9.856	
8,930.0	8,858.6	8,877.6	8,846.4	26.6	25.2	-88.71	-98.2	440.1	495.3	445.0	50.31	9.846	
9,000.0	8,928.6	8,936.8	8,899.5	26.8	25.2	-85.70	-72.1	440.0	497.2	446.8	50.41	9.863	
9,025.0	8,953.6	8,956.1	8,916.1	26.9	25.3	-84.56	-62.1	440.0	498.5	448.1	50.41	9.888	
9,100.0	9,028.6	9,008.7	8,958.9	27.1	25.3	-81.12	-31.9	439.9	505.4	455.1	50.29	10.049	
9,120.0	9,048.6	9,021.3	8,968.8	27.2	25.3	-80.22	-23.9	439.8	508.1	457.9	50.22	10.118	
9,200.0	9,128.6	9,066.8	9,002.2	27.4	25.3	-76.81	6.9	439.7	522.9	473.2	49.73	10.516	
9,215.0	9,143.6	9,075.0	9,007.9	27.5	25.4	-76.16	12.8	439.7	526.5	476.9	49.61	10.612	
9,300.0	9,228.6	9,113.4	9,033.3	27.7	25.4	-73.07	41.6	439.5	551.5	502.8	48.70	11.323	
9,310.0	9,238.6	9,117.6	9,035.9	27.8	25.4	-72.73	44.8	439.5	555.0	506.4	48.58	11.424	
9,400.0	9,328.6	9,150.0	9,055.2	28.1	25.4	-70.03	70.9	439.4	591.2	543.9	47.33	12.491	
9,405.0	9,333.6	9,150.0	9,055.2	28.1	25.4	-70.03	70.9	439.4	593.5	546.2	47.23	12.566	
9,500.0	9,428.6	9,181.7	9,072.4	28.4	25.4	-67.37	97.5	439.3	641.1	595.2	45.87	13.975	
9,595.0	9,523.6	9,200.0	9,081.5	28.7	25.4	-65.82	113.4	439.2	696.7	652.2	44.41	15.687	
9,600.0	9,528.6	9,206.9	9,084.7	28.7	25.4	-65.24	119.5	439.2	699.7	655.3	44.45	15.743	
9,690.0	9,618.6	9,225.0	9,092.9	29.0	25.4	-63.72	135.7	439.1	758.7	715.4	43.28	17.530	
9,700.0	9,628.6	9,225.0	9,092.9	29.0	25.4	-63.72	135.7	439.1	765.6	722.4	43.13	17.751	
9,785.0	9,713.6	9,250.0	9,103.1	29.3	25.5	-61.65	158.5	439.0	826.2	783.8	42.37	19.498	
9,800.0	9,728.6	9,250.0	9,103.1	29.3	25.5	-61.65	158.5	439.0	837.2	795.0	42.19	19.845	
9,880.0	9,808.6	9,257.9	9,106.1	29.6	25.5	-61.00	165.8	439.0	897.9	856.4	41.42	21.676	
9,900.0	9,828.6	9,260.7	9,107.1	29.6	25.5	-60.77	168.4	439.0	913.4	872.2	41.27	22.134	
9,975.0	9,903.6	9,275.0	9,112.1	29.9	25.5	-59.61	181.8	438.9	973.1	932.3	40.82	23.841	
10,000.0	9,928.6	9,275.0	9,112.1	30.0	25.5	-59.61	181.8	438.9	993.4	952.8	40.63	24.451	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-MWD+IFR1+MS							Rule Assigned:						Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)				Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	14.38	250.8	64.3	259.0					
95.0	95.0	88.3	88.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.00	43.148		
100.0	100.0	93.3	93.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.00	43.147		
190.0	190.0	183.3	183.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.01	43.093		
200.0	200.0	193.3	193.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.01	43.083		
285.0	285.0	278.3	278.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.03	42.966		
300.0	300.0	293.3	293.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.03	42.940		
380.0	380.0	373.3	373.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.05	42.770		
400.0	400.0	393.3	393.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.06	42.720		
475.0	475.0	468.3	468.3	3.0	3.0	14.38	250.8	64.3	258.9	252.8	6.09	42.508		
500.0	500.0	493.3	493.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.10	42.429		
570.0	570.0	563.3	563.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.14	42.183		
600.0	600.0	593.3	593.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.15	42.069		
665.0	665.0	658.3	658.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.19	41.801		
700.0	700.0	693.3	693.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.22	41.646		
760.0	760.0	753.3	753.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.26	41.364		
800.0	800.0	793.3	793.3	3.2	3.1	14.38	250.8	64.3	258.9	252.6	6.29	41.166		
855.0	855.0	848.3	848.3	3.2	3.2	14.38	250.8	64.3	258.9	252.6	6.33	40.880		
900.0	900.0	893.3	893.3	3.2	3.2	14.38	250.8	64.3	258.9	252.5	6.37	40.636		
950.0	950.0	943.3	943.3	3.2	3.2	14.38	250.8	64.3	258.9	252.5	6.42	40.354		
1,000.0	1,000.0	993.3	993.3	3.2	3.2	14.38	250.8	64.3	258.9	252.4	6.46	40.062		
1,045.0	1,045.0	1,038.3	1,038.3	3.3	3.3	14.38	250.8	64.3	258.9	252.4	6.51	39.791		
1,100.0	1,100.0	1,093.3	1,093.3	3.3	3.3	14.38	250.8	64.3	258.9	252.3	6.56	39.451		
1,140.0	1,140.0	1,133.3	1,133.3	3.3	3.3	14.38	250.8	64.3	258.9	252.3	6.61	39.197		
1,200.0	1,200.0	1,193.3	1,193.3	3.4	3.3	14.38	250.8	64.3	258.9	252.2	6.67	38.809		
1,235.0	1,235.0	1,228.3	1,228.3	3.4	3.4	14.38	250.8	64.3	258.9	252.2	6.71	38.578		
1,300.0	1,300.0	1,293.3	1,293.3	3.4	3.4	14.38	250.8	64.3	258.9	252.1	6.79	38.142		
1,330.0	1,330.0	1,323.3	1,323.3	3.4	3.4	14.38	250.8	64.3	258.9	252.1	6.82	37.938		
1,400.0	1,400.0	1,393.3	1,393.3	3.5	3.5	14.38	250.8	64.3	258.9	252.0	6.91	37.456		
1,425.0	1,425.0	1,418.3	1,418.3	3.5	3.5	14.38	250.8	64.3	258.9	252.0	6.94	37.282		
1,500.0	1,500.0	1,493.3	1,493.3	3.5	3.5	14.38	250.8	64.3	258.9	251.9	7.04	36.756		
1,520.0	1,520.0	1,513.3	1,513.3	3.6	3.6	14.38	250.8	64.3	258.9	251.8	7.07	36.615		
1,600.0	1,600.0	1,593.3	1,593.3	3.6	3.6	14.38	250.8	64.3	258.9	251.7	7.18	36.048		
1,615.0	1,615.0	1,608.3	1,608.3	3.6	3.6	14.38	250.8	64.3	258.9	251.7	7.20	35.941		
1,700.0	1,700.0	1,693.3	1,693.3	3.7	3.7	14.38	250.8	64.3	258.9	251.6	7.33	35.335		
1,710.0	1,710.0	1,703.3	1,703.3	3.7	3.7	14.38	250.8	64.3	258.9	251.6	7.34	35.264		
1,800.0	1,800.0	1,793.3	1,793.3	3.8	3.8	14.38	250.8	64.3	258.9	251.4	7.48	34.622		
1,805.0	1,805.0	1,798.3	1,798.3	3.8	3.8	14.38	250.8	64.3	258.9	251.4	7.49	34.587		
1,900.0	1,900.0	1,893.3	1,893.3	3.9	3.8	14.38	250.8	64.3	258.9	251.3	7.63	33.912		
1,995.0	1,995.0	1,988.3	1,988.3	3.9	3.9	14.38	250.8	64.3	258.9	251.1	7.79	33.242		
2,000.0	2,000.0	1,993.3	1,993.3	3.9	3.9	14.38	250.8	64.3	258.9	251.1	7.80	33.207		
2,090.0	2,090.0	2,091.5	2,091.5	4.0	4.1	-82.66	249.4	63.9	257.4	249.4	8.04	32.012		
2,100.0	2,100.0	2,102.5	2,102.5	4.0	4.1	-82.76	249.0	63.8	257.0	248.9	8.07	31.846		
2,185.0	2,184.9	2,195.5	2,195.3	4.3	4.7	-83.93	244.4	62.5	252.1	243.4	8.71	28.947		
2,200.0	2,199.8	2,211.8	2,211.7	4.4	4.8	-84.22	243.3	62.2	250.9	242.2	8.77	28.620		
2,280.0	2,279.6	2,294.5	2,294.0	4.9	4.9	-86.07	236.6	60.3	243.6	234.7	8.96	27.193		
2,300.0	2,299.5	2,314.3	2,313.7	5.1	4.9	-86.61	234.9	59.9	241.7	232.7	9.00	26.866		
2,375.0	2,373.9	2,388.4	2,387.5	5.5	5.0	-89.02	228.7	58.1	234.9	225.7	9.18	25.571		
2,400.0	2,398.7	2,413.0	2,412.1	5.7	5.0	-89.96	226.6	57.6	232.6	223.4	9.26	25.135		
2,450.2	2,448.3	2,462.3	2,461.2	5.8	5.1	-92.04	222.5	56.4	228.4	219.0	9.41	24.280		

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-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)			
2,470.0	2,467.9	2,481.8	2,480.6	5.8	5.1	-92.89	220.8	56.0	226.8	217.4	9.47	23.954	
2,500.0	2,497.5	2,511.3	2,510.0	5.8	5.2	-94.19	218.4	55.3	224.5	215.0	9.56	23.474	
2,565.0	2,561.7	2,575.1	2,573.5	5.9	5.3	-97.11	213.0	53.8	220.0	210.2	9.80	22.438	
2,600.0	2,596.3	2,609.4	2,607.8	6.0	5.3	-98.73	210.1	53.0	217.8	207.8	9.93	21.922	
2,660.0	2,655.6	2,668.4	2,666.4	6.1	5.5	-101.57	205.2	51.6	214.4	204.2	10.19	21.046	
2,700.0	2,695.1	2,707.6	2,705.6	6.2	5.5	-103.51	201.9	50.7	212.5	202.1	10.36	20.510	
2,755.0	2,749.4	2,761.6	2,759.4	6.3	5.6	-106.23	197.3	49.4	210.3	199.6	10.61	19.816	
2,800.0	2,793.8	2,805.8	2,803.4	6.4	5.7	-108.49	193.6	48.4	208.8	198.0	10.82	19.304	
2,850.0	2,843.2	2,854.9	2,852.3	6.5	5.8	-111.04	189.5	47.2	207.6	196.5	11.06	18.775	
2,900.0	2,892.6	2,904.0	2,901.2	6.6	6.0	-113.61	185.4	46.1	206.8	195.5	11.30	18.305	
2,945.0	2,937.1	2,948.2	2,945.2	6.7	6.1	-115.93	181.7	45.1	206.5	194.9	11.52	17.917	
2,965.1	2,956.9	2,967.9	2,964.8	6.7	6.1	-116.97	180.0	44.6	206.4	194.8	11.62	17.759 CC	
3,000.0	2,991.4	3,002.2	2,999.0	6.8	6.2	-118.78	177.1	43.8	206.5	194.7	11.80	17.503 ES	
3,040.0	3,030.9	3,041.4	3,038.1	6.9	6.3	-120.84	173.8	42.9	206.9	194.9	12.01	17.232	
3,100.0	3,090.1	3,100.4	3,096.8	7.0	6.4	-123.92	168.9	41.5	208.0	195.7	12.32	16.883	
3,135.0	3,124.7	3,134.7	3,131.0	7.1	6.5	-125.69	166.0	40.7	208.9	196.4	12.51	16.703	
3,200.0	3,188.9	3,198.5	3,194.6	7.3	6.7	-128.95	160.7	39.2	211.2	198.3	12.86	16.423	
3,230.0	3,218.5	3,228.0	3,224.0	7.4	6.8	-130.42	158.2	38.5	212.5	199.4	13.03	16.312	
3,300.0	3,287.7	3,296.7	3,292.4	7.6	7.0	-133.80	152.4	36.9	216.0	202.6	13.42	16.101	
3,325.0	3,312.4	3,321.3	3,316.9	7.6	7.0	-134.98	150.4	36.3	217.5	203.9	13.56	16.039	
3,400.0	3,386.4	3,394.9	3,390.2	7.8	7.2	-138.41	144.2	34.6	222.3	208.4	13.99	15.896	
3,420.0	3,406.2	3,414.5	3,409.8	7.9	7.3	-139.30	142.5	34.2	223.8	209.7	14.10	15.866	
3,500.0	3,485.2	3,493.1	3,488.0	8.1	7.5	-142.75	135.9	32.3	230.1	215.5	14.57	15.786	
3,515.0	3,500.0	3,507.8	3,502.7	8.2	7.6	-143.38	134.7	32.0	231.3	216.7	14.66	15.777	
3,600.0	3,584.0	3,591.3	3,585.8	8.4	7.8	-146.80	127.7	30.0	239.1	223.9	15.17	15.755 SF	
3,610.0	3,593.9	3,601.1	3,595.6	8.4	7.8	-147.19	126.9	29.8	240.0	224.8	15.23	15.755	
3,700.0	3,682.8	3,689.4	3,683.6	8.7	8.1	-150.54	119.4	27.7	249.2	233.4	15.78	15.786	
3,705.0	3,687.7	3,694.3	3,688.5	8.7	8.1	-150.72	119.0	27.6	249.7	233.9	15.82	15.789	
3,800.0	3,781.5	3,787.6	3,781.5	9.0	8.4	-153.98	111.2	25.4	260.3	243.9	16.40	15.866	
3,895.0	3,875.3	3,880.9	3,874.4	9.3	8.7	-156.99	103.4	23.2	271.6	254.6	17.00	15.977	
3,900.0	3,880.3	3,885.8	3,879.3	9.3	8.7	-157.14	103.0	23.1	272.3	255.2	17.03	15.984	
3,990.0	3,969.2	3,974.2	3,967.3	9.6	9.0	-159.75	95.5	21.1	283.7	266.1	17.61	16.114	
4,000.0	3,979.1	3,984.0	3,977.1	9.6	9.0	-160.03	94.7	20.8	285.0	267.3	17.67	16.130	
4,085.0	4,063.0	4,067.4	4,060.2	9.9	9.3	-162.29	87.7	18.9	296.3	278.1	18.21	16.270	
4,100.0	4,077.8	4,082.2	4,074.9	9.9	9.3	-162.67	86.5	18.5	298.4	280.1	18.31	16.297	
4,180.0	4,156.8	4,160.7	4,153.1	10.2	9.6	-164.62	79.9	16.7	309.5	290.7	18.83	16.440	
4,200.0	4,176.6	4,180.3	4,172.7	10.2	9.7	-165.09	78.2	16.2	312.4	293.4	18.96	16.478	
4,275.0	4,250.7	4,254.0	4,246.0	10.5	9.9	-166.76	72.0	14.5	323.2	303.8	19.45	16.620	
4,300.0	4,275.4	4,278.5	4,270.5	10.5	10.0	-167.29	70.0	14.0	326.9	307.3	19.61	16.669	
4,370.0	4,344.5	4,347.3	4,339.0	10.8	10.2	-168.72	64.2	12.3	337.3	317.2	20.07	16.806	
4,400.0	4,374.1	4,376.7	4,368.3	10.9	10.3	-169.31	61.7	11.7	341.8	321.5	20.27	16.865	
4,465.0	4,438.3	4,440.5	4,431.9	11.1	10.5	-170.53	56.4	10.2	351.7	331.0	20.70	16.994	
4,500.0	4,472.9	4,474.9	4,466.1	11.2	10.6	-171.16	53.5	9.4	357.1	336.2	20.93	17.064	
4,560.0	4,532.2	4,533.8	4,524.8	11.4	10.8	-172.20	48.5	8.0	366.5	345.1	21.33	17.184	
4,600.0	4,571.7	4,573.1	4,563.9	11.5	11.0	-172.86	45.2	7.1	372.8	351.2	21.59	17.264	
4,655.0	4,626.0	4,627.1	4,617.7	11.7	11.1	-173.73	40.7	5.8	381.5	359.5	21.96	17.373	
4,700.0	4,670.4	4,671.3	4,661.7	11.9	11.3	-174.42	37.0	4.8	388.7	366.5	22.26	17.462	
4,750.0	4,719.8	4,720.3	4,710.6	12.0	11.5	-175.15	32.9	3.6	396.8	374.2	22.60	17.560	
4,800.0	4,769.2	4,769.4	4,759.5	12.2	11.6	-175.86	28.8	2.5	404.9	382.0	22.93	17.657	
4,845.0	4,813.6	4,813.6	4,803.5	12.3	11.8	-176.47	25.1	1.4	412.3	389.1	23.24	17.744	

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

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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0												Offset Site Error:	3.0 usft
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4,900.0	4,868.0	4,867.6	4,857.3	12.5	12.0	-177.19	20.5	0.2	421.4	397.8	23.61	17.849	
4,940.0	4,907.5	4,906.9	4,896.5	12.7	12.1	-177.69	17.2	-0.7	428.0	404.1	23.88	17.924	
5,000.0	4,966.7	4,965.8	4,955.1	12.9	12.3	-178.41	12.3	-2.1	438.0	413.7	24.29	18.036	
5,035.0	5,001.3	5,000.2	4,989.4	13.0	12.4	-178.82	9.4	-2.9	443.9	419.4	24.52	18.101	
5,100.0	5,065.5	5,064.0	5,053.0	13.2	12.6	-179.55	4.0	-4.4	454.9	429.9	24.97	18.219	
5,130.0	5,095.1	5,093.4	5,082.3	13.3	12.7	-179.88	1.6	-5.1	459.9	434.8	25.17	18.272	
5,200.0	5,164.3	5,162.2	5,150.8	13.5	13.0	179.39	-4.2	-6.7	471.9	446.2	25.65	18.396	
5,225.0	5,189.0	5,186.7	5,175.2	13.6	13.0	179.14	-6.3	-7.3	476.1	450.3	25.82	18.439	
5,300.0	5,263.0	5,260.3	5,248.6	13.9	13.3	178.40	-12.5	-9.0	489.0	462.7	26.34	18.568	
5,320.0	5,282.8	5,280.0	5,268.1	14.0	13.4	178.22	-14.1	-9.5	492.4	466.0	26.47	18.601	
5,400.0	5,361.8	5,358.5	5,346.4	14.2	13.6	177.49	-20.7	-11.3	506.3	479.2	27.02	18.734	
5,415.0	5,376.6	5,373.3	5,361.0	14.3	13.7	177.35	-21.9	-11.6	508.9	481.7	27.13	18.759	
5,500.0	5,460.6	5,456.7	5,444.2	14.6	14.0	176.63	-28.9	-13.6	523.7	495.9	27.71	18.895	
5,510.0	5,470.5	5,466.5	5,454.0	14.6	14.0	176.55	-29.8	-13.8	525.4	497.6	27.78	18.911	
5,600.0	5,559.3	5,554.9	5,542.0	14.9	14.3	175.83	-37.2	-15.9	541.2	512.8	28.41	19.051	
5,605.0	5,564.3	5,559.8	5,546.9	14.9	14.3	175.79	-37.6	-16.0	542.0	513.6	28.44	19.058	
5,700.0	5,658.1	5,653.1	5,639.8	15.3	14.7	175.07	-45.4	-18.2	558.8	529.7	29.10	19.201	
5,795.0	5,751.9	5,746.3	5,732.7	15.6	15.0	174.40	-53.3	-20.4	575.6	545.8	29.76	19.339	
5,800.0	5,756.9	5,751.2	5,737.6	15.6	15.0	174.37	-53.7	-20.5	576.4	546.6	29.80	19.346	
5,890.0	5,845.8	5,839.6	5,825.6	15.9	15.3	173.77	-61.1	-22.5	592.4	562.0	30.42	19.472	
5,900.0	5,855.6	5,849.4	5,835.4	16.0	15.4	173.70	-61.9	-22.8	594.2	563.7	30.49	19.486	
5,985.0	5,939.6	5,932.9	5,918.6	16.3	15.6	173.17	-68.9	-24.7	609.4	578.3	31.09	19.601	
6,000.0	5,954.4	5,947.6	5,933.2	16.3	15.7	173.08	-70.2	-25.1	612.0	580.9	31.19	19.621	
6,080.0	6,033.4	6,026.2	6,011.5	16.6	16.0	172.60	-76.8	-26.9	626.4	594.6	31.75	19.726	
6,100.0	6,053.2	6,045.8	6,031.0	16.7	16.0	172.49	-78.4	-27.4	630.0	598.1	31.89	19.752	
6,175.0	6,127.3	6,119.4	6,104.4	16.9	16.3	172.06	-84.6	-29.1	643.4	611.0	32.42	19.846	
6,200.0	6,152.0	6,144.0	6,128.8	17.0	16.4	171.93	-86.6	-29.7	647.9	615.3	32.60	19.877	
6,270.0	6,221.1	6,212.7	6,197.3	17.3	16.6	171.55	-92.4	-31.3	660.5	627.4	33.09	19.963	
6,300.0	6,250.7	6,242.2	6,226.6	17.4	16.7	171.40	-94.9	-32.0	665.9	632.6	33.30	19.999	
6,365.0	6,314.9	6,306.0	6,290.2	17.6	17.0	171.07	-100.2	-33.4	677.7	643.9	33.76	20.076	
6,400.0	6,349.5	6,340.3	6,324.5	17.7	17.1	170.90	-103.1	-34.2	684.0	650.0	34.00	20.116	
6,460.0	6,408.7	6,399.2	6,383.1	18.0	17.3	170.61	-108.1	-35.6	694.9	660.5	34.43	20.184	
6,500.0	6,448.3	6,438.5	6,422.3	18.1	17.4	170.42	-111.4	-36.5	702.1	667.4	34.71	20.229	
6,555.0	6,502.6	6,492.5	6,476.1	18.3	17.6	170.17	-115.9	-37.8	712.1	677.0	35.10	20.290	
6,600.0	6,547.0	6,536.7	6,520.1	18.4	17.8	169.97	-119.6	-38.8	720.3	684.9	35.41	20.341	
6,650.0	6,596.4	6,587.9	6,571.1	18.6	17.9	169.76	-123.7	-40.0	729.3	693.6	35.77	20.389	
6,700.0	6,645.8	6,639.2	6,622.3	18.8	18.1	169.59	-127.3	-41.0	738.2	702.1	36.13	20.430	
6,745.0	6,690.2	6,685.5	6,668.4	19.0	18.3	169.47	-130.3	-41.8	746.1	709.6	36.46	20.462	
6,800.0	6,744.6	6,742.1	6,725.0	19.2	18.5	169.37	-133.3	-42.7	755.6	718.7	36.87	20.495	
6,840.0	6,784.1	6,783.3	6,766.2	19.3	18.6	169.32	-135.2	-43.2	762.4	725.2	37.16	20.515	
6,900.0	6,843.3	6,843.3	6,828.0	19.5	18.8	169.28	-137.5	-43.8	772.4	734.8	37.60	20.540	
6,935.0	6,877.9	6,881.4	6,864.2	19.6	19.0	169.28	-138.6	-44.1	778.1	740.2	37.86	20.552	
7,000.0	6,942.1	6,948.6	6,931.4	19.9	19.2	169.33	-140.0	-44.5	788.5	750.2	38.34	20.569	
7,030.0	6,971.7	6,979.7	6,962.4	20.0	19.3	169.37	-140.3	-44.6	793.3	754.7	38.56	20.575	
7,100.0	7,040.9	7,051.4	7,034.2	20.2	19.5	169.50	-140.6	-44.7	804.1	765.1	39.04	20.596	
7,125.0	7,065.6	7,076.1	7,058.9	20.3	19.6	169.55	-140.6	-44.7	808.0	768.8	39.21	20.608	
7,200.0	7,139.6	7,150.2	7,132.9	20.6	19.8	169.70	-140.6	-44.7	819.5	779.8	39.70	20.642	
7,220.0	7,159.4	7,169.9	7,152.7	20.7	19.9	169.74	-140.6	-44.7	822.6	782.8	39.84	20.650	
7,300.0	7,238.4	7,249.0	7,231.7	21.0	20.1	169.89	-140.6	-44.7	834.9	794.6	40.37	20.683	
7,315.0	7,253.2	7,263.8	7,246.5	21.0	20.2	169.92	-140.6	-44.7	837.3	796.8	40.47	20.689	

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7,400.0	7,337.2	7,347.7	7,330.5	21.3	20.5	170.07	-140.6	-44.7	850.4	809.3	41.04	20.722	
7,410.0	7,347.0	7,357.6	7,340.3	21.3	20.5	170.09	-140.6	-44.7	851.9	810.8	41.10	20.725	
7,500.0	7,435.9	7,446.5	7,429.2	21.7	20.8	170.25	-140.6	-44.7	865.8	824.1	41.71	20.758	
7,505.0	7,440.9	7,451.4	7,434.2	21.7	20.8	170.26	-140.6	-44.7	866.6	824.8	41.74	20.760	
7,600.0	7,534.7	7,545.3	7,528.0	22.0	21.1	170.42	-140.6	-44.7	881.2	838.8	42.38	20.793	
7,695.0	7,628.5	7,639.1	7,621.8	22.4	21.4	170.58	-140.6	-44.7	895.9	852.9	43.02	20.824	
7,700.0	7,633.5	7,644.0	7,626.8	22.4	21.4	170.59	-140.6	-44.7	896.7	853.6	43.05	20.826	
7,790.0	7,722.4	7,732.9	7,715.7	22.7	21.7	170.74	-140.6	-44.7	910.6	866.9	43.66	20.855	
7,791.0	7,723.4	7,734.0	7,716.7	22.7	21.7	170.74	-140.6	-44.7	910.7	867.1	43.67	20.855	
7,800.0	7,732.2	7,742.8	7,725.5	22.8	21.7	170.75	-140.6	-44.7	912.1	868.4	43.73	20.858	
7,885.0	7,816.3	7,826.9	7,809.6	23.0	22.0	170.90	-140.6	-44.7	924.5	880.2	44.30	20.869	
7,900.0	7,831.2	7,841.7	7,824.5	23.1	22.0	170.92	-140.6	-44.7	926.5	882.1	44.40	20.868	
7,980.0	7,910.5	7,921.0	7,903.8	23.4	22.3	171.04	-140.6	-44.7	936.9	891.9	44.94	20.847	
8,000.0	7,930.3	7,940.9	7,923.6	23.5	22.3	171.07	-140.6	-44.7	939.3	894.2	45.08	20.838	
8,075.0	8,004.8	8,015.4	7,998.1	23.7	22.6	171.16	-140.6	-44.7	947.7	902.2	45.58	20.792	
8,100.0	8,029.7	8,040.3	8,023.0	23.8	22.7	171.19	-140.6	-44.7	950.3	904.6	45.75	20.772	
8,170.0	8,099.4	8,109.9	8,092.7	24.1	22.9	171.26	-140.6	-44.7	957.0	910.8	46.22	20.706	
8,200.0	8,129.3	8,139.8	8,122.6	24.2	23.0	171.29	-140.6	-44.7	959.7	913.2	46.42	20.672	
8,265.0	8,194.0	8,204.6	8,187.3	24.4	23.2	171.34	-140.6	-44.7	964.8	917.9	46.86	20.589	
8,300.0	8,229.0	8,239.5	8,222.3	24.5	23.3	171.37	-140.6	-44.7	967.3	920.2	47.09	20.539	
8,360.0	8,288.8	8,299.4	8,282.1	24.7	23.5	171.41	-140.6	-44.7	971.0	923.5	47.50	20.444	
8,400.0	8,328.8	8,339.3	8,322.1	24.9	23.6	171.43	-140.6	-44.7	973.2	925.4	47.76	20.374	
8,455.0	8,383.7	8,394.3	8,377.0	25.1	23.8	171.46	-140.6	-44.7	975.7	927.5	48.13	20.271	
8,500.0	8,428.7	8,439.2	8,422.0	25.2	24.0	171.47	-140.6	-44.7	977.3	928.9	48.43	20.180	
8,550.0	8,478.7	8,489.2	8,472.0	25.4	24.1	171.49	-140.6	-44.7	978.8	930.0	48.76	20.072	
8,600.0	8,528.7	8,539.2	8,522.0	25.5	24.3	171.50	-140.6	-44.7	979.8	930.7	49.10	19.956	
8,645.0	8,573.6	8,584.2	8,566.9	25.7	24.4	171.50	-140.6	-44.7	980.3	930.9	49.39	19.848	
8,691.4	8,620.0	8,630.6	8,613.3	25.8	24.6	-91.83	-140.6	-44.7	980.5	930.8	49.69	19.731	
8,700.0	8,628.6	8,639.2	8,621.9	25.9	24.6	-91.83	-140.6	-44.7	980.5	930.7	49.75	19.709	
8,740.0	8,668.6	8,679.2	8,661.9	26.0	24.8	-91.83	-140.6	-44.7	980.5	930.5	50.00	19.608	
8,800.0	8,728.6	8,739.2	8,721.9	26.2	25.0	-91.83	-140.6	-44.7	980.5	930.1	50.39	19.459	
8,835.0	8,763.6	8,774.2	8,756.9	26.3	25.1	-91.83	-140.6	-44.7	980.5	929.9	50.61	19.372	
8,900.0	8,828.6	8,839.2	8,821.9	26.5	25.3	-91.83	-140.6	-44.7	980.5	929.4	51.03	19.212	
8,930.0	8,858.6	8,869.2	8,851.9	26.6	25.4	-91.83	-140.6	-44.7	980.5	929.2	51.23	19.139	
9,000.0	8,928.6	8,939.2	8,921.9	26.8	25.6	-91.83	-140.6	-44.7	980.5	928.8	51.68	18.972	
9,025.0	8,953.6	8,964.5	8,947.2	26.9	25.7	-91.83	-140.6	-44.7	980.5	928.6	51.84	18.915	
9,100.0	9,028.6	9,043.1	9,025.4	27.1	25.7	-91.41	-133.3	-44.7	980.3	928.2	52.10	18.817	
9,120.0	9,048.6	9,063.5	9,045.4	27.2	25.7	-91.17	-129.4	-44.7	980.2	928.1	52.16	18.793	
9,179.0	9,107.7	9,121.3	9,101.0	27.4	25.7	-90.25	-113.5	-44.8	980.1	927.8	52.34	18.727	
9,200.0	9,128.6	9,140.8	9,119.2	27.4	25.8	-89.85	-106.7	-44.8	980.1	927.7	52.39	18.707	
9,215.0	9,143.6	9,154.4	9,131.8	27.5	25.8	-89.54	-101.5	-44.8	980.2	927.8	52.43	18.694	
9,300.0	9,228.6	9,225.0	9,194.3	27.7	25.8	-87.64	-68.8	-45.0	981.5	928.9	52.63	18.649	
9,310.0	9,238.6	9,232.5	9,200.6	27.8	25.8	-87.40	-64.8	-45.0	981.8	929.2	52.65	18.648	
9,400.0	9,328.6	9,294.1	9,250.1	28.1	25.8	-85.28	-28.3	-45.2	986.4	933.7	52.77	18.693	
9,405.0	9,333.6	9,297.1	9,252.5	28.1	25.8	-85.16	-26.3	-45.2	986.8	934.0	52.77	18.699	
9,500.0	9,428.6	9,350.0	9,290.7	28.4	25.8	-83.05	10.2	-45.3	996.6	943.8	52.76	18.890	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-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)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.64	-3.3	-295.0	295.1				
95.0	95.0	87.0	87.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.168	
100.0	100.0	92.0	92.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.168	
190.0	190.0	182.0	182.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.150	
200.0	200.0	192.0	192.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.147	
285.0	285.0	277.0	277.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.01	49.108	
300.0	300.0	292.0	292.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.01	49.099	
380.0	380.0	372.0	372.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.02	49.041	
400.0	400.0	392.0	392.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.02	49.024	
475.0	475.0	467.0	467.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.03	48.952	
500.0	500.0	492.0	492.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.03	48.924	
570.0	570.0	562.0	562.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.04	48.839	
600.0	600.0	592.0	592.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.05	48.798	
665.0	665.0	657.0	657.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.06	48.703	
700.0	700.0	692.0	692.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.06	48.648	
760.0	760.0	752.0	752.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	288.9	6.08	48.546	
800.0	800.0	792.0	792.0	3.2	3.1	-90.64	-3.3	-295.0	295.0	288.9	6.09	48.473	
855.0	855.0	847.0	847.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.10	48.367	
900.0	900.0	892.0	892.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.11	48.275	
950.0	950.0	942.0	942.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.12	48.168	
1,000.0	1,000.0	992.0	992.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.14	48.054	
1,045.0	1,045.0	1,037.0	1,037.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.9	6.15	47.948	
1,100.0	1,100.0	1,092.0	1,092.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.17	47.812	
1,140.0	1,140.0	1,132.0	1,132.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.18	47.710	
1,200.0	1,200.0	1,192.0	1,192.0	3.4	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.20	47.550	
1,235.0	1,235.0	1,227.0	1,227.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.22	47.453	
1,300.0	1,300.0	1,292.0	1,292.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.24	47.268	
1,330.0	1,330.0	1,322.0	1,322.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.25	47.180	
1,400.0	1,400.0	1,392.0	1,392.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.28	46.968	
1,425.0	1,425.0	1,417.0	1,417.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.29	46.890	
1,500.0	1,500.0	1,492.0	1,492.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.32	46.650	
1,520.0	1,520.0	1,512.0	1,512.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.7	6.33	46.585	
1,600.0	1,600.0	1,592.0	1,592.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.6	6.37	46.317	
1,615.0	1,615.0	1,607.0	1,607.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.6	6.38	46.266	
1,700.0	1,700.0	1,692.0	1,692.0	3.7	3.7	-90.64	-3.3	-295.0	295.0	288.6	6.42	45.969	
1,710.0	1,710.0	1,702.0	1,702.0	3.7	3.7	-90.64	-3.3	-295.0	295.0	288.6	6.42	45.933	
1,800.0	1,800.0	1,792.0	1,792.0	3.8	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.47	45.607	
1,805.0	1,805.0	1,797.0	1,797.0	3.8	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.47	45.589	
1,900.0	1,900.0	1,892.0	1,892.0	3.9	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.52	45.233	
1,995.0	1,995.0	1,987.0	1,987.0	3.9	3.9	-90.64	-3.3	-295.0	295.0	288.4	6.58	44.868	
2,000.0	2,000.0	1,992.0	1,992.0	3.9	3.9	-90.64	-3.3	-295.0	295.0	288.4	6.58	44.848 CC, ES	
2,090.0	2,090.0	2,075.1	2,075.1	4.0	4.0	172.63	-3.8	-295.9	297.4	290.4	6.92	42.960	
2,100.0	2,100.0	2,084.3	2,084.3	4.0	4.0	172.61	-3.9	-296.1	297.9	291.0	6.97	42.771	
2,185.0	2,184.9	2,161.8	2,161.7	4.3	4.1	172.38	-5.5	-299.0	305.3	297.3	8.00	38.164	
2,200.0	2,199.8	2,175.4	2,175.3	4.4	4.2	172.33	-5.9	-299.7	307.1	298.9	8.22	37.358	
2,280.0	2,279.6	2,252.2	2,251.9	4.9	4.5	172.00	-8.5	-304.3	318.5	309.4	9.07	35.102	
2,300.0	2,299.5	2,272.0	2,271.6	5.1	4.6	171.93	-9.2	-305.5	321.7	312.5	9.27	34.718	
2,375.0	2,373.9	2,345.8	2,345.2	5.5	4.7	171.68	-11.7	-310.0	335.1	325.2	9.85	34.021	
2,400.0	2,398.7	2,370.3	2,369.7	5.7	4.8	171.61	-12.5	-311.4	339.9	329.9	10.03	33.898 SF	
2,450.2	2,448.3	2,419.3	2,418.6	5.8	4.8	171.49	-14.2	-314.4	350.3	340.1	10.22	34.276	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-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)			
2,470.0	2,467.9	2,438.7	2,438.0	5.8	4.9	171.46	-14.9	-315.6	354.6	344.3	10.28	34.497	
2,500.0	2,497.5	2,468.0	2,467.2	5.8	4.9	171.42	-15.9	-317.4	361.0	350.7	10.37	34.824	
2,565.0	2,561.7	2,531.5	2,530.5	5.9	5.0	171.33	-18.0	-321.3	375.1	364.5	10.57	35.483	
2,600.0	2,596.3	2,565.7	2,564.6	6.0	5.1	171.29	-19.2	-323.3	382.6	371.9	10.68	35.815	
2,660.0	2,655.6	2,624.2	2,623.0	6.1	5.2	171.21	-21.2	-326.9	395.5	384.7	10.90	36.297	
2,700.0	2,695.1	2,663.3	2,662.0	6.2	5.3	171.17	-22.5	-329.3	404.2	393.1	11.04	36.594	
2,755.0	2,749.4	2,717.0	2,715.6	6.3	5.4	171.11	-24.4	-332.5	416.0	404.8	11.26	36.948	
2,800.0	2,793.8	2,760.9	2,759.4	6.4	5.5	171.06	-25.9	-335.2	425.7	414.3	11.44	37.213	
2,850.0	2,843.2	2,809.8	2,808.1	6.5	5.6	171.01	-27.5	-338.2	436.5	424.9	11.65	37.466	
2,900.0	2,892.6	2,858.6	2,856.8	6.6	5.7	170.96	-29.2	-341.1	447.3	435.4	11.87	37.694	
2,945.0	2,937.1	2,902.5	2,900.7	6.7	5.8	170.92	-30.7	-343.8	457.0	444.9	12.07	37.868	
3,000.0	2,991.4	2,956.2	2,954.2	6.8	6.0	170.88	-32.5	-347.1	468.9	456.6	12.32	38.057	
3,040.0	3,030.9	2,995.3	2,993.2	6.9	6.0	170.84	-33.9	-349.5	477.5	465.0	12.51	38.171	
3,100.0	3,090.1	3,053.9	3,051.6	7.0	6.2	170.80	-35.9	-353.0	490.4	477.6	12.80	38.320	
3,135.0	3,124.7	3,088.1	3,085.7	7.1	6.3	170.77	-37.0	-355.1	498.0	485.0	12.97	38.390	
3,200.0	3,188.9	3,151.5	3,149.0	7.3	6.5	170.72	-39.2	-359.0	512.0	498.7	13.30	38.501	
3,230.0	3,218.5	3,180.8	3,178.3	7.4	6.5	170.70	-40.2	-360.8	518.5	505.0	13.45	38.539	
3,300.0	3,287.7	3,249.2	3,246.4	7.6	6.7	170.66	-42.5	-364.9	533.6	519.8	13.82	38.614	
3,325.0	3,312.4	3,273.6	3,270.8	7.6	6.8	170.64	-43.4	-366.4	539.0	525.0	13.95	38.632	
3,400.0	3,386.4	3,346.8	3,343.9	7.8	7.0	170.59	-45.9	-370.8	555.2	540.8	14.36	38.671	
3,420.0	3,406.2	3,366.3	3,363.3	7.9	7.1	170.58	-46.5	-372.0	559.5	545.0	14.47	38.676	
3,500.0	3,485.2	3,444.5	3,441.3	8.1	7.3	170.54	-49.2	-376.8	576.7	561.8	14.91	38.684	
3,515.0	3,500.0	3,459.1	3,455.9	8.2	7.3	170.53	-49.7	-377.7	580.0	565.0	14.99	38.682	
3,600.0	3,584.0	3,542.1	3,538.7	8.4	7.6	170.48	-52.5	-382.7	598.3	582.8	15.48	38.662	
3,610.0	3,593.9	3,551.9	3,548.4	8.4	7.6	170.48	-52.9	-383.3	600.5	584.9	15.53	38.657	
3,700.0	3,682.8	3,639.7	3,636.1	8.7	7.9	170.43	-55.9	-388.7	619.9	603.8	16.05	38.610	
3,705.0	3,687.7	3,644.6	3,640.9	8.7	7.9	170.43	-56.0	-389.0	621.0	604.9	16.08	38.607	
3,800.0	3,781.5	3,737.4	3,733.5	9.0	8.2	170.39	-59.2	-394.6	641.5	624.8	16.65	38.537	
3,895.0	3,875.3	3,830.1	3,826.0	9.3	8.5	170.35	-62.4	-400.3	661.9	644.7	17.22	38.450	
3,900.0	3,880.3	3,835.0	3,830.9	9.3	8.5	170.34	-62.5	-400.5	663.0	645.8	17.25	38.445	
3,990.0	3,969.2	3,922.9	3,918.5	9.6	8.8	170.31	-65.5	-405.9	682.4	664.6	17.79	38.352	
4,000.0	3,979.1	3,932.7	3,928.3	9.6	8.8	170.30	-65.9	-406.5	684.6	666.7	17.86	38.341	
4,085.0	4,063.0	4,015.7	4,011.1	9.9	9.1	170.27	-68.7	-411.5	702.9	684.6	18.38	38.244	
4,100.0	4,077.8	4,030.3	4,025.7	9.9	9.1	170.26	-69.2	-412.4	706.2	687.7	18.47	38.226	
4,180.0	4,156.8	4,108.4	4,103.6	10.2	9.4	170.24	-71.9	-417.2	723.4	704.5	18.97	38.129	
4,200.0	4,176.6	4,128.0	4,123.1	10.2	9.4	170.23	-72.5	-418.4	727.7	708.7	19.10	38.104	
4,275.0	4,250.7	4,201.2	4,196.2	10.5	9.7	170.20	-75.0	-422.8	743.9	724.4	19.57	38.009	
4,300.0	4,275.4	4,225.6	4,220.5	10.5	9.8	170.19	-75.9	-424.3	749.3	729.6	19.73	37.977	
4,370.0	4,344.5	4,294.0	4,288.7	10.8	10.0	170.17	-78.2	-428.5	764.4	744.2	20.18	37.886	
4,400.0	4,374.1	4,323.2	4,317.9	10.9	10.1	170.16	-79.2	-430.2	770.9	750.5	20.37	37.847	
4,465.0	4,438.3	4,386.7	4,381.2	11.1	10.3	170.14	-81.4	-434.1	784.9	764.1	20.79	37.760	
4,500.0	4,472.9	4,420.9	4,415.3	11.2	10.4	170.13	-82.5	-436.2	792.5	771.5	21.01	37.714	
4,560.0	4,532.2	4,479.5	4,473.8	11.4	10.6	170.12	-84.5	-439.8	805.4	784.0	21.40	37.634	
4,600.0	4,571.7	4,518.5	4,512.7	11.5	10.7	170.10	-85.9	-442.1	814.1	792.4	21.66	37.581	
4,655.0	4,626.0	4,572.2	4,566.3	11.7	10.9	170.09	-87.7	-445.4	825.9	803.9	22.02	37.507	
4,700.0	4,670.4	4,616.2	4,610.1	11.9	11.1	170.08	-89.2	-448.1	835.6	813.3	22.31	37.447	
4,750.0	4,719.8	4,665.0	4,658.8	12.0	11.2	170.06	-90.9	-451.0	846.4	823.8	22.64	37.380	
4,800.0	4,769.2	4,713.8	4,707.5	12.2	11.4	170.05	-92.5	-454.0	857.2	834.2	22.97	37.315	
4,845.0	4,813.6	4,757.8	4,751.4	12.3	11.5	170.04	-94.0	-456.7	866.9	843.6	23.27	37.255	
4,900.0	4,868.0	4,811.5	4,804.9	12.5	11.7	170.03	-95.9	-459.9	878.8	855.1	23.63	37.183	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H - OWB - PWP0											Offset Site Error:	3.0 usft
Survey Program:	0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Rule Assigned:												
Measured	Vertical	Measured	Vertical	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Tooface	(usft)	(usft)	Centres	Ellipses	(usft)		
						(")			(usft)	(usft)			
4,940.0	4,907.5	4,850.5	4,843.9	12.7	11.9	170.02	-97.2	-462.3	887.4	863.5	23.90	37.131	
5,000.0	4,966.7	4,909.1	4,902.4	12.9	12.1	170.00	-99.2	-465.9	900.4	876.1	24.30	37.053	
5,035.0	5,001.3	4,943.3	4,936.4	13.0	12.2	170.00	-100.4	-468.0	907.9	883.4	24.53	37.008	
5,100.0	5,065.5	5,006.8	4,999.8	13.2	12.4	169.98	-102.5	-471.8	921.9	897.0	24.97	36.926	
5,130.0	5,095.1	5,036.0	5,029.0	13.3	12.5	169.98	-103.5	-473.6	928.4	903.2	25.17	36.888	
5,200.0	5,164.3	5,104.4	5,097.2	13.5	12.7	169.96	-105.9	-477.8	943.5	917.9	25.64	36.800	
5,225.0	5,189.0	5,128.8	5,121.5	13.6	12.8	169.96	-106.7	-479.3	948.9	923.1	25.81	36.769	
5,300.0	5,263.0	5,202.0	5,194.6	13.9	13.1	169.94	-109.2	-483.7	965.1	938.8	26.31	36.677	
5,320.0	5,282.8	5,221.6	5,214.0	14.0	13.1	169.94	-109.9	-484.9	969.4	943.0	26.45	36.653	
5,400.0	5,361.8	5,299.7	5,292.0	14.2	13.4	169.92	-112.5	-489.6	986.7	959.7	26.99	36.557	
5,415.0	5,376.6	5,314.3	5,306.6	14.3	13.5	169.92	-113.0	-490.5	989.9	962.8	27.09	36.539	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #302H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8992-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)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.65	-3.7	-325.0	325.1				
95.0	95.0	86.4	86.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.169	
100.0	100.0	91.4	91.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.169	
190.0	190.0	181.4	181.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.149	
200.0	200.0	191.4	191.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.145	
285.0	285.0	276.4	276.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.01	54.102	
300.0	300.0	291.4	291.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.01	54.092	
380.0	380.0	371.4	371.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.02	54.029	
400.0	400.0	391.4	391.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.02	54.010	
475.0	475.0	466.4	466.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.03	53.930	
500.0	500.0	491.4	491.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.03	53.900	
570.0	570.0	561.4	561.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.04	53.806	
600.0	600.0	591.4	591.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.05	53.762	
665.0	665.0	656.4	656.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.06	53.657	
700.0	700.0	691.4	691.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.06	53.596	
760.0	760.0	751.4	751.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	318.9	6.08	53.483	
800.0	800.0	791.4	791.4	3.2	3.1	-90.65	-3.7	-325.0	325.0	318.9	6.09	53.403	
855.0	855.0	846.4	846.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.10	53.286	
900.0	900.0	891.4	891.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.11	53.185	
950.0	950.0	941.4	941.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.12	53.067	
1,000.0	1,000.0	991.4	991.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.14	52.942	
1,045.0	1,045.0	1,036.4	1,036.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.9	6.15	52.825	
1,100.0	1,100.0	1,091.4	1,091.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.9	6.17	52.676	
1,140.0	1,140.0	1,131.4	1,131.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.8	6.18	52.563	
1,200.0	1,200.0	1,191.4	1,191.4	3.4	3.3	-90.65	-3.7	-325.0	325.0	318.8	6.20	52.386	
1,235.0	1,235.0	1,226.4	1,226.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.22	52.280	
1,300.0	1,300.0	1,291.4	1,291.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.24	52.076	
1,330.0	1,330.0	1,321.4	1,321.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.25	51.979	
1,400.0	1,400.0	1,391.4	1,391.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.28	51.745	
1,425.0	1,425.0	1,416.4	1,416.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.29	51.659	
1,500.0	1,500.0	1,491.4	1,491.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.32	51.396	
1,520.0	1,520.0	1,511.4	1,511.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.7	6.33	51.323	
1,600.0	1,600.0	1,591.4	1,591.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.7	6.37	51.028	
1,615.0	1,615.0	1,606.4	1,606.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.6	6.38	50.972	
1,700.0	1,700.0	1,691.4	1,691.4	3.7	3.7	-90.65	-3.7	-325.0	325.0	318.6	6.42	50.645	
1,710.0	1,710.0	1,701.4	1,701.4	3.7	3.7	-90.65	-3.7	-325.0	325.0	318.6	6.42	50.606	
1,800.0	1,800.0	1,791.4	1,791.4	3.8	3.8	-90.65	-3.7	-325.0	325.0	318.6	6.47	50.247	
1,805.0	1,805.0	1,796.4	1,796.4	3.8	3.8	-90.65	-3.7	-325.0	325.0	318.5	6.47	50.226	
1,900.0	1,900.0	1,891.4	1,891.4	3.9	3.8	-90.65	-3.7	-325.0	325.0	318.5	6.52	49.835	
1,995.0	1,995.0	1,986.4	1,986.4	3.9	3.9	-90.65	-3.7	-325.0	325.0	318.4	6.58	49.432	
2,000.0	2,000.0	1,991.4	1,991.4	3.9	3.9	-90.65	-3.7	-325.0	325.0	318.4	6.58	49.411 CC, ES	
2,090.0	2,090.0	2,073.2	2,073.2	4.0	4.0	172.67	-3.9	-325.9	327.4	320.5	6.93	47.280	
2,100.0	2,100.0	2,082.2	2,082.1	4.0	4.0	172.67	-3.9	-326.2	328.0	321.1	6.97	47.063	
2,185.0	2,184.9	2,158.2	2,158.1	4.3	4.0	172.63	-4.6	-329.3	335.7	327.7	8.00	41.943	
2,200.0	2,199.8	2,171.5	2,171.4	4.4	4.1	172.62	-4.7	-330.0	337.6	329.3	8.23	41.034	
2,280.0	2,279.6	2,242.2	2,241.9	4.9	4.6	172.55	-5.8	-335.0	349.8	340.6	9.22	37.935	
2,300.0	2,299.5	2,259.8	2,259.4	5.1	4.7	172.53	-6.1	-336.5	353.5	344.1	9.46	37.353	
2,375.0	2,373.9	2,324.9	2,324.2	5.5	5.1	172.45	-7.4	-343.0	369.7	359.4	10.30	35.886	
2,400.0	2,398.7	2,346.4	2,345.6	5.7	5.3	172.42	-7.9	-345.5	375.9	365.3	10.57	35.557 SF	
2,450.2	2,448.3	2,389.1	2,387.9	5.8	5.5	172.35	-9.0	-350.8	389.4	378.4	10.94	35.588	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #302H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8992-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)			
2,470.0	2,467.9	2,406.7	2,405.3	5.8	5.6	172.34	-9.5	-353.2	395.1	384.0	11.05	35.745	
2,500.0	2,497.5	2,435.4	2,433.7	5.8	5.7	172.31	-10.3	-357.1	403.8	392.6	11.18	36.123	
2,565.0	2,561.7	2,497.6	2,495.4	5.9	5.9	172.27	-12.1	-365.6	422.5	411.1	11.45	36.900	
2,600.0	2,596.3	2,531.1	2,528.5	6.0	6.0	172.25	-13.0	-370.2	432.6	421.1	11.55	37.454	
2,660.0	2,655.6	2,588.6	2,585.4	6.1	6.0	172.21	-14.6	-378.0	450.0	438.2	11.73	38.345	
2,700.0	2,695.1	2,626.9	2,623.3	6.2	6.1	172.19	-15.7	-383.2	461.5	449.6	11.86	38.906	
2,755.0	2,749.4	2,679.5	2,675.5	6.3	6.2	172.16	-17.2	-390.4	477.4	465.3	12.05	39.619	
2,800.0	2,793.8	2,722.6	2,718.2	6.4	6.3	172.13	-18.4	-396.3	490.4	478.2	12.21	40.171	
2,850.0	2,843.2	2,770.5	2,765.6	6.5	6.4	172.11	-19.7	-402.8	504.8	492.4	12.39	40.730	
2,900.0	2,892.6	2,818.3	2,813.0	6.6	6.5	172.09	-21.1	-409.3	519.3	506.7	12.58	41.262	
2,945.0	2,937.1	2,861.4	2,855.6	6.7	6.6	172.07	-22.3	-415.2	532.3	519.5	12.77	41.693	
3,000.0	2,991.4	2,914.1	2,907.8	6.8	6.7	172.05	-23.8	-422.4	548.1	535.2	12.99	42.195	
3,040.0	3,030.9	2,952.4	2,945.7	6.9	6.8	172.03	-24.8	-427.6	559.7	546.5	13.16	42.521	
3,100.0	3,090.1	3,009.8	3,002.6	7.0	6.9	172.01	-26.4	-435.4	577.0	563.6	13.42	42.988	
3,135.0	3,124.7	3,043.3	3,035.8	7.1	7.0	172.00	-27.4	-440.0	587.1	573.5	13.58	43.228	
3,200.0	3,188.9	3,105.5	3,097.4	7.3	7.1	171.97	-29.1	-448.5	605.9	592.0	13.88	43.655	
3,230.0	3,218.5	3,134.3	3,125.8	7.4	7.2	171.96	-29.9	-452.4	614.6	600.5	14.02	43.828	
3,300.0	3,287.7	3,201.3	3,192.2	7.6	7.4	171.94	-31.8	-461.5	634.8	620.4	14.36	44.214	
3,325.0	3,312.4	3,225.2	3,215.9	7.6	7.4	171.94	-32.5	-464.8	642.0	627.5	14.48	44.334	
3,400.0	3,386.4	3,297.0	3,287.0	7.8	7.6	171.92	-34.5	-474.6	663.7	648.8	14.85	44.677	
3,420.0	3,406.2	3,316.2	3,306.0	7.9	7.7	171.91	-35.0	-477.2	669.4	654.5	14.96	44.757	
3,500.0	3,485.2	3,392.8	3,381.8	8.1	7.9	171.89	-37.2	-487.6	692.5	677.2	15.37	45.058	
3,515.0	3,500.0	3,407.1	3,396.0	8.2	7.9	171.89	-37.6	-489.6	696.9	681.4	15.45	45.108	
3,600.0	3,584.0	3,488.5	3,476.6	8.4	8.1	171.87	-39.9	-500.7	721.4	705.5	15.90	45.369	
3,610.0	3,593.9	3,498.1	3,486.1	8.4	8.2	171.86	-40.1	-502.0	724.3	708.3	15.95	45.397	
3,700.0	3,682.8	3,584.2	3,571.4	8.7	8.4	171.84	-42.6	-513.7	750.3	733.8	16.45	45.620	
3,705.0	3,687.7	3,589.0	3,576.2	8.7	8.4	171.84	-42.7	-514.4	751.7	735.3	16.47	45.632	
3,800.0	3,781.5	3,680.0	3,666.2	9.0	8.7	171.82	-45.3	-526.8	779.2	762.2	17.00	45.821	
3,895.0	3,875.3	3,770.9	3,756.3	9.3	9.0	171.81	-47.8	-539.2	806.6	789.1	17.55	45.970	
3,900.0	3,880.3	3,775.7	3,761.0	9.3	9.0	171.80	-47.9	-539.8	808.0	790.5	17.57	45.977	
3,990.0	3,969.2	3,861.9	3,846.4	9.6	9.2	171.79	-50.4	-551.6	834.0	815.9	18.10	46.086	
4,000.0	3,979.1	3,871.5	3,855.8	9.6	9.3	171.79	-50.6	-552.9	836.9	818.8	18.16	46.097	
4,085.0	4,063.0	3,952.8	3,936.4	9.9	9.5	171.77	-52.9	-564.0	861.5	842.8	18.66	46.173	
4,100.0	4,077.8	3,967.2	3,950.7	9.9	9.6	171.77	-53.3	-565.9	865.8	847.1	18.75	46.185	
4,180.0	4,156.8	4,043.8	4,026.5	10.2	9.8	171.76	-55.5	-576.4	888.9	869.7	19.23	46.236	
4,200.0	4,176.6	4,062.9	4,045.5	10.2	9.9	171.76	-56.0	-579.0	894.7	875.3	19.35	46.247	
4,275.0	4,250.7	4,134.7	4,116.6	10.5	10.1	171.74	-58.0	-588.8	916.3	896.5	19.80	46.278	
4,300.0	4,275.4	4,158.7	4,140.3	10.5	10.2	171.74	-58.7	-592.0	923.6	903.6	19.95	46.287	
4,370.0	4,344.5	4,225.7	4,206.6	10.8	10.4	171.73	-60.6	-601.2	943.8	923.4	20.38	46.302	
4,400.0	4,374.1	4,254.4	4,235.1	10.9	10.5	171.73	-61.4	-605.1	952.4	931.9	20.57	46.307	
4,465.0	4,438.3	4,316.6	4,296.7	11.1	10.7	171.72	-63.1	-613.6	971.2	950.2	20.97	46.312	
4,500.0	4,472.9	4,350.2	4,329.9	11.2	10.8	171.71	-64.1	-618.1	981.3	960.1	21.19	46.312	
4,560.0	4,532.2	4,407.6	4,386.8	11.4	11.0	171.71	-65.7	-626.0	998.6	977.1	21.57	46.308	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.67	-0.7	-60.0	60.1				
95.0	95.0	91.9	91.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	10.000	
100.0	100.0	96.9	96.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	10.000	
190.0	190.0	186.9	186.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	9.997	
200.0	200.0	196.9	196.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	9.996	
285.0	285.0	281.9	281.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.01	9.988	
300.0	300.0	296.9	296.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.01	9.986	
380.0	380.0	376.9	376.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.02	9.974	
400.0	400.0	396.9	396.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.02	9.971	
475.0	475.0	471.9	471.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.03	9.956	
500.0	500.0	496.9	496.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.03	9.950	
570.0	570.0	566.9	566.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.04	9.933	
600.0	600.0	596.9	596.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.05	9.924	
665.0	665.0	661.9	661.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.06	9.905	
700.0	700.0	696.9	696.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.06	9.894	
760.0	760.0	756.9	756.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.08	9.873	
800.0	800.0	796.9	796.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.09	9.858	
855.0	855.0	851.9	851.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.10	9.836	
900.0	900.0	896.9	896.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.11	9.818	
950.0	950.0	946.9	946.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.13	9.796	
1,000.0	1,000.0	996.9	996.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.14	9.773	
1,045.0	1,045.0	1,041.9	1,041.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.9	6.15	9.751	
1,100.0	1,100.0	1,096.9	1,096.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.8	6.17	9.723	
1,140.0	1,140.0	1,136.9	1,136.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.8	6.18	9.702	
1,200.0	1,200.0	1,196.9	1,196.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.21	9.670	
1,235.0	1,235.0	1,231.9	1,231.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.22	9.650	
1,300.0	1,300.0	1,296.9	1,296.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.24	9.612	
1,330.0	1,330.0	1,326.9	1,326.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.25	9.594	
1,400.0	1,400.0	1,396.9	1,396.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.28	9.551	
1,425.0	1,425.0	1,421.9	1,421.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.29	9.535	
1,500.0	1,500.0	1,496.9	1,496.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.33	9.487	
1,520.0	1,520.0	1,516.9	1,516.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.7	6.33	9.473	
1,600.0	1,600.0	1,596.9	1,596.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.6	6.37	9.419	
1,615.0	1,615.0	1,611.9	1,611.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.6	6.38	9.408	
1,700.0	1,700.0	1,696.9	1,696.9	3.7	3.7	-90.67	-0.7	-60.0	60.0	53.6	6.42	9.348	
1,710.0	1,710.0	1,706.9	1,706.9	3.7	3.7	-90.67	-0.7	-60.0	60.0	53.6	6.42	9.341	
1,800.0	1,800.0	1,796.9	1,796.9	3.8	3.8	-90.67	-0.7	-60.0	60.0	53.5	6.47	9.274	
1,805.0	1,805.0	1,801.9	1,801.9	3.8	3.8	-90.67	-0.7	-60.0	60.0	53.5	6.47	9.271	
1,900.0	1,900.0	1,896.9	1,896.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.5	6.52	9.198	
1,995.0	1,995.0	1,991.9	1,991.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.4	6.58	9.124	
2,000.0	2,000.0	1,996.9	1,996.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.4	6.58	9.120 CC, ES	
2,090.0	2,090.0	2,085.1	2,085.0	4.0	4.0	172.66	-0.9	-61.2	62.7	55.7	6.95	9.015	
2,100.0	2,100.0	2,094.8	2,094.8	4.0	4.0	172.66	-0.9	-61.6	63.3	56.3	7.00	9.046	
2,185.0	2,184.9	2,177.5	2,177.4	4.3	4.1	172.62	-1.5	-65.4	71.5	63.4	8.15	8.768	
2,200.0	2,199.8	2,192.0	2,191.9	4.4	4.2	172.61	-1.7	-66.4	73.5	65.1	8.39	8.754 SF	
2,280.0	2,279.6	2,268.8	2,268.4	4.9	4.8	172.56	-2.6	-72.5	86.4	77.0	9.39	9.203	
2,300.0	2,299.5	2,287.9	2,287.4	5.1	4.9	172.55	-2.9	-74.3	90.3	80.7	9.65	9.364	
2,375.0	2,373.9	2,358.8	2,357.9	5.5	5.1	172.49	-4.1	-82.2	107.3	97.0	10.26	10.459	
2,400.0	2,398.7	2,383.0	2,381.9	5.7	5.1	172.49	-4.5	-85.1	113.6	103.2	10.43	10.895	
2,450.2	2,448.3	2,431.4	2,429.9	5.8	5.2	172.51	-5.4	-90.9	126.9	116.3	10.60	11.969	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-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)			
2,470.0	2,467.9	2,450.5	2,448.8	5.8	5.2	172.54	-5.8	-93.2	132.3	121.7	10.65	12.422	
2,500.0	2,497.5	2,479.3	2,477.5	5.8	5.3	172.58	-6.3	-96.7	140.5	129.8	10.73	13.098	
2,565.0	2,561.7	2,541.8	2,539.5	5.9	5.4	172.65	-7.4	-104.2	158.3	147.4	10.91	14.505	
2,600.0	2,596.3	2,575.5	2,573.0	6.0	5.4	172.69	-8.0	-108.3	167.9	156.8	11.02	15.237	
2,660.0	2,655.6	2,633.2	2,630.2	6.1	5.5	172.73	-9.1	-115.2	184.3	173.0	11.22	16.426	
2,700.0	2,695.1	2,671.7	2,668.4	6.2	5.6	172.76	-9.8	-119.9	195.2	183.8	11.35	17.190	
2,755.0	2,749.4	2,724.6	2,720.9	6.3	5.7	172.80	-10.8	-126.2	210.2	198.7	11.56	18.189	
2,800.0	2,793.8	2,767.9	2,763.9	6.4	5.8	172.82	-11.6	-131.5	222.5	210.8	11.73	18.974	
2,850.0	2,843.2	2,816.0	2,811.6	6.5	5.9	172.84	-12.5	-137.2	236.2	224.3	11.93	19.803	
2,900.0	2,892.6	2,864.1	2,859.4	6.6	6.0	172.87	-13.3	-143.0	249.8	237.7	12.13	20.596	
2,945.0	2,937.1	2,907.4	2,902.3	6.7	6.1	172.88	-14.1	-148.3	262.1	249.8	12.32	21.274	
3,000.0	2,991.4	2,960.3	2,954.9	6.8	6.3	172.90	-15.1	-154.6	277.2	264.6	12.56	22.064	
3,040.0	3,030.9	2,998.8	2,993.1	6.9	6.4	172.92	-15.8	-159.3	288.1	275.4	12.74	22.610	
3,100.0	3,090.1	3,056.5	3,050.3	7.0	6.5	172.93	-16.9	-166.2	304.5	291.5	13.02	23.389	
3,135.0	3,124.7	3,090.1	3,083.8	7.1	6.6	172.94	-17.5	-170.3	314.1	300.9	13.19	23.820	
3,200.0	3,188.9	3,152.7	3,145.8	7.3	6.8	172.96	-18.6	-177.8	331.8	318.3	13.50	24.582	
3,230.0	3,218.5	3,181.5	3,174.5	7.4	6.8	172.96	-19.2	-181.3	340.0	326.4	13.65	24.915	
3,300.0	3,287.7	3,248.9	3,241.3	7.6	7.0	172.98	-20.4	-189.4	359.2	345.2	14.00	25.656	
3,325.0	3,312.4	3,272.9	3,265.2	7.6	7.1	172.98	-20.8	-192.3	366.0	351.9	14.13	25.906	
3,400.0	3,386.4	3,345.0	3,336.8	7.8	7.3	173.00	-22.1	-201.0	386.5	372.0	14.52	26.622	
3,420.0	3,406.2	3,364.3	3,355.9	7.9	7.3	173.00	-22.5	-203.3	392.0	377.3	14.62	26.802	
3,500.0	3,485.2	3,441.2	3,432.2	8.1	7.6	173.01	-23.9	-212.6	413.8	398.8	15.05	27.491	
3,515.0	3,500.0	3,455.7	3,446.6	8.2	7.6	173.02	-24.2	-214.3	417.9	402.8	15.14	27.613	
3,600.0	3,584.0	3,537.4	3,527.7	8.4	7.9	173.03	-25.7	-224.2	441.2	425.6	15.60	28.273	
3,610.0	3,593.9	3,547.1	3,537.3	8.4	7.9	173.03	-25.8	-225.3	443.9	428.2	15.66	28.347	
3,700.0	3,682.8	3,633.6	3,623.2	8.7	8.1	173.04	-27.4	-235.8	468.5	452.3	16.17	28.979	
3,705.0	3,687.7	3,638.4	3,628.0	8.7	8.2	173.04	-27.5	-236.3	469.9	453.7	16.20	29.012	
3,800.0	3,781.5	3,729.8	3,718.7	9.0	8.4	173.05	-29.2	-247.3	495.8	479.1	16.74	29.615	
3,895.0	3,875.3	3,821.2	3,809.4	9.3	8.7	173.06	-30.9	-258.4	521.8	504.5	17.30	30.163	
3,900.0	3,880.3	3,826.0	3,814.1	9.3	8.7	173.06	-31.0	-258.9	523.1	505.8	17.33	30.191	
3,990.0	3,969.2	3,912.6	3,900.1	9.6	9.0	173.07	-32.5	-269.4	547.7	529.9	17.86	30.662	
4,000.0	3,979.1	3,922.2	3,909.6	9.6	9.0	173.07	-32.7	-270.5	550.5	532.6	17.92	30.712	
4,085.0	4,063.0	4,004.0	3,990.8	9.9	9.3	173.08	-34.2	-280.4	573.7	555.3	18.44	31.117	
4,100.0	4,077.8	4,018.4	4,005.1	9.9	9.4	173.08	-34.5	-282.1	577.8	559.3	18.53	31.185	
4,180.0	4,156.8	4,095.4	4,081.5	10.2	9.6	173.08	-35.9	-291.4	599.7	580.7	19.02	31.531	
4,200.0	4,176.6	4,114.6	4,100.6	10.2	9.7	173.08	-36.3	-293.7	605.1	586.0	19.14	31.614	
4,275.0	4,250.7	4,186.7	4,172.2	10.5	9.9	173.09	-37.6	-302.4	625.6	606.0	19.61	31.911	
4,300.0	4,275.4	4,210.8	4,196.0	10.5	10.0	173.09	-38.0	-305.3	632.5	612.7	19.76	32.005	
4,370.0	4,344.5	4,278.1	4,262.9	10.8	10.2	173.09	-39.2	-313.4	651.6	631.4	20.20	32.258	
4,400.0	4,374.1	4,307.0	4,291.5	10.9	10.3	173.10	-39.8	-316.9	659.8	639.4	20.39	32.362	
4,465.0	4,438.3	4,369.5	4,353.6	11.1	10.5	173.10	-40.9	-324.4	677.6	656.8	20.80	32.577	
4,500.0	4,472.9	4,403.2	4,387.0	11.2	10.6	173.10	-41.5	-328.5	687.1	666.1	21.02	32.689	
4,560.0	4,532.2	4,460.9	4,444.3	11.4	10.8	173.11	-42.6	-335.4	703.5	682.1	21.40	32.870	
4,600.0	4,571.7	4,499.4	4,482.5	11.5	10.9	173.11	-43.3	-340.0	714.5	692.8	21.66	32.987	
4,655.0	4,626.0	4,552.3	4,535.0	11.7	11.1	173.11	-44.3	-346.4	729.5	707.5	22.01	33.140	
4,700.0	4,670.4	4,595.6	4,577.9	11.9	11.3	173.11	-45.1	-351.6	741.8	719.5	22.30	33.261	
4,750.0	4,719.8	4,643.7	4,625.7	12.0	11.4	173.11	-45.9	-357.4	755.5	732.8	22.63	33.389	
4,800.0	4,769.2	4,691.7	4,673.4	12.2	11.6	173.12	-46.8	-363.2	769.1	746.2	22.95	33.513	
4,845.0	4,813.6	4,735.0	4,716.4	12.3	11.7	173.12	-47.6	-368.4	781.4	758.2	23.24	33.619	
4,900.0	4,868.0	4,787.9	4,768.9	12.5	11.9	173.12	-48.6	-374.8	796.5	772.9	23.60	33.745	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0											Offset Site Error:		3.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:					
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			
4,940.0	4,907.5	4,826.4	4,807.1	12.7	12.1	173.12	-49.3	-379.5	807.4	783.5	23.86	33.832				
5,000.0	4,966.7	4,884.1	4,864.4	12.9	12.3	173.12	-50.4	-386.4	823.8	799.5	24.26	33.959				
5,035.0	5,001.3	4,917.8	4,897.8	13.0	12.4	173.13	-51.0	-390.5	833.3	808.9	24.49	34.030				
5,100.0	5,065.5	4,980.3	4,959.9	13.2	12.6	173.13	-52.1	-398.0	851.1	826.2	24.92	34.157				
5,130.0	5,095.1	5,009.2	4,988.5	13.3	12.7	173.13	-52.6	-401.5	859.3	834.2	25.12	34.213				
5,200.0	5,164.3	5,076.5	5,055.3	13.5	12.9	173.13	-53.9	-409.6	878.4	852.9	25.58	34.340				
5,225.0	5,189.0	5,100.6	5,079.2	13.6	13.0	173.13	-54.3	-412.5	885.3	859.5	25.75	34.384				
5,300.0	5,263.0	5,172.7	5,150.8	13.9	13.2	173.13	-55.6	-421.2	905.8	879.5	26.25	34.510				
5,320.0	5,282.8	5,191.9	5,169.9	14.0	13.3	173.14	-56.0	-423.5	911.2	884.9	26.38	34.542				
5,400.0	5,361.8	5,268.9	5,246.3	14.2	13.6	173.14	-57.4	-432.8	933.1	906.2	26.92	34.667				
5,415.0	5,376.6	5,283.3	5,260.6	14.3	13.6	173.14	-57.7	-434.5	937.2	910.2	27.02	34.690				
5,500.0	5,460.6	5,365.1	5,341.8	14.6	13.9	173.14	-59.2	-444.3	960.4	932.8	27.59	34.814				
5,510.0	5,470.5	5,374.7	5,351.3	14.6	14.0	173.14	-59.3	-445.5	963.2	935.5	27.65	34.828				
5,600.0	5,559.3	5,461.3	5,437.2	14.9	14.3	173.14	-60.9	-455.9	987.8	959.5	28.26	34.951				
5,605.0	5,564.3	5,466.1	5,442.0	14.9	14.3	173.14	-61.0	-456.5	989.1	960.8	28.30	34.957				

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 312H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 9004-MWD+IFR1+FDIR							Rule Assigned:					Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,400.0	7,337.2	7,262.5	7,253.4	21.5	7.9	-10.03	-35.7	1,794.3	995.0	967.7	27.33	36.402	
7,410.0	7,347.0	7,272.4	7,263.3	21.6	7.9	-10.00	-36.3	1,795.2	994.3	967.0	27.38	36.317	
7,500.0	7,435.9	7,362.1	7,352.5	21.9	7.9	-9.78	-42.1	1,802.9	987.9	960.1	27.78	35.564	
7,505.0	7,440.9	7,367.1	7,357.4	21.9	7.9	-9.77	-42.4	1,803.4	987.5	959.7	27.80	35.523	
7,600.0	7,534.7	7,461.8	7,451.5	22.2	8.0	-9.54	-48.5	1,811.6	980.8	952.5	28.22	34.751	
7,695.0	7,628.5	7,556.5	7,545.7	22.6	8.0	-9.30	-54.6	1,819.8	974.0	945.4	28.65	34.001	
7,700.0	7,633.5	7,561.4	7,550.6	22.6	8.0	-9.29	-54.9	1,820.2	973.6	945.0	28.67	33.962	
7,790.0	7,722.4	7,651.1	7,639.8	22.9	8.0	-9.06	-60.7	1,828.0	967.3	938.2	29.07	33.273	
7,791.0	7,723.4	7,652.2	7,640.8	22.9	8.0	-9.06	-60.7	1,828.1	967.2	938.1	29.07	33.266	
7,800.0	7,732.2	7,661.1	7,649.7	22.9	8.0	-9.03	-61.3	1,828.9	966.6	937.4	29.11	33.199	
7,885.0	7,816.3	7,745.9	7,734.0	23.2	8.1	-8.80	-66.7	1,836.2	961.3	931.8	29.49	32.597	
7,900.0	7,831.2	7,760.8	7,748.8	23.3	8.1	-8.76	-67.7	1,837.5	960.5	930.9	29.56	32.497	
7,980.0	7,910.5	7,840.6	7,828.2	23.6	8.1	-8.53	-72.8	1,844.4	956.9	927.0	29.91	31.991	
8,000.0	7,930.3	7,860.6	7,848.0	23.6	8.1	-8.47	-74.1	1,846.2	956.2	926.2	30.00	31.872	
8,075.0	8,004.8	7,935.5	7,922.5	23.9	8.2	-8.24	-78.9	1,852.7	954.1	923.8	30.33	31.455	
8,100.0	8,029.7	7,960.4	7,947.3	24.0	8.2	-8.16	-80.5	1,854.8	953.6	923.2	30.44	31.326	
8,170.0	8,099.4	8,030.3	8,016.8	24.2	8.2	-7.94	-85.0	1,860.9	952.9	922.1	30.75	30.988	
8,196.1	8,125.4	8,056.5	8,042.7	24.3	8.2	-7.85	-86.7	1,863.2	952.8	921.9	30.86	30.871 CC	
8,200.0	8,129.3	8,060.3	8,046.6	24.4	8.2	-7.84	-86.9	1,863.5	952.8	921.9	30.88	30.854 ES	
8,265.0	8,194.0	8,125.2	8,111.1	24.6	8.3	-7.63	-91.1	1,869.1	953.2	922.0	31.16	30.587	
8,300.0	8,229.0	8,160.1	8,145.8	24.7	8.3	-7.51	-93.3	1,872.1	953.7	922.4	31.32	30.455	
8,360.0	8,288.8	8,220.0	8,205.4	24.9	8.3	-7.30	-97.2	1,877.3	955.2	923.6	31.58	30.250	
8,400.0	8,328.8	8,259.9	8,245.0	25.0	8.3	-7.17	-99.7	1,880.8	956.5	924.7	31.75	30.126	
8,455.0	8,383.7	8,314.8	8,299.6	25.2	8.4	-6.97	-103.3	1,885.6	958.7	926.7	31.98	29.974	
8,500.0	8,428.7	8,359.7	8,344.2	25.4	8.4	-6.82	-106.1	1,889.4	960.9	928.8	32.18	29.863	
8,550.0	8,478.7	8,409.5	8,393.7	25.6	8.4	-6.64	-109.3	1,893.8	963.8	931.4	32.39	29.756	
8,600.0	8,528.7	8,459.3	8,443.2	25.7	8.4	-6.46	-112.5	1,898.1	967.2	934.6	32.60	29.664	
8,645.0	8,573.6	8,504.1	8,487.7	25.9	8.5	-6.30	-115.4	1,902.0	970.6	937.8	32.79	29.600	
8,691.4	8,620.0	8,550.2	8,533.6	26.0	8.5	90.54	-118.4	1,906.0	974.4	941.5	32.98	29.545	
8,700.0	8,628.6	8,558.8	8,542.1	26.0	8.5	90.57	-118.9	1,906.7	975.2	942.2	33.02	29.537	
8,740.0	8,668.6	8,598.5	8,581.6	26.2	8.5	90.72	-121.5	1,910.2	978.7	945.5	33.18	29.501	
8,800.0	8,728.6	8,658.2	8,640.9	26.3	8.6	90.94	-125.3	1,915.3	984.0	950.5	33.41	29.447	
8,835.0	8,763.6	8,693.0	8,675.5	26.5	8.6	91.06	-127.5	1,918.3	987.0	953.5	33.56	29.414	
8,900.0	8,828.6	8,757.6	8,739.8	26.7	8.6	91.30	-131.7	1,923.9	992.8	959.0	33.82	29.354	
8,930.0	8,858.6	8,787.4	8,769.4	26.7	8.6	91.40	-133.6	1,926.5	995.4	961.5	33.94	29.327 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
6,270.0	6,221.1	6,228.8	6,228.1	17.5	7.5	-13.13	35.9	1,621.4	998.7	976.4	22.25	44.884	
6,300.0	6,250.7	6,258.4	6,257.7	17.6	7.5	-13.11	34.5	1,621.2	993.8	971.4	22.37	44.422	
6,365.0	6,314.9	6,322.6	6,321.7	17.9	7.5	-13.07	31.4	1,620.9	983.2	960.6	22.64	43.438	
6,400.0	6,349.5	6,357.1	6,356.2	18.0	7.5	-13.04	29.8	1,620.7	977.5	954.8	22.78	42.916	
6,460.0	6,408.7	6,416.3	6,415.3	18.2	7.5	-13.00	27.0	1,620.4	967.8	944.8	23.02	42.037	
6,500.0	6,448.3	6,455.7	6,454.8	18.3	7.5	-12.98	25.1	1,620.2	961.3	938.1	23.19	41.461	
6,555.0	6,502.6	6,510.0	6,509.0	18.5	7.4	-12.94	22.5	1,620.0	952.3	928.9	23.41	40.681	
6,600.0	6,547.0	6,554.4	6,553.3	18.7	7.4	-12.91	20.4	1,619.7	945.0	921.4	23.59	40.053	
6,650.0	6,596.4	6,603.7	6,602.6	18.9	7.4	-12.87	18.1	1,619.5	936.9	913.1	23.80	39.367	
6,700.0	6,645.8	6,653.1	6,651.9	19.0	7.4	-12.84	15.7	1,619.2	928.7	904.7	24.00	38.691	
6,745.0	6,690.2	6,697.5	6,696.2	19.2	7.4	-12.80	13.6	1,619.0	921.4	897.2	24.19	38.093	
6,800.0	6,744.6	6,751.7	6,750.4	19.4	7.4	-12.76	11.0	1,618.7	912.5	888.1	24.42	37.373	
6,840.0	6,784.1	6,791.2	6,789.8	19.5	7.4	-12.73	9.2	1,618.5	906.0	881.4	24.58	36.858	
6,900.0	6,843.3	6,850.4	6,849.0	19.7	7.3	-12.68	6.4	1,618.2	896.2	871.4	24.83	36.097	
6,935.0	6,877.9	6,884.9	6,883.4	19.9	7.3	-12.66	4.7	1,618.0	890.5	865.6	24.97	35.660	
7,000.0	6,942.1	6,949.1	6,947.5	20.1	7.3	-12.60	1.7	1,617.7	880.0	854.7	25.24	34.861	
7,030.0	6,971.7	6,978.7	6,977.1	20.2	7.3	-12.58	0.3	1,617.5	875.1	849.7	25.37	34.498	
7,100.0	7,040.9	7,047.7	7,046.1	20.5	7.3	-12.52	-3.0	1,617.2	863.7	838.0	25.66	33.664	
7,125.0	7,065.6	7,072.4	7,070.7	20.5	7.3	-12.50	-4.2	1,617.1	859.6	833.9	25.76	33.370	
7,200.0	7,139.6	7,146.4	7,144.6	20.8	7.3	-12.43	-7.7	1,616.7	847.4	821.4	26.07	32.503	
7,220.0	7,159.4	7,166.1	7,164.3	20.9	7.3	-12.42	-8.6	1,616.6	844.2	818.0	26.16	32.275	
7,300.0	7,238.4	7,245.0	7,243.2	21.2	7.3	-12.34	-12.4	1,616.2	831.2	804.7	26.49	31.377	
7,315.0	7,253.2	7,259.8	7,257.9	21.2	7.3	-12.33	-13.1	1,616.1	828.8	802.2	26.55	31.211	
7,400.0	7,337.2	7,343.7	7,341.7	21.5	7.2	-12.25	-17.0	1,615.7	814.9	788.0	26.91	30.286	
7,410.0	7,347.0	7,353.6	7,351.6	21.6	7.2	-12.24	-17.5	1,615.6	813.3	786.4	26.95	30.178	
7,500.0	7,435.9	7,442.4	7,440.3	21.9	7.2	-12.15	-21.7	1,615.2	798.7	771.4	27.33	29.227	
7,505.0	7,440.9	7,447.3	7,445.2	21.9	7.2	-12.15	-22.0	1,615.1	797.9	770.5	27.35	29.174	
7,600.0	7,534.7	7,541.0	7,538.8	22.2	7.2	-12.05	-26.4	1,614.6	782.4	754.7	27.75	28.198	
7,695.0	7,628.5	7,634.8	7,632.4	22.6	7.2	-11.95	-30.9	1,614.2	767.0	738.9	28.15	27.249	
7,700.0	7,633.5	7,639.7	7,637.4	22.6	7.2	-11.95	-31.1	1,614.1	766.2	738.0	28.17	27.200	
7,790.0	7,722.4	7,728.5	7,726.0	22.9	7.2	-11.85	-35.3	1,613.7	751.6	723.0	28.55	26.327	
7,791.0	7,723.4	7,729.5	7,727.1	22.9	7.2	-11.85	-35.3	1,613.7	751.4	722.9	28.55	26.317	
7,800.0	7,732.2	7,738.3	7,735.9	22.9	7.2	-11.83	-35.8	1,613.6	750.0	721.4	28.59	26.232	
7,885.0	7,816.3	7,822.3	7,819.8	23.2	7.2	-11.70	-39.8	1,613.2	736.9	707.9	28.94	25.459	
7,900.0	7,831.2	7,837.2	7,834.6	23.3	7.2	-11.67	-40.5	1,613.1	734.7	705.7	29.01	25.329	
7,980.0	7,910.5	7,916.4	7,913.7	23.6	7.2	-11.52	-44.2	1,612.7	723.7	694.4	29.34	24.665	
8,000.0	7,930.3	7,936.2	7,933.5	23.6	7.2	-11.48	-45.2	1,612.6	721.2	691.7	29.43	24.507	
8,075.0	8,004.8	8,010.6	8,007.9	23.9	7.2	-11.31	-48.7	1,612.2	712.1	682.4	29.74	23.945	
8,100.0	8,029.7	8,035.5	8,032.7	24.0	7.2	-11.25	-49.9	1,612.1	709.3	679.5	29.84	23.767	
8,170.0	8,099.4	8,105.1	8,102.2	24.2	7.2	-11.08	-53.2	1,611.7	702.0	671.9	30.14	23.296	
8,200.0	8,129.3	8,134.9	8,132.0	24.4	7.2	-11.00	-54.6	1,611.6	699.2	668.9	30.26	23.106	
8,265.0	8,194.0	8,199.6	8,196.7	24.6	7.2	-10.82	-57.7	1,611.3	693.5	663.0	30.53	22.717	
8,300.0	8,229.0	8,234.5	8,231.5	24.7	7.2	-10.72	-59.3	1,611.1	690.8	660.1	30.67	22.520	
8,360.0	8,288.8	8,294.3	8,291.2	24.9	7.2	-10.53	-62.1	1,610.8	686.6	655.6	30.92	22.203	
8,400.0	8,328.8	8,334.2	8,331.1	25.0	7.2	-10.40	-64.0	1,610.6	684.1	653.0	31.09	22.006	
8,455.0	8,383.7	8,389.1	8,385.9	25.2	7.2	-10.22	-66.6	1,610.3	681.2	649.8	31.31	21.755	
8,500.0	8,428.7	8,434.0	8,430.8	25.4	7.2	-10.06	-68.8	1,610.1	679.1	647.6	31.49	21.563	
8,550.0	8,478.7	8,483.9	8,480.7	25.6	7.3	-9.88	-71.1	1,609.8	677.3	645.6	31.70	21.368	
8,600.0	8,528.7	8,533.9	8,530.5	25.7	7.3	-9.70	-73.5	1,609.5	675.9	644.0	31.90	21.188	
8,645.0	8,573.6	8,578.8	8,575.4	25.9	7.3	-9.52	-75.6	1,609.3	675.1	643.0	32.08	21.044	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
8,691.4	8,620.0	8,625.1	8,621.7	26.0	7.3	87.33	-77.8	1,609.1	674.5	642.3	32.26	20.908	
8,700.0	8,628.6	8,633.8	8,630.3	26.0	7.3	87.36	-78.3	1,609.0	674.5	642.2	32.29	20.885	
8,740.0	8,668.6	8,673.7	8,670.2	26.2	7.3	87.52	-80.1	1,608.8	674.2	641.7	32.45	20.778	
8,800.0	8,728.6	8,733.6	8,730.1	26.3	7.3	87.76	-83.0	1,608.5	673.7	641.1	32.68	20.619	
8,835.0	8,763.6	8,768.6	8,765.0	26.5	7.3	87.90	-84.7	1,608.3	673.5	640.7	32.81	20.526	
8,900.0	8,828.6	8,833.5	8,829.8	26.7	7.3	88.16	-87.7	1,608.0	673.1	640.0	33.06	20.356	
8,930.0	8,858.6	8,863.5	8,859.8	26.7	7.3	88.28	-89.2	1,607.8	672.9	639.7	33.18	20.279	
9,000.0	8,928.6	8,933.4	8,929.6	27.0	7.3	88.57	-92.5	1,607.5	672.4	639.0	33.45	20.100	
9,025.0	8,953.6	8,958.4	8,954.6	27.0	7.3	88.67	-93.7	1,607.4	672.3	638.7	33.55	20.037	
9,100.0	9,028.6	9,033.3	9,029.4	27.3	7.4	88.97	-97.2	1,607.0	671.8	637.9	33.84	19.851	
9,120.0	9,048.6	9,053.3	9,049.3	27.3	7.4	89.05	-98.2	1,606.9	671.7	637.8	33.92	19.802	
9,200.0	9,128.6	9,133.2	9,129.2	27.6	7.4	89.37	-102.0	1,606.5	671.2	637.0	34.23	19.607	
9,215.0	9,143.6	9,148.2	9,144.1	27.6	7.4	89.43	-102.7	1,606.4	671.1	636.8	34.29	19.571	
9,300.0	9,228.6	9,233.1	9,228.9	27.9	7.4	89.78	-106.7	1,605.9	670.7	636.0	34.62	19.370	
9,310.0	9,238.6	9,243.1	9,238.9	27.9	7.4	89.82	-107.2	1,605.9	670.6	635.9	34.66	19.346	
9,400.0	9,328.6	9,333.0	9,328.7	28.2	7.5	90.18	-111.4	1,605.4	670.1	635.1	35.02	19.138	
9,405.0	9,333.6	9,338.0	9,333.7	28.2	7.5	90.20	-111.7	1,605.4	670.1	635.1	35.04	19.127	
9,500.0	9,428.6	9,432.9	9,428.5	28.5	7.5	90.59	-116.2	1,604.9	669.7	634.2	35.41	18.912	
9,595.0	9,523.6	9,527.7	9,523.3	28.8	7.5	90.97	-120.7	1,604.4	669.2	633.4	35.78	18.703	
9,600.0	9,528.6	9,532.7	9,528.2	28.8	7.5	90.99	-120.9	1,604.4	669.2	633.4	35.80	18.692	
9,690.0	9,618.6	9,622.6	9,618.0	29.1	7.6	91.36	-125.2	1,603.9	668.8	632.7	36.16	18.498	
9,700.0	9,628.6	9,632.6	9,628.0	29.2	7.6	91.40	-125.6	1,603.9	668.8	632.6	36.20	18.477	
9,785.0	9,713.6	9,717.5	9,712.8	29.4	7.6	91.75	-129.7	1,603.5	668.5	631.9	36.53	18.298	
9,800.0	9,728.6	9,732.5	9,727.8	29.5	7.6	91.81	-130.4	1,603.4	668.4	631.8	36.59	18.267	
9,880.0	9,808.6	9,812.4	9,807.6	29.7	7.6	92.13	-134.2	1,603.0	668.1	631.2	36.91	18.103	
9,900.0	9,828.6	9,832.4	9,827.6	29.8	7.6	92.22	-135.1	1,602.9	668.1	631.1	36.99	18.062	
9,975.0	9,903.6	9,907.3	9,902.4	30.0	7.7	92.52	-138.7	1,602.5	667.8	630.5	37.28	17.912	
10,000.0	9,928.6	9,932.3	9,927.3	30.1	7.7	92.62	-139.9	1,602.3	667.7	630.4	37.38	17.863	
10,070.0	9,998.6	10,002.2	9,997.2	30.3	7.7	92.91	-143.2	1,602.0	667.5	629.9	37.66	17.726	
10,100.0	10,028.6	10,032.2	10,027.1	30.4	7.7	93.03	-144.6	1,601.8	667.5	629.7	37.78	17.668	
10,118.9	10,047.5	10,051.0	10,045.9	30.5	7.7	93.11	-145.5	1,601.7	667.4	629.6	37.85	17.632	
10,125.0	10,053.6	10,057.1	10,052.0	30.5	7.7	93.34	-145.8	1,601.7	667.4	629.5	37.87	17.625	
10,138.6	10,067.3	10,070.7	10,065.6	30.5	7.8	93.43	-146.4	1,601.6	667.4	629.5	37.88	17.620 CC	
10,150.0	10,078.6	10,082.0	10,076.9	30.5	7.8	93.53	-147.0	1,601.6	667.4	629.5	37.88	17.617	
10,165.0	10,093.6	10,096.9	10,091.8	30.5	7.8	93.69	-147.7	1,601.5	667.4	629.5	37.90	17.612	
10,175.0	10,103.5	10,106.8	10,101.6	30.5	7.8	93.81	-148.1	1,601.4	667.5	629.6	37.91	17.610	
10,200.0	10,128.3	10,131.3	10,126.2	30.5	7.8	94.19	-149.3	1,601.3	667.7	629.8	37.93	17.605	
10,225.0	10,152.8	10,155.6	10,150.4	30.5	7.8	94.65	-150.5	1,601.2	668.0	630.1	37.95	17.603	
10,250.0	10,177.0	10,180.8	10,175.6	30.6	7.8	95.21	-151.5	1,601.1	668.5	630.6	37.97	17.609	
10,260.0	10,186.6	10,191.6	10,186.3	30.6	7.8	95.45	-151.7	1,601.0	668.8	630.8	37.97	17.614	
10,275.0	10,200.9	10,207.8	10,202.6	30.6	7.8	95.82	-151.6	1,600.9	669.2	631.2	37.97	17.624	
10,300.0	10,224.3	10,235.2	10,229.9	30.6	7.8	96.45	-150.4	1,600.8	669.9	631.9	37.96	17.645	
10,325.0	10,247.3	10,262.9	10,257.6	30.6	7.8	97.08	-147.9	1,600.6	670.7	632.7	37.96	17.668	
10,350.0	10,269.7	10,291.1	10,285.5	30.6	7.8	97.72	-143.9	1,600.4	671.6	633.6	37.96	17.694	
10,355.0	10,274.1	10,296.8	10,291.1	30.6	7.8	97.85	-143.0	1,600.4	671.8	633.8	37.95	17.700	
10,375.0	10,291.5	10,319.7	10,313.5	30.6	7.8	98.36	-138.5	1,600.3	672.6	634.7	37.95	17.722	
10,400.0	10,312.7	10,348.8	10,341.8	30.7	7.8	99.00	-131.6	1,600.1	673.7	635.8	37.95	17.751	
10,425.0	10,333.1	10,378.4	10,370.1	30.7	7.9	99.65	-123.1	1,599.9	674.9	637.0	37.96	17.781	
10,450.0	10,352.7	10,408.4	10,398.4	30.7	7.9	100.30	-112.9	1,599.7	676.2	638.3	37.97	17.811	
10,475.0	10,371.5	10,439.1	10,426.6	30.7	7.9	100.94	-101.1	1,599.5	677.6	639.7	37.98	17.840	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
10,500.0	10,389.4	10,470.3	10,454.7	30.7	7.9	101.59	-87.5	1,599.3	679.1	641.1	38.01	17.868	
10,525.0	10,406.4	10,502.1	10,482.5	30.7	8.0	102.23	-72.1	1,599.1	680.7	642.7	38.04	17.893	
10,545.0	10,419.3	10,528.0	10,504.5	30.8	8.0	102.74	-58.4	1,598.9	682.0	643.9	38.08	17.911	
10,550.0	10,422.4	10,534.5	10,510.0	30.8	8.0	102.87	-54.8	1,598.8	682.3	644.2	38.09	17.915	
10,575.0	10,437.4	10,567.6	10,536.9	30.8	8.0	103.50	-35.6	1,598.6	684.0	645.9	38.14	17.934	
10,600.0	10,451.3	10,601.4	10,563.2	30.8	8.1	104.12	-14.4	1,598.4	685.8	647.6	38.21	17.949	
10,625.0	10,464.1	10,635.8	10,588.7	30.8	8.1	104.73	8.7	1,598.1	687.5	649.3	38.29	17.958	
10,640.0	10,471.2	10,656.9	10,603.6	30.8	8.2	105.09	23.6	1,598.0	688.6	650.3	38.34	17.962	
10,650.0	10,475.7	10,671.0	10,613.3	30.8	8.2	105.33	33.9	1,597.9	689.4	651.0	38.38	17.962	
10,675.0	10,486.2	10,707.0	10,636.8	30.9	8.2	105.92	61.2	1,597.6	691.2	652.7	38.48	17.962	
10,700.0	10,495.4	10,743.7	10,658.9	30.9	8.3	106.49	90.4	1,597.4	693.0	654.4	38.59	17.956	
10,725.0	10,503.5	10,781.1	10,679.5	30.9	8.4	107.03	121.7	1,597.1	694.8	656.0	38.72	17.944	
10,735.0	10,506.4	10,796.3	10,687.3	30.9	8.4	107.25	134.8	1,597.0	695.5	656.7	38.77	17.938	
10,750.0	10,510.3	10,819.4	10,698.4	30.9	8.4	107.56	154.9	1,596.9	696.5	657.6	38.85	17.927	
10,775.0	10,515.8	10,858.4	10,715.3	30.9	8.5	108.06	190.1	1,596.6	698.2	659.2	38.99	17.906	
10,800.0	10,520.0	10,898.1	10,730.1	31.0	8.5	108.52	226.9	1,596.4	699.8	660.6	39.14	17.879	
10,825.0	10,523.0	10,938.6	10,742.4	31.0	8.6	108.96	265.4	1,596.1	701.3	662.0	39.29	17.847	
10,830.0	10,523.4	10,946.7	10,744.6	31.0	8.6	109.04	273.3	1,596.1	701.6	662.2	39.33	17.840	
10,850.0	10,524.6	10,979.7	10,752.2	31.0	8.7	109.35	305.4	1,595.9	702.7	663.2	39.45	17.810	
10,868.9	10,525.0	11,011.2	10,757.7	31.0	8.8	109.62	336.4	1,595.7	703.6	664.0	39.58	17.779	
10,900.0	10,525.0	11,063.9	10,763.1	31.0	9.0	110.04	388.9	1,595.4	704.7	664.9	39.78	17.716	
10,925.0	10,525.0	11,102.0	10,764.0	31.1	9.2	110.11	426.9	1,595.3	704.8	664.9	39.92	17.655	
11,000.0	10,525.0	11,177.0	10,764.1	31.1	9.5	110.12	501.9	1,594.9	704.8	664.5	40.27	17.504	
11,020.0	10,525.0	11,197.0	10,764.2	31.1	9.6	110.12	521.9	1,594.8	704.8	664.4	40.36	17.461	
11,100.0	10,525.0	11,277.0	10,764.3	31.2	10.0	110.14	601.9	1,594.5	704.7	664.0	40.79	17.280	
11,115.0	10,525.0	11,292.0	10,764.3	31.2	10.1	110.14	616.9	1,594.4	704.7	663.9	40.87	17.244	
11,200.0	10,525.0	11,377.0	10,764.5	31.3	10.5	110.15	701.9	1,594.0	704.7	663.3	41.37	17.034	
11,210.0	10,525.0	11,387.0	10,764.5	31.3	10.6	110.15	711.9	1,594.0	704.7	663.3	41.43	17.008	
11,300.0	10,525.0	11,477.0	10,764.7	31.5	11.1	110.17	801.9	1,593.6	704.7	662.7	42.02	16.771	
11,305.0	10,525.0	11,482.0	10,764.7	31.5	11.2	110.17	806.9	1,593.5	704.7	662.6	42.05	16.757	
11,400.0	10,525.0	11,577.0	10,764.8	31.6	11.7	110.18	901.9	1,593.1	704.6	661.9	42.72	16.494	
11,495.0	10,525.0	11,672.0	10,765.0	31.8	12.4	110.20	996.9	1,592.7	704.6	661.2	43.44	16.222	
11,500.0	10,525.0	11,677.0	10,765.0	31.8	12.4	110.20	1,001.9	1,592.6	704.6	661.1	43.47	16.207	
11,590.0	10,525.0	11,767.0	10,765.2	32.0	13.0	110.22	1,091.9	1,592.2	704.6	660.4	44.19	15.942	
11,600.0	10,525.0	11,777.0	10,765.2	32.0	13.1	110.22	1,101.9	1,592.2	704.6	660.3	44.28	15.913	
11,685.0	10,525.0	11,862.0	10,765.3	32.2	13.6	110.23	1,186.9	1,591.8	704.5	659.5	44.99	15.659	
11,700.0	10,525.0	11,877.0	10,765.3	32.2	13.7	110.23	1,201.9	1,591.7	704.5	659.4	45.12	15.614	
11,780.0	10,525.0	11,957.0	10,765.5	32.4	14.3	110.25	1,281.9	1,591.4	704.5	658.7	45.83	15.373	
11,800.0	10,525.0	11,977.0	10,765.5	32.4	14.5	110.25	1,301.9	1,591.3	704.5	658.5	46.01	15.313	
11,875.0	10,525.0	12,052.0	10,765.6	32.6	15.0	110.26	1,376.9	1,590.9	704.4	657.8	46.70	15.086	
11,900.0	10,525.0	12,077.0	10,765.7	32.7	15.2	110.26	1,401.9	1,590.8	704.4	657.5	46.93	15.011	
11,970.0	10,525.0	12,147.0	10,765.8	32.8	15.7	110.28	1,471.9	1,590.5	704.4	656.8	47.60	14.800	
12,000.0	10,525.0	12,177.0	10,765.9	32.9	15.9	110.28	1,501.9	1,590.4	704.4	656.5	47.89	14.710	
12,065.0	10,525.0	12,242.0	10,766.0	33.1	16.4	110.29	1,566.9	1,590.1	704.4	655.8	48.53	14.515	
12,100.0	10,525.0	12,277.0	10,766.0	33.2	16.7	110.30	1,601.9	1,589.9	704.4	655.5	48.87	14.412	
12,160.0	10,525.0	12,337.0	10,766.1	33.4	17.1	110.31	1,661.9	1,589.6	704.3	654.9	49.48	14.234	
12,200.0	10,525.0	12,377.0	10,766.2	33.5	17.4	110.31	1,701.9	1,589.4	704.3	654.4	49.89	14.117	
12,255.0	10,525.0	12,432.0	10,766.3	33.7	17.9	110.32	1,756.9	1,589.2	704.3	653.8	50.47	13.956	
12,300.0	10,525.0	12,477.0	10,766.4	33.8	18.2	110.33	1,801.9	1,589.0	704.3	653.3	50.94	13.826	
12,350.0	10,525.0	12,527.0	10,766.5	34.0	18.6	110.34	1,851.9	1,588.8	704.3	652.8	51.47	13.682	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
12,400.0	10,525.0	12,577.0	10,766.6	34.1	19.0	110.35	1,901.9	1,588.5	704.2	652.2	52.01	13.540	
12,445.0	10,525.0	12,622.0	10,766.6	34.3	19.3	110.35	1,946.9	1,588.3	704.2	651.7	52.50	13.413	
12,500.0	10,525.0	12,677.0	10,766.7	34.5	19.8	110.36	2,001.9	1,588.1	704.2	651.1	53.11	13.260	
12,540.0	10,525.0	12,717.0	10,766.8	34.6	20.1	110.37	2,041.9	1,587.9	704.2	650.6	53.56	13.149	
12,600.0	10,525.0	12,777.0	10,766.9	34.8	20.6	110.38	2,101.9	1,587.6	704.2	649.9	54.23	12.985	
12,635.0	10,525.0	12,812.0	10,767.0	35.0	20.8	110.38	2,136.9	1,587.5	704.2	649.5	54.63	12.890	
12,700.0	10,525.0	12,877.0	10,767.1	35.2	21.4	110.39	2,201.9	1,587.2	704.1	648.8	55.37	12.717	
12,730.0	10,525.0	12,907.0	10,767.1	35.3	21.6	110.40	2,231.9	1,587.0	704.1	648.4	55.72	12.638	
12,800.0	10,525.0	12,977.0	10,767.2	35.6	22.2	110.41	2,301.9	1,586.7	704.1	647.6	56.53	12.455	
12,825.0	10,525.0	13,002.0	10,767.3	35.7	22.4	110.41	2,326.9	1,586.6	704.1	647.3	56.82	12.390	
12,900.0	10,525.0	13,077.0	10,767.4	36.0	23.0	110.43	2,401.9	1,586.2	704.1	646.3	57.71	12.200	
12,920.0	10,525.0	13,097.0	10,767.4	36.0	23.1	110.43	2,421.9	1,586.2	704.1	646.1	57.95	12.149	
13,000.0	10,525.0	13,177.0	10,767.6	36.4	23.8	110.44	2,501.9	1,585.8	704.0	645.1	58.91	11.951	
13,015.0	10,525.0	13,192.0	10,767.6	36.4	23.9	110.44	2,516.9	1,585.7	704.0	644.9	59.09	11.914	
13,100.0	10,525.0	13,277.0	10,767.8	36.8	24.6	110.46	2,601.9	1,585.3	704.0	643.9	60.12	11.709	
13,110.0	10,525.0	13,287.0	10,767.8	36.8	24.7	110.46	2,611.9	1,585.3	704.0	643.7	60.25	11.685	
13,200.0	10,525.0	13,377.0	10,767.9	37.2	25.4	110.47	2,701.9	1,584.9	703.9	642.6	61.36	11.473	
13,205.0	10,525.0	13,382.0	10,767.9	37.2	25.5	110.48	2,706.9	1,584.9	703.9	642.5	61.42	11.462	
13,300.0	10,525.0	13,477.0	10,768.1	37.7	26.2	110.49	2,801.8	1,584.4	703.9	641.3	62.60	11.244	
13,395.0	10,525.0	13,572.0	10,768.3	38.1	27.0	110.51	2,896.8	1,584.0	703.9	640.1	63.80	11.033	
13,400.0	10,525.0	13,577.0	10,768.3	38.1	27.1	110.51	2,901.8	1,584.0	703.9	640.0	63.86	11.022	
13,490.0	10,525.0	13,667.0	10,768.4	38.5	27.8	110.52	2,991.8	1,583.5	703.8	638.8	65.01	10.827	
13,500.0	10,525.0	13,677.0	10,768.4	38.6	27.9	110.52	3,001.8	1,583.5	703.8	638.7	65.14	10.806	
13,585.0	10,525.0	13,762.0	10,768.6	39.0	28.6	110.54	3,086.8	1,583.1	703.8	637.6	66.23	10.627	
13,600.0	10,525.0	13,777.0	10,768.6	39.0	28.7	110.54	3,101.8	1,583.0	703.8	637.4	66.42	10.596	
13,680.0	10,525.0	13,857.0	10,768.8	39.4	29.4	110.55	3,181.8	1,582.7	703.8	636.3	67.46	10.432	
13,700.0	10,525.0	13,877.0	10,768.8	39.5	29.5	110.55	3,201.8	1,582.6	703.8	636.0	67.72	10.392	
13,775.0	10,525.0	13,952.0	10,768.9	39.9	30.2	110.57	3,276.8	1,582.2	703.7	635.0	68.71	10.243	
13,800.0	10,525.0	13,977.0	10,769.0	40.0	30.4	110.57	3,301.8	1,582.1	703.7	634.7	69.03	10.194	
13,870.0	10,525.0	14,047.0	10,769.1	40.4	31.0	110.58	3,371.8	1,581.8	703.7	633.7	69.96	10.058	
13,900.0	10,525.0	14,077.0	10,769.1	40.5	31.2	110.59	3,401.8	1,581.7	703.7	633.3	70.36	10.002	
13,965.0	10,525.0	14,142.0	10,769.2	40.8	31.8	110.60	3,466.8	1,581.4	703.7	632.4	71.22	9.880	
14,000.0	10,525.0	14,177.0	10,769.3	41.0	32.0	110.60	3,501.8	1,581.2	703.6	632.0	71.69	9.815	
14,060.0	10,525.0	14,237.0	10,769.4	41.3	32.5	110.61	3,561.8	1,580.9	703.6	631.1	72.50	9.706	
14,100.0	10,525.0	14,277.0	10,769.5	41.5	32.9	110.62	3,601.8	1,580.8	703.6	630.6	73.03	9.634	
14,155.0	10,525.0	14,332.0	10,769.6	41.8	33.3	110.63	3,656.8	1,580.5	703.6	629.8	73.78	9.537	
14,200.0	10,525.0	14,377.0	10,769.7	42.0	33.7	110.64	3,701.8	1,580.3	703.6	629.2	74.39	9.458	
14,250.0	10,525.0	14,427.0	10,769.7	42.3	34.1	110.64	3,751.8	1,580.1	703.6	628.5	75.07	9.372	
14,300.0	10,525.0	14,477.0	10,769.8	42.6	34.6	110.65	3,801.8	1,579.8	703.5	627.8	75.75	9.288	
14,345.0	10,525.0	14,522.0	10,769.9	42.8	34.9	110.66	3,846.8	1,579.6	703.5	627.2	76.36	9.213	
14,400.0	10,525.0	14,577.0	10,770.0	43.1	35.4	110.67	3,901.8	1,579.4	703.5	626.4	77.12	9.122	
14,440.0	10,525.0	14,617.0	10,770.1	43.3	35.7	110.67	3,941.8	1,579.2	703.5	625.8	77.67	9.057	
14,500.0	10,525.0	14,677.0	10,770.2	43.6	36.2	110.68	4,001.8	1,578.9	703.5	625.0	78.50	8.961	
14,535.0	10,525.0	14,712.0	10,770.2	43.8	36.5	110.69	4,036.8	1,578.8	703.4	624.5	78.98	8.906	
14,600.0	10,525.0	14,777.0	10,770.3	44.2	37.1	110.70	4,101.8	1,578.5	703.4	623.5	79.89	8.805	
14,630.0	10,525.0	14,807.0	10,770.4	44.4	37.3	110.70	4,131.8	1,578.3	703.4	623.1	80.30	8.759	
14,700.0	10,525.0	14,877.0	10,770.5	44.8	37.9	110.72	4,201.8	1,578.0	703.4	622.1	81.28	8.654	
14,725.0	10,525.0	14,902.0	10,770.6	44.9	38.1	110.72	4,226.8	1,577.9	703.4	621.7	81.63	8.617	
14,800.0	10,525.0	14,977.0	10,770.7	45.3	38.8	110.73	4,301.8	1,577.6	703.3	620.7	82.68	8.507	
14,820.0	10,525.0	14,997.0	10,770.7	45.4	38.9	110.74	4,321.8	1,577.5	703.3	620.4	82.96	8.478	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.0	10,525.0	15,077.0	10,770.9	45.9	39.6	110.75	4,401.8	1,577.1	703.3	619.2	84.09	8.364	
14,915.0	10,525.0	15,092.0	10,770.9	46.0	39.7	110.75	4,416.8	1,577.0	703.3	619.0	84.30	8.343	
15,000.0	10,525.0	15,177.0	10,771.0	46.5	40.5	110.76	4,501.8	1,576.7	703.3	617.8	85.51	8.225	
15,010.0	10,525.0	15,187.0	10,771.0	46.5	40.5	110.77	4,511.8	1,576.6	703.3	617.6	85.65	8.211	
15,100.0	10,525.0	15,277.0	10,771.2	47.0	41.3	110.78	4,601.8	1,576.2	703.2	616.3	86.93	8.090	
15,105.0	10,525.0	15,282.0	10,771.2	47.1	41.4	110.78	4,606.8	1,576.2	703.2	616.2	87.00	8.083	
15,200.0	10,525.0	15,377.0	10,771.4	47.6	42.2	110.80	4,701.8	1,575.7	703.2	614.8	88.36	7.959	
15,295.0	10,525.0	15,472.0	10,771.5	48.2	43.0	110.81	4,796.8	1,575.3	703.2	613.4	89.72	7.837	
15,300.0	10,525.0	15,477.0	10,771.5	48.2	43.0	110.81	4,801.8	1,575.3	703.2	613.4	89.79	7.831	
15,390.0	10,525.0	15,567.0	10,771.7	48.7	43.8	110.83	4,891.8	1,574.9	703.1	612.0	91.09	7.719	
15,400.0	10,525.0	15,577.0	10,771.7	48.8	43.9	110.83	4,901.8	1,574.8	703.1	611.9	91.23	7.707	
15,485.0	10,525.0	15,662.0	10,771.9	49.3	44.6	110.84	4,986.8	1,574.4	703.1	610.6	92.46	7.605	
15,500.0	10,525.0	15,677.0	10,771.9	49.4	44.7	110.85	5,001.8	1,574.4	703.1	610.4	92.67	7.587	
15,580.0	10,525.0	15,757.0	10,772.0	49.9	45.4	110.86	5,081.8	1,574.0	703.1	609.2	93.83	7.493	
15,600.0	10,525.0	15,777.0	10,772.1	50.0	45.6	110.86	5,101.8	1,573.9	703.1	608.9	94.12	7.469	
15,675.0	10,525.0	15,852.0	10,772.2	50.5	46.2	110.87	5,176.8	1,573.6	703.0	607.8	95.22	7.384	
15,700.0	10,525.0	15,877.0	10,772.2	50.6	46.4	110.88	5,201.8	1,573.5	703.0	607.4	95.58	7.355	
15,770.0	10,525.0	15,947.0	10,772.4	51.0	47.0	110.89	5,271.8	1,573.1	703.0	606.4	96.60	7.277	
15,800.0	10,525.0	15,977.0	10,772.4	51.2	47.3	110.89	5,301.8	1,573.0	703.0	605.9	97.04	7.244	
15,865.0	10,525.0	16,042.0	10,772.5	51.6	47.8	110.90	5,366.8	1,572.7	703.0	605.0	97.99	7.174	
15,900.0	10,525.0	16,077.0	10,772.6	51.8	48.1	110.91	5,401.8	1,572.5	702.9	604.4	98.50	7.136	
15,960.0	10,525.0	16,137.0	10,772.7	52.2	48.6	110.92	5,461.8	1,572.3	702.9	603.5	99.38	7.073	
16,000.0	10,525.0	16,177.0	10,772.8	52.5	49.0	110.93	5,501.8	1,572.1	702.9	602.9	99.97	7.031	
16,055.0	10,525.0	16,232.0	10,772.8	52.8	49.4	110.93	5,556.8	1,571.8	702.9	602.1	100.78	6.974	
16,100.0	10,525.0	16,277.0	10,772.9	53.1	49.8	110.94	5,601.8	1,571.6	702.9	601.4	101.44	6.929	
16,150.0	10,525.0	16,327.0	10,773.0	53.4	50.2	110.95	5,651.8	1,571.4	702.9	600.7	102.18	6.878	
16,200.0	10,525.0	16,377.0	10,773.1	53.7	50.7	110.96	5,701.8	1,571.2	702.8	599.9	102.92	6.829	
16,245.0	10,525.0	16,422.0	10,773.2	54.0	51.0	110.97	5,746.8	1,571.0	702.8	599.2	103.59	6.785	
16,300.0	10,525.0	16,477.0	10,773.3	54.3	51.5	110.97	5,801.8	1,570.7	702.8	598.4	104.40	6.732	
16,340.0	10,525.0	16,517.0	10,773.3	54.6	51.9	110.98	5,841.8	1,570.5	702.8	597.8	105.00	6.693	
16,400.0	10,525.0	16,577.0	10,773.4	55.0	52.4	110.99	5,901.8	1,570.3	702.8	596.9	105.89	6.637	
16,435.0	10,525.0	16,612.0	10,773.5	55.2	52.7	111.00	5,936.8	1,570.1	702.8	596.3	106.41	6.604	
16,500.0	10,525.0	16,677.0	10,773.6	55.6	53.2	111.01	6,001.8	1,569.8	702.7	595.4	107.37	6.545	
16,530.0	10,525.0	16,707.0	10,773.7	55.8	53.5	111.01	6,031.8	1,569.7	702.7	594.9	107.82	6.517	
16,600.0	10,525.0	16,777.0	10,773.8	56.3	54.1	111.02	6,101.8	1,569.3	702.7	593.8	108.87	6.455	
16,625.0	10,525.0	16,802.0	10,773.8	56.4	54.3	111.03	6,126.8	1,569.2	702.7	593.4	109.24	6.433	
16,700.0	10,525.0	16,877.0	10,774.0	56.9	54.9	111.04	6,201.8	1,568.9	702.7	592.3	110.36	6.367	
16,720.0	10,525.0	16,897.0	10,774.0	57.0	55.1	111.04	6,221.8	1,568.8	702.7	592.0	110.66	6.350	
16,800.0	10,525.0	16,977.0	10,774.1	57.5	55.8	111.06	6,301.8	1,568.4	702.6	590.8	111.86	6.281	
16,815.0	10,525.0	16,992.0	10,774.2	57.6	55.9	111.06	6,316.8	1,568.4	702.6	590.5	112.08	6.269	
16,900.0	10,525.0	17,077.0	10,774.3	58.2	56.6	111.07	6,401.8	1,568.0	702.6	589.2	113.36	6.198	
16,910.0	10,525.0	17,087.0	10,774.3	58.3	56.7	111.07	6,411.8	1,567.9	702.6	589.1	113.51	6.190	
17,000.0	10,525.0	17,177.0	10,774.5	58.8	57.5	111.09	6,501.8	1,567.5	702.6	587.7	114.86	6.116	
17,005.0	10,525.0	17,182.0	10,774.5	58.9	57.5	111.09	6,506.8	1,567.5	702.6	587.6	114.94	6.112	
17,100.0	10,525.0	17,277.0	10,774.6	59.5	58.3	111.10	6,601.8	1,567.1	702.5	586.1	116.37	6.037	
17,195.0	10,525.0	17,372.0	10,774.8	60.1	59.2	111.12	6,696.8	1,566.6	702.5	584.7	117.81	5.963	
17,200.0	10,525.0	17,377.0	10,774.8	60.2	59.2	111.12	6,701.8	1,566.6	702.5	584.6	117.88	5.959	
17,290.0	10,525.0	17,467.0	10,775.0	60.8	60.0	111.13	6,791.8	1,566.2	702.4	583.2	119.24	5.891	
17,300.0	10,525.0	17,477.0	10,775.0	60.8	60.1	111.14	6,801.8	1,566.1	702.4	583.1	119.39	5.883	
17,385.0	10,525.0	17,562.0	10,775.1	61.4	60.8	111.15	6,886.8	1,565.8	702.4	581.7	120.68	5.820	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-Standard Keeper 104, 10169-MWD+IFR1+FDIR											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis					Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor				
17,400.0	10,525.0	17,577.0	10,775.2	61.5	60.9	111.15	6,901.8	1,565.7	702.4	581.5	120.91	5.809				
17,480.0	10,525.0	17,657.0	10,775.3	62.0	61.6	111.17	6,981.8	1,565.3	702.4	580.3	122.12	5.751				
17,500.0	10,525.0	17,677.0	10,775.3	62.2	61.8	111.17	7,001.8	1,565.2	702.4	579.9	122.43	5.737				
17,575.0	10,525.0	17,752.0	10,775.5	62.7	62.4	111.18	7,076.8	1,564.9	702.3	578.8	123.57	5.684				
17,600.0	10,525.0	17,777.0	10,775.5	62.8	62.6	111.18	7,101.8	1,564.8	702.3	578.4	123.95	5.667				
17,670.0	10,525.0	17,847.0	10,775.6	63.3	63.2	111.20	7,171.8	1,564.5	702.3	577.3	125.01	5.618				
17,700.0	10,525.0	17,877.0	10,775.7	63.5	63.5	111.20	7,201.8	1,564.3	702.3	576.8	125.47	5.597				
17,765.0	10,525.0	17,942.0	10,775.8	63.9	64.0	111.21	7,266.8	1,564.0	702.3	575.8	126.46	5.553				
17,800.0	10,525.0	17,977.0	10,775.9	64.2	64.3	111.22	7,301.8	1,563.9	702.3	575.3	126.99	5.530				
17,860.0	10,525.0	18,037.0	10,776.0	64.6	64.9	111.23	7,361.8	1,563.6	702.2	574.3	127.91	5.490				
17,900.0	10,525.0	18,077.0	10,776.0	64.8	65.2	111.23	7,401.8	1,563.4	702.2	573.7	128.52	5.464				
17,955.0	10,525.0	18,132.0	10,776.1	65.2	65.7	111.24	7,456.8	1,563.1	702.2	572.9	129.36	5.428				
18,000.0	10,525.0	18,177.0	10,776.2	65.5	66.1	111.25	7,501.8	1,562.9	702.2	572.2	130.05	5.400				
18,050.0	10,525.0	18,227.0	10,776.3	65.8	66.5	111.26	7,551.8	1,562.7	702.2	571.4	130.81	5.368				
18,100.0	10,525.0	18,277.0	10,776.4	66.2	66.9	111.27	7,601.8	1,562.5	702.2	570.6	131.58	5.336				
18,110.8	10,525.0	18,287.7	10,776.4	66.3	67.0	111.27	7,612.6	1,562.4	702.2	570.4	131.74	5.330				
18,145.0	10,525.0	18,322.0	10,776.4	66.5	67.3	111.27	7,646.8	1,562.3	702.1	569.9	132.27	5.309				
18,160.8	10,525.0	18,337.7	10,776.5	66.6	67.4	111.28	7,662.5	1,562.2	702.1	569.6	132.51	5.299 ES, SF				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3672.9usft

Offset Depths are relative to Offset Datum

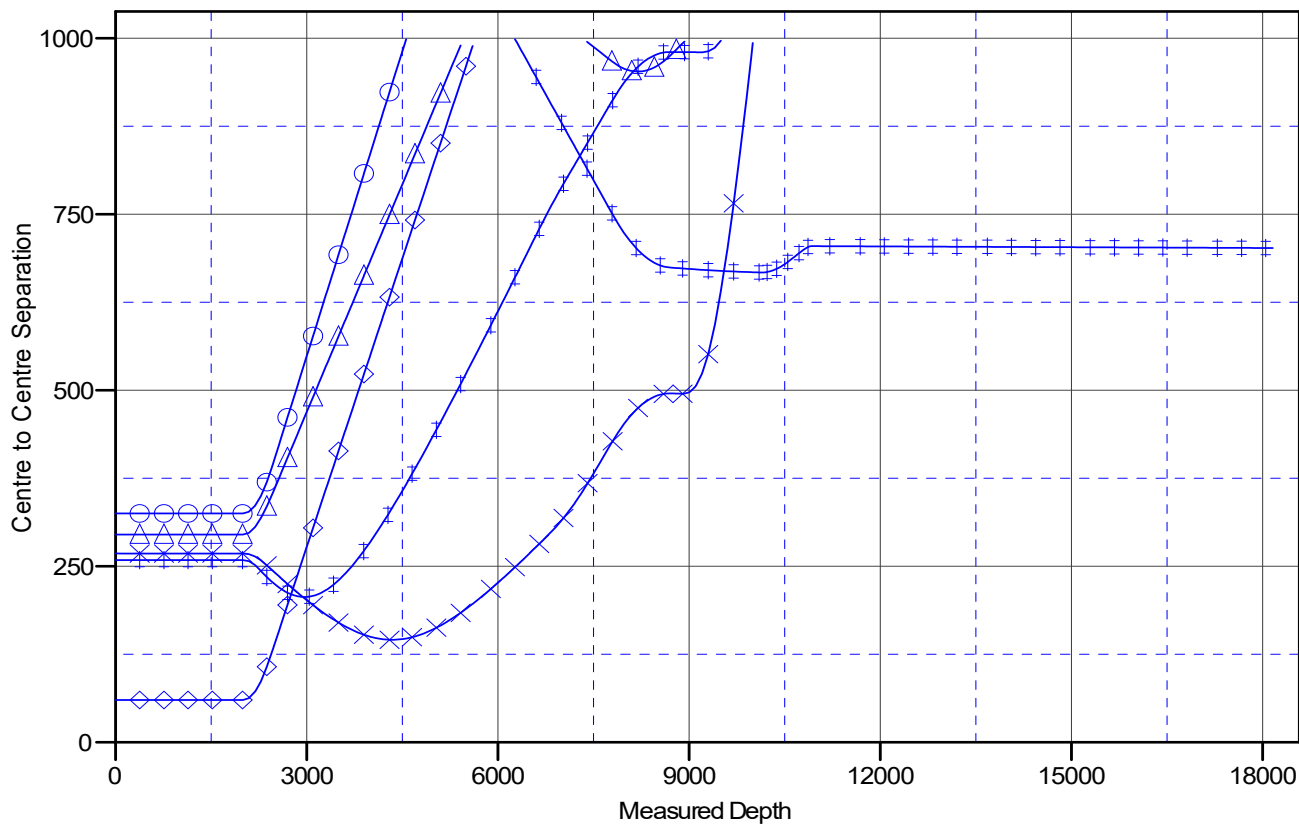
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #501H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

GIN AND TECTONIC FEDERAL COM #202H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #302H, OWB, PWP0 V0	MASTIFF FEDERAL COM 406H OWB, PWP0 V0
GIN AND TECTONIC FEDERAL COM #203H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #503H, OWB, PWP0 V0	
GIN AND TECTONIC FEDERAL COM #301H, OWB, PWP0 V0	MASTIFF FEDERAL COM 312H OWB, PWP0 V0	

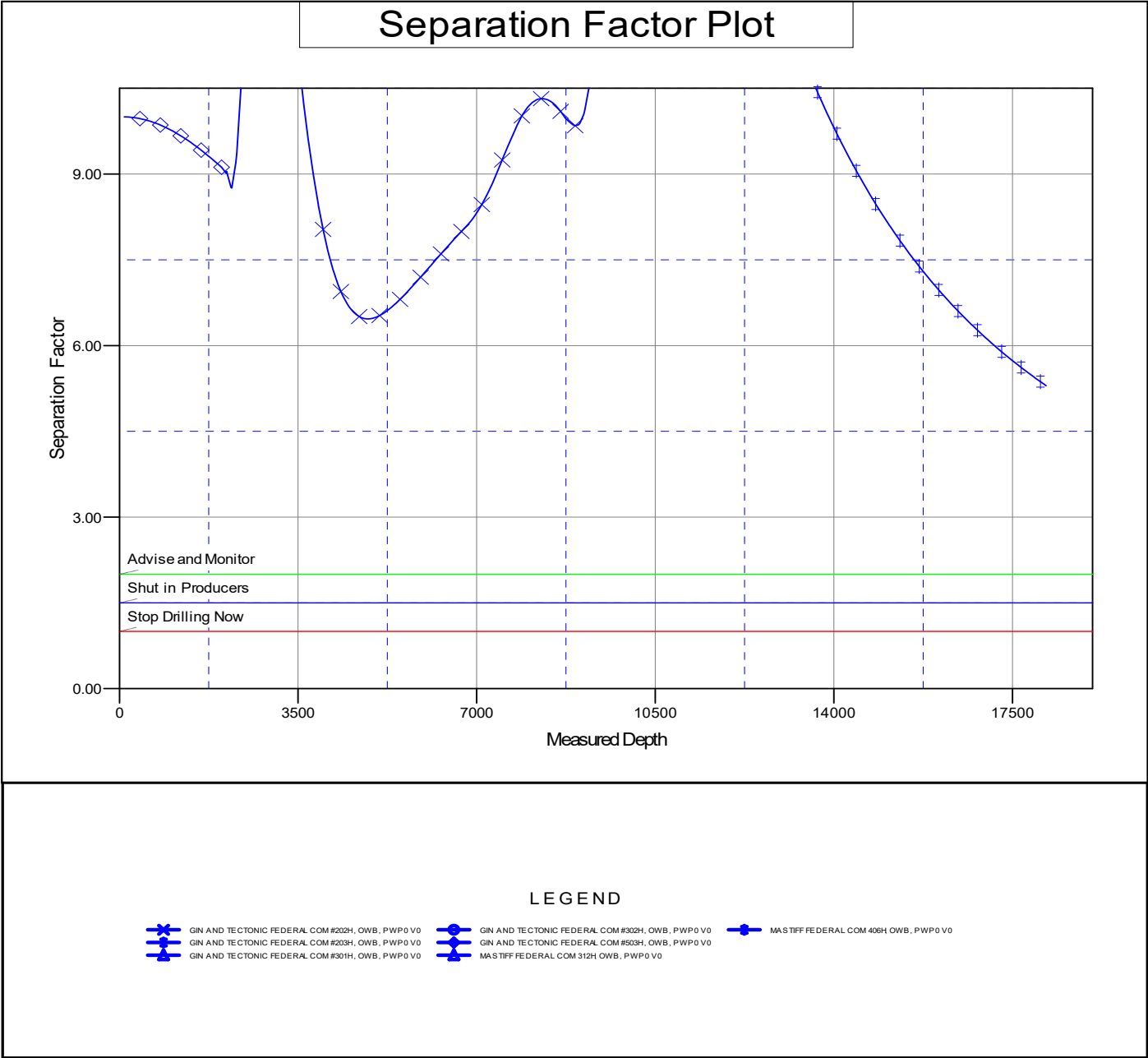
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3672.9usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #501H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.34°



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #501H

300254842800

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #501H		
Well Position	+N/-S	278.4 usft	Northing:
	+E/-W	4,039.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 14' 23.132 N
		Longitude:	103° 41' 30.514 W
		Ground Level:	3,642.9 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.53	59.88	47,612.67316444

Design	PWP0				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	6.76	

Plan Survey Tool Program		Date	5/24/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1	
2	2,000.0	10,118.9 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,118.9	18,160.8 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	2.00	2.00	0.00	96.67	
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	0.00	0.00	0.00	0.00	
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.00	-1.00	0.00	180.00	
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	0.00	0.00	0.00	0.00	
10,868.9	90.00	359.80	10,525.0	368.2	933.6	12.00	12.00	-0.03	359.80	
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	0.00	0.00	0.00	0.00	LTP (GIN AND TECTONIC)
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	0.00	0.00	0.00	0.00	PBHL (GIN AND TECTONIC)

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	96.67	2,100.0	-0.2	1.7	0.0	2.00	2.00	0.00
2,200.0	4.00	96.67	2,199.8	-0.8	6.9	0.0	2.00	2.00	0.00
2,300.0	6.00	96.67	2,299.5	-1.8	15.6	0.0	2.00	2.00	0.00
2,400.0	8.00	96.67	2,398.7	-3.2	27.7	0.0	2.00	2.00	0.00
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	0.1	2.00	2.00	0.00
Start 5340.9 hold at 2450.2 MD									
2,500.0	9.00	96.67	2,497.5	-5.0	42.8	0.1	0.00	0.00	0.00
2,600.0	9.00	96.67	2,596.3	-6.8	58.3	0.1	0.00	0.00	0.00
2,700.0	9.00	96.67	2,695.1	-8.6	73.9	0.1	0.00	0.00	0.00
2,800.0	9.00	96.67	2,793.8	-10.5	89.4	0.1	0.00	0.00	0.00
2,900.0	9.00	96.67	2,892.6	-12.3	105.0	0.2	0.00	0.00	0.00
3,000.0	9.00	96.67	2,991.4	-14.1	120.5	0.2	0.00	0.00	0.00
3,100.0	9.00	96.67	3,090.1	-15.9	136.1	0.2	0.00	0.00	0.00
3,200.0	9.00	96.67	3,188.9	-17.7	151.6	0.3	0.00	0.00	0.00
3,300.0	9.00	96.67	3,287.7	-19.5	167.1	0.3	0.00	0.00	0.00
3,400.0	9.00	96.67	3,386.4	-21.3	182.7	0.3	0.00	0.00	0.00
3,500.0	9.00	96.67	3,485.2	-23.2	198.2	0.3	0.00	0.00	0.00
3,600.0	9.00	96.67	3,584.0	-25.0	213.8	0.4	0.00	0.00	0.00
3,700.0	9.00	96.67	3,682.8	-26.8	229.3	0.4	0.00	0.00	0.00
3,800.0	9.00	96.67	3,781.5	-28.6	244.9	0.4	0.00	0.00	0.00
3,900.0	9.00	96.67	3,880.3	-30.4	260.4	0.4	0.00	0.00	0.00
4,000.0	9.00	96.67	3,979.1	-32.2	275.9	0.5	0.00	0.00	0.00
4,100.0	9.00	96.67	4,077.8	-34.1	291.5	0.5	0.00	0.00	0.00
4,200.0	9.00	96.67	4,176.6	-35.9	307.0	0.5	0.00	0.00	0.00
4,300.0	9.00	96.67	4,275.4	-37.7	322.6	0.5	0.00	0.00	0.00
4,400.0	9.00	96.67	4,374.1	-39.5	338.1	0.6	0.00	0.00	0.00
4,500.0	9.00	96.67	4,472.9	-41.3	353.7	0.6	0.00	0.00	0.00
4,600.0	9.00	96.67	4,571.7	-43.1	369.2	0.6	0.00	0.00	0.00
4,700.0	9.00	96.67	4,670.4	-45.0	384.7	0.6	0.00	0.00	0.00
4,800.0	9.00	96.67	4,769.2	-46.8	400.3	0.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	9.00	96.67	4,868.0	-48.6	415.8	0.7	0.00	0.00	0.00
5,000.0	9.00	96.67	4,966.7	-50.4	431.4	0.7	0.00	0.00	0.00
5,100.0	9.00	96.67	5,065.5	-52.2	446.9	0.7	0.00	0.00	0.00
5,200.0	9.00	96.67	5,164.3	-54.0	462.5	0.8	0.00	0.00	0.00
5,300.0	9.00	96.67	5,263.0	-55.9	478.0	0.8	0.00	0.00	0.00
5,400.0	9.00	96.67	5,361.8	-57.7	493.5	0.8	0.00	0.00	0.00
5,500.0	9.00	96.67	5,460.6	-59.5	509.1	0.8	0.00	0.00	0.00
5,600.0	9.00	96.67	5,559.3	-61.3	524.6	0.9	0.00	0.00	0.00
5,700.0	9.00	96.67	5,658.1	-63.1	540.2	0.9	0.00	0.00	0.00
5,800.0	9.00	96.67	5,756.9	-64.9	555.7	0.9	0.00	0.00	0.00
5,900.0	9.00	96.67	5,855.6	-66.8	571.3	0.9	0.00	0.00	0.00
6,000.0	9.00	96.67	5,954.4	-68.6	586.8	1.0	0.00	0.00	0.00
6,100.0	9.00	96.67	6,053.2	-70.4	602.4	1.0	0.00	0.00	0.00
6,200.0	9.00	96.67	6,152.0	-72.2	617.9	1.0	0.00	0.00	0.00
6,300.0	9.00	96.67	6,250.7	-74.0	633.4	1.0	0.00	0.00	0.00
6,400.0	9.00	96.67	6,349.5	-75.8	649.0	1.1	0.00	0.00	0.00
6,500.0	9.00	96.67	6,448.3	-77.7	664.5	1.1	0.00	0.00	0.00
6,600.0	9.00	96.67	6,547.0	-79.5	680.1	1.1	0.00	0.00	0.00
6,700.0	9.00	96.67	6,645.8	-81.3	695.6	1.1	0.00	0.00	0.00
6,800.0	9.00	96.67	6,744.6	-83.1	711.2	1.2	0.00	0.00	0.00
6,900.0	9.00	96.67	6,843.3	-84.9	726.7	1.2	0.00	0.00	0.00
7,000.0	9.00	96.67	6,942.1	-86.7	742.2	1.2	0.00	0.00	0.00
7,100.0	9.00	96.67	7,040.9	-88.6	757.8	1.3	0.00	0.00	0.00
7,200.0	9.00	96.67	7,139.6	-90.4	773.3	1.3	0.00	0.00	0.00
7,300.0	9.00	96.67	7,238.4	-92.2	788.9	1.3	0.00	0.00	0.00
7,400.0	9.00	96.67	7,337.2	-94.0	804.4	1.3	0.00	0.00	0.00
7,500.0	9.00	96.67	7,435.9	-95.8	820.0	1.4	0.00	0.00	0.00
7,600.0	9.00	96.67	7,534.7	-97.6	835.5	1.4	0.00	0.00	0.00
7,700.0	9.00	96.67	7,633.5	-99.5	851.0	1.4	0.00	0.00	0.00
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	1.4	0.00	0.00	0.00
Start Drop -1.00									
7,800.0	8.91	96.67	7,732.2	-101.3	866.6	1.4	1.00	-1.00	0.00
7,900.0	7.91	96.67	7,831.2	-103.0	881.1	1.5	1.00	-1.00	0.00
8,000.0	6.91	96.67	7,930.3	-104.5	893.9	1.5	1.00	-1.00	0.00
8,100.0	5.91	96.67	8,029.7	-105.8	905.0	1.5	1.00	-1.00	0.00
8,200.0	4.91	96.67	8,129.3	-106.9	914.4	1.5	1.00	-1.00	0.00
8,300.0	3.91	96.67	8,229.0	-107.7	922.0	1.5	1.00	-1.00	0.00
8,400.0	2.91	96.67	8,328.8	-108.4	927.9	1.5	1.00	-1.00	0.00
8,500.0	1.91	96.67	8,428.7	-108.9	932.1	1.5	1.00	-1.00	0.00
8,600.0	0.91	96.67	8,528.7	-109.2	934.6	1.5	1.00	-1.00	0.00
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.5	1.00	-1.00	0.00
Start 1427.5 hold at 8691.4 MD									
8,700.0	0.00	0.00	8,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,128.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,228.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,328.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,428.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,528.6	-109.3	935.3	1.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	0.00	0.00	9,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	1.5	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,125.0	0.73	359.80	10,053.6	-109.3	935.3	1.6	12.00	12.00	0.00
10,150.0	3.73	359.80	10,078.6	-108.3	935.3	2.6	12.00	12.00	0.00
10,175.0	6.73	359.80	10,103.5	-106.0	935.3	4.8	12.00	12.00	0.00
10,200.0	9.73	359.80	10,128.3	-102.4	935.3	8.4	12.00	12.00	0.00
10,225.0	12.73	359.80	10,152.8	-97.6	935.3	13.2	12.00	12.00	0.00
10,250.0	15.73	359.80	10,177.0	-91.4	935.2	19.3	12.00	12.00	0.00
10,275.0	18.73	359.80	10,200.9	-84.0	935.2	26.7	12.00	12.00	0.00
10,300.0	21.73	359.80	10,224.3	-75.4	935.2	35.2	12.00	12.00	0.00
10,325.0	24.73	359.80	10,247.3	-65.5	935.1	45.0	12.00	12.00	0.00
10,350.0	27.73	359.80	10,269.7	-54.4	935.1	56.0	12.00	12.00	0.00
10,375.0	30.73	359.80	10,291.5	-42.2	935.1	68.1	12.00	12.00	0.00
10,400.0	33.73	359.80	10,312.7	-28.9	935.0	81.3	12.00	12.00	0.00
10,425.0	36.73	359.80	10,333.1	-14.5	935.0	95.7	12.00	12.00	0.00
10,450.0	39.73	359.80	10,352.7	1.0	934.9	111.0	12.00	12.00	0.00
10,475.0	42.73	359.80	10,371.5	17.5	934.9	127.4	12.00	12.00	0.00
10,500.0	45.73	359.80	10,389.4	34.9	934.8	144.7	12.00	12.00	0.00
10,525.0	48.73	359.80	10,406.4	53.2	934.7	162.9	12.00	12.00	0.00
10,550.0	51.73	359.80	10,422.4	72.5	934.7	182.0	12.00	12.00	0.00
10,575.0	54.73	359.80	10,437.4	92.5	934.6	201.8	12.00	12.00	0.00
10,600.0	57.73	359.80	10,451.3	113.3	934.5	222.5	12.00	12.00	0.00
10,625.0	60.73	359.80	10,464.1	134.7	934.4	243.8	12.00	12.00	0.00
10,650.0	63.73	359.80	10,475.7	156.9	934.4	265.7	12.00	12.00	0.00
10,675.0	66.73	359.80	10,486.2	179.6	934.3	288.3	12.00	12.00	0.00
10,700.0	69.73	359.80	10,495.4	202.8	934.2	311.3	12.00	12.00	0.00
10,725.0	72.73	359.80	10,503.5	226.4	934.1	334.8	12.00	12.00	0.00
10,750.0	75.73	359.80	10,510.3	250.5	934.0	358.7	12.00	12.00	0.00
10,775.0	78.73	359.80	10,515.8	274.9	933.9	382.9	12.00	12.00	0.00
10,800.0	81.73	359.80	10,520.0	299.5	933.9	407.3	12.00	12.00	0.00
10,825.0	84.73	359.80	10,523.0	324.3	933.8	432.0	12.00	12.00	0.00
10,850.0	87.73	359.80	10,524.6	349.3	933.7	456.7	12.00	12.00	0.00
10,868.9	90.00	359.80	10,525.0	368.2	933.6	475.5	12.00	12.00	0.00
Start 7241.9 hold at 10868.9 MD									
10,900.0	90.00	359.80	10,525.0	399.3	933.5	506.4	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	499.3	933.2	605.6	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	599.3	932.8	704.9	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	699.3	932.5	804.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	799.3	932.1	903.4	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	899.3	931.7	1,002.7	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	999.3	931.4	1,102.0	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,099.3	931.0	1,201.2	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,199.3	930.7	1,300.5	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,299.3	930.3	1,399.7	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,399.3	930.0	1,499.0	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,499.3	929.6	1,598.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,599.3	929.3	1,697.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.0	90.00	359.80	10,525.0	1,699.3	928.9	1,796.8	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,799.3	928.6	1,896.1	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,899.3	928.2	1,995.3	0.00	0.00	0.00
12,500.0	90.00	359.80	10,525.0	1,999.3	927.9	2,094.6	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,099.3	927.5	2,193.8	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,199.3	927.2	2,293.1	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,299.3	926.8	2,392.4	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,399.3	926.5	2,491.6	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,499.3	926.1	2,590.9	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,599.3	925.8	2,690.2	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,699.3	925.4	2,789.4	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,799.3	925.1	2,888.7	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,899.3	924.7	2,987.9	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,999.3	924.3	3,087.2	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,099.3	924.0	3,186.5	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,199.3	923.6	3,285.7	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,299.3	923.3	3,385.0	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,399.3	922.9	3,484.3	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,499.3	922.6	3,583.5	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,599.3	922.2	3,682.8	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,699.3	921.9	3,782.0	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,799.3	921.5	3,881.3	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,899.3	921.2	3,980.6	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,999.3	920.8	4,079.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,099.3	920.5	4,179.1	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,199.3	920.1	4,278.4	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,299.3	919.8	4,377.6	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,399.3	919.4	4,476.9	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,499.3	919.1	4,576.2	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,599.3	918.7	4,675.4	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,699.2	918.4	4,774.7	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,799.2	918.0	4,873.9	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,899.2	917.7	4,973.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,999.2	917.3	5,072.5	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,099.2	916.9	5,171.7	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,199.2	916.6	5,271.0	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,299.2	916.2	5,370.3	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,399.2	915.9	5,469.5	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,499.2	915.5	5,568.8	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,599.2	915.2	5,668.0	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,699.2	914.8	5,767.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,799.2	914.5	5,866.6	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,899.2	914.1	5,965.8	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,999.2	913.8	6,065.1	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,099.2	913.4	6,164.4	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,199.2	913.1	6,263.6	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,299.2	912.7	6,362.9	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,399.2	912.4	6,462.1	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,499.2	912.0	6,561.4	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,599.2	911.7	6,660.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,699.2	911.3	6,759.9	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,799.2	911.0	6,859.2	0.00	0.00	0.00

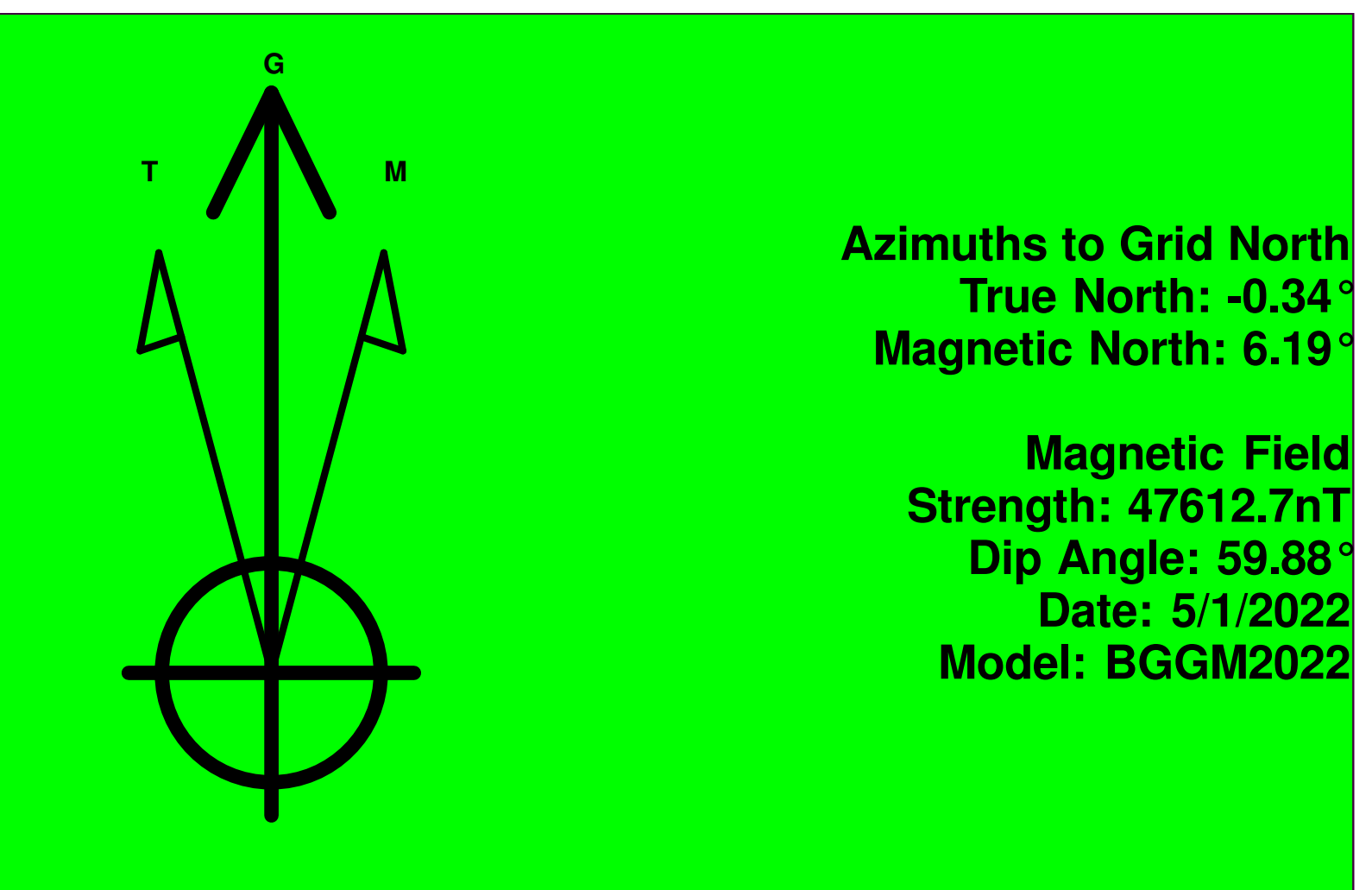
ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.0	90.00	359.80	10,525.0	6,899.2	910.6	6,958.5	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,999.2	910.3	7,057.7	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,099.2	909.9	7,157.0	0.00	0.00	0.00
17,700.0	90.00	359.80	10,525.0	7,199.2	909.5	7,256.2	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,299.2	909.2	7,355.5	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,399.2	908.8	7,454.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,499.2	908.5	7,554.0	0.00	0.00	0.00
18,100.0	90.00	359.80	10,525.0	7,599.2	908.1	7,653.3	0.00	0.00	0.00
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	7,664.0	0.00	0.00	0.00
Start 50.0 hold at 18110.8 MD									
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	7,713.6	0.00	0.00	0.00
TD at 18160.8									

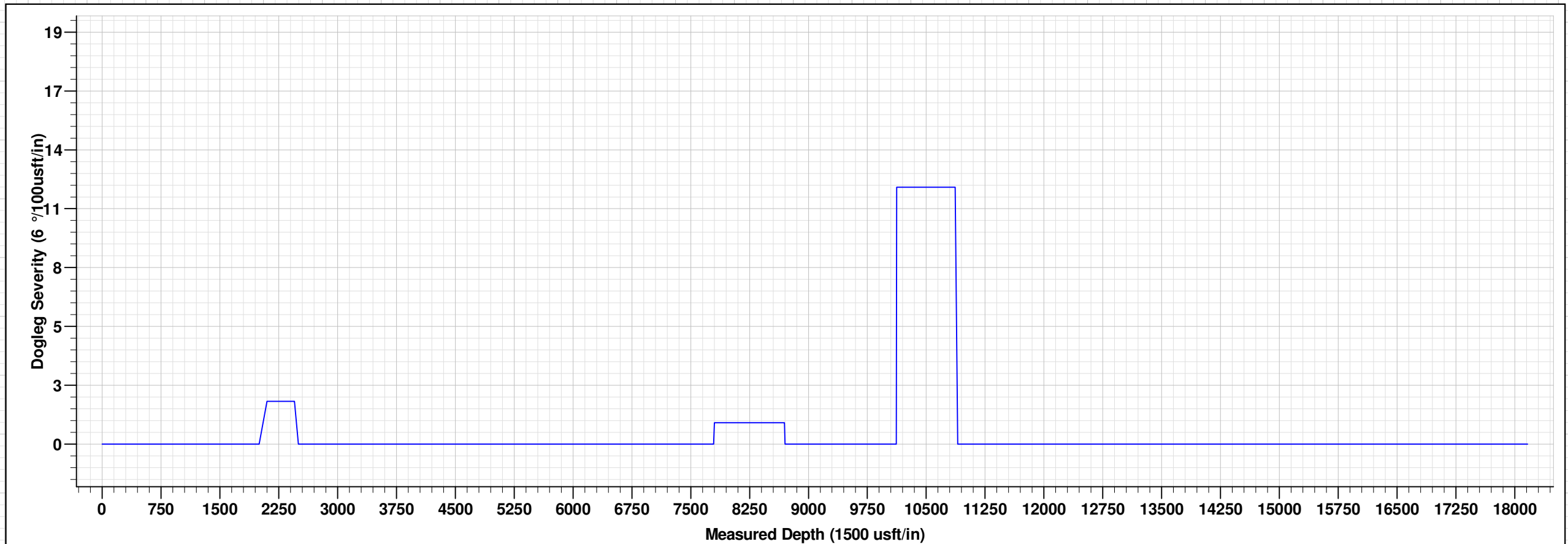
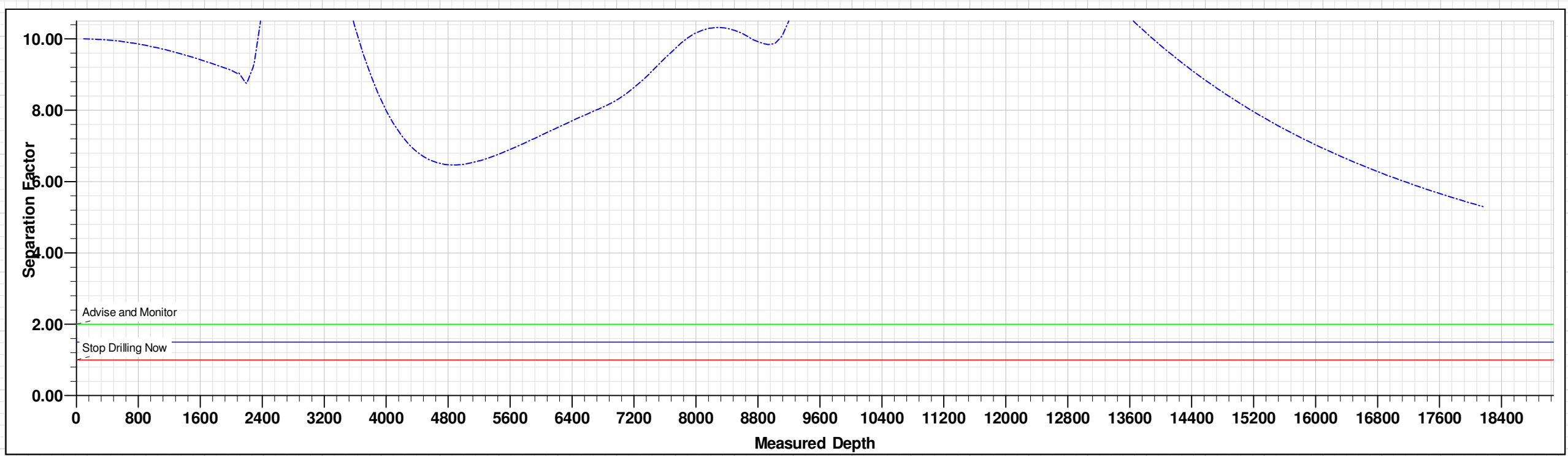
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (GIN AND TECTC - plan hits target center - Rectangle (sides W100.0 H7,875.0 D20.0)	0.00	179.80	10,525.0	7,660.0	907.9	459,195.20	699,259.50	32° 15' 38.879 N	103° 41' 19.408 W
LTP (GIN AND TECTON - plan hits target center - Point	0.00	0.00	10,525.0	7,610.0	908.1	459,145.20	699,259.70	32° 15' 38.384 N	103° 41' 19.409 W
FTP (GIN AND TECTON - plan misses target center by 197.8usft at 10496.5usft MD (10387.0 TVD, 32.4 N, 934.8 E) - Circle (radius 50.0)	0.00	0.00	10,525.0	-109.3	935.3	451,425.90	699,286.90	32° 14' 21.995 N	103° 41' 19.632 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,450.2	2,448.3	-4.1	35.1	Start 5340.9 hold at 2450.2 MD
7,791.0	7,723.4	-101.1	865.2	Start Drop -1.00
8,691.4	8,620.0	-109.3	935.3	Start 1427.5 hold at 8691.4 MD
10,118.9	10,047.5	-109.3	935.3	Start DLS 12.00 TFO 359.80
10,868.9	10,525.0	368.2	933.6	Start 7241.9 hold at 10868.9 MD
18,110.8	10,525.0	7,610.0	908.1	Start 50.0 hold at 18110.8 MD
18,160.8	10,525.0	7,660.0	907.9	TD at 18160.8

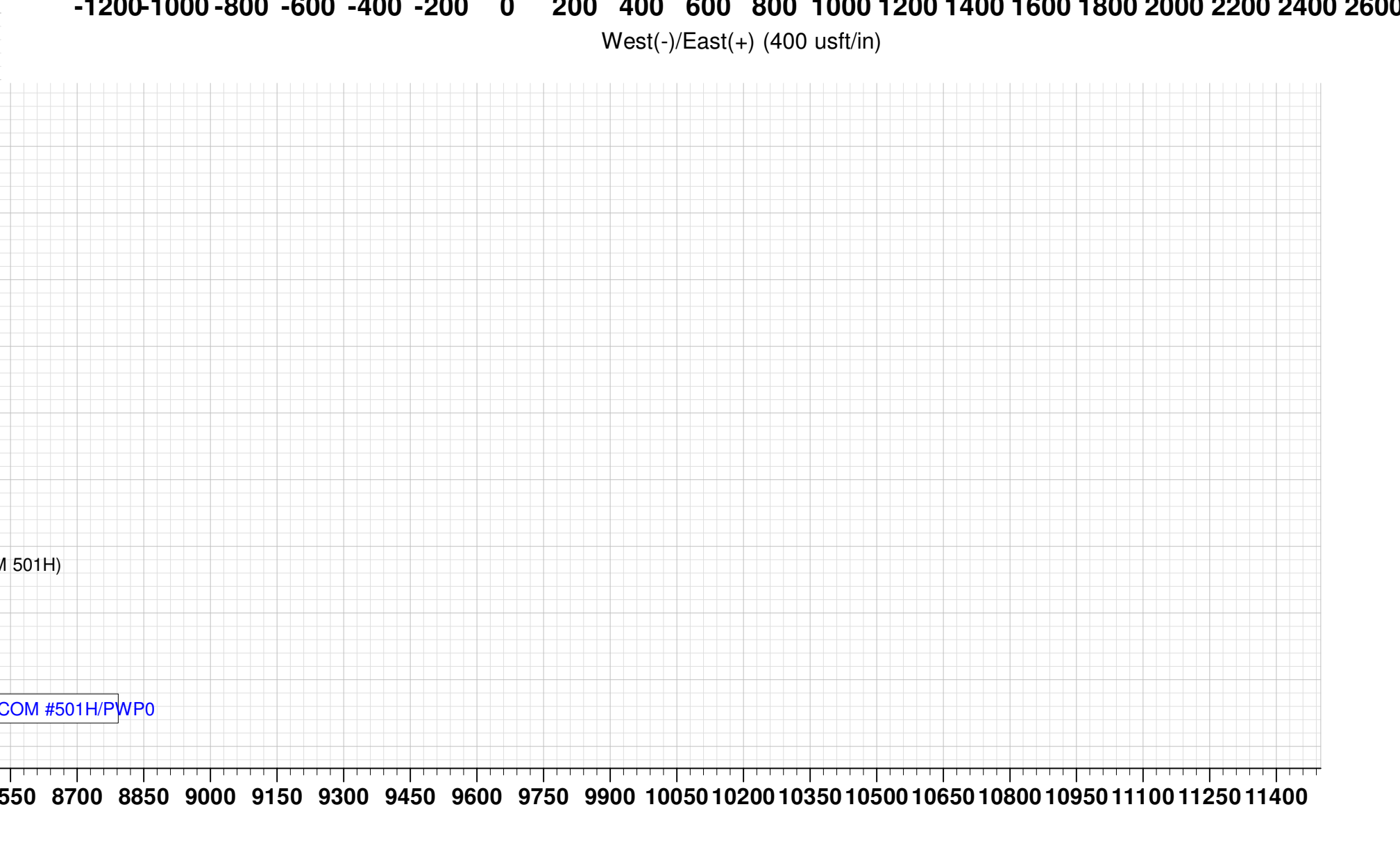
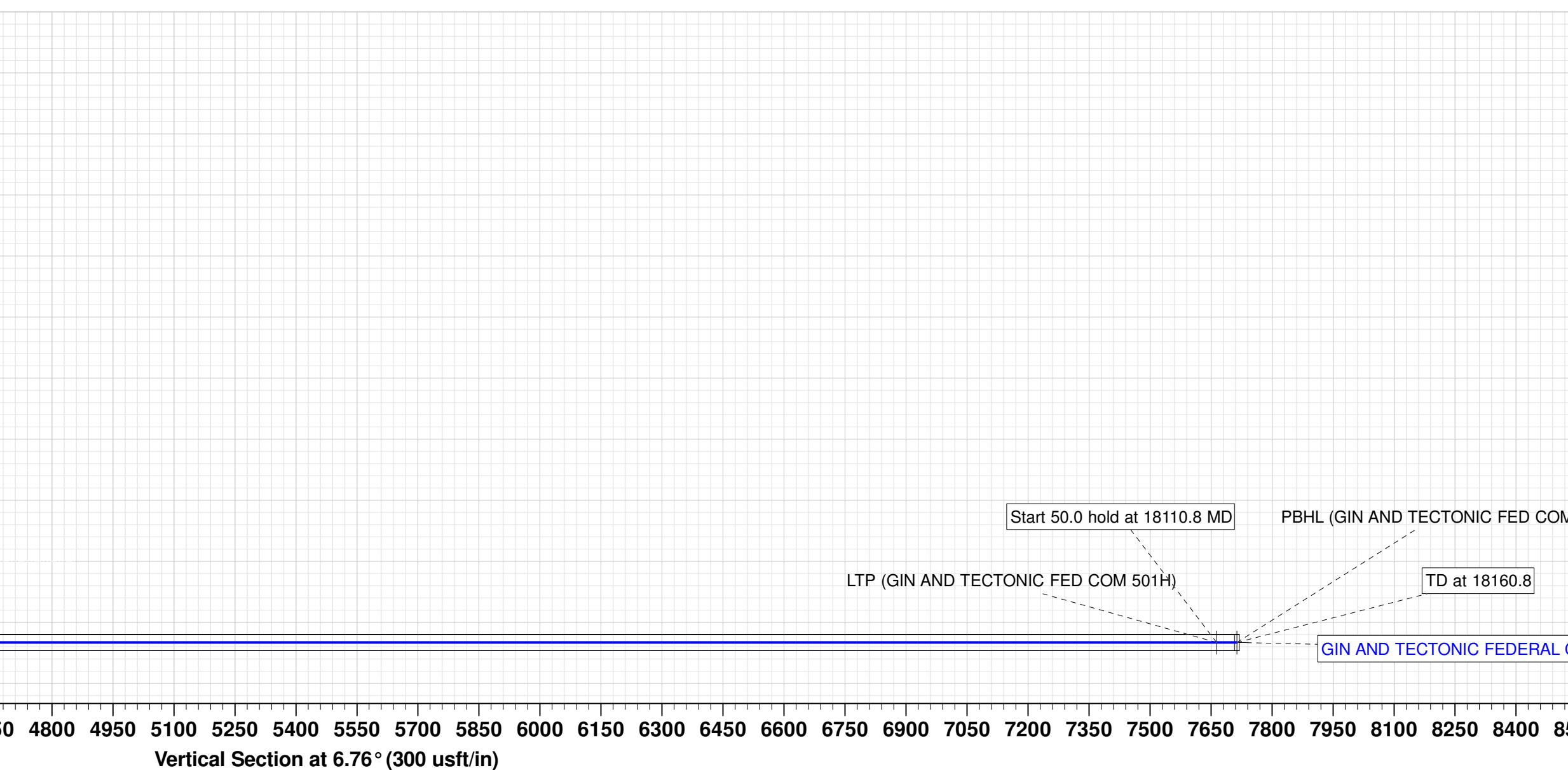
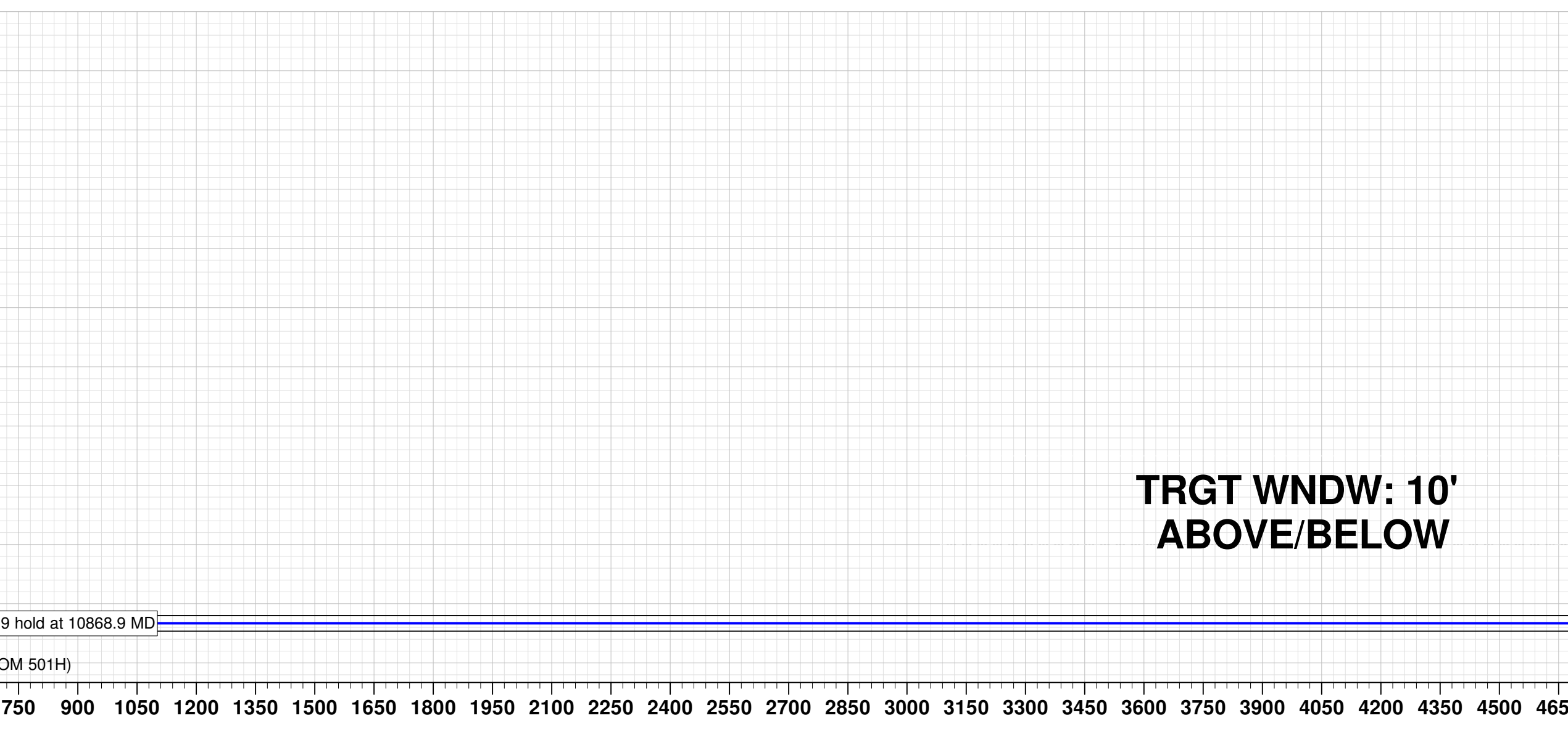
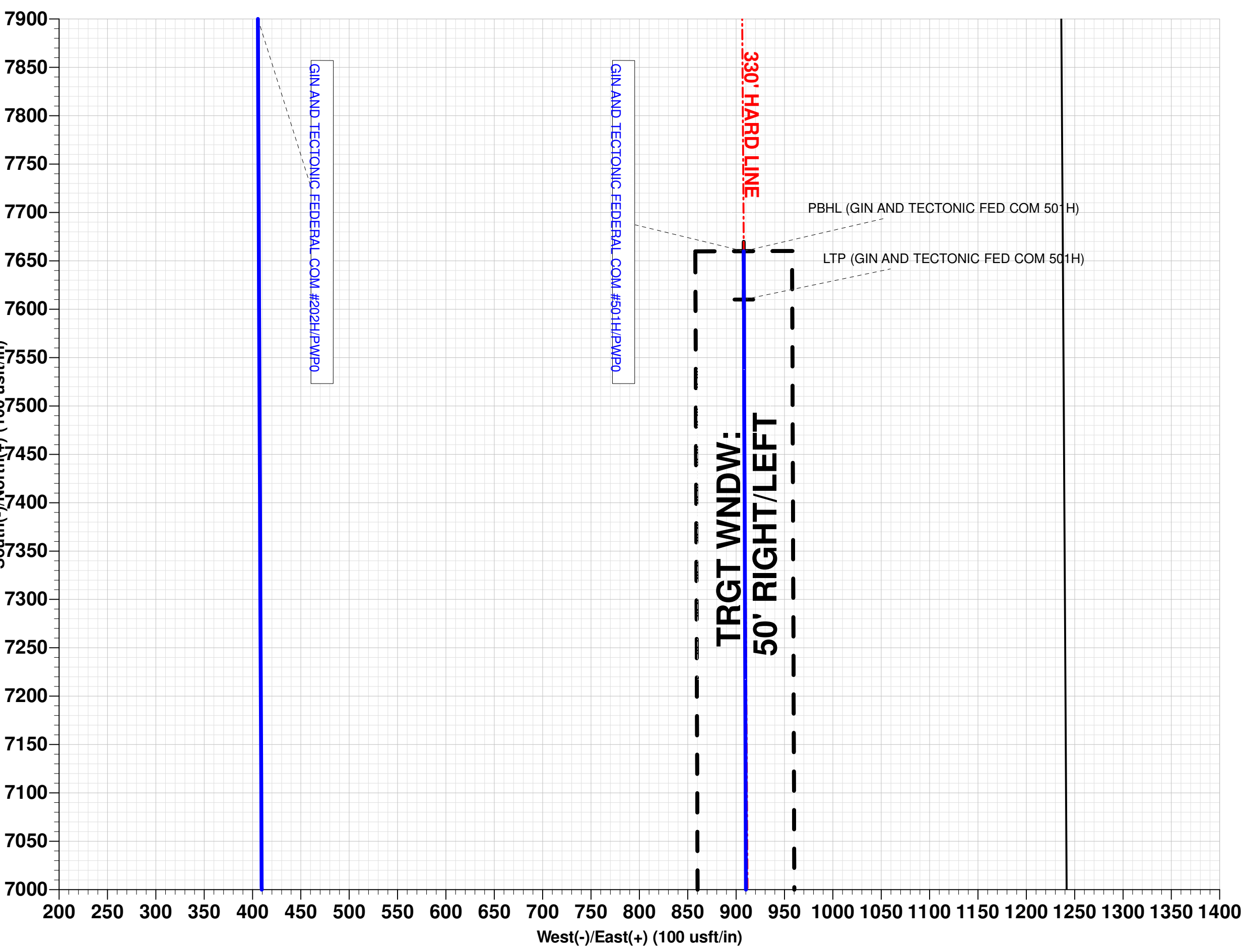
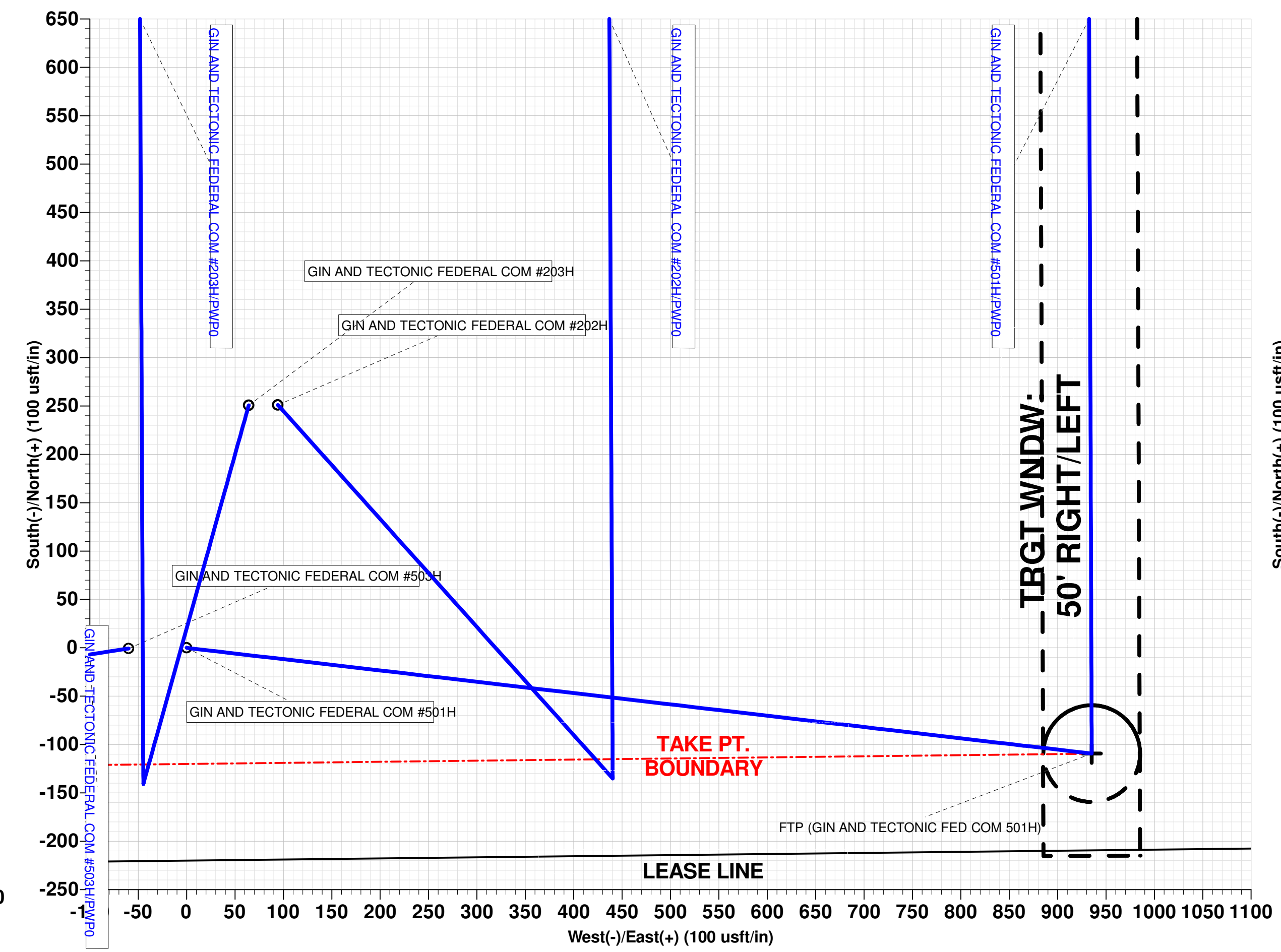
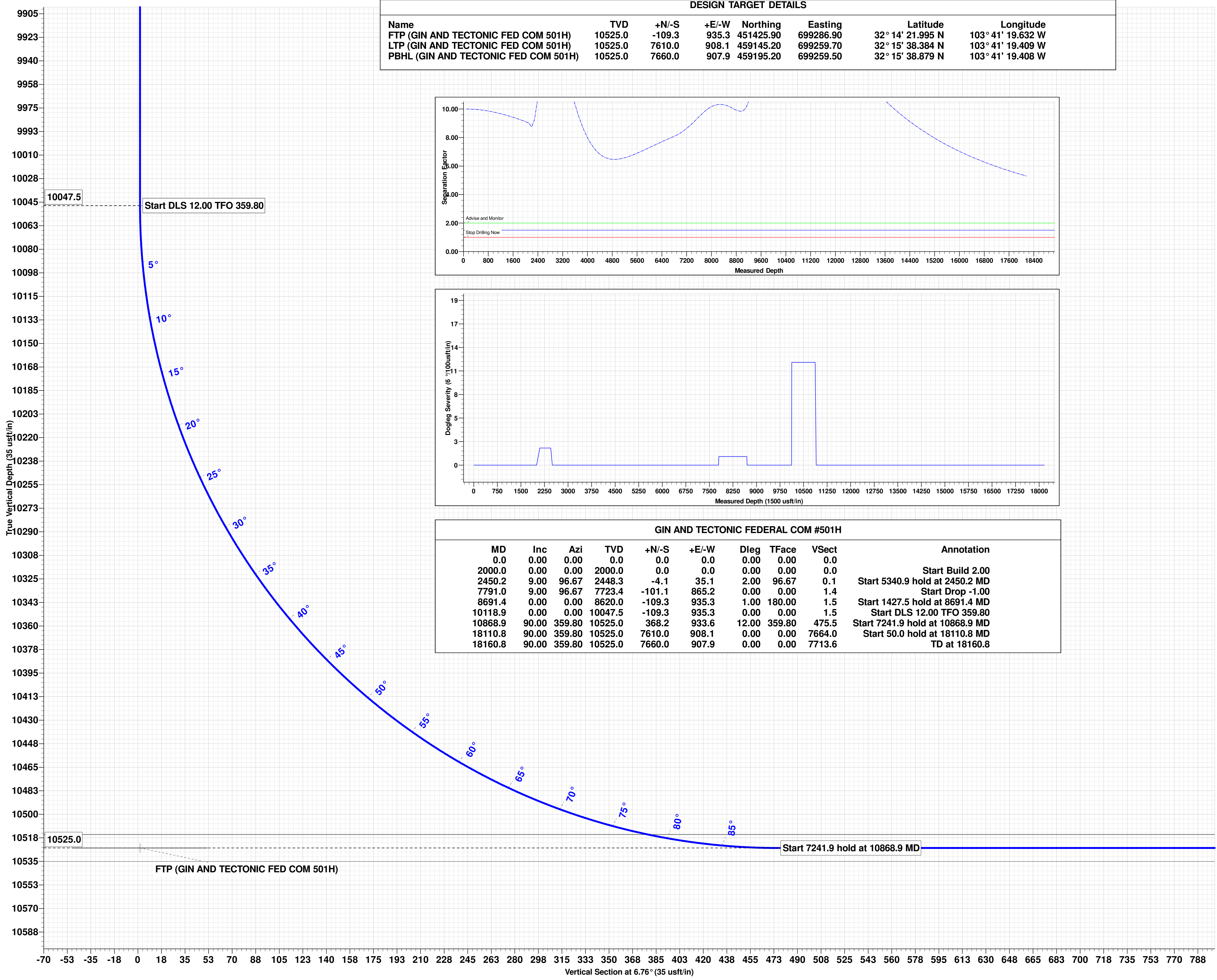
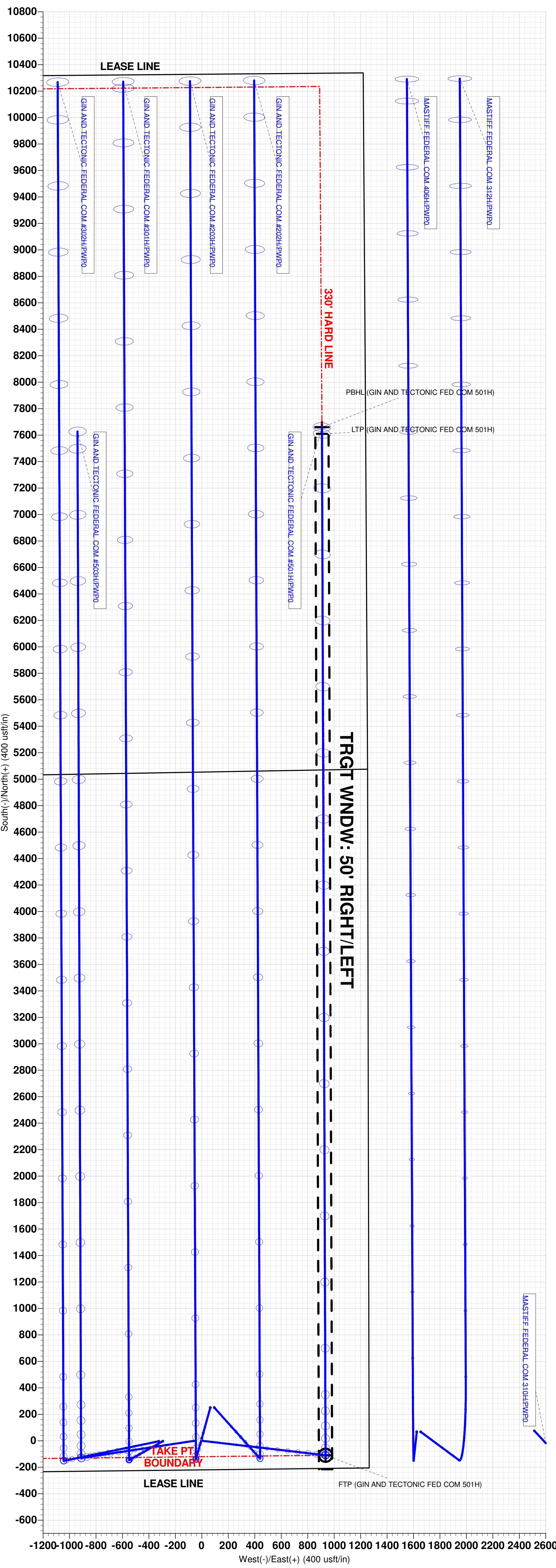


WELL DETAILS: GIN AND TECTONIC FEDERAL COM #501H				
+N-S	+E-W	Northing	Easting	Latitude
0.0	0.0	451535.20	698351.60	32° 14' 23.132 N
				103° 41' 30.514 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (GIN AND TECTONIC FED COM 501H)	10525.0	-109.3	935.3	451425.90	699286.90	32° 14' 21.995 N
LTP (GIN AND TECTONIC FED COM 501H)	10525.0	7610.0	908.1	459145.20	699259.70	32° 15' 38.384 N
PBHL (GIN AND TECTONIC FED COM 501H)	10525.0	7660.0	907.9	459195.20	699259.50	32° 15' 38.879 N



GIN AND TECTONIC FEDERAL COM #501H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2450.2	9.00	96.67	2448.3	-4.1	35.1	2.00	96.67	0.1	Start 5340.9 hold at 2450.2 MD
7791.0	9.00	96.67	7723.4	-101.1	865.2	0.00	0.00	1.4	Start Drop -1.00
8691.4	0.00	0.00	8620.0	-109.3	935.3	1.00	180.00	1.5	Start 1427.5 hold at 8691.4 MD
10118.9	0.00	0.00	10047.5	-109.3	935.3	0.00	0.00	1.5	Start DLS 12.00 TFO 359.80
10868.9	90.00	359.80	10525.0	368.2	933.6	12.00	359.80	475.5	Start 7241.9 hold at 10868.9 MD
18110.8	90.00	359.80	10525.0	7610.0	908.1	0.00	0.00	7664.0	Start 50.0 hold at 18110.8 MD
18160.8	90.00	359.80	10525.0	7660.0	907.9	0.00	0.00	7713.6	TD at 18160.8



TRGT WNDW: 10' ABOVE/BELOW

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 30-025-48428	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3642.9'

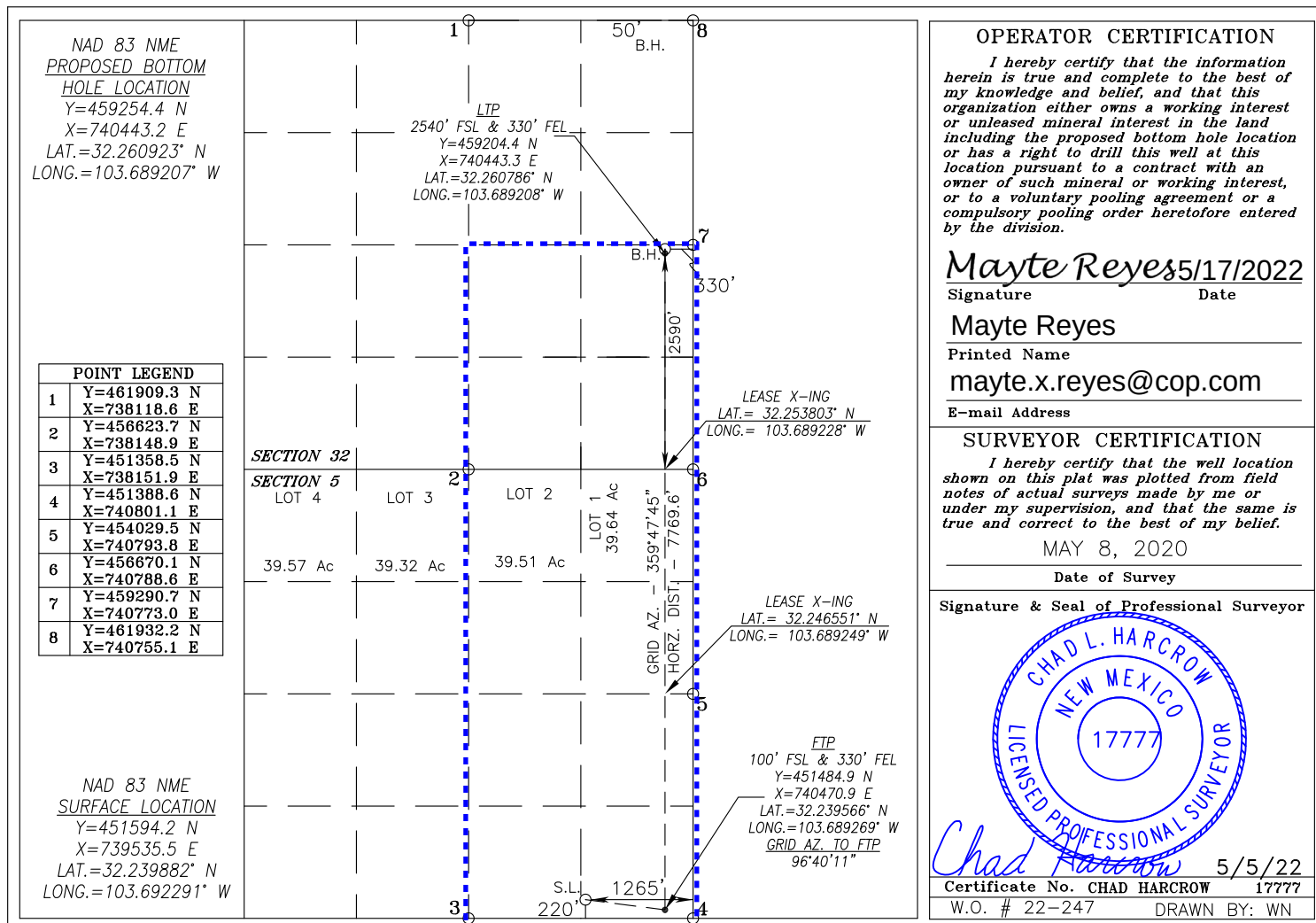
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	1265	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	23-S	32-E		2590	SOUTH	330	EAST	LEA
Dedicated Acres 479.13	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



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Form C-102
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-48428	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3642.9'

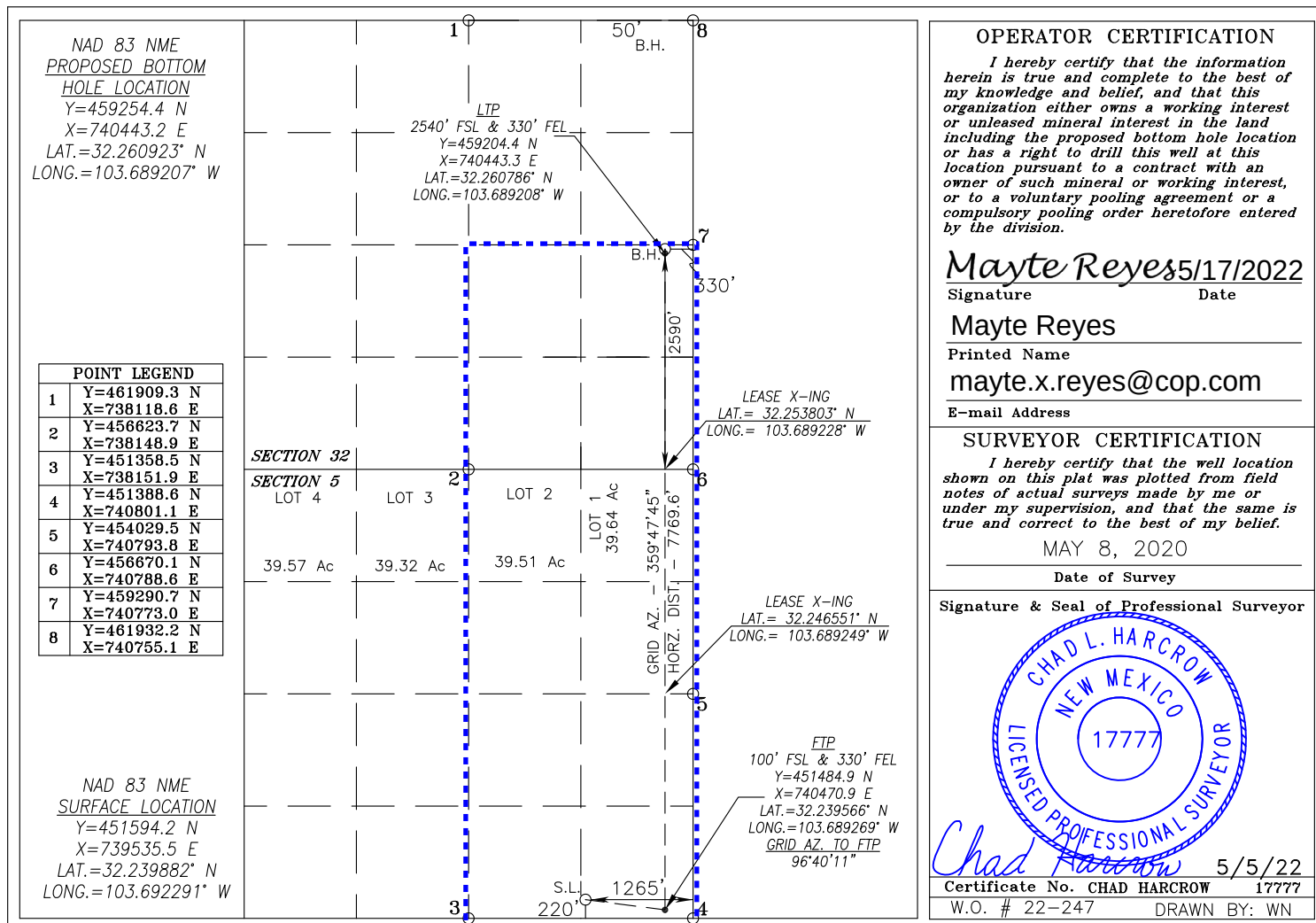
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	1265	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	23-S	32-E		2590	SOUTH	330	EAST	LEA
Dedicated Acres 479.13	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



Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692291	County or Parish/State: LEA / NM
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842800S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2676066

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 06/09/2022	Time Sundry Submitted: 06:35
Date proposed operation will begin: 06/09/2022	

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 330' FEL. Section 32. T23S. R32E. To: 2590' FSL & 330' FEL. Section 32. T23S. R32E. Dedicated Acres From: 1279 To: 479.13 C102, Directional Plan and AC Report Attached.

NOI Attachments

Procedure Description

- GIN_AND_TECTONIC_FEDERAL_COM_501H_AC_RPT_20220609183528.pdf
- GIN_AND_TECTONIC_FEDERAL_COM_501H_Directional_Plan_20220609183528.pdf
- GIN_AND_TECTONIC_FED_COM_501H_C102_Nad83_20220609183528.pdf

Received by OCD: 3/26/2024 2:37:09 PM

Page 46 of 103

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692291	County or Parish/State: LEA / NM
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842800S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

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: MAYTE REYES
Signed on: JUN 09, 2022 06:34 PM
Name: COG OPERATING LLC
Title: Regulatory Analyst
Street Address: 925 N ELDRIDGE PARKWAY
City: HOUSTON State: TX
Phone: (281) 293-1000
Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera
Street Address: 2208 West Main Street
City: Artesia State: NM Zip: 88210
Phone: (575)748-6940
Email address: gerald.a.herrera@conocophillips.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS
BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234
BLM POC Email Address: cwalls@blm.gov
Disposition: Approved
Disposition Date: 09/09/2022
Signature: Chris Walls

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM120906
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. GIN AND TECTONIC FEDERAL CO
2. Name of Operator COG OPERATING LLC		9. API Well No. 3002548428
3a. Address 600 West Illinois Ave, Midland, TX 79701	3b. Phone No. (include area code) (432) 683-7443	10. Field and Pool or Exploratory Area MESA VERDE/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 5/T24S/R32E/NMP		11. Country or Parish, State LEA/NM

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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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.)

COG Operating LLC respectfully requests approval for the following changes to the original approved APD.

BHL Change
From: 50' FNL & 330' FEL. Section 32. T23S. R32E.
To: 2590' FSL & 330' FEL. Section 32. T23S. R32E.

Dedicated Acres
From: 1279
To: 479.13

C102, Directional Plan and AC Report Attached.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MAYTE REYES / Ph: (281) 293-1000	Title Regulatory Analyst
Signature (Electronic Submission)	Date 06/09/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 09/09/2022
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 CARLSBAD	

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: SESE / 220 FSL / 1265 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239882 / LONG: -103.692291 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239566 / LONG: -103.689269 (TVD: 10408 feet, MD: 10500 feet)

PPP: SENE / 2639 FNL / 330 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246551 / LONG: -103.689255 (TVD: 10522 feet, MD: 12950 feet)

BHL: NENE / 50 FNL / 330 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268139 / LONG: -103.689214 (TVD: 10530 feet, MD: 20689 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

**GIN & TECTONIC FEDERAL PROJECT (BULLDOG
2332)**

GIN AND TECTONIC FEDERAL COM #501H

300254842800

OWB

PWP0

Anticollision Report

24 May, 2022

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	5/24/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
2,000.0	10,118.9	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
10,118.9	18,160.8	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,339.5	4,334.4	145.7	124.7	6.946	CC
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,400.0	4,394.6	145.8	124.5	6.831	ES
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	4,845.0	4,837.2	155.0	131.0	6.468	SF
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	2,965.1	2,967.9	206.4	194.8	17.759	CC
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	3,000.0	3,002.2	206.5	194.7	17.503	ES
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	3,600.0	3,591.3	239.1	223.9	15.755	SF
GIN AND TECTONIC FEDERAL COM #205H - OWB - P						Out of range
GIN AND TECTONIC FEDERAL COM #206H - OWB - P						Out of range
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	2,000.0	1,992.0	295.0	288.4	44.848	CC, ES
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	2,400.0	2,370.3	339.9	329.9	33.898	SF
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,000.0	1,991.4	325.0	318.4	49.411	CC, ES
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,400.0	2,346.4	375.9	365.3	35.557	SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,000.0	1,996.9	60.0	53.4	9.120	CC, ES
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,200.0	2,192.0	73.5	65.1	8.754	SF
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL #3H - LATERAL 01 - AWP-LAT 01						Out of range
MASTIFF FEDERAL #3H - OWB-PILOT HOLE - AWP-P						Out of range
MASTIFF FEDERAL COM 310H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,196.1	8,056.5	952.8	921.9	30.871	CC
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,200.0	8,060.3	952.8	921.9	30.854	ES
MASTIFF FEDERAL COM 312H - OWB - PWP0	8,930.0	8,787.4	995.4	961.5	29.327	SF
MASTIFF FEDERAL COM 406H - OWB - PWP0	10,138.6	10,070.7	667.4	629.5	17.620	CC
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,160.8	18,337.7	702.1	569.6	5.299	ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	18,160.8	16,754.3				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	18,160.8	17,028.7				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #205H - OWB - P	18,160.8	16,795.3				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #206H - OWB - P	18,160.8	17,043.9				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	18,160.8	16,744.8				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	18,160.8	17,067.9				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	18,160.8	18,129.6				Out of Range @TD
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL #3H - LATERAL 01 - AWP-LAT 01	18,160.8	10,098.0				Out of Range @TD
MASTIFF FEDERAL #3H - OWB-PILOT HOLE - AWP-P	18,160.8	10,544.5				Out of Range @TD
MASTIFF FEDERAL COM 310H - OWB - PWP0	18,160.8	17,078.1				Out of Range @TD
MASTIFF FEDERAL COM 312H - OWB - PWP0	18,160.8	17,184.2				Out of Range @TD
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,160.8	18,337.7	702.1	569.6	5.299	ES, SF

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H - OWB - PWP0													Offset Site Error: 3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre		Distance		Rule Assigned:						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3				
95.0	95.0	88.3	88.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.00	44.700	
100.0	100.0	93.3	93.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.00	44.699	
190.0	190.0	183.3	183.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.01	44.646	
200.0	200.0	193.3	193.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.01	44.636	
285.0	285.0	278.3	278.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.02	44.520	
300.0	300.0	293.3	293.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.03	44.494	
380.0	380.0	373.3	373.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.05	44.327	
400.0	400.0	393.3	393.3	3.0	3.0	20.58	251.1	94.3	268.2	262.2	6.06	44.277	
475.0	475.0	468.3	468.3	3.0	3.0	20.58	251.1	94.3	268.2	262.1	6.09	44.067	
500.0	500.0	493.3	493.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.10	43.989	
570.0	570.0	563.3	563.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.13	43.746	
600.0	600.0	593.3	593.3	3.1	3.1	20.58	251.1	94.3	268.2	262.1	6.15	43.632	
665.0	665.0	658.3	658.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.19	43.366	
700.0	700.0	693.3	693.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.21	43.213	
760.0	760.0	753.3	753.3	3.1	3.1	20.58	251.1	94.3	268.2	262.0	6.25	42.933	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)			
800.0	800.0	793.3	793.3	3.2	3.1	20.58	251.1	94.3	268.2	261.9	6.28	42.736	
855.0	855.0	848.3	848.3	3.2	3.2	20.58	251.1	94.3	268.2	261.9	6.32	42.452	
900.0	900.0	893.3	893.3	3.2	3.2	20.58	251.1	94.3	268.2	261.9	6.35	42.209	
950.0	950.0	943.3	943.3	3.2	3.2	20.58	251.1	94.3	268.2	261.8	6.40	41.928	
1,000.0	1,000.0	993.3	993.3	3.2	3.2	20.58	251.1	94.3	268.2	261.8	6.44	41.637	
1,045.0	1,045.0	1,038.3	1,038.3	3.3	3.3	20.58	251.1	94.3	268.2	261.7	6.48	41.367	
1,100.0	1,100.0	1,093.3	1,093.3	3.3	3.3	20.58	251.1	94.3	268.2	261.7	6.54	41.027	
1,140.0	1,140.0	1,133.3	1,133.3	3.3	3.3	20.58	251.1	94.3	268.2	261.6	6.58	40.774	
1,200.0	1,200.0	1,193.3	1,193.3	3.4	3.3	20.58	251.1	94.3	268.2	261.6	6.64	40.385	
1,235.0	1,235.0	1,228.3	1,228.3	3.4	3.4	20.58	251.1	94.3	268.2	261.5	6.68	40.154	
1,300.0	1,300.0	1,293.3	1,293.3	3.4	3.4	20.58	251.1	94.3	268.2	261.5	6.75	39.716	
1,330.0	1,330.0	1,323.3	1,323.3	3.4	3.4	20.58	251.1	94.3	268.2	261.4	6.79	39.512	
1,400.0	1,400.0	1,393.3	1,393.3	3.5	3.5	20.58	251.1	94.3	268.2	261.4	6.87	39.028	
1,425.0	1,425.0	1,418.3	1,418.3	3.5	3.5	20.58	251.1	94.3	268.2	261.3	6.90	38.853	
1,500.0	1,500.0	1,493.3	1,493.3	3.5	3.5	20.58	251.1	94.3	268.2	261.2	7.00	38.324	
1,520.0	1,520.0	1,513.3	1,513.3	3.6	3.6	20.58	251.1	94.3	268.2	261.2	7.02	38.182	
1,600.0	1,600.0	1,593.3	1,593.3	3.6	3.6	20.58	251.1	94.3	268.2	261.1	7.13	37.610	
1,615.0	1,615.0	1,608.3	1,608.3	3.6	3.6	20.58	251.1	94.3	268.2	261.1	7.15	37.503	
1,700.0	1,700.0	1,693.3	1,693.3	3.7	3.7	20.58	251.1	94.3	268.2	261.0	7.27	36.891	
1,710.0	1,710.0	1,703.3	1,703.3	3.7	3.7	20.58	251.1	94.3	268.2	260.9	7.29	36.819	
1,800.0	1,800.0	1,793.3	1,793.3	3.8	3.8	20.58	251.1	94.3	268.2	260.8	7.42	36.169	
1,805.0	1,805.0	1,798.3	1,798.3	3.8	3.8	20.58	251.1	94.3	268.2	260.8	7.42	36.133	
1,900.0	1,900.0	1,893.3	1,893.3	3.9	3.8	20.58	251.1	94.3	268.2	260.7	7.57	35.449	
1,995.0	1,995.0	1,988.3	1,988.3	3.9	3.9	20.58	251.1	94.3	268.2	260.5	7.71	34.769	
2,000.0	2,000.0	1,993.3	1,993.3	3.9	3.9	20.58	251.1	94.3	268.2	260.5	7.72	34.733	
2,090.0	2,090.0	2,087.1	2,087.0	4.0	4.1	-76.16	250.1	95.2	267.3	259.4	7.89	33.895	
2,100.0	2,100.0	2,097.5	2,097.5	4.0	4.1	-76.17	249.9	95.4	267.1	259.2	7.90	33.821	
2,185.0	2,184.9	2,186.3	2,186.1	4.3	4.7	-76.31	246.6	98.3	264.1	255.9	8.23	32.081	
2,200.0	2,199.8	2,201.9	2,201.8	4.4	4.8	-76.34	245.8	99.0	263.4	255.1	8.28	31.797	
2,280.0	2,279.6	2,285.3	2,284.9	4.9	5.3	-76.55	240.5	103.8	258.6	250.0	8.63	29.971	
2,300.0	2,299.5	2,305.9	2,305.3	5.1	5.4	-76.61	239.0	105.2	257.2	248.5	8.71	29.536	
2,375.0	2,373.9	2,380.7	2,379.7	5.5	5.6	-77.10	233.1	110.4	251.5	242.5	8.98	28.020	
2,400.0	2,398.7	2,405.6	2,404.4	5.7	5.7	-77.37	231.2	112.1	249.5	240.4	9.07	27.521	
2,450.2	2,448.3	2,455.5	2,454.1	5.8	5.8	-78.07	227.3	115.6	245.3	236.1	9.24	26.558	
2,470.0	2,467.9	2,475.2	2,473.7	5.8	5.8	-78.36	225.8	117.0	243.7	234.4	9.31	26.171	
2,500.0	2,497.5	2,505.0	2,503.4	5.8	5.8	-78.80	223.5	119.1	241.2	231.8	9.42	25.594	
2,565.0	2,561.7	2,569.7	2,567.7	5.9	5.9	-79.80	218.4	123.6	235.8	226.1	9.70	24.313	
2,600.0	2,596.3	2,604.5	2,602.3	6.0	6.0	-80.36	215.7	126.0	232.9	223.1	9.85	23.650	
2,660.0	2,655.6	2,664.2	2,661.6	6.1	6.1	-81.34	211.1	130.2	228.1	217.9	10.14	22.497	
2,700.0	2,695.1	2,703.9	2,701.2	6.2	6.2	-82.02	208.0	133.0	224.9	214.5	10.33	21.762	
2,755.0	2,749.4	2,758.6	2,755.6	6.3	6.3	-82.99	203.7	136.8	220.5	209.9	10.62	20.764	
2,800.0	2,793.8	2,803.4	2,800.1	6.4	6.4	-83.81	200.2	139.9	217.0	206.2	10.86	19.986	
2,850.0	2,843.2	2,853.1	2,849.5	6.5	6.5	-84.76	196.4	143.4	213.2	202.0	11.14	19.140	
2,900.0	2,892.6	2,902.8	2,899.0	6.6	6.6	-85.73	192.5	146.8	209.4	198.0	11.42	18.336	
2,945.0	2,937.1	2,947.6	2,943.5	6.7	6.7	-86.64	189.0	150.0	206.0	194.4	11.69	17.633	
3,000.0	2,991.4	3,002.3	2,997.9	6.8	6.8	-87.79	184.7	153.8	202.0	190.0	12.01	16.818	
3,040.0	3,030.9	3,042.1	3,037.5	6.9	6.9	-88.66	181.6	156.5	199.1	186.9	12.26	16.245	
3,100.0	3,090.1	3,101.8	3,096.8	7.0	7.0	-90.01	177.0	160.7	194.9	182.3	12.63	15.431	
3,135.0	3,124.7	3,136.6	3,131.4	7.1	7.1	-90.82	174.3	163.1	192.5	179.7	12.86	14.975	
3,200.0	3,188.9	3,201.2	3,195.7	7.3	7.3	-92.39	169.3	167.6	188.1	174.9	13.27	14.174	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H - OWB - PWP0													Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)				
3,230.0	3,218.5	3,231.0	3,225.4	7.4	7.4	-93.13	166.9	169.7	186.2	172.7	13.47	13.820		
3,300.0	3,287.7	3,300.7	3,294.6	7.6	7.5	-94.93	161.5	174.6	181.7	167.8	13.94	13.040		
3,325.0	3,312.4	3,325.5	3,319.4	7.6	7.6	-95.60	159.6	176.3	180.2	166.1	14.10	12.774		
3,400.0	3,386.4	3,400.1	3,393.5	7.8	7.8	-97.66	153.8	181.5	175.7	161.1	14.61	12.022		
3,420.0	3,406.2	3,420.0	3,413.3	7.9	7.9	-98.23	152.2	182.9	174.5	159.8	14.75	11.832		
3,500.0	3,485.2	3,499.6	3,492.4	8.1	8.1	-100.58	146.0	188.5	170.1	154.8	15.30	11.114		
3,515.0	3,500.0	3,514.5	3,507.3	8.2	8.1	-101.03	144.9	189.5	169.3	153.8	15.40	10.987		
3,600.0	3,584.0	3,599.0	3,591.4	8.4	8.4	-103.68	138.3	195.4	164.9	148.9	16.00	10.309		
3,610.0	3,593.9	3,609.0	3,601.2	8.4	8.4	-104.00	137.5	196.1	164.4	148.4	16.07	10.234		
3,700.0	3,682.8	3,698.5	3,690.3	8.7	8.6	-106.97	130.6	202.3	160.3	143.6	16.69	9.601		
3,705.0	3,687.7	3,703.4	3,695.2	8.7	8.7	-107.14	130.2	202.7	160.1	143.3	16.73	9.568		
3,800.0	3,781.5	3,797.9	3,789.2	9.0	8.9	-110.44	122.8	209.3	156.2	138.8	17.39	8.982		
3,895.0	3,875.3	3,892.4	3,883.1	9.3	9.2	-113.90	115.5	215.9	152.9	134.9	18.05	8.472		
3,900.0	3,880.3	3,897.4	3,888.1	9.3	9.2	-114.08	115.1	216.2	152.8	134.7	18.08	8.447		
3,990.0	3,969.2	3,986.9	3,977.1	9.6	9.5	-117.49	108.1	222.5	150.2	131.5	18.70	8.032		
4,000.0	3,979.1	3,996.8	3,987.0	9.6	9.5	-117.88	107.3	223.1	149.9	131.2	18.77	7.990		
4,085.0	4,063.0	4,081.4	4,071.1	9.9	9.8	-121.20	100.7	229.0	148.1	128.8	19.34	7.659		
4,100.0	4,077.8	4,096.3	4,085.9	9.9	9.8	-121.80	99.6	230.1	147.8	128.4	19.44	7.606		
4,180.0	4,156.8	4,175.8	4,165.0	10.2	10.1	-125.00	93.4	235.6	146.6	126.7	19.96	7.346		
4,200.0	4,176.6	4,195.7	4,184.8	10.2	10.2	-125.81	91.8	237.0	146.4	126.3	20.09	7.288		
4,275.0	4,250.7	4,270.3	4,259.0	10.5	10.4	-128.86	86.0	242.2	145.8	125.3	20.57	7.090		
4,300.0	4,275.4	4,295.2	4,283.7	10.5	10.5	-129.88	84.1	244.0	145.7	125.0	20.73	7.032		
4,339.5	4,314.3	4,334.4	4,322.7	10.7	10.6	-131.49	81.0	246.7	145.7	124.7	20.97	6.946 CC		
4,370.0	4,344.5	4,364.8	4,352.9	10.8	10.7	-132.74	78.7	248.8	145.7	124.6	21.16	6.886		
4,400.0	4,374.1	4,394.6	4,382.6	10.9	10.8	-133.96	76.4	250.9	145.8	124.5	21.35	6.831 ES		
4,465.0	4,438.3	4,459.3	4,446.9	11.1	11.0	-136.61	71.3	255.4	146.3	124.5	21.74	6.728		
4,500.0	4,472.9	4,494.1	4,481.5	11.2	11.1	-138.02	68.6	257.8	146.6	124.7	21.95	6.681		
4,560.0	4,532.2	4,553.8	4,540.9	11.4	11.3	-140.43	64.0	262.0	147.5	125.2	22.31	6.612		
4,600.0	4,571.7	4,593.5	4,580.4	11.5	11.4	-142.02	60.9	264.8	148.2	125.7	22.54	6.574		
4,655.0	4,626.0	4,648.2	4,634.8	11.7	11.6	-144.17	56.6	268.6	149.4	126.5	22.86	6.533		
4,700.0	4,670.4	4,693.0	4,679.3	11.9	11.7	-145.91	53.1	271.7	150.5	127.4	23.13	6.507		
4,750.0	4,719.8	4,742.7	4,728.8	12.0	11.9	-147.81	49.3	275.2	151.9	128.5	23.41	6.486		
4,800.0	4,769.2	4,792.4	4,778.2	12.2	12.1	-149.67	45.4	278.6	153.4	129.7	23.70	6.473		
4,845.0	4,813.6	4,837.2	4,822.8	12.3	12.2	-151.32	41.9	281.8	155.0	131.0	23.96	6.468 SF		
4,900.0	4,868.0	4,891.9	4,877.2	12.5	12.4	-153.28	37.6	285.6	157.0	132.7	24.28	6.468		
4,940.0	4,907.5	4,931.7	4,916.7	12.7	12.5	-154.68	34.6	288.4	158.6	134.1	24.51	6.473		
5,000.0	4,966.7	4,991.4	4,976.1	12.9	12.7	-156.72	29.9	292.5	161.2	136.4	24.85	6.487		
5,035.0	5,001.3	5,026.2	5,010.7	13.0	12.9	-157.88	27.2	295.0	162.8	137.8	25.06	6.498		
5,100.0	5,065.5	5,090.8	5,075.0	13.2	13.1	-159.97	22.2	299.5	166.0	140.5	25.43	6.525		
5,130.0	5,095.1	5,120.6	5,104.6	13.3	13.2	-160.91	19.8	301.5	167.5	141.9	25.61	6.540		
5,200.0	5,164.3	5,190.3	5,173.9	13.5	13.4	-163.03	14.4	306.4	171.2	145.2	26.02	6.579		
5,225.0	5,189.0	5,215.1	5,198.6	13.6	13.5	-163.77	12.5	308.1	172.6	146.4	26.17	6.595		
5,300.0	5,263.0	5,289.7	5,272.8	13.9	13.7	-165.91	6.7	313.3	176.9	150.3	26.62	6.647		
5,320.0	5,282.8	5,309.6	5,292.6	14.0	13.8	-166.46	5.1	314.7	178.1	151.4	26.74	6.662		
5,400.0	5,361.8	5,389.2	5,371.7	14.2	14.1	-168.60	-1.1	320.3	183.0	155.8	27.22	6.724		
5,415.0	5,376.6	5,404.1	5,386.5	14.3	14.1	-168.98	-2.2	321.3	184.0	156.7	27.31	6.737		
5,500.0	5,460.6	5,488.6	5,470.6	14.6	14.4	-171.11	-8.8	327.2	189.6	161.7	27.84	6.810		
5,510.0	5,470.5	5,498.6	5,480.5	14.6	14.4	-171.35	-9.6	327.9	190.2	162.3	27.90	6.819		
5,600.0	5,559.3	5,588.1	5,569.5	14.9	14.8	-173.45	-16.5	334.2	196.4	167.9	28.46	6.901		
5,605.0	5,564.3	5,593.0	5,574.5	14.9	14.8	-173.56	-16.9	334.5	196.7	168.3	28.49	6.906		

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,700.0	5,658.1	5,687.5	5,668.4	15.3	15.1	-175.63	-24.3	341.1	203.6	174.5	29.09	6.996	
5,795.0	5,751.9	5,782.0	5,762.4	15.6	15.4	-177.56	-31.6	347.7	210.6	180.9	29.70	7.090	
5,800.0	5,756.9	5,787.0	5,767.3	15.6	15.4	-177.66	-32.0	348.0	211.0	181.2	29.74	7.095	
5,890.0	5,845.8	5,876.5	5,856.3	15.9	15.7	-179.37	-39.0	354.3	217.9	187.6	30.32	7.186	
5,900.0	5,855.6	5,886.4	5,866.2	16.0	15.8	-179.55	-39.8	355.0	218.7	188.3	30.39	7.196	
5,985.0	5,939.6	5,971.0	5,950.3	16.3	16.1	178.94	-46.3	360.9	225.4	194.4	30.95	7.282	
6,000.0	5,954.4	5,985.9	5,965.1	16.3	16.1	178.69	-47.5	361.9	226.6	195.5	31.05	7.297	
6,080.0	6,033.4	6,065.4	6,044.3	16.6	16.4	177.36	-53.7	367.5	233.0	201.4	31.58	7.379	
6,100.0	6,053.2	6,085.3	6,064.0	16.7	16.5	177.04	-55.3	368.8	234.7	202.9	31.71	7.400	
6,175.0	6,127.3	6,159.9	6,138.2	16.9	16.7	175.88	-61.1	374.0	240.9	208.6	32.22	7.476	
6,200.0	6,152.0	6,184.8	6,163.0	17.0	16.8	175.51	-63.0	375.8	242.9	210.6	32.38	7.502	
6,270.0	6,221.1	6,254.4	6,232.2	17.3	17.1	174.50	-68.4	380.6	248.8	216.0	32.86	7.573	
6,300.0	6,250.7	6,284.2	6,261.9	17.4	17.2	174.08	-70.7	382.7	251.4	218.3	33.06	7.603	
6,365.0	6,314.9	6,348.9	6,326.2	17.6	17.4	173.20	-75.8	387.2	256.9	223.4	33.51	7.668	
6,400.0	6,349.5	6,383.7	6,360.8	17.7	17.5	172.74	-78.5	389.7	260.0	226.2	33.75	7.703	
6,460.0	6,408.7	6,443.4	6,420.1	18.0	17.7	171.98	-83.1	393.8	265.2	231.0	34.16	7.763	
6,500.0	6,448.3	6,483.1	6,459.7	18.1	17.8	171.49	-86.2	396.6	268.7	234.2	34.44	7.802	
6,555.0	6,502.6	6,537.8	6,514.1	18.3	18.0	170.84	-90.5	400.4	273.5	238.7	34.82	7.856	
6,600.0	6,547.0	6,582.6	6,558.6	18.4	18.2	170.32	-94.0	403.5	277.5	242.4	35.13	7.900	
6,650.0	6,596.4	6,632.3	6,608.0	18.6	18.4	169.76	-97.8	407.0	282.0	246.5	35.48	7.948	
6,700.0	6,645.8	6,682.0	6,657.5	18.8	18.5	169.22	-101.7	410.5	286.5	250.6	35.83	7.996	
6,745.0	6,690.2	6,726.8	6,702.0	19.0	18.7	168.75	-105.2	413.6	290.5	254.4	36.14	8.039	
6,800.0	6,744.6	6,781.5	6,756.4	19.2	18.9	168.18	-109.4	417.4	295.5	259.0	36.53	8.090	
6,840.0	6,784.1	6,820.9	6,795.6	19.3	19.0	167.79	-112.5	420.1	299.2	262.4	36.80	8.128	
6,900.0	6,843.3	6,878.8	6,853.2	19.5	19.2	167.30	-116.7	423.9	304.9	267.7	37.21	8.193	
6,935.0	6,877.9	6,912.5	6,886.8	19.6	19.4	167.06	-119.0	425.9	308.4	271.0	37.45	8.235	
7,000.0	6,942.1	6,975.2	6,949.2	19.9	19.6	166.70	-122.7	429.3	315.3	277.4	37.90	8.320	
7,030.0	6,971.7	7,004.0	6,978.0	20.0	19.7	166.58	-124.3	430.7	318.6	280.5	38.10	8.362	
7,100.0	7,040.9	7,071.4	7,045.2	20.2	19.9	166.38	-127.6	433.7	326.7	288.1	38.58	8.467	
7,125.0	7,065.6	7,095.4	7,069.2	20.3	20.0	166.34	-128.6	434.6	329.7	290.9	38.75	8.507	
7,200.0	7,139.6	7,167.4	7,141.1	20.6	20.2	166.31	-131.2	436.9	339.0	299.7	39.26	8.635	
7,220.0	7,159.4	7,186.6	7,160.3	20.7	20.3	166.32	-131.8	437.4	341.6	302.2	39.40	8.670	
7,300.0	7,238.4	7,263.2	7,236.9	21.0	20.6	166.45	-133.6	439.1	352.3	312.3	39.94	8.821	
7,315.0	7,253.2	7,277.6	7,251.2	21.0	20.6	166.49	-133.9	439.3	354.4	314.3	40.04	8.850	
7,400.0	7,337.2	7,358.7	7,332.4	21.3	20.9	166.79	-134.8	440.2	366.5	325.9	40.60	9.027	
7,410.0	7,347.0	7,368.2	7,341.9	21.3	20.9	166.84	-134.9	440.2	368.0	327.3	40.67	9.049	
7,500.0	7,435.9	7,455.6	7,429.2	21.7	21.2	167.29	-135.0	440.3	381.7	340.4	41.27	9.247	
7,505.0	7,440.9	7,460.5	7,434.2	21.7	21.2	167.32	-135.0	440.3	382.4	341.1	41.31	9.258	
7,600.0	7,534.7	7,554.4	7,528.0	22.0	21.5	167.79	-135.0	440.3	396.9	355.0	41.96	9.460	
7,695.0	7,628.5	7,648.2	7,621.8	22.4	21.8	168.23	-135.0	440.3	411.5	368.9	42.61	9.657	
7,700.0	7,633.5	7,653.1	7,626.8	22.4	21.8	168.25	-135.0	440.3	412.3	369.6	42.65	9.667	
7,790.0	7,722.4	7,742.0	7,715.7	22.7	22.1	168.63	-135.0	440.3	426.1	382.8	43.27	9.847	
7,791.0	7,723.4	7,743.0	7,716.7	22.7	22.1	168.64	-135.0	440.3	426.2	383.0	43.27	9.849	
7,800.0	7,732.2	7,751.9	7,725.5	22.8	22.1	168.68	-135.0	440.3	427.6	384.3	43.34	9.867	
7,885.0	7,816.3	7,836.0	7,809.6	23.0	22.4	169.02	-135.0	440.3	439.9	396.0	43.92	10.017	
7,900.0	7,831.2	7,850.8	7,824.5	23.1	22.4	169.08	-135.0	440.3	442.0	397.9	44.02	10.040	
7,980.0	7,910.5	7,930.1	7,903.8	23.4	22.6	169.35	-135.0	440.3	452.2	407.7	44.57	10.147	
8,000.0	7,930.3	7,950.0	7,923.6	23.5	22.7	169.41	-135.0	440.3	454.6	409.9	44.71	10.169	
8,075.0	8,004.8	8,024.5	7,998.1	23.7	22.9	169.62	-135.0	440.3	463.0	417.8	45.22	10.240	
8,100.0	8,029.7	8,049.3	8,023.0	23.8	23.0	169.68	-135.0	440.3	465.6	420.2	45.39	10.258	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #202H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-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)			
8,170.0	8,099.4	8,119.0	8,092.7	24.1	23.2	169.84	-135.0	440.3	472.3	426.4	45.87	10.297	
8,200.0	8,129.3	8,148.9	8,122.6	24.2	23.3	169.90	-135.0	440.3	474.9	428.8	46.07	10.308	
8,265.0	8,194.0	8,213.7	8,187.3	24.4	23.5	170.02	-135.0	440.3	480.0	433.5	46.51	10.320	
8,300.0	8,229.0	8,248.6	8,222.3	24.5	23.7	170.07	-135.0	440.3	482.5	435.7	46.75	10.320	
8,360.0	8,288.8	8,308.5	8,282.1	24.7	23.8	170.16	-135.0	440.3	486.2	439.1	47.16	10.310	
8,400.0	8,328.8	8,348.4	8,322.1	24.9	24.0	170.20	-135.0	440.3	488.4	440.9	47.43	10.296	
8,455.0	8,383.7	8,403.4	8,377.0	25.1	24.1	170.26	-135.0	440.3	490.9	443.1	47.80	10.269	
8,500.0	8,428.7	8,448.3	8,422.0	25.2	24.3	170.29	-135.0	440.3	492.5	444.4	48.10	10.238	
8,550.0	8,478.7	8,498.3	8,472.0	25.4	24.5	170.33	-135.0	440.3	493.9	445.5	48.44	10.197	
8,600.0	8,528.7	8,548.3	8,522.0	25.5	24.6	170.35	-135.0	440.3	494.9	446.2	48.78	10.147	
8,645.0	8,573.6	8,593.3	8,566.9	25.7	24.8	170.36	-135.0	440.3	495.5	446.4	49.07	10.097	
8,691.4	8,620.0	8,639.6	8,613.3	25.8	24.9	-92.97	-135.0	440.3	495.7	446.3	49.38	10.038	
8,700.0	8,628.6	8,648.3	8,621.9	25.9	24.9	-92.97	-135.0	440.3	495.7	446.2	49.43	10.027	
8,740.0	8,668.6	8,688.3	8,661.9	26.0	25.1	-92.97	-135.0	440.3	495.7	446.0	49.69	9.975	
8,800.0	8,728.6	8,751.0	8,724.5	26.2	25.1	-92.51	-131.0	440.3	495.5	445.6	49.92	9.926	
8,835.0	8,763.6	8,786.8	8,759.8	26.3	25.1	-91.82	-125.0	440.3	495.3	445.3	50.04	9.898	
8,888.7	8,817.4	8,839.5	8,810.7	26.4	25.2	-90.25	-111.4	440.2	495.1	444.9	50.20	9.862	
8,900.0	8,828.6	8,850.1	8,820.7	26.5	25.2	-89.85	-108.0	440.2	495.1	444.9	50.23	9.856	
8,930.0	8,858.6	8,877.6	8,846.4	26.6	25.2	-88.71	-98.2	440.1	495.3	445.0	50.31	9.846	
9,000.0	8,928.6	8,936.8	8,899.5	26.8	25.2	-85.70	-72.1	440.0	497.2	446.8	50.41	9.863	
9,025.0	8,953.6	8,956.1	8,916.1	26.9	25.3	-84.56	-62.1	440.0	498.5	448.1	50.41	9.888	
9,100.0	9,028.6	9,008.7	8,958.9	27.1	25.3	-81.12	-31.9	439.9	505.4	455.1	50.29	10.049	
9,120.0	9,048.6	9,021.3	8,968.8	27.2	25.3	-80.22	-23.9	439.8	508.1	457.9	50.22	10.118	
9,200.0	9,128.6	9,066.8	9,002.2	27.4	25.3	-76.81	6.9	439.7	522.9	473.2	49.73	10.516	
9,215.0	9,143.6	9,075.0	9,007.9	27.5	25.4	-76.16	12.8	439.7	526.5	476.9	49.61	10.612	
9,300.0	9,228.6	9,113.4	9,033.3	27.7	25.4	-73.07	41.6	439.5	551.5	502.8	48.70	11.323	
9,310.0	9,238.6	9,117.6	9,035.9	27.8	25.4	-72.73	44.8	439.5	555.0	506.4	48.58	11.424	
9,400.0	9,328.6	9,150.0	9,055.2	28.1	25.4	-70.03	70.9	439.4	591.2	543.9	47.33	12.491	
9,405.0	9,333.6	9,150.0	9,055.2	28.1	25.4	-70.03	70.9	439.4	593.5	546.2	47.23	12.566	
9,500.0	9,428.6	9,181.7	9,072.4	28.4	25.4	-67.37	97.5	439.3	641.1	595.2	45.87	13.975	
9,595.0	9,523.6	9,200.0	9,081.5	28.7	25.4	-65.82	113.4	439.2	696.7	652.2	44.41	15.687	
9,600.0	9,528.6	9,206.9	9,084.7	28.7	25.4	-65.24	119.5	439.2	699.7	655.3	44.45	15.743	
9,690.0	9,618.6	9,225.0	9,092.9	29.0	25.4	-63.72	135.7	439.1	758.7	715.4	43.28	17.530	
9,700.0	9,628.6	9,225.0	9,092.9	29.0	25.4	-63.72	135.7	439.1	765.6	722.4	43.13	17.751	
9,785.0	9,713.6	9,250.0	9,103.1	29.3	25.5	-61.65	158.5	439.0	826.2	783.8	42.37	19.498	
9,800.0	9,728.6	9,250.0	9,103.1	29.3	25.5	-61.65	158.5	439.0	837.2	795.0	42.19	19.845	
9,880.0	9,808.6	9,257.9	9,106.1	29.6	25.5	-61.00	165.8	439.0	897.9	856.4	41.42	21.676	
9,900.0	9,828.6	9,260.7	9,107.1	29.6	25.5	-60.77	168.4	439.0	913.4	872.2	41.27	22.134	
9,975.0	9,903.6	9,275.0	9,112.1	29.9	25.5	-59.61	181.8	438.9	973.1	932.3	40.82	23.841	
10,000.0	9,928.6	9,275.0	9,112.1	30.0	25.5	-59.61	181.8	438.9	993.4	952.8	40.63	24.451	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-MWD+IFR1+MS							Rule Assigned:						Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	14.38	250.8	64.3	259.0					
95.0	95.0	88.3	88.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.00	43.148		
100.0	100.0	93.3	93.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.00	43.147		
190.0	190.0	183.3	183.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.01	43.093		
200.0	200.0	193.3	193.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.01	43.083		
285.0	285.0	278.3	278.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.03	42.966		
300.0	300.0	293.3	293.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.03	42.940		
380.0	380.0	373.3	373.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.05	42.770		
400.0	400.0	393.3	393.3	3.0	3.0	14.38	250.8	64.3	258.9	252.9	6.06	42.720		
475.0	475.0	468.3	468.3	3.0	3.0	14.38	250.8	64.3	258.9	252.8	6.09	42.508		
500.0	500.0	493.3	493.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.10	42.429		
570.0	570.0	563.3	563.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.14	42.183		
600.0	600.0	593.3	593.3	3.1	3.1	14.38	250.8	64.3	258.9	252.8	6.15	42.069		
665.0	665.0	658.3	658.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.19	41.801		
700.0	700.0	693.3	693.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.22	41.646		
760.0	760.0	753.3	753.3	3.1	3.1	14.38	250.8	64.3	258.9	252.7	6.26	41.364		
800.0	800.0	793.3	793.3	3.2	3.1	14.38	250.8	64.3	258.9	252.6	6.29	41.166		
855.0	855.0	848.3	848.3	3.2	3.2	14.38	250.8	64.3	258.9	252.6	6.33	40.880		
900.0	900.0	893.3	893.3	3.2	3.2	14.38	250.8	64.3	258.9	252.5	6.37	40.636		
950.0	950.0	943.3	943.3	3.2	3.2	14.38	250.8	64.3	258.9	252.5	6.42	40.354		
1,000.0	1,000.0	993.3	993.3	3.2	3.2	14.38	250.8	64.3	258.9	252.4	6.46	40.062		
1,045.0	1,045.0	1,038.3	1,038.3	3.3	3.3	14.38	250.8	64.3	258.9	252.4	6.51	39.791		
1,100.0	1,100.0	1,093.3	1,093.3	3.3	3.3	14.38	250.8	64.3	258.9	252.3	6.56	39.451		
1,140.0	1,140.0	1,133.3	1,133.3	3.3	3.3	14.38	250.8	64.3	258.9	252.3	6.61	39.197		
1,200.0	1,200.0	1,193.3	1,193.3	3.4	3.3	14.38	250.8	64.3	258.9	252.2	6.67	38.809		
1,235.0	1,235.0	1,228.3	1,228.3	3.4	3.4	14.38	250.8	64.3	258.9	252.2	6.71	38.578		
1,300.0	1,300.0	1,293.3	1,293.3	3.4	3.4	14.38	250.8	64.3	258.9	252.1	6.79	38.142		
1,330.0	1,330.0	1,323.3	1,323.3	3.4	3.4	14.38	250.8	64.3	258.9	252.1	6.82	37.938		
1,400.0	1,400.0	1,393.3	1,393.3	3.5	3.5	14.38	250.8	64.3	258.9	252.0	6.91	37.456		
1,425.0	1,425.0	1,418.3	1,418.3	3.5	3.5	14.38	250.8	64.3	258.9	252.0	6.94	37.282		
1,500.0	1,500.0	1,493.3	1,493.3	3.5	3.5	14.38	250.8	64.3	258.9	251.9	7.04	36.756		
1,520.0	1,520.0	1,513.3	1,513.3	3.6	3.6	14.38	250.8	64.3	258.9	251.8	7.07	36.615		
1,600.0	1,600.0	1,593.3	1,593.3	3.6	3.6	14.38	250.8	64.3	258.9	251.7	7.18	36.048		
1,615.0	1,615.0	1,608.3	1,608.3	3.6	3.6	14.38	250.8	64.3	258.9	251.7	7.20	35.941		
1,700.0	1,700.0	1,693.3	1,693.3	3.7	3.7	14.38	250.8	64.3	258.9	251.6	7.33	35.335		
1,710.0	1,710.0	1,703.3	1,703.3	3.7	3.7	14.38	250.8	64.3	258.9	251.6	7.34	35.264		
1,800.0	1,800.0	1,793.3	1,793.3	3.8	3.8	14.38	250.8	64.3	258.9	251.4	7.48	34.622		
1,805.0	1,805.0	1,798.3	1,798.3	3.8	3.8	14.38	250.8	64.3	258.9	251.4	7.49	34.587		
1,900.0	1,900.0	1,893.3	1,893.3	3.9	3.8	14.38	250.8	64.3	258.9	251.3	7.63	33.912		
1,995.0	1,995.0	1,988.3	1,988.3	3.9	3.9	14.38	250.8	64.3	258.9	251.1	7.79	33.242		
2,000.0	2,000.0	1,993.3	1,993.3	3.9	3.9	14.38	250.8	64.3	258.9	251.1	7.80	33.207		
2,090.0	2,090.0	2,091.5	2,091.5	4.0	4.1	-82.66	249.4	63.9	257.4	249.4	8.04	32.012		
2,100.0	2,100.0	2,102.5	2,102.5	4.0	4.1	-82.76	249.0	63.8	257.0	248.9	8.07	31.846		
2,185.0	2,184.9	2,195.5	2,195.3	4.3	4.7	-83.93	244.4	62.5	252.1	243.4	8.71	28.947		
2,200.0	2,199.8	2,211.8	2,211.7	4.4	4.8	-84.22	243.3	62.2	250.9	242.2	8.77	28.620		
2,280.0	2,279.6	2,294.5	2,294.0	4.9	4.9	-86.07	236.6	60.3	243.6	234.7	8.96	27.193		
2,300.0	2,299.5	2,314.3	2,313.7	5.1	4.9	-86.61	234.9	59.9	241.7	232.7	9.00	26.866		
2,375.0	2,373.9	2,388.4	2,387.5	5.5	5.0	-89.02	228.7	58.1	234.9	225.7	9.18	25.571		
2,400.0	2,398.7	2,413.0	2,412.1	5.7	5.0	-89.96	226.6	57.6	232.6	223.4	9.26	25.135		
2,450.2	2,448.3	2,462.3	2,461.2	5.8	5.1	-92.04	222.5	56.4	228.4	219.0	9.41	24.280		

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,470.0	2,467.9	2,481.8	2,480.6	5.8	5.1	-92.89	220.8	56.0	226.8	217.4	9.47	23.954	
2,500.0	2,497.5	2,511.3	2,510.0	5.8	5.2	-94.19	218.4	55.3	224.5	215.0	9.56	23.474	
2,565.0	2,561.7	2,575.1	2,573.5	5.9	5.3	-97.11	213.0	53.8	220.0	210.2	9.80	22.438	
2,600.0	2,596.3	2,609.4	2,607.8	6.0	5.3	-98.73	210.1	53.0	217.8	207.8	9.93	21.922	
2,660.0	2,655.6	2,668.4	2,666.4	6.1	5.5	-101.57	205.2	51.6	214.4	204.2	10.19	21.046	
2,700.0	2,695.1	2,707.6	2,705.6	6.2	5.5	-103.51	201.9	50.7	212.5	202.1	10.36	20.510	
2,755.0	2,749.4	2,761.6	2,759.4	6.3	5.6	-106.23	197.3	49.4	210.3	199.6	10.61	19.816	
2,800.0	2,793.8	2,805.8	2,803.4	6.4	5.7	-108.49	193.6	48.4	208.8	198.0	10.82	19.304	
2,850.0	2,843.2	2,854.9	2,852.3	6.5	5.8	-111.04	189.5	47.2	207.6	196.5	11.06	18.775	
2,900.0	2,892.6	2,904.0	2,901.2	6.6	6.0	-113.61	185.4	46.1	206.8	195.5	11.30	18.305	
2,945.0	2,937.1	2,948.2	2,945.2	6.7	6.1	-115.93	181.7	45.1	206.5	194.9	11.52	17.917	
2,965.1	2,956.9	2,967.9	2,964.8	6.7	6.1	-116.97	180.0	44.6	206.4	194.8	11.62	17.759 CC	
3,000.0	2,991.4	3,002.2	2,999.0	6.8	6.2	-118.78	177.1	43.8	206.5	194.7	11.80	17.503 ES	
3,040.0	3,030.9	3,041.4	3,038.1	6.9	6.3	-120.84	173.8	42.9	206.9	194.9	12.01	17.232	
3,100.0	3,090.1	3,100.4	3,096.8	7.0	6.4	-123.92	168.9	41.5	208.0	195.7	12.32	16.883	
3,135.0	3,124.7	3,134.7	3,131.0	7.1	6.5	-125.69	166.0	40.7	208.9	196.4	12.51	16.703	
3,200.0	3,188.9	3,198.5	3,194.6	7.3	6.7	-128.95	160.7	39.2	211.2	198.3	12.86	16.423	
3,230.0	3,218.5	3,228.0	3,224.0	7.4	6.8	-130.42	158.2	38.5	212.5	199.4	13.03	16.312	
3,300.0	3,287.7	3,296.7	3,292.4	7.6	7.0	-133.80	152.4	36.9	216.0	202.6	13.42	16.101	
3,325.0	3,312.4	3,321.3	3,316.9	7.6	7.0	-134.98	150.4	36.3	217.5	203.9	13.56	16.039	
3,400.0	3,386.4	3,394.9	3,390.2	7.8	7.2	-138.41	144.2	34.6	222.3	208.4	13.99	15.896	
3,420.0	3,406.2	3,414.5	3,409.8	7.9	7.3	-139.30	142.5	34.2	223.8	209.7	14.10	15.866	
3,500.0	3,485.2	3,493.1	3,488.0	8.1	7.5	-142.75	135.9	32.3	230.1	215.5	14.57	15.786	
3,515.0	3,500.0	3,507.8	3,502.7	8.2	7.6	-143.38	134.7	32.0	231.3	216.7	14.66	15.777	
3,600.0	3,584.0	3,591.3	3,585.8	8.4	7.8	-146.80	127.7	30.0	239.1	223.9	15.17	15.755 SF	
3,610.0	3,593.9	3,601.1	3,595.6	8.4	7.8	-147.19	126.9	29.8	240.0	224.8	15.23	15.755	
3,700.0	3,682.8	3,689.4	3,683.6	8.7	8.1	-150.54	119.4	27.7	249.2	233.4	15.78	15.786	
3,705.0	3,687.7	3,694.3	3,688.5	8.7	8.1	-150.72	119.0	27.6	249.7	233.9	15.82	15.789	
3,800.0	3,781.5	3,787.6	3,781.5	9.0	8.4	-153.98	111.2	25.4	260.3	243.9	16.40	15.866	
3,895.0	3,875.3	3,880.9	3,874.4	9.3	8.7	-156.99	103.4	23.2	271.6	254.6	17.00	15.977	
3,900.0	3,880.3	3,885.8	3,879.3	9.3	8.7	-157.14	103.0	23.1	272.3	255.2	17.03	15.984	
3,990.0	3,969.2	3,974.2	3,967.3	9.6	9.0	-159.75	95.5	21.1	283.7	266.1	17.61	16.114	
4,000.0	3,979.1	3,984.0	3,977.1	9.6	9.0	-160.03	94.7	20.8	285.0	267.3	17.67	16.130	
4,085.0	4,063.0	4,067.4	4,060.2	9.9	9.3	-162.29	87.7	18.9	296.3	278.1	18.21	16.270	
4,100.0	4,077.8	4,082.2	4,074.9	9.9	9.3	-162.67	86.5	18.5	298.4	280.1	18.31	16.297	
4,180.0	4,156.8	4,160.7	4,153.1	10.2	9.6	-164.62	79.9	16.7	309.5	290.7	18.83	16.440	
4,200.0	4,176.6	4,180.3	4,172.7	10.2	9.7	-165.09	78.2	16.2	312.4	293.4	18.96	16.478	
4,275.0	4,250.7	4,254.0	4,246.0	10.5	9.9	-166.76	72.0	14.5	323.2	303.8	19.45	16.620	
4,300.0	4,275.4	4,278.5	4,270.5	10.5	10.0	-167.29	70.0	14.0	326.9	307.3	19.61	16.669	
4,370.0	4,344.5	4,347.3	4,339.0	10.8	10.2	-168.72	64.2	12.3	337.3	317.2	20.07	16.806	
4,400.0	4,374.1	4,376.7	4,368.3	10.9	10.3	-169.31	61.7	11.7	341.8	321.5	20.27	16.865	
4,465.0	4,438.3	4,440.5	4,431.9	11.1	10.5	-170.53	56.4	10.2	351.7	331.0	20.70	16.994	
4,500.0	4,472.9	4,474.9	4,466.1	11.2	10.6	-171.16	53.5	9.4	357.1	336.2	20.93	17.064	
4,560.0	4,532.2	4,533.8	4,524.8	11.4	10.8	-172.20	48.5	8.0	366.5	345.1	21.33	17.184	
4,600.0	4,571.7	4,573.1	4,563.9	11.5	11.0	-172.86	45.2	7.1	372.8	351.2	21.59	17.264	
4,655.0	4,626.0	4,627.1	4,617.7	11.7	11.1	-173.73	40.7	5.8	381.5	359.5	21.96	17.373	
4,700.0	4,670.4	4,671.3	4,661.7	11.9	11.3	-174.42	37.0	4.8	388.7	366.5	22.26	17.462	
4,750.0	4,719.8	4,720.3	4,710.6	12.0	11.5	-175.15	32.9	3.6	396.8	374.2	22.60	17.560	
4,800.0	4,769.2	4,769.4	4,759.5	12.2	11.6	-175.86	28.8	2.5	404.9	382.0	22.93	17.657	
4,845.0	4,813.6	4,813.6	4,803.5	12.3	11.8	-176.47	25.1	1.4	412.3	389.1	23.24	17.744	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-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)			
4,900.0	4,868.0	4,867.6	4,857.3	12.5	12.0	-177.19	20.5	0.2	421.4	397.8	23.61	17.849	
4,940.0	4,907.5	4,906.9	4,896.5	12.7	12.1	-177.69	17.2	-0.7	428.0	404.1	23.88	17.924	
5,000.0	4,966.7	4,965.8	4,955.1	12.9	12.3	-178.41	12.3	-2.1	438.0	413.7	24.29	18.036	
5,035.0	5,001.3	5,000.2	4,989.4	13.0	12.4	-178.82	9.4	-2.9	443.9	419.4	24.52	18.101	
5,100.0	5,065.5	5,064.0	5,053.0	13.2	12.6	-179.55	4.0	-4.4	454.9	429.9	24.97	18.219	
5,130.0	5,095.1	5,093.4	5,082.3	13.3	12.7	-179.88	1.6	-5.1	459.9	434.8	25.17	18.272	
5,200.0	5,164.3	5,162.2	5,150.8	13.5	13.0	179.39	-4.2	-6.7	471.9	446.2	25.65	18.396	
5,225.0	5,189.0	5,186.7	5,175.2	13.6	13.0	179.14	-6.3	-7.3	476.1	450.3	25.82	18.439	
5,300.0	5,263.0	5,260.3	5,248.6	13.9	13.3	178.40	-12.5	-9.0	489.0	462.7	26.34	18.568	
5,320.0	5,282.8	5,280.0	5,268.1	14.0	13.4	178.22	-14.1	-9.5	492.4	466.0	26.47	18.601	
5,400.0	5,361.8	5,358.5	5,346.4	14.2	13.6	177.49	-20.7	-11.3	506.3	479.2	27.02	18.734	
5,415.0	5,376.6	5,373.3	5,361.0	14.3	13.7	177.35	-21.9	-11.6	508.9	481.7	27.13	18.759	
5,500.0	5,460.6	5,456.7	5,444.2	14.6	14.0	176.63	-28.9	-13.6	523.7	495.9	27.71	18.895	
5,510.0	5,470.5	5,466.5	5,454.0	14.6	14.0	176.55	-29.8	-13.8	525.4	497.6	27.78	18.911	
5,600.0	5,559.3	5,554.9	5,542.0	14.9	14.3	175.83	-37.2	-15.9	541.2	512.8	28.41	19.051	
5,605.0	5,564.3	5,559.8	5,546.9	14.9	14.3	175.79	-37.6	-16.0	542.0	513.6	28.44	19.058	
5,700.0	5,658.1	5,653.1	5,639.8	15.3	14.7	175.07	-45.4	-18.2	558.8	529.7	29.10	19.201	
5,795.0	5,751.9	5,746.3	5,732.7	15.6	15.0	174.40	-53.3	-20.4	575.6	545.8	29.76	19.339	
5,800.0	5,756.9	5,751.2	5,737.6	15.6	15.0	174.37	-53.7	-20.5	576.4	546.6	29.80	19.346	
5,890.0	5,845.8	5,839.6	5,825.6	15.9	15.3	173.77	-61.1	-22.5	592.4	562.0	30.42	19.472	
5,900.0	5,855.6	5,849.4	5,835.4	16.0	15.4	173.70	-61.9	-22.8	594.2	563.7	30.49	19.486	
5,985.0	5,939.6	5,932.9	5,918.6	16.3	15.6	173.17	-68.9	-24.7	609.4	578.3	31.09	19.601	
6,000.0	5,954.4	5,947.6	5,933.2	16.3	15.7	173.08	-70.2	-25.1	612.0	580.9	31.19	19.621	
6,080.0	6,033.4	6,026.2	6,011.5	16.6	16.0	172.60	-76.8	-26.9	626.4	594.6	31.75	19.726	
6,100.0	6,053.2	6,045.8	6,031.0	16.7	16.0	172.49	-78.4	-27.4	630.0	598.1	31.89	19.752	
6,175.0	6,127.3	6,119.4	6,104.4	16.9	16.3	172.06	-84.6	-29.1	643.4	611.0	32.42	19.846	
6,200.0	6,152.0	6,144.0	6,128.8	17.0	16.4	171.93	-86.6	-29.7	647.9	615.3	32.60	19.877	
6,270.0	6,221.1	6,212.7	6,197.3	17.3	16.6	171.55	-92.4	-31.3	660.5	627.4	33.09	19.963	
6,300.0	6,250.7	6,242.2	6,226.6	17.4	16.7	171.40	-94.9	-32.0	665.9	632.6	33.30	19.999	
6,365.0	6,314.9	6,306.0	6,290.2	17.6	17.0	171.07	-100.2	-33.4	677.7	643.9	33.76	20.076	
6,400.0	6,349.5	6,340.3	6,324.5	17.7	17.1	170.90	-103.1	-34.2	684.0	650.0	34.00	20.116	
6,460.0	6,408.7	6,399.2	6,383.1	18.0	17.3	170.61	-108.1	-35.6	694.9	660.5	34.43	20.184	
6,500.0	6,448.3	6,438.5	6,422.3	18.1	17.4	170.42	-111.4	-36.5	702.1	667.4	34.71	20.229	
6,555.0	6,502.6	6,492.5	6,476.1	18.3	17.6	170.17	-115.9	-37.8	712.1	677.0	35.10	20.290	
6,600.0	6,547.0	6,536.7	6,520.1	18.4	17.8	169.97	-119.6	-38.8	720.3	684.9	35.41	20.341	
6,650.0	6,596.4	6,587.9	6,571.1	18.6	17.9	169.76	-123.7	-40.0	729.3	693.6	35.77	20.389	
6,700.0	6,645.8	6,639.2	6,622.3	18.8	18.1	169.59	-127.3	-41.0	738.2	702.1	36.13	20.430	
6,745.0	6,690.2	6,685.5	6,668.4	19.0	18.3	169.47	-130.3	-41.8	746.1	709.6	36.46	20.462	
6,800.0	6,744.6	6,742.1	6,725.0	19.2	18.5	169.37	-133.3	-42.7	755.6	718.7	36.87	20.495	
6,840.0	6,784.1	6,783.3	6,766.2	19.3	18.6	169.32	-135.2	-43.2	762.4	725.2	37.16	20.515	
6,900.0	6,843.3	6,843.3	6,828.0	19.5	18.8	169.28	-137.5	-43.8	772.4	734.8	37.60	20.540	
6,935.0	6,877.9	6,881.4	6,864.2	19.6	19.0	169.28	-138.6	-44.1	778.1	740.2	37.86	20.552	
7,000.0	6,942.1	6,948.6	6,931.4	19.9	19.2	169.33	-140.0	-44.5	788.5	750.2	38.34	20.569	
7,030.0	6,971.7	6,979.7	6,962.4	20.0	19.3	169.37	-140.3	-44.6	793.3	754.7	38.56	20.575	
7,100.0	7,040.9	7,051.4	7,034.2	20.2	19.5	169.50	-140.6	-44.7	804.1	765.1	39.04	20.596	
7,125.0	7,065.6	7,076.1	7,058.9	20.3	19.6	169.55	-140.6	-44.7	808.0	768.8	39.21	20.608	
7,200.0	7,139.6	7,150.2	7,132.9	20.6	19.8	169.70	-140.6	-44.7	819.5	779.8	39.70	20.642	
7,220.0	7,159.4	7,169.9	7,152.7	20.7	19.9	169.74	-140.6	-44.7	822.6	782.8	39.84	20.650	
7,300.0	7,238.4	7,249.0	7,231.7	21.0	20.1	169.89	-140.6	-44.7	834.9	794.6	40.37	20.683	
7,315.0	7,253.2	7,263.8	7,246.5	21.0	20.2	169.92	-140.6	-44.7	837.3	796.8	40.47	20.689	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #203H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-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)			
7,400.0	7,337.2	7,347.7	7,330.5	21.3	20.5	170.07	-140.6	-44.7	850.4	809.3	41.04	20.722	
7,410.0	7,347.0	7,357.6	7,340.3	21.3	20.5	170.09	-140.6	-44.7	851.9	810.8	41.10	20.725	
7,500.0	7,435.9	7,446.5	7,429.2	21.7	20.8	170.25	-140.6	-44.7	865.8	824.1	41.71	20.758	
7,505.0	7,440.9	7,451.4	7,434.2	21.7	20.8	170.26	-140.6	-44.7	866.6	824.8	41.74	20.760	
7,600.0	7,534.7	7,545.3	7,528.0	22.0	21.1	170.42	-140.6	-44.7	881.2	838.8	42.38	20.793	
7,695.0	7,628.5	7,639.1	7,621.8	22.4	21.4	170.58	-140.6	-44.7	895.9	852.9	43.02	20.824	
7,700.0	7,633.5	7,644.0	7,626.8	22.4	21.4	170.59	-140.6	-44.7	896.7	853.6	43.05	20.826	
7,790.0	7,722.4	7,732.9	7,715.7	22.7	21.7	170.74	-140.6	-44.7	910.6	866.9	43.66	20.855	
7,791.0	7,723.4	7,734.0	7,716.7	22.7	21.7	170.74	-140.6	-44.7	910.7	867.1	43.67	20.855	
7,800.0	7,732.2	7,742.8	7,725.5	22.8	21.7	170.75	-140.6	-44.7	912.1	868.4	43.73	20.858	
7,885.0	7,816.3	7,826.9	7,809.6	23.0	22.0	170.90	-140.6	-44.7	924.5	880.2	44.30	20.869	
7,900.0	7,831.2	7,841.7	7,824.5	23.1	22.0	170.92	-140.6	-44.7	926.5	882.1	44.40	20.868	
7,980.0	7,910.5	7,921.0	7,903.8	23.4	22.3	171.04	-140.6	-44.7	936.9	891.9	44.94	20.847	
8,000.0	7,930.3	7,940.9	7,923.6	23.5	22.3	171.07	-140.6	-44.7	939.3	894.2	45.08	20.838	
8,075.0	8,004.8	8,015.4	7,998.1	23.7	22.6	171.16	-140.6	-44.7	947.7	902.2	45.58	20.792	
8,100.0	8,029.7	8,040.3	8,023.0	23.8	22.7	171.19	-140.6	-44.7	950.3	904.6	45.75	20.772	
8,170.0	8,099.4	8,109.9	8,092.7	24.1	22.9	171.26	-140.6	-44.7	957.0	910.8	46.22	20.706	
8,200.0	8,129.3	8,139.8	8,122.6	24.2	23.0	171.29	-140.6	-44.7	959.7	913.2	46.42	20.672	
8,265.0	8,194.0	8,204.6	8,187.3	24.4	23.2	171.34	-140.6	-44.7	964.8	917.9	46.86	20.589	
8,300.0	8,229.0	8,239.5	8,222.3	24.5	23.3	171.37	-140.6	-44.7	967.3	920.2	47.09	20.539	
8,360.0	8,288.8	8,299.4	8,282.1	24.7	23.5	171.41	-140.6	-44.7	971.0	923.5	47.50	20.444	
8,400.0	8,328.8	8,339.3	8,322.1	24.9	23.6	171.43	-140.6	-44.7	973.2	925.4	47.76	20.374	
8,455.0	8,383.7	8,394.3	8,377.0	25.1	23.8	171.46	-140.6	-44.7	975.7	927.5	48.13	20.271	
8,500.0	8,428.7	8,439.2	8,422.0	25.2	24.0	171.47	-140.6	-44.7	977.3	928.9	48.43	20.180	
8,550.0	8,478.7	8,489.2	8,472.0	25.4	24.1	171.49	-140.6	-44.7	978.8	930.0	48.76	20.072	
8,600.0	8,528.7	8,539.2	8,522.0	25.5	24.3	171.50	-140.6	-44.7	979.8	930.7	49.10	19.956	
8,645.0	8,573.6	8,584.2	8,566.9	25.7	24.4	171.50	-140.6	-44.7	980.3	930.9	49.39	19.848	
8,691.4	8,620.0	8,630.6	8,613.3	25.8	24.6	-91.83	-140.6	-44.7	980.5	930.8	49.69	19.731	
8,700.0	8,628.6	8,639.2	8,621.9	25.9	24.6	-91.83	-140.6	-44.7	980.5	930.7	49.75	19.709	
8,740.0	8,668.6	8,679.2	8,661.9	26.0	24.8	-91.83	-140.6	-44.7	980.5	930.5	50.00	19.608	
8,800.0	8,728.6	8,739.2	8,721.9	26.2	25.0	-91.83	-140.6	-44.7	980.5	930.1	50.39	19.459	
8,835.0	8,763.6	8,774.2	8,756.9	26.3	25.1	-91.83	-140.6	-44.7	980.5	929.9	50.61	19.372	
8,900.0	8,828.6	8,839.2	8,821.9	26.5	25.3	-91.83	-140.6	-44.7	980.5	929.4	51.03	19.212	
8,930.0	8,858.6	8,869.2	8,851.9	26.6	25.4	-91.83	-140.6	-44.7	980.5	929.2	51.23	19.139	
9,000.0	8,928.6	8,939.2	8,921.9	26.8	25.6	-91.83	-140.6	-44.7	980.5	928.8	51.68	18.972	
9,025.0	8,953.6	8,964.5	8,947.2	26.9	25.7	-91.83	-140.6	-44.7	980.5	928.6	51.84	18.915	
9,100.0	9,028.6	9,043.1	9,025.4	27.1	25.7	-91.41	-133.3	-44.7	980.3	928.2	52.10	18.817	
9,120.0	9,048.6	9,063.5	9,045.4	27.2	25.7	-91.17	-129.4	-44.7	980.2	928.1	52.16	18.793	
9,179.0	9,107.7	9,121.3	9,101.0	27.4	25.7	-90.25	-113.5	-44.8	980.1	927.8	52.34	18.727	
9,200.0	9,128.6	9,140.8	9,119.2	27.4	25.8	-89.85	-106.7	-44.8	980.1	927.7	52.39	18.707	
9,215.0	9,143.6	9,154.4	9,131.8	27.5	25.8	-89.54	-101.5	-44.8	980.2	927.8	52.43	18.694	
9,300.0	9,228.6	9,225.0	9,194.3	27.7	25.8	-87.64	-68.8	-45.0	981.5	928.9	52.63	18.649	
9,310.0	9,238.6	9,232.5	9,200.6	27.8	25.8	-87.40	-64.8	-45.0	981.8	929.2	52.65	18.648	
9,400.0	9,328.6	9,294.1	9,250.1	28.1	25.8	-85.28	-28.3	-45.2	986.4	933.7	52.77	18.693	
9,405.0	9,333.6	9,297.1	9,252.5	28.1	25.8	-85.16	-26.3	-45.2	986.8	934.0	52.77	18.699	
9,500.0	9,428.6	9,350.0	9,290.7	28.4	25.8	-83.05	10.2	-45.3	996.6	943.8	52.76	18.890	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-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)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.64	-3.3	-295.0	295.1				
95.0	95.0	87.0	87.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.168	
100.0	100.0	92.0	92.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.168	
190.0	190.0	182.0	182.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.150	
200.0	200.0	192.0	192.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.00	49.147	
285.0	285.0	277.0	277.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.01	49.108	
300.0	300.0	292.0	292.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.01	49.099	
380.0	380.0	372.0	372.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.02	49.041	
400.0	400.0	392.0	392.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.02	49.024	
475.0	475.0	467.0	467.0	3.0	3.0	-90.64	-3.3	-295.0	295.0	289.0	6.03	48.952	
500.0	500.0	492.0	492.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.03	48.924	
570.0	570.0	562.0	562.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.04	48.839	
600.0	600.0	592.0	592.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.05	48.798	
665.0	665.0	657.0	657.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.06	48.703	
700.0	700.0	692.0	692.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	289.0	6.06	48.648	
760.0	760.0	752.0	752.0	3.1	3.1	-90.64	-3.3	-295.0	295.0	288.9	6.08	48.546	
800.0	800.0	792.0	792.0	3.2	3.1	-90.64	-3.3	-295.0	295.0	288.9	6.09	48.473	
855.0	855.0	847.0	847.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.10	48.367	
900.0	900.0	892.0	892.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.11	48.275	
950.0	950.0	942.0	942.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.12	48.168	
1,000.0	1,000.0	992.0	992.0	3.2	3.2	-90.64	-3.3	-295.0	295.0	288.9	6.14	48.054	
1,045.0	1,045.0	1,037.0	1,037.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.9	6.15	47.948	
1,100.0	1,100.0	1,092.0	1,092.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.17	47.812	
1,140.0	1,140.0	1,132.0	1,132.0	3.3	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.18	47.710	
1,200.0	1,200.0	1,192.0	1,192.0	3.4	3.3	-90.64	-3.3	-295.0	295.0	288.8	6.20	47.550	
1,235.0	1,235.0	1,227.0	1,227.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.22	47.453	
1,300.0	1,300.0	1,292.0	1,292.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.24	47.268	
1,330.0	1,330.0	1,322.0	1,322.0	3.4	3.4	-90.64	-3.3	-295.0	295.0	288.8	6.25	47.180	
1,400.0	1,400.0	1,392.0	1,392.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.28	46.968	
1,425.0	1,425.0	1,417.0	1,417.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.29	46.890	
1,500.0	1,500.0	1,492.0	1,492.0	3.5	3.5	-90.64	-3.3	-295.0	295.0	288.7	6.32	46.650	
1,520.0	1,520.0	1,512.0	1,512.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.7	6.33	46.585	
1,600.0	1,600.0	1,592.0	1,592.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.6	6.37	46.317	
1,615.0	1,615.0	1,607.0	1,607.0	3.6	3.6	-90.64	-3.3	-295.0	295.0	288.6	6.38	46.266	
1,700.0	1,700.0	1,692.0	1,692.0	3.7	3.7	-90.64	-3.3	-295.0	295.0	288.6	6.42	45.969	
1,710.0	1,710.0	1,702.0	1,702.0	3.7	3.7	-90.64	-3.3	-295.0	295.0	288.6	6.42	45.933	
1,800.0	1,800.0	1,792.0	1,792.0	3.8	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.47	45.607	
1,805.0	1,805.0	1,797.0	1,797.0	3.8	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.47	45.589	
1,900.0	1,900.0	1,892.0	1,892.0	3.9	3.8	-90.64	-3.3	-295.0	295.0	288.5	6.52	45.233	
1,995.0	1,995.0	1,987.0	1,987.0	3.9	3.9	-90.64	-3.3	-295.0	295.0	288.4	6.58	44.868	
2,000.0	2,000.0	1,992.0	1,992.0	3.9	3.9	-90.64	-3.3	-295.0	295.0	288.4	6.58	44.848 CC, ES	
2,090.0	2,090.0	2,075.1	2,075.1	4.0	4.0	172.63	-3.8	-295.9	297.4	290.4	6.92	42.960	
2,100.0	2,100.0	2,084.3	2,084.3	4.0	4.0	172.61	-3.9	-296.1	297.9	291.0	6.97	42.771	
2,185.0	2,184.9	2,161.8	2,161.7	4.3	4.1	172.38	-5.5	-299.0	305.3	297.3	8.00	38.164	
2,200.0	2,199.8	2,175.4	2,175.3	4.4	4.2	172.33	-5.9	-299.7	307.1	298.9	8.22	37.358	
2,280.0	2,279.6	2,252.2	2,251.9	4.9	4.5	172.00	-8.5	-304.3	318.5	309.4	9.07	35.102	
2,300.0	2,299.5	2,272.0	2,271.6	5.1	4.6	171.93	-9.2	-305.5	321.7	312.5	9.27	34.718	
2,375.0	2,373.9	2,345.8	2,345.2	5.5	4.7	171.68	-11.7	-310.0	335.1	325.2	9.85	34.021	
2,400.0	2,398.7	2,370.3	2,369.7	5.7	4.8	171.61	-12.5	-311.4	339.9	329.9	10.03	33.898 SF	
2,450.2	2,448.3	2,419.3	2,418.6	5.8	4.8	171.49	-14.2	-314.4	350.3	340.1	10.22	34.276	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-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)			
2,470.0	2,467.9	2,438.7	2,438.0	5.8	4.9	171.46	-14.9	-315.6	354.6	344.3	10.28	34.497	
2,500.0	2,497.5	2,468.0	2,467.2	5.8	4.9	171.42	-15.9	-317.4	361.0	350.7	10.37	34.824	
2,565.0	2,561.7	2,531.5	2,530.5	5.9	5.0	171.33	-18.0	-321.3	375.1	364.5	10.57	35.483	
2,600.0	2,596.3	2,565.7	2,564.6	6.0	5.1	171.29	-19.2	-323.3	382.6	371.9	10.68	35.815	
2,660.0	2,655.6	2,624.2	2,623.0	6.1	5.2	171.21	-21.2	-326.9	395.5	384.7	10.90	36.297	
2,700.0	2,695.1	2,663.3	2,662.0	6.2	5.3	171.17	-22.5	-329.3	404.2	393.1	11.04	36.594	
2,755.0	2,749.4	2,717.0	2,715.6	6.3	5.4	171.11	-24.4	-332.5	416.0	404.8	11.26	36.948	
2,800.0	2,793.8	2,760.9	2,759.4	6.4	5.5	171.06	-25.9	-335.2	425.7	414.3	11.44	37.213	
2,850.0	2,843.2	2,809.8	2,808.1	6.5	5.6	171.01	-27.5	-338.2	436.5	424.9	11.65	37.466	
2,900.0	2,892.6	2,858.6	2,856.8	6.6	5.7	170.96	-29.2	-341.1	447.3	435.4	11.87	37.694	
2,945.0	2,937.1	2,902.5	2,900.7	6.7	5.8	170.92	-30.7	-343.8	457.0	444.9	12.07	37.868	
3,000.0	2,991.4	2,956.2	2,954.2	6.8	6.0	170.88	-32.5	-347.1	468.9	456.6	12.32	38.057	
3,040.0	3,030.9	2,995.3	2,993.2	6.9	6.0	170.84	-33.9	-349.5	477.5	465.0	12.51	38.171	
3,100.0	3,090.1	3,053.9	3,051.6	7.0	6.2	170.80	-35.9	-353.0	490.4	477.6	12.80	38.320	
3,135.0	3,124.7	3,088.1	3,085.7	7.1	6.3	170.77	-37.0	-355.1	498.0	485.0	12.97	38.390	
3,200.0	3,188.9	3,151.5	3,149.0	7.3	6.5	170.72	-39.2	-359.0	512.0	498.7	13.30	38.501	
3,230.0	3,218.5	3,180.8	3,178.3	7.4	6.5	170.70	-40.2	-360.8	518.5	505.0	13.45	38.539	
3,300.0	3,287.7	3,249.2	3,246.4	7.6	6.7	170.66	-42.5	-364.9	533.6	519.8	13.82	38.614	
3,325.0	3,312.4	3,273.6	3,270.8	7.6	6.8	170.64	-43.4	-366.4	539.0	525.0	13.95	38.632	
3,400.0	3,386.4	3,346.8	3,343.9	7.8	7.0	170.59	-45.9	-370.8	555.2	540.8	14.36	38.671	
3,420.0	3,406.2	3,366.3	3,363.3	7.9	7.1	170.58	-46.5	-372.0	559.5	545.0	14.47	38.676	
3,500.0	3,485.2	3,444.5	3,441.3	8.1	7.3	170.54	-49.2	-376.8	576.7	561.8	14.91	38.684	
3,515.0	3,500.0	3,459.1	3,455.9	8.2	7.3	170.53	-49.7	-377.7	580.0	565.0	14.99	38.682	
3,600.0	3,584.0	3,542.1	3,538.7	8.4	7.6	170.48	-52.5	-382.7	598.3	582.8	15.48	38.662	
3,610.0	3,593.9	3,551.9	3,548.4	8.4	7.6	170.48	-52.9	-383.3	600.5	584.9	15.53	38.657	
3,700.0	3,682.8	3,639.7	3,636.1	8.7	7.9	170.43	-55.9	-388.7	619.9	603.8	16.05	38.610	
3,705.0	3,687.7	3,644.6	3,640.9	8.7	7.9	170.43	-56.0	-389.0	621.0	604.9	16.08	38.607	
3,800.0	3,781.5	3,737.4	3,733.5	9.0	8.2	170.39	-59.2	-394.6	641.5	624.8	16.65	38.537	
3,895.0	3,875.3	3,830.1	3,826.0	9.3	8.5	170.35	-62.4	-400.3	661.9	644.7	17.22	38.450	
3,900.0	3,880.3	3,835.0	3,830.9	9.3	8.5	170.34	-62.5	-400.5	663.0	645.8	17.25	38.445	
3,990.0	3,969.2	3,922.9	3,918.5	9.6	8.8	170.31	-65.5	-405.9	682.4	664.6	17.79	38.352	
4,000.0	3,979.1	3,932.7	3,928.3	9.6	8.8	170.30	-65.9	-406.5	684.6	666.7	17.86	38.341	
4,085.0	4,063.0	4,015.7	4,011.1	9.9	9.1	170.27	-68.7	-411.5	702.9	684.6	18.38	38.244	
4,100.0	4,077.8	4,030.3	4,025.7	9.9	9.1	170.26	-69.2	-412.4	706.2	687.7	18.47	38.226	
4,180.0	4,156.8	4,108.4	4,103.6	10.2	9.4	170.24	-71.9	-417.2	723.4	704.5	18.97	38.129	
4,200.0	4,176.6	4,128.0	4,123.1	10.2	9.4	170.23	-72.5	-418.4	727.7	708.7	19.10	38.104	
4,275.0	4,250.7	4,201.2	4,196.2	10.5	9.7	170.20	-75.0	-422.8	743.9	724.4	19.57	38.009	
4,300.0	4,275.4	4,225.6	4,220.5	10.5	9.8	170.19	-75.9	-424.3	749.3	729.6	19.73	37.977	
4,370.0	4,344.5	4,294.0	4,288.7	10.8	10.0	170.17	-78.2	-428.5	764.4	744.2	20.18	37.886	
4,400.0	4,374.1	4,323.2	4,317.9	10.9	10.1	170.16	-79.2	-430.2	770.9	750.5	20.37	37.847	
4,465.0	4,438.3	4,386.7	4,381.2	11.1	10.3	170.14	-81.4	-434.1	784.9	764.1	20.79	37.760	
4,500.0	4,472.9	4,420.9	4,415.3	11.2	10.4	170.13	-82.5	-436.2	792.5	771.5	21.01	37.714	
4,560.0	4,532.2	4,479.5	4,473.8	11.4	10.6	170.12	-84.5	-439.8	805.4	784.0	21.40	37.634	
4,600.0	4,571.7	4,518.5	4,512.7	11.5	10.7	170.10	-85.9	-442.1	814.1	792.4	21.66	37.581	
4,655.0	4,626.0	4,572.2	4,566.3	11.7	10.9	170.09	-87.7	-445.4	825.9	803.9	22.02	37.507	
4,700.0	4,670.4	4,616.2	4,610.1	11.9	11.1	170.08	-89.2	-448.1	835.6	813.3	22.31	37.447	
4,750.0	4,719.8	4,665.0	4,658.8	12.0	11.2	170.06	-90.9	-451.0	846.4	823.8	22.64	37.380	
4,800.0	4,769.2	4,713.8	4,707.5	12.2	11.4	170.05	-92.5	-454.0	857.2	834.2	22.97	37.315	
4,845.0	4,813.6	4,757.8	4,751.4	12.3	11.5	170.04	-94.0	-456.7	866.9	843.6	23.27	37.255	
4,900.0	4,868.0	4,811.5	4,804.9	12.5	11.7	170.03	-95.9	-459.9	878.8	855.1	23.63	37.183	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #301H - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8673-MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
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	
4,940.0	4,907.5	4,850.5	4,843.9	12.7	11.9	170.02	-97.2	-462.3	887.4	863.5	23.90	37.131		
5,000.0	4,966.7	4,909.1	4,902.4	12.9	12.1	170.00	-99.2	-465.9	900.4	876.1	24.30	37.053		
5,035.0	5,001.3	4,943.3	4,936.4	13.0	12.2	170.00	-100.4	-468.0	907.9	883.4	24.53	37.008		
5,100.0	5,065.5	5,006.8	4,999.8	13.2	12.4	169.98	-102.5	-471.8	921.9	897.0	24.97	36.926		
5,130.0	5,095.1	5,036.0	5,029.0	13.3	12.5	169.98	-103.5	-473.6	928.4	903.2	25.17	36.888		
5,200.0	5,164.3	5,104.4	5,097.2	13.5	12.7	169.96	-105.9	-477.8	943.5	917.9	25.64	36.800		
5,225.0	5,189.0	5,128.8	5,121.5	13.6	12.8	169.96	-106.7	-479.3	948.9	923.1	25.81	36.769		
5,300.0	5,263.0	5,202.0	5,194.6	13.9	13.1	169.94	-109.2	-483.7	965.1	938.8	26.31	36.677		
5,320.0	5,282.8	5,221.6	5,214.0	14.0	13.1	169.94	-109.9	-484.9	969.4	943.0	26.45	36.653		
5,400.0	5,361.8	5,299.7	5,292.0	14.2	13.4	169.92	-112.5	-489.6	986.7	959.7	26.99	36.557		
5,415.0	5,376.6	5,314.3	5,306.6	14.3	13.5	169.92	-113.0	-490.5	989.9	962.8	27.09	36.539		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #302H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8992-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)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.65	-3.7	-325.0	325.1				
95.0	95.0	86.4	86.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.169	
100.0	100.0	91.4	91.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.169	
190.0	190.0	181.4	181.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.149	
200.0	200.0	191.4	191.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.00	54.145	
285.0	285.0	276.4	276.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.01	54.102	
300.0	300.0	291.4	291.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.01	54.092	
380.0	380.0	371.4	371.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.02	54.029	
400.0	400.0	391.4	391.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.02	54.010	
475.0	475.0	466.4	466.4	3.0	3.0	-90.65	-3.7	-325.0	325.0	319.0	6.03	53.930	
500.0	500.0	491.4	491.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.03	53.900	
570.0	570.0	561.4	561.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.04	53.806	
600.0	600.0	591.4	591.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.05	53.762	
665.0	665.0	656.4	656.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.06	53.657	
700.0	700.0	691.4	691.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	319.0	6.06	53.596	
760.0	760.0	751.4	751.4	3.1	3.1	-90.65	-3.7	-325.0	325.0	318.9	6.08	53.483	
800.0	800.0	791.4	791.4	3.2	3.1	-90.65	-3.7	-325.0	325.0	318.9	6.09	53.403	
855.0	855.0	846.4	846.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.10	53.286	
900.0	900.0	891.4	891.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.11	53.185	
950.0	950.0	941.4	941.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.12	53.067	
1,000.0	1,000.0	991.4	991.4	3.2	3.2	-90.65	-3.7	-325.0	325.0	318.9	6.14	52.942	
1,045.0	1,045.0	1,036.4	1,036.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.9	6.15	52.825	
1,100.0	1,100.0	1,091.4	1,091.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.9	6.17	52.676	
1,140.0	1,140.0	1,131.4	1,131.4	3.3	3.3	-90.65	-3.7	-325.0	325.0	318.8	6.18	52.563	
1,200.0	1,200.0	1,191.4	1,191.4	3.4	3.3	-90.65	-3.7	-325.0	325.0	318.8	6.20	52.386	
1,235.0	1,235.0	1,226.4	1,226.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.22	52.280	
1,300.0	1,300.0	1,291.4	1,291.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.24	52.076	
1,330.0	1,330.0	1,321.4	1,321.4	3.4	3.4	-90.65	-3.7	-325.0	325.0	318.8	6.25	51.979	
1,400.0	1,400.0	1,391.4	1,391.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.28	51.745	
1,425.0	1,425.0	1,416.4	1,416.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.29	51.659	
1,500.0	1,500.0	1,491.4	1,491.4	3.5	3.5	-90.65	-3.7	-325.0	325.0	318.7	6.32	51.396	
1,520.0	1,520.0	1,511.4	1,511.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.7	6.33	51.323	
1,600.0	1,600.0	1,591.4	1,591.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.7	6.37	51.028	
1,615.0	1,615.0	1,606.4	1,606.4	3.6	3.6	-90.65	-3.7	-325.0	325.0	318.6	6.38	50.972	
1,700.0	1,700.0	1,691.4	1,691.4	3.7	3.7	-90.65	-3.7	-325.0	325.0	318.6	6.42	50.645	
1,710.0	1,710.0	1,701.4	1,701.4	3.7	3.7	-90.65	-3.7	-325.0	325.0	318.6	6.42	50.606	
1,800.0	1,800.0	1,791.4	1,791.4	3.8	3.8	-90.65	-3.7	-325.0	325.0	318.6	6.47	50.247	
1,805.0	1,805.0	1,796.4	1,796.4	3.8	3.8	-90.65	-3.7	-325.0	325.0	318.5	6.47	50.226	
1,900.0	1,900.0	1,891.4	1,891.4	3.9	3.8	-90.65	-3.7	-325.0	325.0	318.5	6.52	49.835	
1,995.0	1,995.0	1,986.4	1,986.4	3.9	3.9	-90.65	-3.7	-325.0	325.0	318.4	6.58	49.432	
2,000.0	2,000.0	1,991.4	1,991.4	3.9	3.9	-90.65	-3.7	-325.0	325.0	318.4	6.58	49.411 CC, ES	
2,090.0	2,090.0	2,073.2	2,073.2	4.0	4.0	172.67	-3.9	-325.9	327.4	320.5	6.93	47.280	
2,100.0	2,100.0	2,082.2	2,082.1	4.0	4.0	172.67	-3.9	-326.2	328.0	321.1	6.97	47.063	
2,185.0	2,184.9	2,158.2	2,158.1	4.3	4.0	172.63	-4.6	-329.3	335.7	327.7	8.00	41.943	
2,200.0	2,199.8	2,171.5	2,171.4	4.4	4.1	172.62	-4.7	-330.0	337.6	329.3	8.23	41.034	
2,280.0	2,279.6	2,242.2	2,241.9	4.9	4.6	172.55	-5.8	-335.0	349.8	340.6	9.22	37.935	
2,300.0	2,299.5	2,259.8	2,259.4	5.1	4.7	172.53	-6.1	-336.5	353.5	344.1	9.46	37.353	
2,375.0	2,373.9	2,324.9	2,324.2	5.5	5.1	172.45	-7.4	-343.0	369.7	359.4	10.30	35.886	
2,400.0	2,398.7	2,346.4	2,345.6	5.7	5.3	172.42	-7.9	-345.5	375.9	365.3	10.57	35.557 SF	
2,450.2	2,448.3	2,389.1	2,387.9	5.8	5.5	172.35	-9.0	-350.8	389.4	378.4	10.94	35.588	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #302H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8992-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,470.0	2,467.9	2,406.7	2,405.3	5.8	5.6	172.34	-9.5	-353.2	395.1	384.0	11.05	35.745	
2,500.0	2,497.5	2,435.4	2,433.7	5.8	5.7	172.31	-10.3	-357.1	403.8	392.6	11.18	36.123	
2,565.0	2,561.7	2,497.6	2,495.4	5.9	5.9	172.27	-12.1	-365.6	422.5	411.1	11.45	36.900	
2,600.0	2,596.3	2,531.1	2,528.5	6.0	6.0	172.25	-13.0	-370.2	432.6	421.1	11.55	37.454	
2,660.0	2,655.6	2,588.6	2,585.4	6.1	6.0	172.21	-14.6	-378.0	450.0	438.2	11.73	38.345	
2,700.0	2,695.1	2,626.9	2,623.3	6.2	6.1	172.19	-15.7	-383.2	461.5	449.6	11.86	38.906	
2,755.0	2,749.4	2,679.5	2,675.5	6.3	6.2	172.16	-17.2	-390.4	477.4	465.3	12.05	39.619	
2,800.0	2,793.8	2,722.6	2,718.2	6.4	6.3	172.13	-18.4	-396.3	490.4	478.2	12.21	40.171	
2,850.0	2,843.2	2,770.5	2,765.6	6.5	6.4	172.11	-19.7	-402.8	504.8	492.4	12.39	40.730	
2,900.0	2,892.6	2,818.3	2,813.0	6.6	6.5	172.09	-21.1	-409.3	519.3	506.7	12.58	41.262	
2,945.0	2,937.1	2,861.4	2,855.6	6.7	6.6	172.07	-22.3	-415.2	532.3	519.5	12.77	41.693	
3,000.0	2,991.4	2,914.1	2,907.8	6.8	6.7	172.05	-23.8	-422.4	548.1	535.2	12.99	42.195	
3,040.0	3,030.9	2,952.4	2,945.7	6.9	6.8	172.03	-24.8	-427.6	559.7	546.5	13.16	42.521	
3,100.0	3,090.1	3,009.8	3,002.6	7.0	6.9	172.01	-26.4	-435.4	577.0	563.6	13.42	42.988	
3,135.0	3,124.7	3,043.3	3,035.8	7.1	7.0	172.00	-27.4	-440.0	587.1	573.5	13.58	43.228	
3,200.0	3,188.9	3,105.5	3,097.4	7.3	7.1	171.97	-29.1	-448.5	605.9	592.0	13.88	43.655	
3,230.0	3,218.5	3,134.3	3,125.8	7.4	7.2	171.96	-29.9	-452.4	614.6	600.5	14.02	43.828	
3,300.0	3,287.7	3,201.3	3,192.2	7.6	7.4	171.94	-31.8	-461.5	634.8	620.4	14.36	44.214	
3,325.0	3,312.4	3,225.2	3,215.9	7.6	7.4	171.94	-32.5	-464.8	642.0	627.5	14.48	44.334	
3,400.0	3,386.4	3,297.0	3,287.0	7.8	7.6	171.92	-34.5	-474.6	663.7	648.8	14.85	44.677	
3,420.0	3,406.2	3,316.2	3,306.0	7.9	7.7	171.91	-35.0	-477.2	669.4	654.5	14.96	44.757	
3,500.0	3,485.2	3,392.8	3,381.8	8.1	7.9	171.89	-37.2	-487.6	692.5	677.2	15.37	45.058	
3,515.0	3,500.0	3,407.1	3,396.0	8.2	7.9	171.89	-37.6	-489.6	696.9	681.4	15.45	45.108	
3,600.0	3,584.0	3,488.5	3,476.6	8.4	8.1	171.87	-39.9	-500.7	721.4	705.5	15.90	45.369	
3,610.0	3,593.9	3,498.1	3,486.1	8.4	8.2	171.86	-40.1	-502.0	724.3	708.3	15.95	45.397	
3,700.0	3,682.8	3,584.2	3,571.4	8.7	8.4	171.84	-42.6	-513.7	750.3	733.8	16.45	45.620	
3,705.0	3,687.7	3,589.0	3,576.2	8.7	8.4	171.84	-42.7	-514.4	751.7	735.3	16.47	45.632	
3,800.0	3,781.5	3,680.0	3,666.2	9.0	8.7	171.82	-45.3	-526.8	779.2	762.2	17.00	45.821	
3,895.0	3,875.3	3,770.9	3,756.3	9.3	9.0	171.81	-47.8	-539.2	806.6	789.1	17.55	45.970	
3,900.0	3,880.3	3,775.7	3,761.0	9.3	9.0	171.80	-47.9	-539.8	808.0	790.5	17.57	45.977	
3,990.0	3,969.2	3,861.9	3,846.4	9.6	9.2	171.79	-50.4	-551.6	834.0	815.9	18.10	46.086	
4,000.0	3,979.1	3,871.5	3,855.8	9.6	9.3	171.79	-50.6	-552.9	836.9	818.8	18.16	46.097	
4,085.0	4,063.0	3,952.8	3,936.4	9.9	9.5	171.77	-52.9	-564.0	861.5	842.8	18.66	46.173	
4,100.0	4,077.8	3,967.2	3,950.7	9.9	9.6	171.77	-53.3	-565.9	865.8	847.1	18.75	46.185	
4,180.0	4,156.8	4,043.8	4,026.5	10.2	9.8	171.76	-55.5	-576.4	888.9	869.7	19.23	46.236	
4,200.0	4,176.6	4,062.9	4,045.5	10.2	9.9	171.76	-56.0	-579.0	894.7	875.3	19.35	46.247	
4,275.0	4,250.7	4,134.7	4,116.6	10.5	10.1	171.74	-58.0	-588.8	916.3	896.5	19.80	46.278	
4,300.0	4,275.4	4,158.7	4,140.3	10.5	10.2	171.74	-58.7	-592.0	923.6	903.6	19.95	46.287	
4,370.0	4,344.5	4,225.7	4,206.6	10.8	10.4	171.73	-60.6	-601.2	943.8	923.4	20.38	46.302	
4,400.0	4,374.1	4,254.4	4,235.1	10.9	10.5	171.73	-61.4	-605.1	952.4	931.9	20.57	46.307	
4,465.0	4,438.3	4,316.6	4,296.7	11.1	10.7	171.72	-63.1	-613.6	971.2	950.2	20.97	46.312	
4,500.0	4,472.9	4,350.2	4,329.9	11.2	10.8	171.71	-64.1	-618.1	981.3	960.1	21.19	46.312	
4,560.0	4,532.2	4,407.6	4,386.8	11.4	11.0	171.71	-65.7	-626.0	998.6	977.1	21.57	46.308	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-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)			
0.0	0.0	0.0	0.0	3.0	3.0	-90.67	-0.7	-60.0	60.1				
95.0	95.0	91.9	91.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	10.000	
100.0	100.0	96.9	96.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	10.000	
190.0	190.0	186.9	186.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	9.997	
200.0	200.0	196.9	196.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.00	9.996	
285.0	285.0	281.9	281.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.01	9.988	
300.0	300.0	296.9	296.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.01	9.986	
380.0	380.0	376.9	376.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.02	9.974	
400.0	400.0	396.9	396.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.02	9.971	
475.0	475.0	471.9	471.9	3.0	3.0	-90.67	-0.7	-60.0	60.0	54.0	6.03	9.956	
500.0	500.0	496.9	496.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.03	9.950	
570.0	570.0	566.9	566.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.04	9.933	
600.0	600.0	596.9	596.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	54.0	6.05	9.924	
665.0	665.0	661.9	661.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.06	9.905	
700.0	700.0	696.9	696.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.06	9.894	
760.0	760.0	756.9	756.9	3.1	3.1	-90.67	-0.7	-60.0	60.0	53.9	6.08	9.873	
800.0	800.0	796.9	796.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.09	9.858	
855.0	855.0	851.9	851.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.10	9.836	
900.0	900.0	896.9	896.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.11	9.818	
950.0	950.0	946.9	946.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.13	9.796	
1,000.0	1,000.0	996.9	996.9	3.2	3.2	-90.67	-0.7	-60.0	60.0	53.9	6.14	9.773	
1,045.0	1,045.0	1,041.9	1,041.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.9	6.15	9.751	
1,100.0	1,100.0	1,096.9	1,096.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.8	6.17	9.723	
1,140.0	1,140.0	1,136.9	1,136.9	3.3	3.3	-90.67	-0.7	-60.0	60.0	53.8	6.18	9.702	
1,200.0	1,200.0	1,196.9	1,196.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.21	9.670	
1,235.0	1,235.0	1,231.9	1,231.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.22	9.650	
1,300.0	1,300.0	1,296.9	1,296.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.24	9.612	
1,330.0	1,330.0	1,326.9	1,326.9	3.4	3.4	-90.67	-0.7	-60.0	60.0	53.8	6.25	9.594	
1,400.0	1,400.0	1,396.9	1,396.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.28	9.551	
1,425.0	1,425.0	1,421.9	1,421.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.29	9.535	
1,500.0	1,500.0	1,496.9	1,496.9	3.5	3.5	-90.67	-0.7	-60.0	60.0	53.7	6.33	9.487	
1,520.0	1,520.0	1,516.9	1,516.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.7	6.33	9.473	
1,600.0	1,600.0	1,596.9	1,596.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.6	6.37	9.419	
1,615.0	1,615.0	1,611.9	1,611.9	3.6	3.6	-90.67	-0.7	-60.0	60.0	53.6	6.38	9.408	
1,700.0	1,700.0	1,696.9	1,696.9	3.7	3.7	-90.67	-0.7	-60.0	60.0	53.6	6.42	9.348	
1,710.0	1,710.0	1,706.9	1,706.9	3.7	3.7	-90.67	-0.7	-60.0	60.0	53.6	6.42	9.341	
1,800.0	1,800.0	1,796.9	1,796.9	3.8	3.8	-90.67	-0.7	-60.0	60.0	53.5	6.47	9.274	
1,805.0	1,805.0	1,801.9	1,801.9	3.8	3.8	-90.67	-0.7	-60.0	60.0	53.5	6.47	9.271	
1,900.0	1,900.0	1,896.9	1,896.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.5	6.52	9.198	
1,995.0	1,995.0	1,991.9	1,991.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.4	6.58	9.124	
2,000.0	2,000.0	1,996.9	1,996.9	3.9	3.9	-90.67	-0.7	-60.0	60.0	53.4	6.58	9.120 CC, ES	
2,090.0	2,090.0	2,085.1	2,085.0	4.0	4.0	172.66	-0.9	-61.2	62.7	55.7	6.95	9.015	
2,100.0	2,100.0	2,094.8	2,094.8	4.0	4.0	172.66	-0.9	-61.6	63.3	56.3	7.00	9.046	
2,185.0	2,184.9	2,177.5	2,177.4	4.3	4.1	172.62	-1.5	-65.4	71.5	63.4	8.15	8.768	
2,200.0	2,199.8	2,192.0	2,191.9	4.4	4.2	172.61	-1.7	-66.4	73.5	65.1	8.39	8.754 SF	
2,280.0	2,279.6	2,268.8	2,268.4	4.9	4.8	172.56	-2.6	-72.5	86.4	77.0	9.39	9.203	
2,300.0	2,299.5	2,287.9	2,287.4	5.1	4.9	172.55	-2.9	-74.3	90.3	80.7	9.65	9.364	
2,375.0	2,373.9	2,358.8	2,357.9	5.5	5.1	172.49	-4.1	-82.2	107.3	97.0	10.26	10.459	
2,400.0	2,398.7	2,383.0	2,381.9	5.7	5.1	172.49	-4.5	-85.1	113.6	103.2	10.43	10.895	
2,450.2	2,448.3	2,431.4	2,429.9	5.8	5.2	172.51	-5.4	-90.9	126.9	116.3	10.60	11.969	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-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)			
2,470.0	2,467.9	2,450.5	2,448.8	5.8	5.2	172.54	-5.8	-93.2	132.3	121.7	10.65	12.422	
2,500.0	2,497.5	2,479.3	2,477.5	5.8	5.3	172.58	-6.3	-96.7	140.5	129.8	10.73	13.098	
2,565.0	2,561.7	2,541.8	2,539.5	5.9	5.4	172.65	-7.4	-104.2	158.3	147.4	10.91	14.505	
2,600.0	2,596.3	2,575.5	2,573.0	6.0	5.4	172.69	-8.0	-108.3	167.9	156.8	11.02	15.237	
2,660.0	2,655.6	2,633.2	2,630.2	6.1	5.5	172.73	-9.1	-115.2	184.3	173.0	11.22	16.426	
2,700.0	2,695.1	2,671.7	2,668.4	6.2	5.6	172.76	-9.8	-119.9	195.2	183.8	11.35	17.190	
2,755.0	2,749.4	2,724.6	2,720.9	6.3	5.7	172.80	-10.8	-126.2	210.2	198.7	11.56	18.189	
2,800.0	2,793.8	2,767.9	2,763.9	6.4	5.8	172.82	-11.6	-131.5	222.5	210.8	11.73	18.974	
2,850.0	2,843.2	2,816.0	2,811.6	6.5	5.9	172.84	-12.5	-137.2	236.2	224.3	11.93	19.803	
2,900.0	2,892.6	2,864.1	2,859.4	6.6	6.0	172.87	-13.3	-143.0	249.8	237.7	12.13	20.596	
2,945.0	2,937.1	2,907.4	2,902.3	6.7	6.1	172.88	-14.1	-148.3	262.1	249.8	12.32	21.274	
3,000.0	2,991.4	2,960.3	2,954.9	6.8	6.3	172.90	-15.1	-154.6	277.2	264.6	12.56	22.064	
3,040.0	3,030.9	2,998.8	2,993.1	6.9	6.4	172.92	-15.8	-159.3	288.1	275.4	12.74	22.610	
3,100.0	3,090.1	3,056.5	3,050.3	7.0	6.5	172.93	-16.9	-166.2	304.5	291.5	13.02	23.389	
3,135.0	3,124.7	3,090.1	3,083.8	7.1	6.6	172.94	-17.5	-170.3	314.1	300.9	13.19	23.820	
3,200.0	3,188.9	3,152.7	3,145.8	7.3	6.8	172.96	-18.6	-177.8	331.8	318.3	13.50	24.582	
3,230.0	3,218.5	3,181.5	3,174.5	7.4	6.8	172.96	-19.2	-181.3	340.0	326.4	13.65	24.915	
3,300.0	3,287.7	3,248.9	3,241.3	7.6	7.0	172.98	-20.4	-189.4	359.2	345.2	14.00	25.656	
3,325.0	3,312.4	3,272.9	3,265.2	7.6	7.1	172.98	-20.8	-192.3	366.0	351.9	14.13	25.906	
3,400.0	3,386.4	3,345.0	3,336.8	7.8	7.3	173.00	-22.1	-201.0	386.5	372.0	14.52	26.622	
3,420.0	3,406.2	3,364.3	3,355.9	7.9	7.3	173.00	-22.5	-203.3	392.0	377.3	14.62	26.802	
3,500.0	3,485.2	3,441.2	3,432.2	8.1	7.6	173.01	-23.9	-212.6	413.8	398.8	15.05	27.491	
3,515.0	3,500.0	3,455.7	3,446.6	8.2	7.6	173.02	-24.2	-214.3	417.9	402.8	15.14	27.613	
3,600.0	3,584.0	3,537.4	3,527.7	8.4	7.9	173.03	-25.7	-224.2	441.2	425.6	15.60	28.273	
3,610.0	3,593.9	3,547.1	3,537.3	8.4	7.9	173.03	-25.8	-225.3	443.9	428.2	15.66	28.347	
3,700.0	3,682.8	3,633.6	3,623.2	8.7	8.1	173.04	-27.4	-235.8	468.5	452.3	16.17	28.979	
3,705.0	3,687.7	3,638.4	3,628.0	8.7	8.2	173.04	-27.5	-236.3	469.9	453.7	16.20	29.012	
3,800.0	3,781.5	3,729.8	3,718.7	9.0	8.4	173.05	-29.2	-247.3	495.8	479.1	16.74	29.615	
3,895.0	3,875.3	3,821.2	3,809.4	9.3	8.7	173.06	-30.9	-258.4	521.8	504.5	17.30	30.163	
3,900.0	3,880.3	3,826.0	3,814.1	9.3	8.7	173.06	-31.0	-258.9	523.1	505.8	17.33	30.191	
3,990.0	3,969.2	3,912.6	3,900.1	9.6	9.0	173.07	-32.5	-269.4	547.7	529.9	17.86	30.662	
4,000.0	3,979.1	3,922.2	3,909.6	9.6	9.0	173.07	-32.7	-270.5	550.5	532.6	17.92	30.712	
4,085.0	4,063.0	4,004.0	3,990.8	9.9	9.3	173.08	-34.2	-280.4	573.7	555.3	18.44	31.117	
4,100.0	4,077.8	4,018.4	4,005.1	9.9	9.4	173.08	-34.5	-282.1	577.8	559.3	18.53	31.185	
4,180.0	4,156.8	4,095.4	4,081.5	10.2	9.6	173.08	-35.9	-291.4	599.7	580.7	19.02	31.531	
4,200.0	4,176.6	4,114.6	4,100.6	10.2	9.7	173.08	-36.3	-293.7	605.1	586.0	19.14	31.614	
4,275.0	4,250.7	4,186.7	4,172.2	10.5	9.9	173.09	-37.6	-302.4	625.6	606.0	19.61	31.911	
4,300.0	4,275.4	4,210.8	4,196.0	10.5	10.0	173.09	-38.0	-305.3	632.5	612.7	19.76	32.005	
4,370.0	4,344.5	4,278.1	4,262.9	10.8	10.2	173.09	-39.2	-313.4	651.6	631.4	20.20	32.258	
4,400.0	4,374.1	4,307.0	4,291.5	10.9	10.3	173.10	-39.8	-316.9	659.8	639.4	20.39	32.362	
4,465.0	4,438.3	4,369.5	4,353.6	11.1	10.5	173.10	-40.9	-324.4	677.6	656.8	20.80	32.577	
4,500.0	4,472.9	4,403.2	4,387.0	11.2	10.6	173.10	-41.5	-328.5	687.1	666.1	21.02	32.689	
4,560.0	4,532.2	4,460.9	4,444.3	11.4	10.8	173.11	-42.6	-335.4	703.5	682.1	21.40	32.870	
4,600.0	4,571.7	4,499.4	4,482.5	11.5	10.9	173.11	-43.3	-340.0	714.5	692.8	21.66	32.987	
4,655.0	4,626.0	4,552.3	4,535.0	11.7	11.1	173.11	-44.3	-346.4	729.5	707.5	22.01	33.140	
4,700.0	4,670.4	4,595.6	4,577.9	11.9	11.3	173.11	-45.1	-351.6	741.8	719.5	22.30	33.261	
4,750.0	4,719.8	4,643.7	4,625.7	12.0	11.4	173.11	-45.9	-357.4	755.5	732.8	22.63	33.389	
4,800.0	4,769.2	4,691.7	4,673.4	12.2	11.6	173.12	-46.8	-363.2	769.1	746.2	22.95	33.513	
4,845.0	4,813.6	4,735.0	4,716.4	12.3	11.7	173.12	-47.6	-368.4	781.4	758.2	23.24	33.619	
4,900.0	4,868.0	4,787.9	4,768.9	12.5	11.9	173.12	-48.6	-374.8	796.5	772.9	23.60	33.745	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP0											Offset Site Error:		3.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 10099-MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:					
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			
4,940.0	4,907.5	4,826.4	4,807.1	12.7	12.1	173.12	-49.3	-379.5	807.4	783.5	23.86	33.832				
5,000.0	4,966.7	4,884.1	4,864.4	12.9	12.3	173.12	-50.4	-386.4	823.8	799.5	24.26	33.959				
5,035.0	5,001.3	4,917.8	4,897.8	13.0	12.4	173.13	-51.0	-390.5	833.3	808.9	24.49	34.030				
5,100.0	5,065.5	4,980.3	4,959.9	13.2	12.6	173.13	-52.1	-398.0	851.1	826.2	24.92	34.157				
5,130.0	5,095.1	5,009.2	4,988.5	13.3	12.7	173.13	-52.6	-401.5	859.3	834.2	25.12	34.213				
5,200.0	5,164.3	5,076.5	5,055.3	13.5	12.9	173.13	-53.9	-409.6	878.4	852.9	25.58	34.340				
5,225.0	5,189.0	5,100.6	5,079.2	13.6	13.0	173.13	-54.3	-412.5	885.3	859.5	25.75	34.384				
5,300.0	5,263.0	5,172.7	5,150.8	13.9	13.2	173.13	-55.6	-421.2	905.8	879.5	26.25	34.510				
5,320.0	5,282.8	5,191.9	5,169.9	14.0	13.3	173.14	-56.0	-423.5	911.2	884.9	26.38	34.542				
5,400.0	5,361.8	5,268.9	5,246.3	14.2	13.6	173.14	-57.4	-432.8	933.1	906.2	26.92	34.667				
5,415.0	5,376.6	5,283.3	5,260.6	14.3	13.6	173.14	-57.7	-434.5	937.2	910.2	27.02	34.690				
5,500.0	5,460.6	5,365.1	5,341.8	14.6	13.9	173.14	-59.2	-444.3	960.4	932.8	27.59	34.814				
5,510.0	5,470.5	5,374.7	5,351.3	14.6	14.0	173.14	-59.3	-445.5	963.2	935.5	27.65	34.828				
5,600.0	5,559.3	5,461.3	5,437.2	14.9	14.3	173.14	-60.9	-455.9	987.8	959.5	28.26	34.951				
5,605.0	5,564.3	5,466.1	5,442.0	14.9	14.3	173.14	-61.0	-456.5	989.1	960.8	28.30	34.957				

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 312H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9004-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,400.0	7,337.2	7,262.5	7,253.4	21.5	7.9	-10.03	-35.7	1,794.3	995.0	967.7	27.33	36.402		
7,410.0	7,347.0	7,272.4	7,263.3	21.6	7.9	-10.00	-36.3	1,795.2	994.3	967.0	27.38	36.317		
7,500.0	7,435.9	7,362.1	7,352.5	21.9	7.9	-9.78	-42.1	1,802.9	987.9	960.1	27.78	35.564		
7,505.0	7,440.9	7,367.1	7,357.4	21.9	7.9	-9.77	-42.4	1,803.4	987.5	959.7	27.80	35.523		
7,600.0	7,534.7	7,461.8	7,451.5	22.2	8.0	-9.54	-48.5	1,811.6	980.8	952.5	28.22	34.751		
7,695.0	7,628.5	7,556.5	7,545.7	22.6	8.0	-9.30	-54.6	1,819.8	974.0	945.4	28.65	34.001		
7,700.0	7,633.5	7,561.4	7,550.6	22.6	8.0	-9.29	-54.9	1,820.2	973.6	945.0	28.67	33.962		
7,790.0	7,722.4	7,651.1	7,639.8	22.9	8.0	-9.06	-60.7	1,828.0	967.3	938.2	29.07	33.273		
7,791.0	7,723.4	7,652.2	7,640.8	22.9	8.0	-9.06	-60.7	1,828.1	967.2	938.1	29.07	33.266		
7,800.0	7,732.2	7,661.1	7,649.7	22.9	8.0	-9.03	-61.3	1,828.9	966.6	937.4	29.11	33.199		
7,885.0	7,816.3	7,745.9	7,734.0	23.2	8.1	-8.80	-66.7	1,836.2	961.3	931.8	29.49	32.597		
7,900.0	7,831.2	7,760.8	7,748.8	23.3	8.1	-8.76	-67.7	1,837.5	960.5	930.9	29.56	32.497		
7,980.0	7,910.5	7,840.6	7,828.2	23.6	8.1	-8.53	-72.8	1,844.4	956.9	927.0	29.91	31.991		
8,000.0	7,930.3	7,860.6	7,848.0	23.6	8.1	-8.47	-74.1	1,846.2	956.2	926.2	30.00	31.872		
8,075.0	8,004.8	7,935.5	7,922.5	23.9	8.2	-8.24	-78.9	1,852.7	954.1	923.8	30.33	31.455		
8,100.0	8,029.7	7,960.4	7,947.3	24.0	8.2	-8.16	-80.5	1,854.8	953.6	923.2	30.44	31.326		
8,170.0	8,099.4	8,030.3	8,016.8	24.2	8.2	-7.94	-85.0	1,860.9	952.9	922.1	30.75	30.988		
8,196.1	8,125.4	8,056.5	8,042.7	24.3	8.2	-7.85	-86.7	1,863.2	952.8	921.9	30.86	30.871 CC		
8,200.0	8,129.3	8,060.3	8,046.6	24.4	8.2	-7.84	-86.9	1,863.5	952.8	921.9	30.88	30.854 ES		
8,265.0	8,194.0	8,125.2	8,111.1	24.6	8.3	-7.63	-91.1	1,869.1	953.2	922.0	31.16	30.587		
8,300.0	8,229.0	8,160.1	8,145.8	24.7	8.3	-7.51	-93.3	1,872.1	953.7	922.4	31.32	30.455		
8,360.0	8,288.8	8,220.0	8,205.4	24.9	8.3	-7.30	-97.2	1,877.3	955.2	923.6	31.58	30.250		
8,400.0	8,328.8	8,259.9	8,245.0	25.0	8.3	-7.17	-99.7	1,880.8	956.5	924.7	31.75	30.126		
8,455.0	8,383.7	8,314.8	8,299.6	25.2	8.4	-6.97	-103.3	1,885.6	958.7	926.7	31.98	29.974		
8,500.0	8,428.7	8,359.7	8,344.2	25.4	8.4	-6.82	-106.1	1,889.4	960.9	928.8	32.18	29.863		
8,550.0	8,478.7	8,409.5	8,393.7	25.6	8.4	-6.64	-109.3	1,893.8	963.8	931.4	32.39	29.756		
8,600.0	8,528.7	8,459.3	8,443.2	25.7	8.4	-6.46	-112.5	1,898.1	967.2	934.6	32.60	29.664		
8,645.0	8,573.6	8,504.1	8,487.7	25.9	8.5	-6.30	-115.4	1,902.0	970.6	937.8	32.79	29.600		
8,691.4	8,620.0	8,550.2	8,533.6	26.0	8.5	90.54	-118.4	1,906.0	974.4	941.5	32.98	29.545		
8,700.0	8,628.6	8,558.8	8,542.1	26.0	8.5	90.57	-118.9	1,906.7	975.2	942.2	33.02	29.537		
8,740.0	8,668.6	8,598.5	8,581.6	26.2	8.5	90.72	-121.5	1,910.2	978.7	945.5	33.18	29.501		
8,800.0	8,728.6	8,658.2	8,640.9	26.3	8.6	90.94	-125.3	1,915.3	984.0	950.5	33.41	29.447		
8,835.0	8,763.6	8,693.0	8,675.5	26.5	8.6	91.06	-127.5	1,918.3	987.0	953.5	33.56	29.414		
8,900.0	8,828.6	8,757.6	8,739.8	26.7	8.6	91.30	-131.7	1,923.9	992.8	959.0	33.82	29.354		
8,930.0	8,858.6	8,787.4	8,769.4	26.7	8.6	91.40	-133.6	1,926.5	995.4	961.5	33.94	29.327 SF		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
6,270.0	6,221.1	6,228.8	6,228.1	17.5	7.5	-13.13	35.9	1,621.4	998.7	976.4	22.25	44.884	
6,300.0	6,250.7	6,258.4	6,257.7	17.6	7.5	-13.11	34.5	1,621.2	993.8	971.4	22.37	44.422	
6,365.0	6,314.9	6,322.6	6,321.7	17.9	7.5	-13.07	31.4	1,620.9	983.2	960.6	22.64	43.438	
6,400.0	6,349.5	6,357.1	6,356.2	18.0	7.5	-13.04	29.8	1,620.7	977.5	954.8	22.78	42.916	
6,460.0	6,408.7	6,416.3	6,415.3	18.2	7.5	-13.00	27.0	1,620.4	967.8	944.8	23.02	42.037	
6,500.0	6,448.3	6,455.7	6,454.8	18.3	7.5	-12.98	25.1	1,620.2	961.3	938.1	23.19	41.461	
6,555.0	6,502.6	6,510.0	6,509.0	18.5	7.4	-12.94	22.5	1,620.0	952.3	928.9	23.41	40.681	
6,600.0	6,547.0	6,554.4	6,553.3	18.7	7.4	-12.91	20.4	1,619.7	945.0	921.4	23.59	40.053	
6,650.0	6,596.4	6,603.7	6,602.6	18.9	7.4	-12.87	18.1	1,619.5	936.9	913.1	23.80	39.367	
6,700.0	6,645.8	6,653.1	6,651.9	19.0	7.4	-12.84	15.7	1,619.2	928.7	904.7	24.00	38.691	
6,745.0	6,690.2	6,697.5	6,696.2	19.2	7.4	-12.80	13.6	1,619.0	921.4	897.2	24.19	38.093	
6,800.0	6,744.6	6,751.7	6,750.4	19.4	7.4	-12.76	11.0	1,618.7	912.5	888.1	24.42	37.373	
6,840.0	6,784.1	6,791.2	6,789.8	19.5	7.4	-12.73	9.2	1,618.5	906.0	881.4	24.58	36.858	
6,900.0	6,843.3	6,850.4	6,849.0	19.7	7.3	-12.68	6.4	1,618.2	896.2	871.4	24.83	36.097	
6,935.0	6,877.9	6,884.9	6,883.4	19.9	7.3	-12.66	4.7	1,618.0	890.5	865.6	24.97	35.660	
7,000.0	6,942.1	6,949.1	6,947.5	20.1	7.3	-12.60	1.7	1,617.7	880.0	854.7	25.24	34.861	
7,030.0	6,971.7	6,978.7	6,977.1	20.2	7.3	-12.58	0.3	1,617.5	875.1	849.7	25.37	34.498	
7,100.0	7,040.9	7,047.7	7,046.1	20.5	7.3	-12.52	-3.0	1,617.2	863.7	838.0	25.66	33.664	
7,125.0	7,065.6	7,072.4	7,070.7	20.5	7.3	-12.50	-4.2	1,617.1	859.6	833.9	25.76	33.370	
7,200.0	7,139.6	7,146.4	7,144.6	20.8	7.3	-12.43	-7.7	1,616.7	847.4	821.4	26.07	32.503	
7,220.0	7,159.4	7,166.1	7,164.3	20.9	7.3	-12.42	-8.6	1,616.6	844.2	818.0	26.16	32.275	
7,300.0	7,238.4	7,245.0	7,243.2	21.2	7.3	-12.34	-12.4	1,616.2	831.2	804.7	26.49	31.377	
7,315.0	7,253.2	7,259.8	7,257.9	21.2	7.3	-12.33	-13.1	1,616.1	828.8	802.2	26.55	31.211	
7,400.0	7,337.2	7,343.7	7,341.7	21.5	7.2	-12.25	-17.0	1,615.7	814.9	788.0	26.91	30.286	
7,410.0	7,347.0	7,353.6	7,351.6	21.6	7.2	-12.24	-17.5	1,615.6	813.3	786.4	26.95	30.178	
7,500.0	7,435.9	7,442.4	7,440.3	21.9	7.2	-12.15	-21.7	1,615.2	798.7	771.4	27.33	29.227	
7,505.0	7,440.9	7,447.3	7,445.2	21.9	7.2	-12.15	-22.0	1,615.1	797.9	770.5	27.35	29.174	
7,600.0	7,534.7	7,541.0	7,538.8	22.2	7.2	-12.05	-26.4	1,614.6	782.4	754.7	27.75	28.198	
7,695.0	7,628.5	7,634.8	7,632.4	22.6	7.2	-11.95	-30.9	1,614.2	767.0	738.9	28.15	27.249	
7,700.0	7,633.5	7,639.7	7,637.4	22.6	7.2	-11.95	-31.1	1,614.1	766.2	738.0	28.17	27.200	
7,790.0	7,722.4	7,728.5	7,726.0	22.9	7.2	-11.85	-35.3	1,613.7	751.6	723.0	28.55	26.327	
7,791.0	7,723.4	7,729.5	7,727.1	22.9	7.2	-11.85	-35.3	1,613.7	751.4	722.9	28.55	26.317	
7,800.0	7,732.2	7,738.3	7,735.9	22.9	7.2	-11.83	-35.8	1,613.6	750.0	721.4	28.59	26.232	
7,885.0	7,816.3	7,822.3	7,819.8	23.2	7.2	-11.70	-39.8	1,613.2	736.9	707.9	28.94	25.459	
7,900.0	7,831.2	7,837.2	7,834.6	23.3	7.2	-11.67	-40.5	1,613.1	734.7	705.7	29.01	25.329	
7,980.0	7,910.5	7,916.4	7,913.7	23.6	7.2	-11.52	-44.2	1,612.7	723.7	694.4	29.34	24.665	
8,000.0	7,930.3	7,936.2	7,933.5	23.6	7.2	-11.48	-45.2	1,612.6	721.2	691.7	29.43	24.507	
8,075.0	8,004.8	8,010.6	8,007.9	23.9	7.2	-11.31	-48.7	1,612.2	712.1	682.4	29.74	23.945	
8,100.0	8,029.7	8,035.5	8,032.7	24.0	7.2	-11.25	-49.9	1,612.1	709.3	679.5	29.84	23.767	
8,170.0	8,099.4	8,105.1	8,102.2	24.2	7.2	-11.08	-53.2	1,611.7	702.0	671.9	30.14	23.296	
8,200.0	8,129.3	8,134.9	8,132.0	24.4	7.2	-11.00	-54.6	1,611.6	699.2	668.9	30.26	23.106	
8,265.0	8,194.0	8,199.6	8,196.7	24.6	7.2	-10.82	-57.7	1,611.3	693.5	663.0	30.53	22.717	
8,300.0	8,229.0	8,234.5	8,231.5	24.7	7.2	-10.72	-59.3	1,611.1	690.8	660.1	30.67	22.520	
8,360.0	8,288.8	8,294.3	8,291.2	24.9	7.2	-10.53	-62.1	1,610.8	686.6	655.6	30.92	22.203	
8,400.0	8,328.8	8,334.2	8,331.1	25.0	7.2	-10.40	-64.0	1,610.6	684.1	653.0	31.09	22.006	
8,455.0	8,383.7	8,389.1	8,385.9	25.2	7.2	-10.22	-66.6	1,610.3	681.2	649.8	31.31	21.755	
8,500.0	8,428.7	8,434.0	8,430.8	25.4	7.2	-10.06	-68.8	1,610.1	679.1	647.6	31.49	21.563	
8,550.0	8,478.7	8,483.9	8,480.7	25.6	7.3	-9.88	-71.1	1,609.8	677.3	645.6	31.70	21.368	
8,600.0	8,528.7	8,533.9	8,530.5	25.7	7.3	-9.70	-73.5	1,609.5	675.9	644.0	31.90	21.188	
8,645.0	8,573.6	8,578.8	8,575.4	25.9	7.3	-9.52	-75.6	1,609.3	675.1	643.0	32.08	21.044	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
8,691.4	8,620.0	8,625.1	8,621.7	26.0	7.3	87.33	-77.8	1,609.1	674.5	642.3	32.26	20.908	
8,700.0	8,628.6	8,633.8	8,630.3	26.0	7.3	87.36	-78.3	1,609.0	674.5	642.2	32.29	20.885	
8,740.0	8,668.6	8,673.7	8,670.2	26.2	7.3	87.52	-80.1	1,608.8	674.2	641.7	32.45	20.778	
8,800.0	8,728.6	8,733.6	8,730.1	26.3	7.3	87.76	-83.0	1,608.5	673.7	641.1	32.68	20.619	
8,835.0	8,763.6	8,768.6	8,765.0	26.5	7.3	87.90	-84.7	1,608.3	673.5	640.7	32.81	20.526	
8,900.0	8,828.6	8,833.5	8,829.8	26.7	7.3	88.16	-87.7	1,608.0	673.1	640.0	33.06	20.356	
8,930.0	8,858.6	8,863.5	8,859.8	26.7	7.3	88.28	-89.2	1,607.8	672.9	639.7	33.18	20.279	
9,000.0	8,928.6	8,933.4	8,929.6	27.0	7.3	88.57	-92.5	1,607.5	672.4	639.0	33.45	20.100	
9,025.0	8,953.6	8,958.4	8,954.6	27.0	7.3	88.67	-93.7	1,607.4	672.3	638.7	33.55	20.037	
9,100.0	9,028.6	9,033.3	9,029.4	27.3	7.4	88.97	-97.2	1,607.0	671.8	637.9	33.84	19.851	
9,120.0	9,048.6	9,053.3	9,049.3	27.3	7.4	89.05	-98.2	1,606.9	671.7	637.8	33.92	19.802	
9,200.0	9,128.6	9,133.2	9,129.2	27.6	7.4	89.37	-102.0	1,606.5	671.2	637.0	34.23	19.607	
9,215.0	9,143.6	9,148.2	9,144.1	27.6	7.4	89.43	-102.7	1,606.4	671.1	636.8	34.29	19.571	
9,300.0	9,228.6	9,233.1	9,228.9	27.9	7.4	89.78	-106.7	1,605.9	670.7	636.0	34.62	19.370	
9,310.0	9,238.6	9,243.1	9,238.9	27.9	7.4	89.82	-107.2	1,605.9	670.6	635.9	34.66	19.346	
9,400.0	9,328.6	9,333.0	9,328.7	28.2	7.5	90.18	-111.4	1,605.4	670.1	635.1	35.02	19.138	
9,405.0	9,333.6	9,338.0	9,333.7	28.2	7.5	90.20	-111.7	1,605.4	670.1	635.1	35.04	19.127	
9,500.0	9,428.6	9,432.9	9,428.5	28.5	7.5	90.59	-116.2	1,604.9	669.7	634.2	35.41	18.912	
9,595.0	9,523.6	9,527.7	9,523.3	28.8	7.5	90.97	-120.7	1,604.4	669.2	633.4	35.78	18.703	
9,600.0	9,528.6	9,532.7	9,528.2	28.8	7.5	90.99	-120.9	1,604.4	669.2	633.4	35.80	18.692	
9,690.0	9,618.6	9,622.6	9,618.0	29.1	7.6	91.36	-125.2	1,603.9	668.8	632.7	36.16	18.498	
9,700.0	9,628.6	9,632.6	9,628.0	29.2	7.6	91.40	-125.6	1,603.9	668.8	632.6	36.20	18.477	
9,785.0	9,713.6	9,717.5	9,712.8	29.4	7.6	91.75	-129.7	1,603.5	668.5	631.9	36.53	18.298	
9,800.0	9,728.6	9,732.5	9,727.8	29.5	7.6	91.81	-130.4	1,603.4	668.4	631.8	36.59	18.267	
9,880.0	9,808.6	9,812.4	9,807.6	29.7	7.6	92.13	-134.2	1,603.0	668.1	631.2	36.91	18.103	
9,900.0	9,828.6	9,832.4	9,827.6	29.8	7.6	92.22	-135.1	1,602.9	668.1	631.1	36.99	18.062	
9,975.0	9,903.6	9,907.3	9,902.4	30.0	7.7	92.52	-138.7	1,602.5	667.8	630.5	37.28	17.912	
10,000.0	9,928.6	9,932.3	9,927.3	30.1	7.7	92.62	-139.9	1,602.3	667.7	630.4	37.38	17.863	
10,070.0	9,998.6	10,002.2	9,997.2	30.3	7.7	92.91	-143.2	1,602.0	667.5	629.9	37.66	17.726	
10,100.0	10,028.6	10,032.2	10,027.1	30.4	7.7	93.03	-144.6	1,601.8	667.5	629.7	37.78	17.668	
10,118.9	10,047.5	10,051.0	10,045.9	30.5	7.7	93.11	-145.5	1,601.7	667.4	629.6	37.85	17.632	
10,125.0	10,053.6	10,057.1	10,052.0	30.5	7.7	93.34	-145.8	1,601.7	667.4	629.5	37.87	17.625	
10,138.6	10,067.3	10,070.7	10,065.6	30.5	7.8	93.43	-146.4	1,601.6	667.4	629.5	37.88	17.620 CC	
10,150.0	10,078.6	10,082.0	10,076.9	30.5	7.8	93.53	-147.0	1,601.6	667.4	629.5	37.88	17.617	
10,165.0	10,093.6	10,096.9	10,091.8	30.5	7.8	93.69	-147.7	1,601.5	667.4	629.5	37.90	17.612	
10,175.0	10,103.5	10,106.8	10,101.6	30.5	7.8	93.81	-148.1	1,601.4	667.5	629.6	37.91	17.610	
10,200.0	10,128.3	10,131.3	10,126.2	30.5	7.8	94.19	-149.3	1,601.3	667.7	629.8	37.93	17.605	
10,225.0	10,152.8	10,155.6	10,150.4	30.5	7.8	94.65	-150.5	1,601.2	668.0	630.1	37.95	17.603	
10,250.0	10,177.0	10,180.8	10,175.6	30.6	7.8	95.21	-151.5	1,601.1	668.5	630.6	37.97	17.609	
10,260.0	10,186.6	10,191.6	10,186.3	30.6	7.8	95.45	-151.7	1,601.0	668.8	630.8	37.97	17.614	
10,275.0	10,200.9	10,207.8	10,202.6	30.6	7.8	95.82	-151.6	1,600.9	669.2	631.2	37.97	17.624	
10,300.0	10,224.3	10,235.2	10,229.9	30.6	7.8	96.45	-150.4	1,600.8	669.9	631.9	37.96	17.645	
10,325.0	10,247.3	10,262.9	10,257.6	30.6	7.8	97.08	-147.9	1,600.6	670.7	632.7	37.96	17.668	
10,350.0	10,269.7	10,291.1	10,285.5	30.6	7.8	97.72	-143.9	1,600.4	671.6	633.6	37.96	17.694	
10,355.0	10,274.1	10,296.8	10,291.1	30.6	7.8	97.85	-143.0	1,600.4	671.8	633.8	37.95	17.700	
10,375.0	10,291.5	10,319.7	10,313.5	30.6	7.8	98.36	-138.5	1,600.3	672.6	634.7	37.95	17.722	
10,400.0	10,312.7	10,348.8	10,341.8	30.7	7.8	99.00	-131.6	1,600.1	673.7	635.8	37.95	17.751	
10,425.0	10,333.1	10,378.4	10,370.1	30.7	7.9	99.65	-123.1	1,599.9	674.9	637.0	37.96	17.781	
10,450.0	10,352.7	10,408.4	10,398.4	30.7	7.9	100.30	-112.9	1,599.7	676.2	638.3	37.97	17.811	
10,475.0	10,371.5	10,439.1	10,426.6	30.7	7.9	100.94	-101.1	1,599.5	677.6	639.7	37.98	17.840	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
10,500.0	10,389.4	10,470.3	10,454.7	30.7	7.9	101.59	-87.5	1,599.3	679.1	641.1	38.01	17.868	
10,525.0	10,406.4	10,502.1	10,482.5	30.7	8.0	102.23	-72.1	1,599.1	680.7	642.7	38.04	17.893	
10,545.0	10,419.3	10,528.0	10,504.5	30.8	8.0	102.74	-58.4	1,598.9	682.0	643.9	38.08	17.911	
10,550.0	10,422.4	10,534.5	10,510.0	30.8	8.0	102.87	-54.8	1,598.8	682.3	644.2	38.09	17.915	
10,575.0	10,437.4	10,567.6	10,536.9	30.8	8.0	103.50	-35.6	1,598.6	684.0	645.9	38.14	17.934	
10,600.0	10,451.3	10,601.4	10,563.2	30.8	8.1	104.12	-14.4	1,598.4	685.8	647.6	38.21	17.949	
10,625.0	10,464.1	10,635.8	10,588.7	30.8	8.1	104.73	8.7	1,598.1	687.5	649.3	38.29	17.958	
10,640.0	10,471.2	10,656.9	10,603.6	30.8	8.2	105.09	23.6	1,598.0	688.6	650.3	38.34	17.962	
10,650.0	10,475.7	10,671.0	10,613.3	30.8	8.2	105.33	33.9	1,597.9	689.4	651.0	38.38	17.962	
10,675.0	10,486.2	10,707.0	10,636.8	30.9	8.2	105.92	61.2	1,597.6	691.2	652.7	38.48	17.962	
10,700.0	10,495.4	10,743.7	10,658.9	30.9	8.3	106.49	90.4	1,597.4	693.0	654.4	38.59	17.956	
10,725.0	10,503.5	10,781.1	10,679.5	30.9	8.4	107.03	121.7	1,597.1	694.8	656.0	38.72	17.944	
10,735.0	10,506.4	10,796.3	10,687.3	30.9	8.4	107.25	134.8	1,597.0	695.5	656.7	38.77	17.938	
10,750.0	10,510.3	10,819.4	10,698.4	30.9	8.4	107.56	154.9	1,596.9	696.5	657.6	38.85	17.927	
10,775.0	10,515.8	10,858.4	10,715.3	30.9	8.5	108.06	190.1	1,596.6	698.2	659.2	38.99	17.906	
10,800.0	10,520.0	10,898.1	10,730.1	31.0	8.5	108.52	226.9	1,596.4	699.8	660.6	39.14	17.879	
10,825.0	10,523.0	10,938.6	10,742.4	31.0	8.6	108.96	265.4	1,596.1	701.3	662.0	39.29	17.847	
10,830.0	10,523.4	10,946.7	10,744.6	31.0	8.6	109.04	273.3	1,596.1	701.6	662.2	39.33	17.840	
10,850.0	10,524.6	10,979.7	10,752.2	31.0	8.7	109.35	305.4	1,595.9	702.7	663.2	39.45	17.810	
10,868.9	10,525.0	11,011.2	10,757.7	31.0	8.8	109.62	336.4	1,595.7	703.6	664.0	39.58	17.779	
10,900.0	10,525.0	11,063.9	10,763.1	31.0	9.0	110.04	388.9	1,595.4	704.7	664.9	39.78	17.716	
10,925.0	10,525.0	11,102.0	10,764.0	31.1	9.2	110.11	426.9	1,595.3	704.8	664.9	39.92	17.655	
11,000.0	10,525.0	11,177.0	10,764.1	31.1	9.5	110.12	501.9	1,594.9	704.8	664.5	40.27	17.504	
11,020.0	10,525.0	11,197.0	10,764.2	31.1	9.6	110.12	521.9	1,594.8	704.8	664.4	40.36	17.461	
11,100.0	10,525.0	11,277.0	10,764.3	31.2	10.0	110.14	601.9	1,594.5	704.7	664.0	40.79	17.280	
11,115.0	10,525.0	11,292.0	10,764.3	31.2	10.1	110.14	616.9	1,594.4	704.7	663.9	40.87	17.244	
11,200.0	10,525.0	11,377.0	10,764.5	31.3	10.5	110.15	701.9	1,594.0	704.7	663.3	41.37	17.034	
11,210.0	10,525.0	11,387.0	10,764.5	31.3	10.6	110.15	711.9	1,594.0	704.7	663.3	41.43	17.008	
11,300.0	10,525.0	11,477.0	10,764.7	31.5	11.1	110.17	801.9	1,593.6	704.7	662.7	42.02	16.771	
11,305.0	10,525.0	11,482.0	10,764.7	31.5	11.2	110.17	806.9	1,593.5	704.7	662.6	42.05	16.757	
11,400.0	10,525.0	11,577.0	10,764.8	31.6	11.7	110.18	901.9	1,593.1	704.6	661.9	42.72	16.494	
11,495.0	10,525.0	11,672.0	10,765.0	31.8	12.4	110.20	996.9	1,592.7	704.6	661.2	43.44	16.222	
11,500.0	10,525.0	11,677.0	10,765.0	31.8	12.4	110.20	1,001.9	1,592.6	704.6	661.1	43.47	16.207	
11,590.0	10,525.0	11,767.0	10,765.2	32.0	13.0	110.22	1,091.9	1,592.2	704.6	660.4	44.19	15.942	
11,600.0	10,525.0	11,777.0	10,765.2	32.0	13.1	110.22	1,101.9	1,592.2	704.6	660.3	44.28	15.913	
11,685.0	10,525.0	11,862.0	10,765.3	32.2	13.6	110.23	1,186.9	1,591.8	704.5	659.5	44.99	15.659	
11,700.0	10,525.0	11,877.0	10,765.3	32.2	13.7	110.23	1,201.9	1,591.7	704.5	659.4	45.12	15.614	
11,780.0	10,525.0	11,957.0	10,765.5	32.4	14.3	110.25	1,281.9	1,591.4	704.5	658.7	45.83	15.373	
11,800.0	10,525.0	11,977.0	10,765.5	32.4	14.5	110.25	1,301.9	1,591.3	704.5	658.5	46.01	15.313	
11,875.0	10,525.0	12,052.0	10,765.6	32.6	15.0	110.26	1,376.9	1,590.9	704.4	657.8	46.70	15.086	
11,900.0	10,525.0	12,077.0	10,765.7	32.7	15.2	110.26	1,401.9	1,590.8	704.4	657.5	46.93	15.011	
11,970.0	10,525.0	12,147.0	10,765.8	32.8	15.7	110.28	1,471.9	1,590.5	704.4	656.8	47.60	14.800	
12,000.0	10,525.0	12,177.0	10,765.9	32.9	15.9	110.28	1,501.9	1,590.4	704.4	656.5	47.89	14.710	
12,065.0	10,525.0	12,242.0	10,766.0	33.1	16.4	110.29	1,566.9	1,590.1	704.4	655.8	48.53	14.515	
12,100.0	10,525.0	12,277.0	10,766.0	33.2	16.7	110.30	1,601.9	1,589.9	704.4	655.5	48.87	14.412	
12,160.0	10,525.0	12,337.0	10,766.1	33.4	17.1	110.31	1,661.9	1,589.6	704.3	654.9	49.48	14.234	
12,200.0	10,525.0	12,377.0	10,766.2	33.5	17.4	110.31	1,701.9	1,589.4	704.3	654.4	49.89	14.117	
12,255.0	10,525.0	12,432.0	10,766.3	33.7	17.9	110.32	1,756.9	1,589.2	704.3	653.8	50.47	13.956	
12,300.0	10,525.0	12,477.0	10,766.4	33.8	18.2	110.33	1,801.9	1,589.0	704.3	653.3	50.94	13.826	
12,350.0	10,525.0	12,527.0	10,766.5	34.0	18.6	110.34	1,851.9	1,588.8	704.3	652.8	51.47	13.682	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												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)			
12,400.0	10,525.0	12,577.0	10,766.6	34.1	19.0	110.35	1,901.9	1,588.5	704.2	652.2	52.01	13.540	
12,445.0	10,525.0	12,622.0	10,766.6	34.3	19.3	110.35	1,946.9	1,588.3	704.2	651.7	52.50	13.413	
12,500.0	10,525.0	12,677.0	10,766.7	34.5	19.8	110.36	2,001.9	1,588.1	704.2	651.1	53.11	13.260	
12,540.0	10,525.0	12,717.0	10,766.8	34.6	20.1	110.37	2,041.9	1,587.9	704.2	650.6	53.56	13.149	
12,600.0	10,525.0	12,777.0	10,766.9	34.8	20.6	110.38	2,101.9	1,587.6	704.2	649.9	54.23	12.985	
12,635.0	10,525.0	12,812.0	10,767.0	35.0	20.8	110.38	2,136.9	1,587.5	704.2	649.5	54.63	12.890	
12,700.0	10,525.0	12,877.0	10,767.1	35.2	21.4	110.39	2,201.9	1,587.2	704.1	648.8	55.37	12.717	
12,730.0	10,525.0	12,907.0	10,767.1	35.3	21.6	110.40	2,231.9	1,587.0	704.1	648.4	55.72	12.638	
12,800.0	10,525.0	12,977.0	10,767.2	35.6	22.2	110.41	2,301.9	1,586.7	704.1	647.6	56.53	12.455	
12,825.0	10,525.0	13,002.0	10,767.3	35.7	22.4	110.41	2,326.9	1,586.6	704.1	647.3	56.82	12.390	
12,900.0	10,525.0	13,077.0	10,767.4	36.0	23.0	110.43	2,401.9	1,586.2	704.1	646.3	57.71	12.200	
12,920.0	10,525.0	13,097.0	10,767.4	36.0	23.1	110.43	2,421.9	1,586.2	704.1	646.1	57.95	12.149	
13,000.0	10,525.0	13,177.0	10,767.6	36.4	23.8	110.44	2,501.9	1,585.8	704.0	645.1	58.91	11.951	
13,015.0	10,525.0	13,192.0	10,767.6	36.4	23.9	110.44	2,516.9	1,585.7	704.0	644.9	59.09	11.914	
13,100.0	10,525.0	13,277.0	10,767.8	36.8	24.6	110.46	2,601.9	1,585.3	704.0	643.9	60.12	11.709	
13,110.0	10,525.0	13,287.0	10,767.8	36.8	24.7	110.46	2,611.9	1,585.3	704.0	643.7	60.25	11.685	
13,200.0	10,525.0	13,377.0	10,767.9	37.2	25.4	110.47	2,701.9	1,584.9	703.9	642.6	61.36	11.473	
13,205.0	10,525.0	13,382.0	10,767.9	37.2	25.5	110.48	2,706.9	1,584.9	703.9	642.5	61.42	11.462	
13,300.0	10,525.0	13,477.0	10,768.1	37.7	26.2	110.49	2,801.8	1,584.4	703.9	641.3	62.60	11.244	
13,395.0	10,525.0	13,572.0	10,768.3	38.1	27.0	110.51	2,896.8	1,584.0	703.9	640.1	63.80	11.033	
13,400.0	10,525.0	13,577.0	10,768.3	38.1	27.1	110.51	2,901.8	1,584.0	703.9	640.0	63.86	11.022	
13,490.0	10,525.0	13,667.0	10,768.4	38.5	27.8	110.52	2,991.8	1,583.5	703.8	638.8	65.01	10.827	
13,500.0	10,525.0	13,677.0	10,768.4	38.6	27.9	110.52	3,001.8	1,583.5	703.8	638.7	65.14	10.806	
13,585.0	10,525.0	13,762.0	10,768.6	39.0	28.6	110.54	3,086.8	1,583.1	703.8	637.6	66.23	10.627	
13,600.0	10,525.0	13,777.0	10,768.6	39.0	28.7	110.54	3,101.8	1,583.0	703.8	637.4	66.42	10.596	
13,680.0	10,525.0	13,857.0	10,768.8	39.4	29.4	110.55	3,181.8	1,582.7	703.8	636.3	67.46	10.432	
13,700.0	10,525.0	13,877.0	10,768.8	39.5	29.5	110.55	3,201.8	1,582.6	703.8	636.0	67.72	10.392	
13,775.0	10,525.0	13,952.0	10,768.9	39.9	30.2	110.57	3,276.8	1,582.2	703.7	635.0	68.71	10.243	
13,800.0	10,525.0	13,977.0	10,769.0	40.0	30.4	110.57	3,301.8	1,582.1	703.7	634.7	69.03	10.194	
13,870.0	10,525.0	14,047.0	10,769.1	40.4	31.0	110.58	3,371.8	1,581.8	703.7	633.7	69.96	10.058	
13,900.0	10,525.0	14,077.0	10,769.1	40.5	31.2	110.59	3,401.8	1,581.7	703.7	633.3	70.36	10.002	
13,965.0	10,525.0	14,142.0	10,769.2	40.8	31.8	110.60	3,466.8	1,581.4	703.7	632.4	71.22	9.880	
14,000.0	10,525.0	14,177.0	10,769.3	41.0	32.0	110.60	3,501.8	1,581.2	703.6	632.0	71.69	9.815	
14,060.0	10,525.0	14,237.0	10,769.4	41.3	32.5	110.61	3,561.8	1,580.9	703.6	631.1	72.50	9.706	
14,100.0	10,525.0	14,277.0	10,769.5	41.5	32.9	110.62	3,601.8	1,580.8	703.6	630.6	73.03	9.634	
14,155.0	10,525.0	14,332.0	10,769.6	41.8	33.3	110.63	3,656.8	1,580.5	703.6	629.8	73.78	9.537	
14,200.0	10,525.0	14,377.0	10,769.7	42.0	33.7	110.64	3,701.8	1,580.3	703.6	629.2	74.39	9.458	
14,250.0	10,525.0	14,427.0	10,769.7	42.3	34.1	110.64	3,751.8	1,580.1	703.6	628.5	75.07	9.372	
14,300.0	10,525.0	14,477.0	10,769.8	42.6	34.6	110.65	3,801.8	1,579.8	703.5	627.8	75.75	9.288	
14,345.0	10,525.0	14,522.0	10,769.9	42.8	34.9	110.66	3,846.8	1,579.6	703.5	627.2	76.36	9.213	
14,400.0	10,525.0	14,577.0	10,770.0	43.1	35.4	110.67	3,901.8	1,579.4	703.5	626.4	77.12	9.122	
14,440.0	10,525.0	14,617.0	10,770.1	43.3	35.7	110.67	3,941.8	1,579.2	703.5	625.8	77.67	9.057	
14,500.0	10,525.0	14,677.0	10,770.2	43.6	36.2	110.68	4,001.8	1,578.9	703.5	625.0	78.50	8.961	
14,535.0	10,525.0	14,712.0	10,770.2	43.8	36.5	110.69	4,036.8	1,578.8	703.4	624.5	78.98	8.906	
14,600.0	10,525.0	14,777.0	10,770.3	44.2	37.1	110.70	4,101.8	1,578.5	703.4	623.5	79.89	8.805	
14,630.0	10,525.0	14,807.0	10,770.4	44.4	37.3	110.70	4,131.8	1,578.3	703.4	623.1	80.30	8.759	
14,700.0	10,525.0	14,877.0	10,770.5	44.8	37.9	110.72	4,201.8	1,578.0	703.4	622.1	81.28	8.654	
14,725.0	10,525.0	14,902.0	10,770.6	44.9	38.1	110.72	4,226.8	1,577.9	703.4	621.7	81.63	8.617	
14,800.0	10,525.0	14,977.0	10,770.7	45.3	38.8	110.73	4,301.8	1,577.6	703.3	620.7	82.68	8.507	
14,820.0	10,525.0	14,997.0	10,770.7	45.4	38.9	110.74	4,321.8	1,577.5	703.3	620.4	82.96	8.478	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 10169-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,900.0	10,525.0	15,077.0	10,770.9	45.9	39.6	110.75	4,401.8	1,577.1	703.3	619.2	84.09	8.364	
14,915.0	10,525.0	15,092.0	10,770.9	46.0	39.7	110.75	4,416.8	1,577.0	703.3	619.0	84.30	8.343	
15,000.0	10,525.0	15,177.0	10,771.0	46.5	40.5	110.76	4,501.8	1,576.7	703.3	617.8	85.51	8.225	
15,010.0	10,525.0	15,187.0	10,771.0	46.5	40.5	110.77	4,511.8	1,576.6	703.3	617.6	85.65	8.211	
15,100.0	10,525.0	15,277.0	10,771.2	47.0	41.3	110.78	4,601.8	1,576.2	703.2	616.3	86.93	8.090	
15,105.0	10,525.0	15,282.0	10,771.2	47.1	41.4	110.78	4,606.8	1,576.2	703.2	616.2	87.00	8.083	
15,200.0	10,525.0	15,377.0	10,771.4	47.6	42.2	110.80	4,701.8	1,575.7	703.2	614.8	88.36	7.959	
15,295.0	10,525.0	15,472.0	10,771.5	48.2	43.0	110.81	4,796.8	1,575.3	703.2	613.4	89.72	7.837	
15,300.0	10,525.0	15,477.0	10,771.5	48.2	43.0	110.81	4,801.8	1,575.3	703.2	613.4	89.79	7.831	
15,390.0	10,525.0	15,567.0	10,771.7	48.7	43.8	110.83	4,891.8	1,574.9	703.1	612.0	91.09	7.719	
15,400.0	10,525.0	15,577.0	10,771.7	48.8	43.9	110.83	4,901.8	1,574.8	703.1	611.9	91.23	7.707	
15,485.0	10,525.0	15,662.0	10,771.9	49.3	44.6	110.84	4,986.8	1,574.4	703.1	610.6	92.46	7.605	
15,500.0	10,525.0	15,677.0	10,771.9	49.4	44.7	110.85	5,001.8	1,574.4	703.1	610.4	92.67	7.587	
15,580.0	10,525.0	15,757.0	10,772.0	49.9	45.4	110.86	5,081.8	1,574.0	703.1	609.2	93.83	7.493	
15,600.0	10,525.0	15,777.0	10,772.1	50.0	45.6	110.86	5,101.8	1,573.9	703.1	608.9	94.12	7.469	
15,675.0	10,525.0	15,852.0	10,772.2	50.5	46.2	110.87	5,176.8	1,573.6	703.0	607.8	95.22	7.384	
15,700.0	10,525.0	15,877.0	10,772.2	50.6	46.4	110.88	5,201.8	1,573.5	703.0	607.4	95.58	7.355	
15,770.0	10,525.0	15,947.0	10,772.4	51.0	47.0	110.89	5,271.8	1,573.1	703.0	606.4	96.60	7.277	
15,800.0	10,525.0	15,977.0	10,772.4	51.2	47.3	110.89	5,301.8	1,573.0	703.0	605.9	97.04	7.244	
15,865.0	10,525.0	16,042.0	10,772.5	51.6	47.8	110.90	5,366.8	1,572.7	703.0	605.0	97.99	7.174	
15,900.0	10,525.0	16,077.0	10,772.6	51.8	48.1	110.91	5,401.8	1,572.5	702.9	604.4	98.50	7.136	
15,960.0	10,525.0	16,137.0	10,772.7	52.2	48.6	110.92	5,461.8	1,572.3	702.9	603.5	99.38	7.073	
16,000.0	10,525.0	16,177.0	10,772.8	52.5	49.0	110.93	5,501.8	1,572.1	702.9	602.9	99.97	7.031	
16,055.0	10,525.0	16,232.0	10,772.8	52.8	49.4	110.93	5,556.8	1,571.8	702.9	602.1	100.78	6.974	
16,100.0	10,525.0	16,277.0	10,772.9	53.1	49.8	110.94	5,601.8	1,571.6	702.9	601.4	101.44	6.929	
16,150.0	10,525.0	16,327.0	10,773.0	53.4	50.2	110.95	5,651.8	1,571.4	702.9	600.7	102.18	6.878	
16,200.0	10,525.0	16,377.0	10,773.1	53.7	50.7	110.96	5,701.8	1,571.2	702.8	599.9	102.92	6.829	
16,245.0	10,525.0	16,422.0	10,773.2	54.0	51.0	110.97	5,746.8	1,571.0	702.8	599.2	103.59	6.785	
16,300.0	10,525.0	16,477.0	10,773.3	54.3	51.5	110.97	5,801.8	1,570.7	702.8	598.4	104.40	6.732	
16,340.0	10,525.0	16,517.0	10,773.3	54.6	51.9	110.98	5,841.8	1,570.5	702.8	597.8	105.00	6.693	
16,400.0	10,525.0	16,577.0	10,773.4	55.0	52.4	110.99	5,901.8	1,570.3	702.8	596.9	105.89	6.637	
16,435.0	10,525.0	16,612.0	10,773.5	55.2	52.7	111.00	5,936.8	1,570.1	702.8	596.3	106.41	6.604	
16,500.0	10,525.0	16,677.0	10,773.6	55.6	53.2	111.01	6,001.8	1,569.8	702.7	595.4	107.37	6.545	
16,530.0	10,525.0	16,707.0	10,773.7	55.8	53.5	111.01	6,031.8	1,569.7	702.7	594.9	107.82	6.517	
16,600.0	10,525.0	16,777.0	10,773.8	56.3	54.1	111.02	6,101.8	1,569.3	702.7	593.8	108.87	6.455	
16,625.0	10,525.0	16,802.0	10,773.8	56.4	54.3	111.03	6,126.8	1,569.2	702.7	593.4	109.24	6.433	
16,700.0	10,525.0	16,877.0	10,774.0	56.9	54.9	111.04	6,201.8	1,568.9	702.7	592.3	110.36	6.367	
16,720.0	10,525.0	16,897.0	10,774.0	57.0	55.1	111.04	6,221.8	1,568.8	702.7	592.0	110.66	6.350	
16,800.0	10,525.0	16,977.0	10,774.1	57.5	55.8	111.06	6,301.8	1,568.4	702.6	590.8	111.86	6.281	
16,815.0	10,525.0	16,992.0	10,774.2	57.6	55.9	111.06	6,316.8	1,568.4	702.6	590.5	112.08	6.269	
16,900.0	10,525.0	17,077.0	10,774.3	58.2	56.6	111.07	6,401.8	1,568.0	702.6	589.2	113.36	6.198	
16,910.0	10,525.0	17,087.0	10,774.3	58.3	56.7	111.07	6,411.8	1,567.9	702.6	589.1	113.51	6.190	
17,000.0	10,525.0	17,177.0	10,774.5	58.8	57.5	111.09	6,501.8	1,567.5	702.6	587.7	114.86	6.116	
17,005.0	10,525.0	17,182.0	10,774.5	58.9	57.5	111.09	6,506.8	1,567.5	702.6	587.6	114.94	6.112	
17,100.0	10,525.0	17,277.0	10,774.6	59.5	58.3	111.10	6,601.8	1,567.1	702.5	586.1	116.37	6.037	
17,195.0	10,525.0	17,372.0	10,774.8	60.1	59.2	111.12	6,696.8	1,566.6	702.5	584.7	117.81	5.963	
17,200.0	10,525.0	17,377.0	10,774.8	60.2	59.2	111.12	6,701.8	1,566.6	702.5	584.6	117.88	5.959	
17,290.0	10,525.0	17,467.0	10,775.0	60.8	60.0	111.13	6,791.8	1,566.2	702.4	583.2	119.24	5.891	
17,300.0	10,525.0	17,477.0	10,775.0	60.8	60.1	111.14	6,801.8	1,566.1	702.4	583.1	119.39	5.883	
17,385.0	10,525.0	17,562.0	10,775.1	61.4	60.8	111.15	6,886.8	1,565.8	702.4	581.7	120.68	5.820	

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 GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		MASTIFF FEDERAL PROJECT (BULLDOG 2432) - MASTIFF FEDERAL COM 406H - OWB - PWP0											Offset Site Error:		0.0 usft	
Survey Program:		0-Standard Keeper 104, 10169-MWD+IFR1+FDIR											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
17,400.0	10,525.0	17,577.0	10,775.2	61.5	60.9	111.15	6,901.8	1,565.7	702.4	581.5	120.91	5.809				
17,480.0	10,525.0	17,657.0	10,775.3	62.0	61.6	111.17	6,981.8	1,565.3	702.4	580.3	122.12	5.751				
17,500.0	10,525.0	17,677.0	10,775.3	62.2	61.8	111.17	7,001.8	1,565.2	702.4	579.9	122.43	5.737				
17,575.0	10,525.0	17,752.0	10,775.5	62.7	62.4	111.18	7,076.8	1,564.9	702.3	578.8	123.57	5.684				
17,600.0	10,525.0	17,777.0	10,775.5	62.8	62.6	111.18	7,101.8	1,564.8	702.3	578.4	123.95	5.667				
17,670.0	10,525.0	17,847.0	10,775.6	63.3	63.2	111.20	7,171.8	1,564.5	702.3	577.3	125.01	5.618				
17,700.0	10,525.0	17,877.0	10,775.7	63.5	63.5	111.20	7,201.8	1,564.3	702.3	576.8	125.47	5.597				
17,765.0	10,525.0	17,942.0	10,775.8	63.9	64.0	111.21	7,266.8	1,564.0	702.3	575.8	126.46	5.553				
17,800.0	10,525.0	17,977.0	10,775.9	64.2	64.3	111.22	7,301.8	1,563.9	702.3	575.3	126.99	5.530				
17,860.0	10,525.0	18,037.0	10,776.0	64.6	64.9	111.23	7,361.8	1,563.6	702.2	574.3	127.91	5.490				
17,900.0	10,525.0	18,077.0	10,776.0	64.8	65.2	111.23	7,401.8	1,563.4	702.2	573.7	128.52	5.464				
17,955.0	10,525.0	18,132.0	10,776.1	65.2	65.7	111.24	7,456.8	1,563.1	702.2	572.9	129.36	5.428				
18,000.0	10,525.0	18,177.0	10,776.2	65.5	66.1	111.25	7,501.8	1,562.9	702.2	572.2	130.05	5.400				
18,050.0	10,525.0	18,227.0	10,776.3	65.8	66.5	111.26	7,551.8	1,562.7	702.2	571.4	130.81	5.368				
18,100.0	10,525.0	18,277.0	10,776.4	66.2	66.9	111.27	7,601.8	1,562.5	702.2	570.6	131.58	5.336				
18,110.8	10,525.0	18,287.7	10,776.4	66.3	67.0	111.27	7,612.6	1,562.4	702.2	570.4	131.74	5.330				
18,145.0	10,525.0	18,322.0	10,776.4	66.5	67.3	111.27	7,646.8	1,562.3	702.1	569.9	132.27	5.309				
18,160.8	10,525.0	18,337.7	10,776.5	66.6	67.4	111.28	7,662.5	1,562.2	702.1	569.6	132.51	5.299 ES, SF				

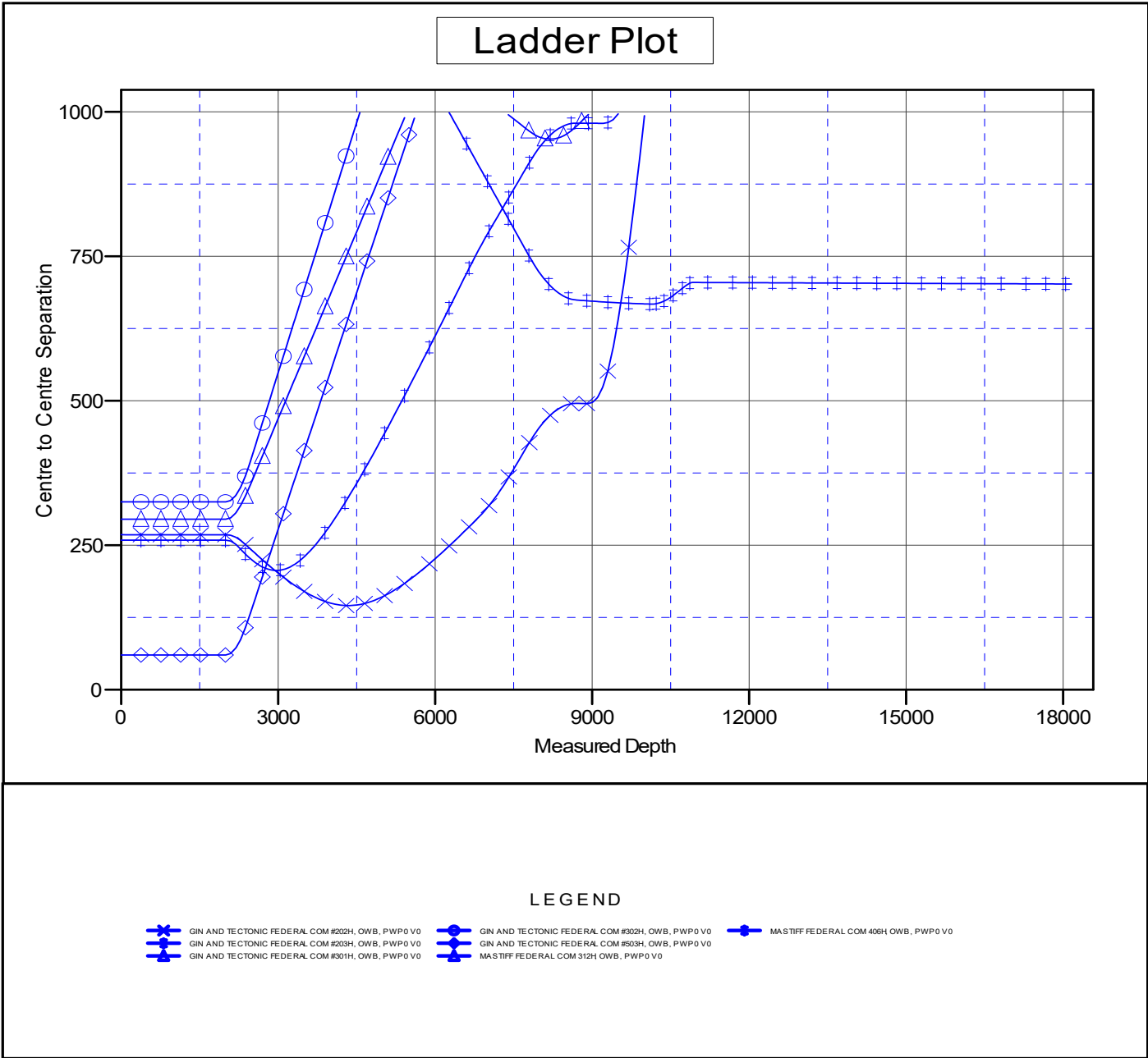
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3672.9usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #501H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.34°



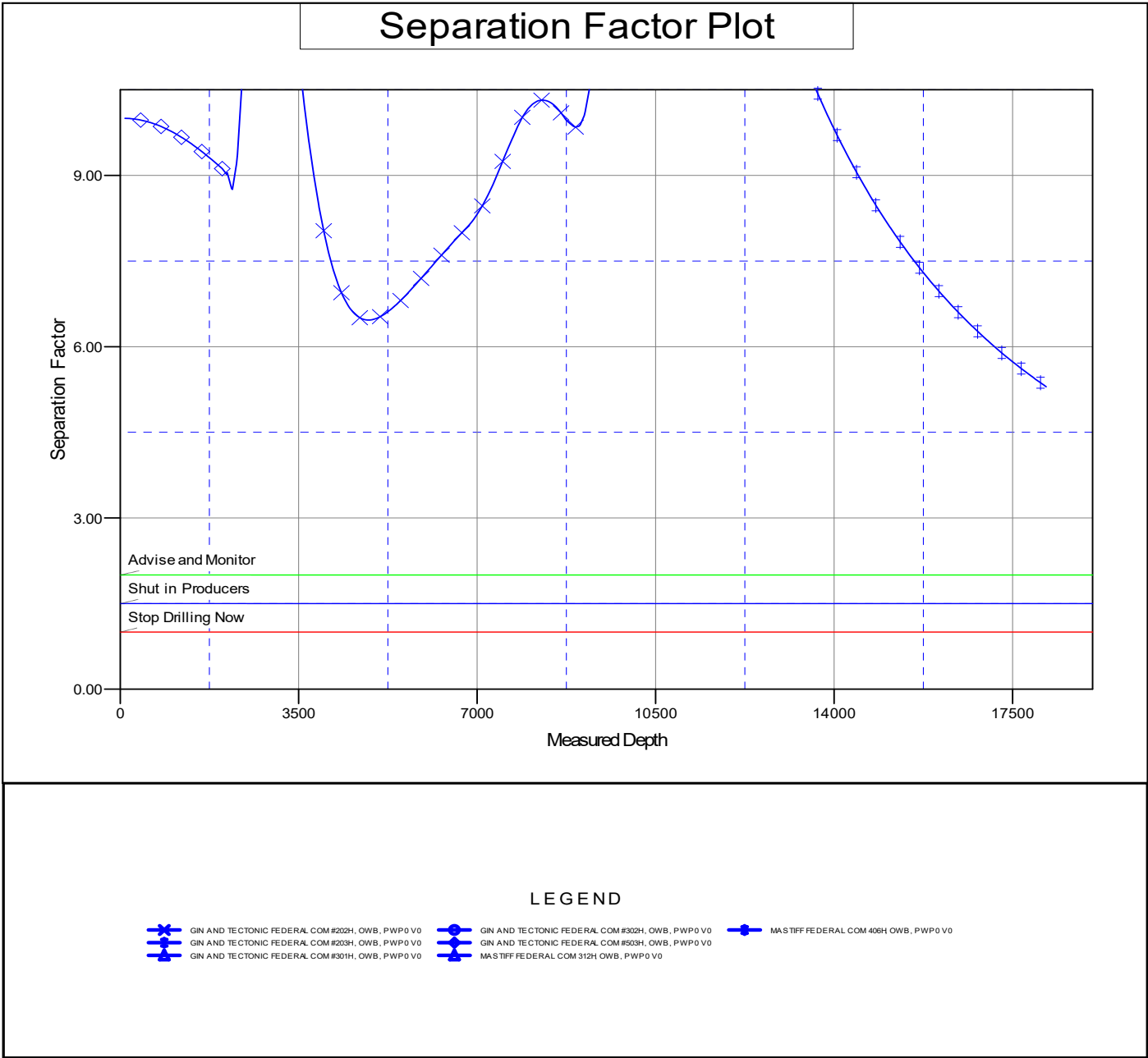
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=30' @ 3672.9usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	KB=30' @ 3672.9usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=30' @ 3672.9usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #501H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.34°



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #501H

300254842800

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #501H		
Well Position	+N/-S	278.4 usft	Northing:
	+E/-W	4,039.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	5/1/2022	6.53	59.88	47,612.67316444

Design	PWP0				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	6.76	

Plan Survey Tool Program		Date	5/24/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1	
2	2,000.0	10,118.9 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,118.9	18,160.8 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	2.00	2.00	0.00	96.67	
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	0.00	0.00	0.00	0.00	
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.00	-1.00	0.00	180.00	
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	0.00	0.00	0.00	0.00	
10,868.9	90.00	359.80	10,525.0	368.2	933.6	12.00	12.00	-0.03	359.80	
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	0.00	0.00	0.00	0.00	LTP (GIN AND TECTO
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	0.00	0.00	0.00	0.00	PBHL (GIN AND TEC

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	96.67	2,100.0	-0.2	1.7	0.0	2.00	2.00	0.00
2,200.0	4.00	96.67	2,199.8	-0.8	6.9	0.0	2.00	2.00	0.00
2,300.0	6.00	96.67	2,299.5	-1.8	15.6	0.0	2.00	2.00	0.00
2,400.0	8.00	96.67	2,398.7	-3.2	27.7	0.0	2.00	2.00	0.00
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	0.1	2.00	2.00	0.00
Start 5340.9 hold at 2450.2 MD									
2,500.0	9.00	96.67	2,497.5	-5.0	42.8	0.1	0.00	0.00	0.00
2,600.0	9.00	96.67	2,596.3	-6.8	58.3	0.1	0.00	0.00	0.00
2,700.0	9.00	96.67	2,695.1	-8.6	73.9	0.1	0.00	0.00	0.00
2,800.0	9.00	96.67	2,793.8	-10.5	89.4	0.1	0.00	0.00	0.00
2,900.0	9.00	96.67	2,892.6	-12.3	105.0	0.2	0.00	0.00	0.00
3,000.0	9.00	96.67	2,991.4	-14.1	120.5	0.2	0.00	0.00	0.00
3,100.0	9.00	96.67	3,090.1	-15.9	136.1	0.2	0.00	0.00	0.00
3,200.0	9.00	96.67	3,188.9	-17.7	151.6	0.3	0.00	0.00	0.00
3,300.0	9.00	96.67	3,287.7	-19.5	167.1	0.3	0.00	0.00	0.00
3,400.0	9.00	96.67	3,386.4	-21.3	182.7	0.3	0.00	0.00	0.00
3,500.0	9.00	96.67	3,485.2	-23.2	198.2	0.3	0.00	0.00	0.00
3,600.0	9.00	96.67	3,584.0	-25.0	213.8	0.4	0.00	0.00	0.00
3,700.0	9.00	96.67	3,682.8	-26.8	229.3	0.4	0.00	0.00	0.00
3,800.0	9.00	96.67	3,781.5	-28.6	244.9	0.4	0.00	0.00	0.00
3,900.0	9.00	96.67	3,880.3	-30.4	260.4	0.4	0.00	0.00	0.00
4,000.0	9.00	96.67	3,979.1	-32.2	275.9	0.5	0.00	0.00	0.00
4,100.0	9.00	96.67	4,077.8	-34.1	291.5	0.5	0.00	0.00	0.00
4,200.0	9.00	96.67	4,176.6	-35.9	307.0	0.5	0.00	0.00	0.00
4,300.0	9.00	96.67	4,275.4	-37.7	322.6	0.5	0.00	0.00	0.00
4,400.0	9.00	96.67	4,374.1	-39.5	338.1	0.6	0.00	0.00	0.00
4,500.0	9.00	96.67	4,472.9	-41.3	353.7	0.6	0.00	0.00	0.00
4,600.0	9.00	96.67	4,571.7	-43.1	369.2	0.6	0.00	0.00	0.00
4,700.0	9.00	96.67	4,670.4	-45.0	384.7	0.6	0.00	0.00	0.00
4,800.0	9.00	96.67	4,769.2	-46.8	400.3	0.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	9.00	96.67	4,868.0	-48.6	415.8	0.7	0.00	0.00	0.00
5,000.0	9.00	96.67	4,966.7	-50.4	431.4	0.7	0.00	0.00	0.00
5,100.0	9.00	96.67	5,065.5	-52.2	446.9	0.7	0.00	0.00	0.00
5,200.0	9.00	96.67	5,164.3	-54.0	462.5	0.8	0.00	0.00	0.00
5,300.0	9.00	96.67	5,263.0	-55.9	478.0	0.8	0.00	0.00	0.00
5,400.0	9.00	96.67	5,361.8	-57.7	493.5	0.8	0.00	0.00	0.00
5,500.0	9.00	96.67	5,460.6	-59.5	509.1	0.8	0.00	0.00	0.00
5,600.0	9.00	96.67	5,559.3	-61.3	524.6	0.9	0.00	0.00	0.00
5,700.0	9.00	96.67	5,658.1	-63.1	540.2	0.9	0.00	0.00	0.00
5,800.0	9.00	96.67	5,756.9	-64.9	555.7	0.9	0.00	0.00	0.00
5,900.0	9.00	96.67	5,855.6	-66.8	571.3	0.9	0.00	0.00	0.00
6,000.0	9.00	96.67	5,954.4	-68.6	586.8	1.0	0.00	0.00	0.00
6,100.0	9.00	96.67	6,053.2	-70.4	602.4	1.0	0.00	0.00	0.00
6,200.0	9.00	96.67	6,152.0	-72.2	617.9	1.0	0.00	0.00	0.00
6,300.0	9.00	96.67	6,250.7	-74.0	633.4	1.0	0.00	0.00	0.00
6,400.0	9.00	96.67	6,349.5	-75.8	649.0	1.1	0.00	0.00	0.00
6,500.0	9.00	96.67	6,448.3	-77.7	664.5	1.1	0.00	0.00	0.00
6,600.0	9.00	96.67	6,547.0	-79.5	680.1	1.1	0.00	0.00	0.00
6,700.0	9.00	96.67	6,645.8	-81.3	695.6	1.1	0.00	0.00	0.00
6,800.0	9.00	96.67	6,744.6	-83.1	711.2	1.2	0.00	0.00	0.00
6,900.0	9.00	96.67	6,843.3	-84.9	726.7	1.2	0.00	0.00	0.00
7,000.0	9.00	96.67	6,942.1	-86.7	742.2	1.2	0.00	0.00	0.00
7,100.0	9.00	96.67	7,040.9	-88.6	757.8	1.3	0.00	0.00	0.00
7,200.0	9.00	96.67	7,139.6	-90.4	773.3	1.3	0.00	0.00	0.00
7,300.0	9.00	96.67	7,238.4	-92.2	788.9	1.3	0.00	0.00	0.00
7,400.0	9.00	96.67	7,337.2	-94.0	804.4	1.3	0.00	0.00	0.00
7,500.0	9.00	96.67	7,435.9	-95.8	820.0	1.4	0.00	0.00	0.00
7,600.0	9.00	96.67	7,534.7	-97.6	835.5	1.4	0.00	0.00	0.00
7,700.0	9.00	96.67	7,633.5	-99.5	851.0	1.4	0.00	0.00	0.00
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	1.4	0.00	0.00	0.00
Start Drop -1.00									
7,800.0	8.91	96.67	7,732.2	-101.3	866.6	1.4	1.00	-1.00	0.00
7,900.0	7.91	96.67	7,831.2	-103.0	881.1	1.5	1.00	-1.00	0.00
8,000.0	6.91	96.67	7,930.3	-104.5	893.9	1.5	1.00	-1.00	0.00
8,100.0	5.91	96.67	8,029.7	-105.8	905.0	1.5	1.00	-1.00	0.00
8,200.0	4.91	96.67	8,129.3	-106.9	914.4	1.5	1.00	-1.00	0.00
8,300.0	3.91	96.67	8,229.0	-107.7	922.0	1.5	1.00	-1.00	0.00
8,400.0	2.91	96.67	8,328.8	-108.4	927.9	1.5	1.00	-1.00	0.00
8,500.0	1.91	96.67	8,428.7	-108.9	932.1	1.5	1.00	-1.00	0.00
8,600.0	0.91	96.67	8,528.7	-109.2	934.6	1.5	1.00	-1.00	0.00
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.5	1.00	-1.00	0.00
Start 1427.5 hold at 8691.4 MD									
8,700.0	0.00	0.00	8,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,128.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,228.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,328.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,428.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,528.6	-109.3	935.3	1.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	0.00	0.00	9,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	1.5	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,125.0	0.73	359.80	10,053.6	-109.3	935.3	1.6	12.00	12.00	0.00
10,150.0	3.73	359.80	10,078.6	-108.3	935.3	2.6	12.00	12.00	0.00
10,175.0	6.73	359.80	10,103.5	-106.0	935.3	4.8	12.00	12.00	0.00
10,200.0	9.73	359.80	10,128.3	-102.4	935.3	8.4	12.00	12.00	0.00
10,225.0	12.73	359.80	10,152.8	-97.6	935.3	13.2	12.00	12.00	0.00
10,250.0	15.73	359.80	10,177.0	-91.4	935.2	19.3	12.00	12.00	0.00
10,275.0	18.73	359.80	10,200.9	-84.0	935.2	26.7	12.00	12.00	0.00
10,300.0	21.73	359.80	10,224.3	-75.4	935.2	35.2	12.00	12.00	0.00
10,325.0	24.73	359.80	10,247.3	-65.5	935.1	45.0	12.00	12.00	0.00
10,350.0	27.73	359.80	10,269.7	-54.4	935.1	56.0	12.00	12.00	0.00
10,375.0	30.73	359.80	10,291.5	-42.2	935.1	68.1	12.00	12.00	0.00
10,400.0	33.73	359.80	10,312.7	-28.9	935.0	81.3	12.00	12.00	0.00
10,425.0	36.73	359.80	10,333.1	-14.5	935.0	95.7	12.00	12.00	0.00
10,450.0	39.73	359.80	10,352.7	1.0	934.9	111.0	12.00	12.00	0.00
10,475.0	42.73	359.80	10,371.5	17.5	934.9	127.4	12.00	12.00	0.00
10,500.0	45.73	359.80	10,389.4	34.9	934.8	144.7	12.00	12.00	0.00
10,525.0	48.73	359.80	10,406.4	53.2	934.7	162.9	12.00	12.00	0.00
10,550.0	51.73	359.80	10,422.4	72.5	934.7	182.0	12.00	12.00	0.00
10,575.0	54.73	359.80	10,437.4	92.5	934.6	201.8	12.00	12.00	0.00
10,600.0	57.73	359.80	10,451.3	113.3	934.5	222.5	12.00	12.00	0.00
10,625.0	60.73	359.80	10,464.1	134.7	934.4	243.8	12.00	12.00	0.00
10,650.0	63.73	359.80	10,475.7	156.9	934.4	265.7	12.00	12.00	0.00
10,675.0	66.73	359.80	10,486.2	179.6	934.3	288.3	12.00	12.00	0.00
10,700.0	69.73	359.80	10,495.4	202.8	934.2	311.3	12.00	12.00	0.00
10,725.0	72.73	359.80	10,503.5	226.4	934.1	334.8	12.00	12.00	0.00
10,750.0	75.73	359.80	10,510.3	250.5	934.0	358.7	12.00	12.00	0.00
10,775.0	78.73	359.80	10,515.8	274.9	933.9	382.9	12.00	12.00	0.00
10,800.0	81.73	359.80	10,520.0	299.5	933.9	407.3	12.00	12.00	0.00
10,825.0	84.73	359.80	10,523.0	324.3	933.8	432.0	12.00	12.00	0.00
10,850.0	87.73	359.80	10,524.6	349.3	933.7	456.7	12.00	12.00	0.00
10,868.9	90.00	359.80	10,525.0	368.2	933.6	475.5	12.00	12.00	0.00
Start 7241.9 hold at 10868.9 MD									
10,900.0	90.00	359.80	10,525.0	399.3	933.5	506.4	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	499.3	933.2	605.6	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	599.3	932.8	704.9	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	699.3	932.5	804.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	799.3	932.1	903.4	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	899.3	931.7	1,002.7	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	999.3	931.4	1,102.0	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,099.3	931.0	1,201.2	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,199.3	930.7	1,300.5	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,299.3	930.3	1,399.7	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,399.3	930.0	1,499.0	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,499.3	929.6	1,598.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,599.3	929.3	1,697.5	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.0	90.00	359.80	10,525.0	1,699.3	928.9	1,796.8	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,799.3	928.6	1,896.1	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,899.3	928.2	1,995.3	0.00	0.00	0.00
12,500.0	90.00	359.80	10,525.0	1,999.3	927.9	2,094.6	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,099.3	927.5	2,193.8	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,199.3	927.2	2,293.1	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,299.3	926.8	2,392.4	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,399.3	926.5	2,491.6	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,499.3	926.1	2,590.9	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,599.3	925.8	2,690.2	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,699.3	925.4	2,789.4	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,799.3	925.1	2,888.7	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,899.3	924.7	2,987.9	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,999.3	924.3	3,087.2	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,099.3	924.0	3,186.5	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,199.3	923.6	3,285.7	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,299.3	923.3	3,385.0	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,399.3	922.9	3,484.3	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,499.3	922.6	3,583.5	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,599.3	922.2	3,682.8	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,699.3	921.9	3,782.0	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,799.3	921.5	3,881.3	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,899.3	921.2	3,980.6	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,999.3	920.8	4,079.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,099.3	920.5	4,179.1	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,199.3	920.1	4,278.4	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,299.3	919.8	4,377.6	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,399.3	919.4	4,476.9	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,499.3	919.1	4,576.2	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,599.3	918.7	4,675.4	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,699.2	918.4	4,774.7	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,799.2	918.0	4,873.9	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,899.2	917.7	4,973.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,999.2	917.3	5,072.5	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,099.2	916.9	5,171.7	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,199.2	916.6	5,271.0	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,299.2	916.2	5,370.3	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,399.2	915.9	5,469.5	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,499.2	915.5	5,568.8	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,599.2	915.2	5,668.0	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,699.2	914.8	5,767.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,799.2	914.5	5,866.6	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,899.2	914.1	5,965.8	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,999.2	913.8	6,065.1	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,099.2	913.4	6,164.4	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,199.2	913.1	6,263.6	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,299.2	912.7	6,362.9	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,399.2	912.4	6,462.1	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,499.2	912.0	6,561.4	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,599.2	911.7	6,660.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,699.2	911.3	6,759.9	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,799.2	911.0	6,859.2	0.00	0.00	0.00

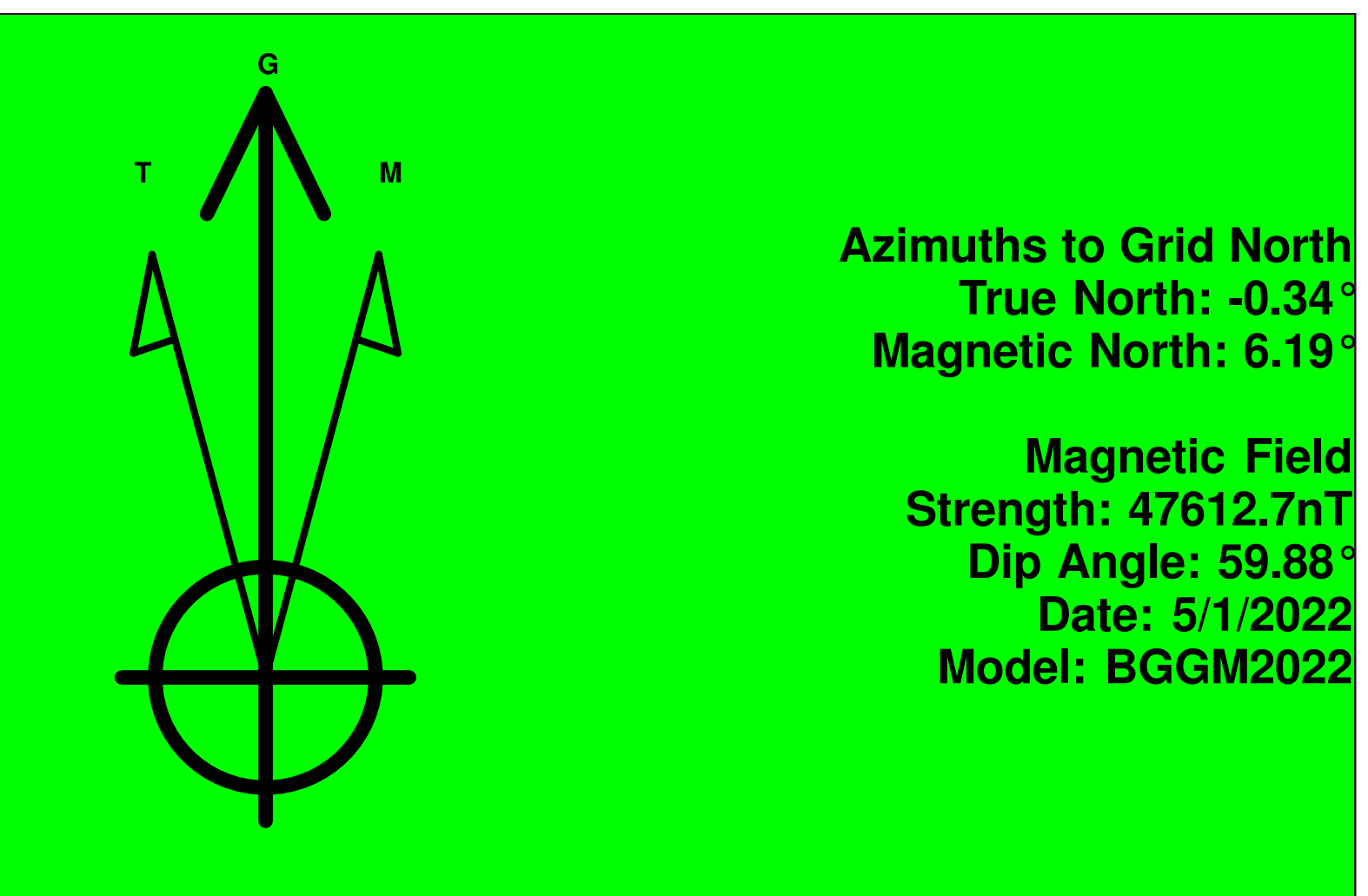
ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.0	90.00	359.80	10,525.0	6,899.2	910.6	6,958.5	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,999.2	910.3	7,057.7	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,099.2	909.9	7,157.0	0.00	0.00	0.00
17,700.0	90.00	359.80	10,525.0	7,199.2	909.5	7,256.2	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,299.2	909.2	7,355.5	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,399.2	908.8	7,454.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,499.2	908.5	7,554.0	0.00	0.00	0.00
18,100.0	90.00	359.80	10,525.0	7,599.2	908.1	7,653.3	0.00	0.00	0.00
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	7,664.0	0.00	0.00	0.00
Start 50.0 hold at 18110.8 MD									
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	7,713.6	0.00	0.00	0.00
TD at 18160.8									

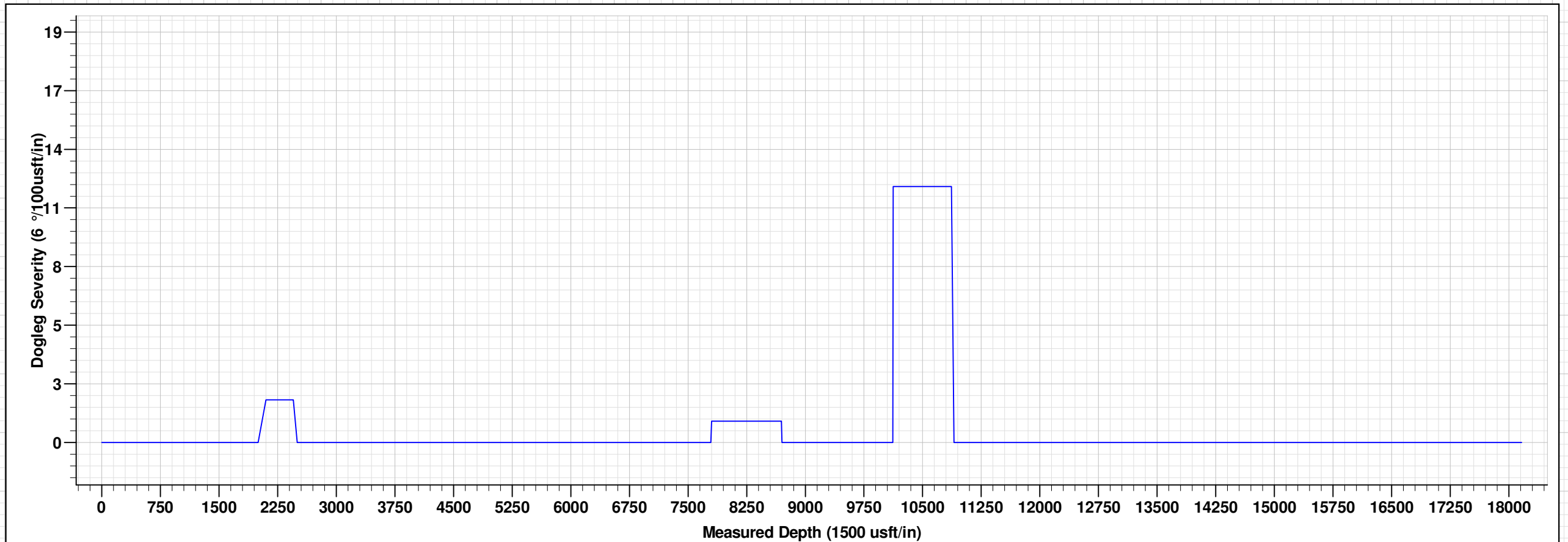
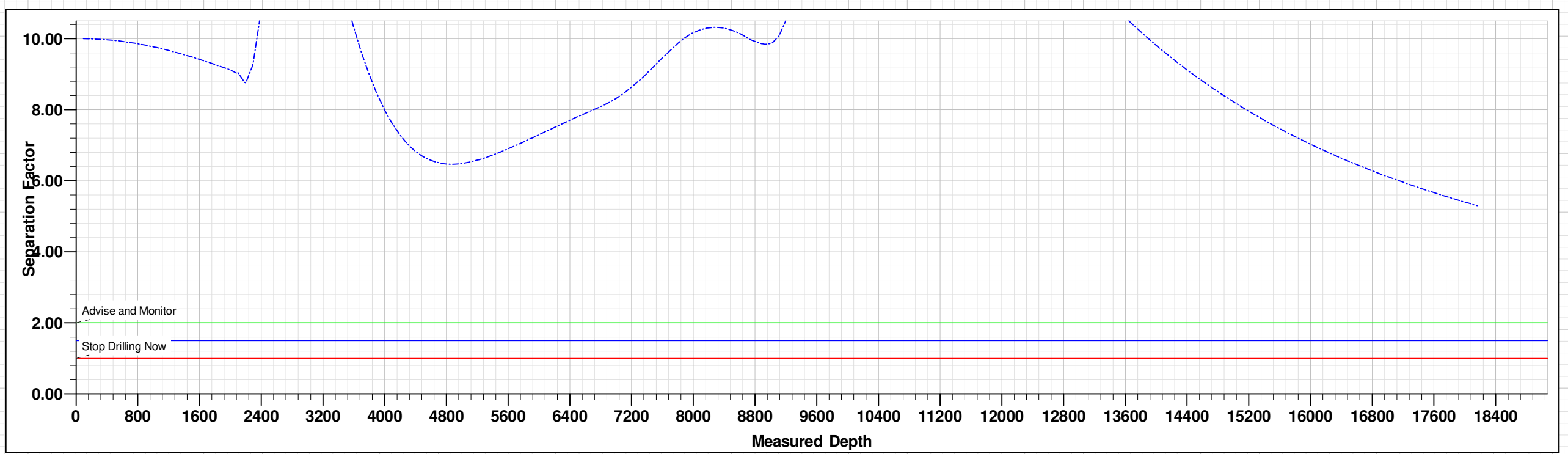
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (GIN AND TECTC - plan hits target center - Rectangle (sides W100.0 H7,875.0 D20.0)	0.00	179.80	10,525.0	7,660.0	907.9	459,195.20	699,259.50	32° 15' 38.879 N	103° 41' 19.408 W
LTP (GIN AND TECTON - plan hits target center - Point	0.00	0.00	10,525.0	7,610.0	908.1	459,145.20	699,259.70	32° 15' 38.384 N	103° 41' 19.409 W
FTP (GIN AND TECTON - plan misses target center by 197.8usft at 10496.5usft MD (10387.0 TVD, 32.4 N, 934.8 E) - Circle (radius 50.0)	0.00	0.00	10,525.0	-109.3	935.3	451,425.90	699,286.90	32° 14' 21.995 N	103° 41' 19.632 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,450.2	2,448.3	-4.1	35.1	Start 5340.9 hold at 2450.2 MD
7,791.0	7,723.4	-101.1	865.2	Start Drop -1.00
8,691.4	8,620.0	-109.3	935.3	Start 1427.5 hold at 8691.4 MD
10,118.9	10,047.5	-109.3	935.3	Start DLS 12.00 TFO 359.80
10,868.9	10,525.0	368.2	933.6	Start 7241.9 hold at 10868.9 MD
18,110.8	10,525.0	7,610.0	908.1	Start 50.0 hold at 18110.8 MD
18,160.8	10,525.0	7,660.0	907.9	TD at 18160.8

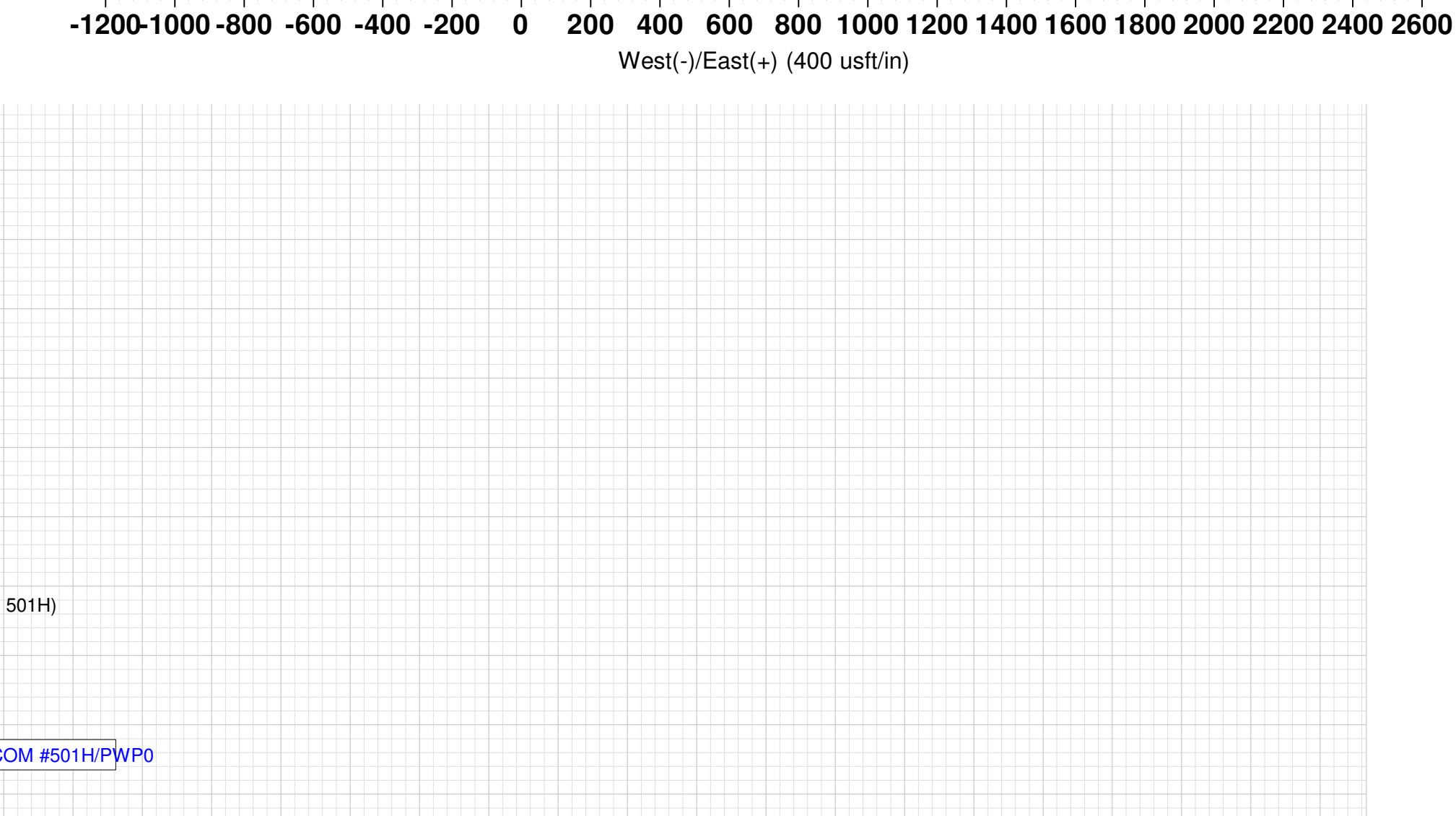
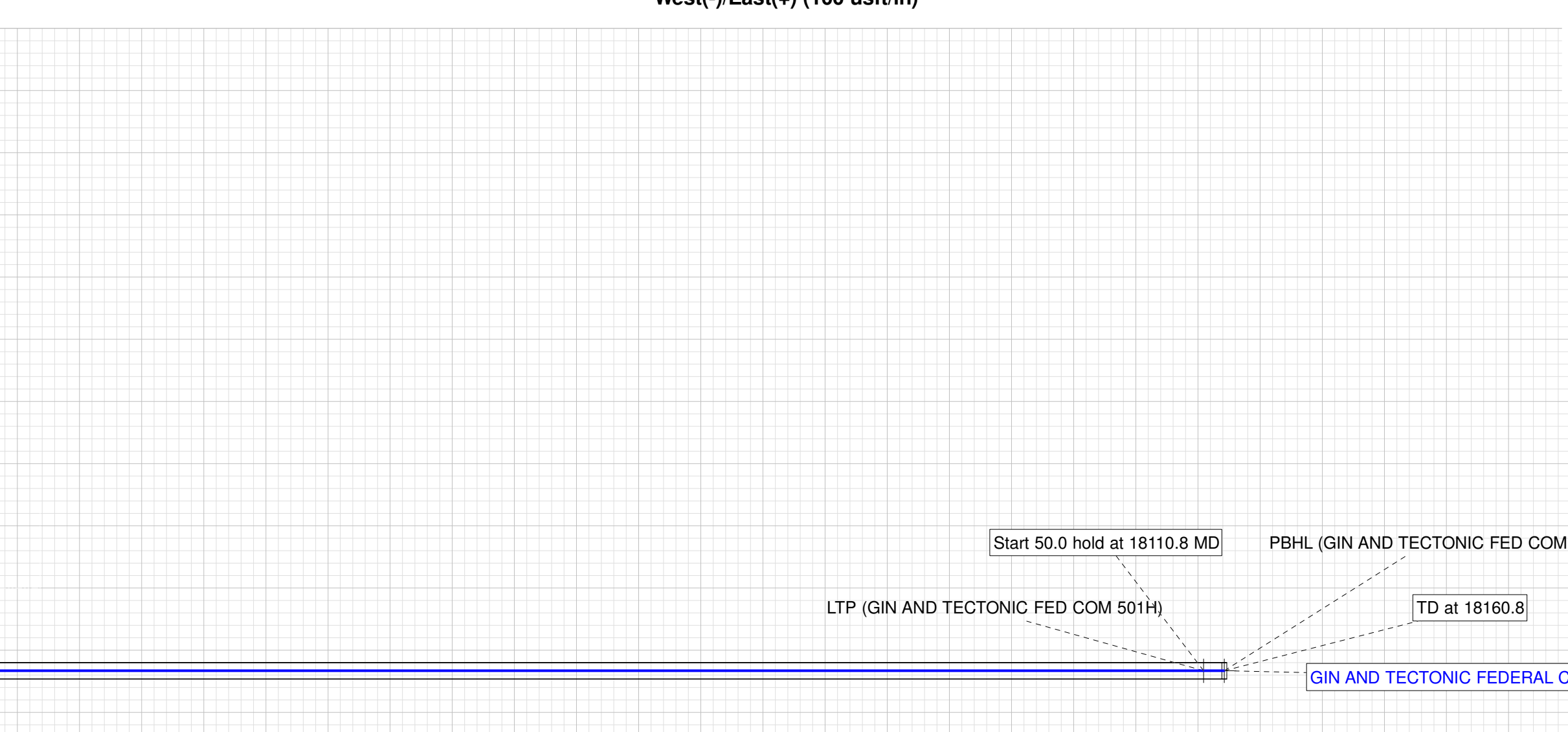
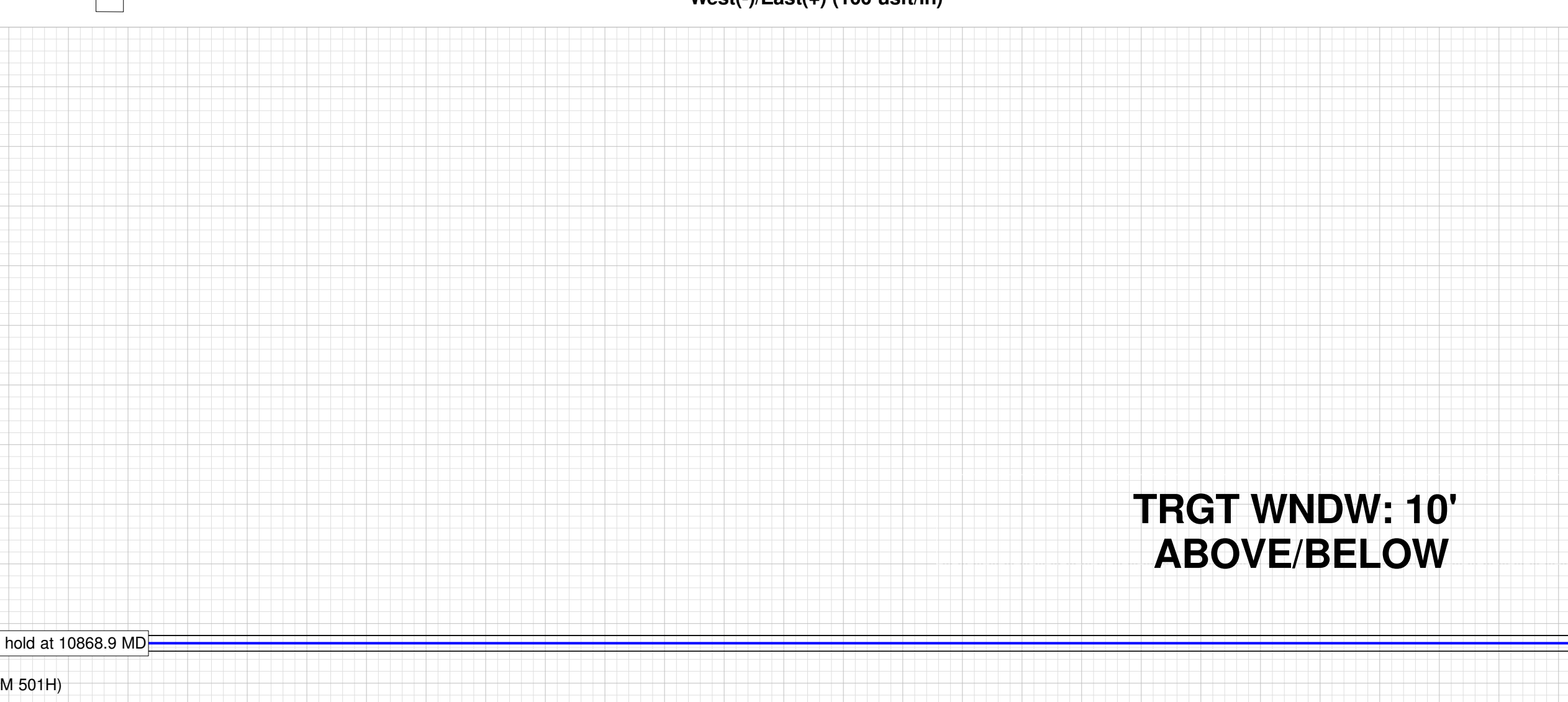
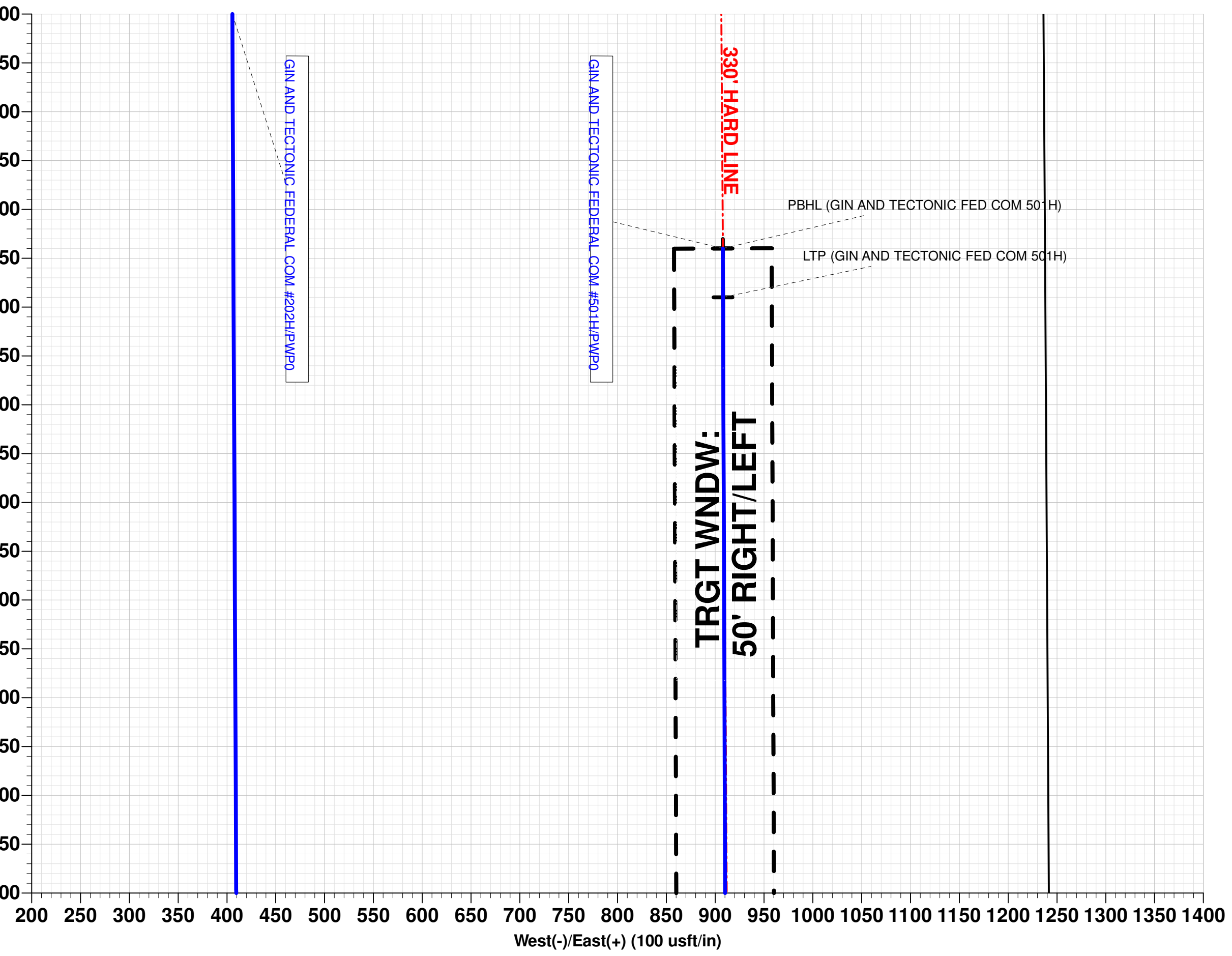
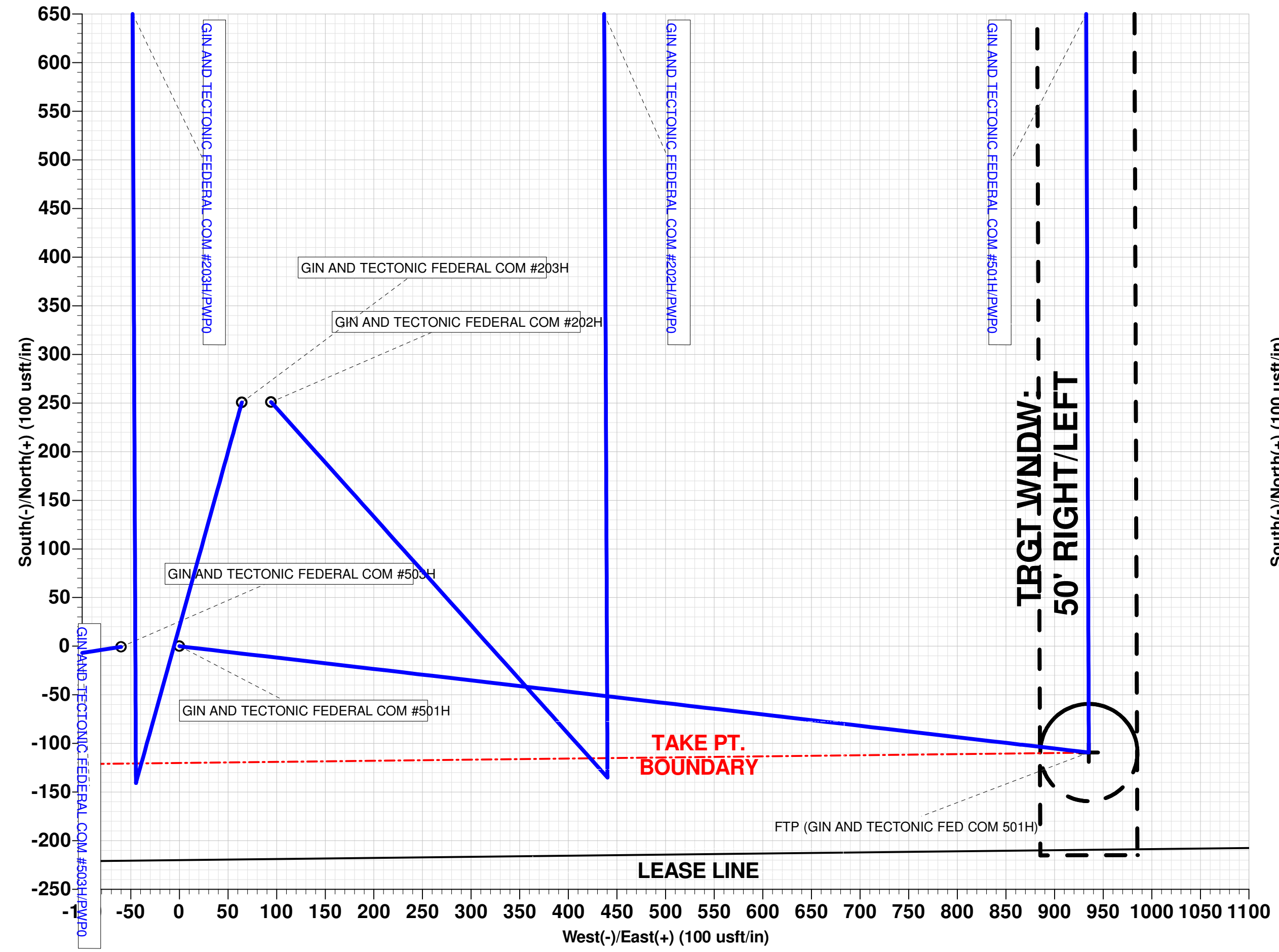
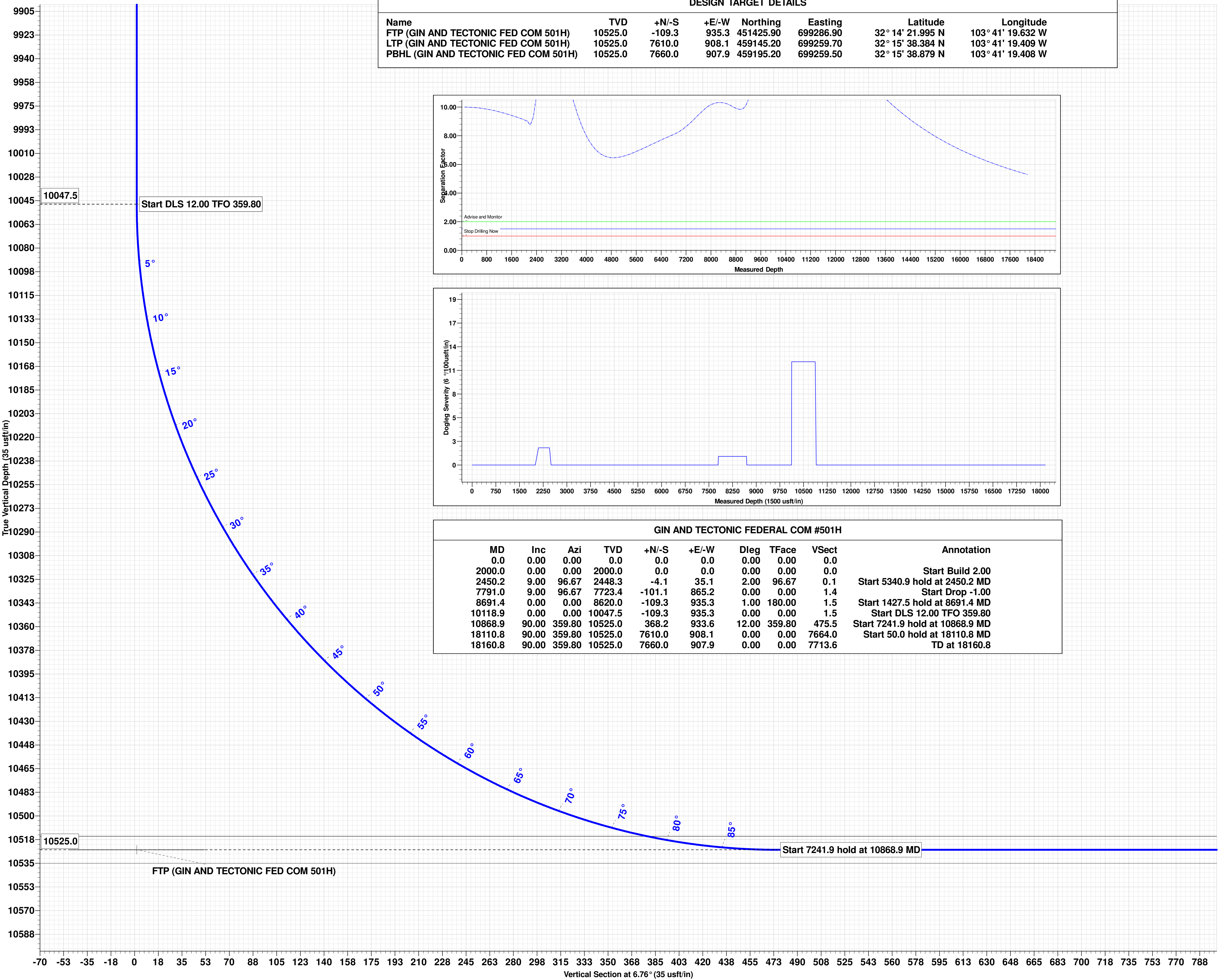
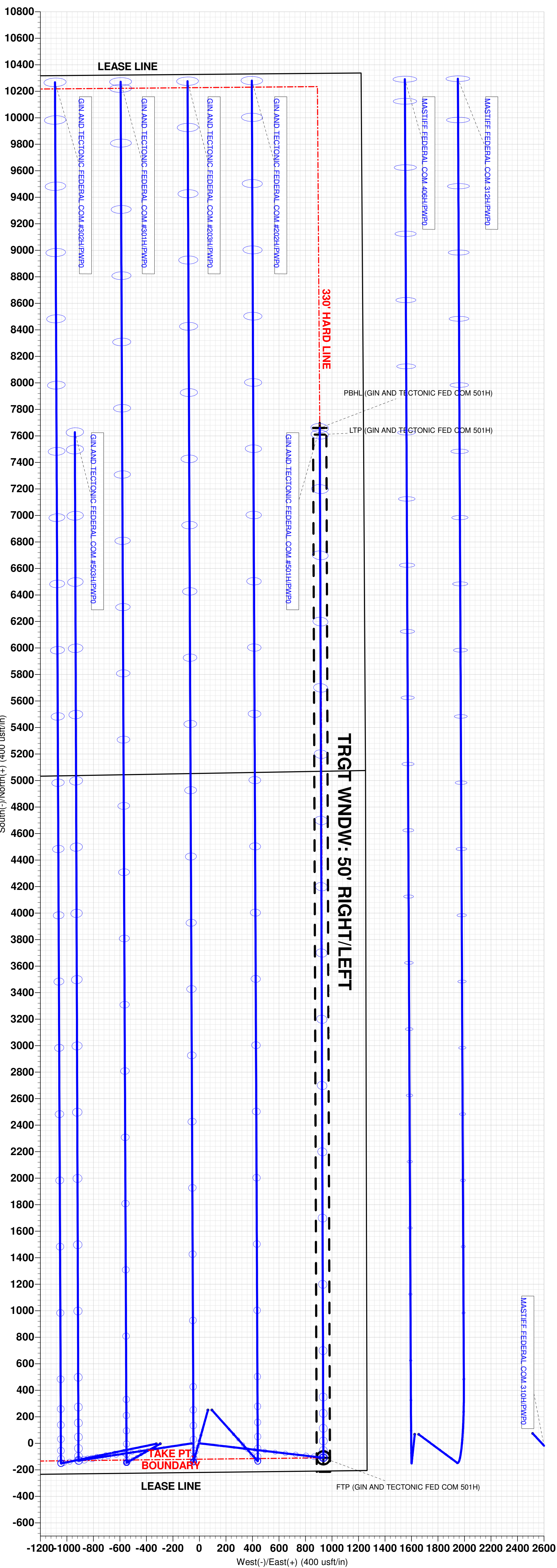


WELL DETAILS: GIN AND TECTONIC FEDERAL COM #501H				
+N-S	+E-W	Northing	Easting	Latitude
0.0	0.0	451535.20	698351.60	32° 14' 23.132 N
				103° 41' 30.514 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (GIN AND TECTONIC FED COM 501H)	10525.0	-109.3	935.3	451425.90	699286.90	32° 14' 21.995 N
LTP (GIN AND TECTONIC FED COM 501H)	10525.0	7610.0	908.1	459145.20	699259.70	32° 15' 38.384 N
PBHL (GIN AND TECTONIC FED COM 501H)	10525.0	7660.0	907.9	459195.20	699259.50	32° 15' 38.879 N



GIN AND TECTONIC FEDERAL COM #501H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2450.2	9.00	96.67	2448.3	-4.1	35.1	2.00	96.67	0.1	Start 5340.9 hold at 2450.2 MD
7791.0	9.00	96.67	7723.4	-101.1	865.2	0.00	0.00	1.4	Start Drop -1.00
8691.4	0.00	0.00	8620.0	-109.3	935.3	1.00	180.00	1.5	Start 1427.5 hold at 8691.4 MD
10118.9	0.00	0.00	10047.5	-109.3	935.3	0.00	0.00	1.5	Start DLS 12.00 TFO 359.80
10868.9	90.00	359.80	10525.0	368.2	933.6	12.00	359.80	475.5	Start 7241.9 hold at 10868.9 MD
18110.8	90.00	359.80	10525.0	7610.0	908.1	0.00	0.00	7664.0	Start 50.0 hold at 18110.8 MD
18160.8	90.00	359.80	10525.0	7660.0	907.9	0.00	0.00	7713.6	TD at 18160.8



TRGT WNDW: 10' ABOVE/BELOW

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 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 30-025-48428		Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM		Well Number 501H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3642.9'

Surface Location

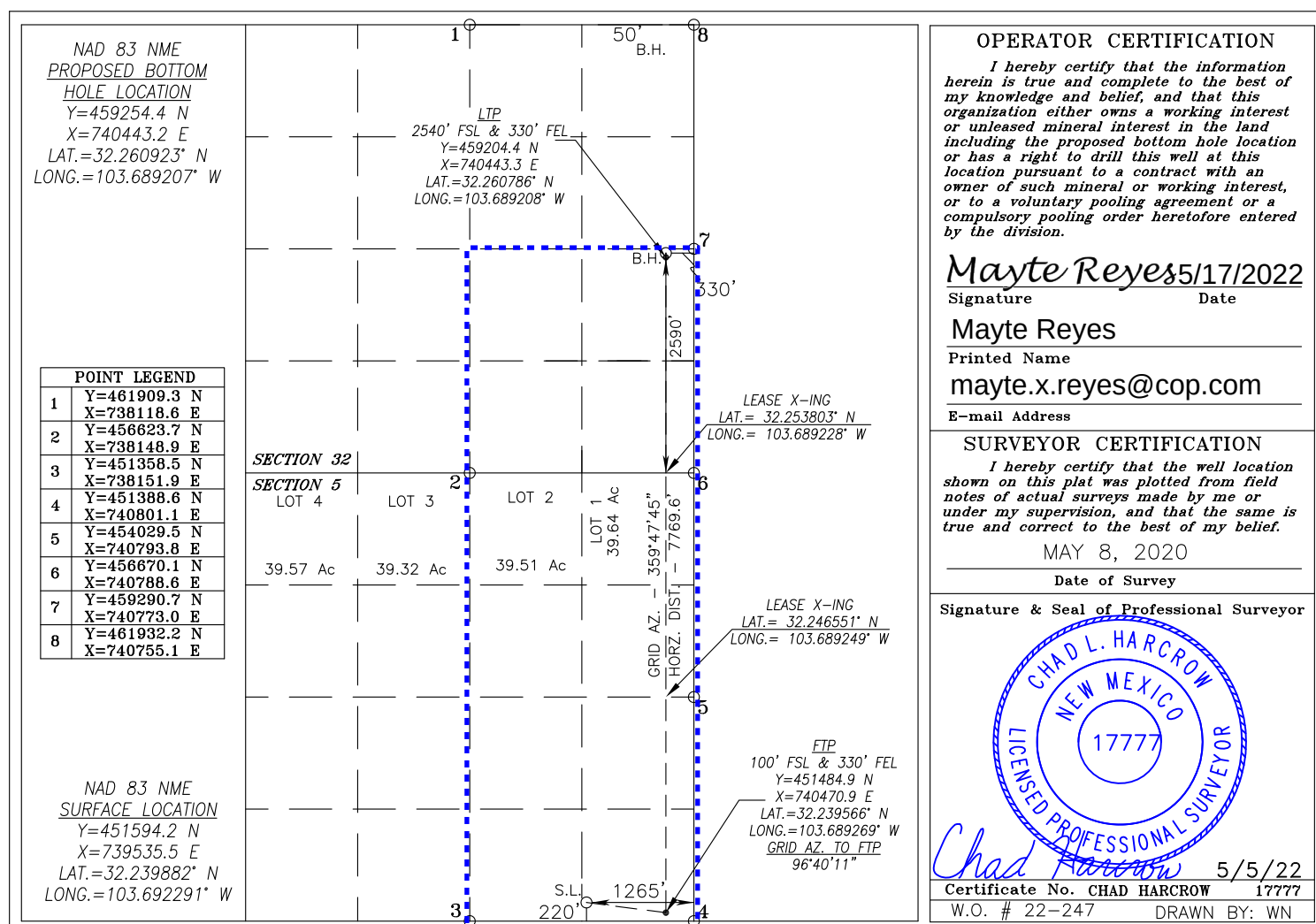
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	5	24-S	32-E		220	SOUTH	1265	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	23-S	32-E		2590	SOUTH	330	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
479.13			

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



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #501H

300254842800

OWB

Plan: PWP0

Standard Planning Report

24 May, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	BULLDOG PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)		
Site Position:		Northing:	451,256.78 usft
From:	Map	Easting:	694,311.87 usft
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 20.613 N
		Longitude:	103° 42' 17.566 W
		Grid Convergence:	0.34 °

Well	GIN AND TECTONIC FEDERAL COM #501H		
Well Position	+N/-S	278.4 usft	Northing:
	+E/-W	4,039.7 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 14' 23.132 N
		Longitude:	103° 41' 30.514 W
		Ground Level:	3,642.9 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2022	5/1/2022	6.53
			Dip Angle (°)
			59.88
			Field Strength (nT)
			47,612.67316444

Design	PWP0		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			6.76

Plan Survey Tool Program		Date	5/24/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1	
2	2,000.0	10,118.9 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	
3	10,118.9	18,160.8 PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	2.00	2.00	0.00	96.67	
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	0.00	0.00	0.00	0.00	
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.00	-1.00	0.00	180.00	
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	0.00	0.00	0.00	0.00	
10,868.9	90.00	359.80	10,525.0	368.2	933.6	12.00	12.00	-0.03	359.80	
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	0.00	0.00	0.00	0.00	LTP (GIN AND TECTONIC)
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	0.00	0.00	0.00	0.00	PBHL (GIN AND TECTONIC)

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
2,100.0	2.00	96.67	2,100.0	-0.2	1.7	0.0	2.00	2.00	0.00
2,200.0	4.00	96.67	2,199.8	-0.8	6.9	0.0	2.00	2.00	0.00
2,300.0	6.00	96.67	2,299.5	-1.8	15.6	0.0	2.00	2.00	0.00
2,400.0	8.00	96.67	2,398.7	-3.2	27.7	0.0	2.00	2.00	0.00
2,450.2	9.00	96.67	2,448.3	-4.1	35.1	0.1	2.00	2.00	0.00
Start 5340.9 hold at 2450.2 MD									
2,500.0	9.00	96.67	2,497.5	-5.0	42.8	0.1	0.00	0.00	0.00
2,600.0	9.00	96.67	2,596.3	-6.8	58.3	0.1	0.00	0.00	0.00
2,700.0	9.00	96.67	2,695.1	-8.6	73.9	0.1	0.00	0.00	0.00
2,800.0	9.00	96.67	2,793.8	-10.5	89.4	0.1	0.00	0.00	0.00
2,900.0	9.00	96.67	2,892.6	-12.3	105.0	0.2	0.00	0.00	0.00
3,000.0	9.00	96.67	2,991.4	-14.1	120.5	0.2	0.00	0.00	0.00
3,100.0	9.00	96.67	3,090.1	-15.9	136.1	0.2	0.00	0.00	0.00
3,200.0	9.00	96.67	3,188.9	-17.7	151.6	0.3	0.00	0.00	0.00
3,300.0	9.00	96.67	3,287.7	-19.5	167.1	0.3	0.00	0.00	0.00
3,400.0	9.00	96.67	3,386.4	-21.3	182.7	0.3	0.00	0.00	0.00
3,500.0	9.00	96.67	3,485.2	-23.2	198.2	0.3	0.00	0.00	0.00
3,600.0	9.00	96.67	3,584.0	-25.0	213.8	0.4	0.00	0.00	0.00
3,700.0	9.00	96.67	3,682.8	-26.8	229.3	0.4	0.00	0.00	0.00
3,800.0	9.00	96.67	3,781.5	-28.6	244.9	0.4	0.00	0.00	0.00
3,900.0	9.00	96.67	3,880.3	-30.4	260.4	0.4	0.00	0.00	0.00
4,000.0	9.00	96.67	3,979.1	-32.2	275.9	0.5	0.00	0.00	0.00
4,100.0	9.00	96.67	4,077.8	-34.1	291.5	0.5	0.00	0.00	0.00
4,200.0	9.00	96.67	4,176.6	-35.9	307.0	0.5	0.00	0.00	0.00
4,300.0	9.00	96.67	4,275.4	-37.7	322.6	0.5	0.00	0.00	0.00
4,400.0	9.00	96.67	4,374.1	-39.5	338.1	0.6	0.00	0.00	0.00
4,500.0	9.00	96.67	4,472.9	-41.3	353.7	0.6	0.00	0.00	0.00
4,600.0	9.00	96.67	4,571.7	-43.1	369.2	0.6	0.00	0.00	0.00
4,700.0	9.00	96.67	4,670.4	-45.0	384.7	0.6	0.00	0.00	0.00
4,800.0	9.00	96.67	4,769.2	-46.8	400.3	0.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	9.00	96.67	4,868.0	-48.6	415.8	0.7	0.00	0.00	0.00
5,000.0	9.00	96.67	4,966.7	-50.4	431.4	0.7	0.00	0.00	0.00
5,100.0	9.00	96.67	5,065.5	-52.2	446.9	0.7	0.00	0.00	0.00
5,200.0	9.00	96.67	5,164.3	-54.0	462.5	0.8	0.00	0.00	0.00
5,300.0	9.00	96.67	5,263.0	-55.9	478.0	0.8	0.00	0.00	0.00
5,400.0	9.00	96.67	5,361.8	-57.7	493.5	0.8	0.00	0.00	0.00
5,500.0	9.00	96.67	5,460.6	-59.5	509.1	0.8	0.00	0.00	0.00
5,600.0	9.00	96.67	5,559.3	-61.3	524.6	0.9	0.00	0.00	0.00
5,700.0	9.00	96.67	5,658.1	-63.1	540.2	0.9	0.00	0.00	0.00
5,800.0	9.00	96.67	5,756.9	-64.9	555.7	0.9	0.00	0.00	0.00
5,900.0	9.00	96.67	5,855.6	-66.8	571.3	0.9	0.00	0.00	0.00
6,000.0	9.00	96.67	5,954.4	-68.6	586.8	1.0	0.00	0.00	0.00
6,100.0	9.00	96.67	6,053.2	-70.4	602.4	1.0	0.00	0.00	0.00
6,200.0	9.00	96.67	6,152.0	-72.2	617.9	1.0	0.00	0.00	0.00
6,300.0	9.00	96.67	6,250.7	-74.0	633.4	1.0	0.00	0.00	0.00
6,400.0	9.00	96.67	6,349.5	-75.8	649.0	1.1	0.00	0.00	0.00
6,500.0	9.00	96.67	6,448.3	-77.7	664.5	1.1	0.00	0.00	0.00
6,600.0	9.00	96.67	6,547.0	-79.5	680.1	1.1	0.00	0.00	0.00
6,700.0	9.00	96.67	6,645.8	-81.3	695.6	1.1	0.00	0.00	0.00
6,800.0	9.00	96.67	6,744.6	-83.1	711.2	1.2	0.00	0.00	0.00
6,900.0	9.00	96.67	6,843.3	-84.9	726.7	1.2	0.00	0.00	0.00
7,000.0	9.00	96.67	6,942.1	-86.7	742.2	1.2	0.00	0.00	0.00
7,100.0	9.00	96.67	7,040.9	-88.6	757.8	1.3	0.00	0.00	0.00
7,200.0	9.00	96.67	7,139.6	-90.4	773.3	1.3	0.00	0.00	0.00
7,300.0	9.00	96.67	7,238.4	-92.2	788.9	1.3	0.00	0.00	0.00
7,400.0	9.00	96.67	7,337.2	-94.0	804.4	1.3	0.00	0.00	0.00
7,500.0	9.00	96.67	7,435.9	-95.8	820.0	1.4	0.00	0.00	0.00
7,600.0	9.00	96.67	7,534.7	-97.6	835.5	1.4	0.00	0.00	0.00
7,700.0	9.00	96.67	7,633.5	-99.5	851.0	1.4	0.00	0.00	0.00
7,791.0	9.00	96.67	7,723.4	-101.1	865.2	1.4	0.00	0.00	0.00
Start Drop -1.00									
7,800.0	8.91	96.67	7,732.2	-101.3	866.6	1.4	1.00	-1.00	0.00
7,900.0	7.91	96.67	7,831.2	-103.0	881.1	1.5	1.00	-1.00	0.00
8,000.0	6.91	96.67	7,930.3	-104.5	893.9	1.5	1.00	-1.00	0.00
8,100.0	5.91	96.67	8,029.7	-105.8	905.0	1.5	1.00	-1.00	0.00
8,200.0	4.91	96.67	8,129.3	-106.9	914.4	1.5	1.00	-1.00	0.00
8,300.0	3.91	96.67	8,229.0	-107.7	922.0	1.5	1.00	-1.00	0.00
8,400.0	2.91	96.67	8,328.8	-108.4	927.9	1.5	1.00	-1.00	0.00
8,500.0	1.91	96.67	8,428.7	-108.9	932.1	1.5	1.00	-1.00	0.00
8,600.0	0.91	96.67	8,528.7	-109.2	934.6	1.5	1.00	-1.00	0.00
8,691.4	0.00	0.00	8,620.0	-109.3	935.3	1.5	1.00	-1.00	0.00
Start 1427.5 hold at 8691.4 MD									
8,700.0	0.00	0.00	8,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,128.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,228.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,328.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,428.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,528.6	-109.3	935.3	1.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.0	0.00	0.00	9,628.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,728.6	-109.3	935.3	1.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,828.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,928.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,028.6	-109.3	935.3	1.5	0.00	0.00	0.00
10,118.9	0.00	0.00	10,047.5	-109.3	935.3	1.5	0.00	0.00	0.00
Start DLS 12.00 TFO 359.80									
10,125.0	0.73	359.80	10,053.6	-109.3	935.3	1.6	12.00	12.00	0.00
10,150.0	3.73	359.80	10,078.6	-108.3	935.3	2.6	12.00	12.00	0.00
10,175.0	6.73	359.80	10,103.5	-106.0	935.3	4.8	12.00	12.00	0.00
10,200.0	9.73	359.80	10,128.3	-102.4	935.3	8.4	12.00	12.00	0.00
10,225.0	12.73	359.80	10,152.8	-97.6	935.3	13.2	12.00	12.00	0.00
10,250.0	15.73	359.80	10,177.0	-91.4	935.2	19.3	12.00	12.00	0.00
10,275.0	18.73	359.80	10,200.9	-84.0	935.2	26.7	12.00	12.00	0.00
10,300.0	21.73	359.80	10,224.3	-75.4	935.2	35.2	12.00	12.00	0.00
10,325.0	24.73	359.80	10,247.3	-65.5	935.1	45.0	12.00	12.00	0.00
10,350.0	27.73	359.80	10,269.7	-54.4	935.1	56.0	12.00	12.00	0.00
10,375.0	30.73	359.80	10,291.5	-42.2	935.1	68.1	12.00	12.00	0.00
10,400.0	33.73	359.80	10,312.7	-28.9	935.0	81.3	12.00	12.00	0.00
10,425.0	36.73	359.80	10,333.1	-14.5	935.0	95.7	12.00	12.00	0.00
10,450.0	39.73	359.80	10,352.7	1.0	934.9	111.0	12.00	12.00	0.00
10,475.0	42.73	359.80	10,371.5	17.5	934.9	127.4	12.00	12.00	0.00
10,500.0	45.73	359.80	10,389.4	34.9	934.8	144.7	12.00	12.00	0.00
10,525.0	48.73	359.80	10,406.4	53.2	934.7	162.9	12.00	12.00	0.00
10,550.0	51.73	359.80	10,422.4	72.5	934.7	182.0	12.00	12.00	0.00
10,575.0	54.73	359.80	10,437.4	92.5	934.6	201.8	12.00	12.00	0.00
10,600.0	57.73	359.80	10,451.3	113.3	934.5	222.5	12.00	12.00	0.00
10,625.0	60.73	359.80	10,464.1	134.7	934.4	243.8	12.00	12.00	0.00
10,650.0	63.73	359.80	10,475.7	156.9	934.4	265.7	12.00	12.00	0.00
10,675.0	66.73	359.80	10,486.2	179.6	934.3	288.3	12.00	12.00	0.00
10,700.0	69.73	359.80	10,495.4	202.8	934.2	311.3	12.00	12.00	0.00
10,725.0	72.73	359.80	10,503.5	226.4	934.1	334.8	12.00	12.00	0.00
10,750.0	75.73	359.80	10,510.3	250.5	934.0	358.7	12.00	12.00	0.00
10,775.0	78.73	359.80	10,515.8	274.9	933.9	382.9	12.00	12.00	0.00
10,800.0	81.73	359.80	10,520.0	299.5	933.9	407.3	12.00	12.00	0.00
10,825.0	84.73	359.80	10,523.0	324.3	933.8	432.0	12.00	12.00	0.00
10,850.0	87.73	359.80	10,524.6	349.3	933.7	456.7	12.00	12.00	0.00
10,868.9	90.00	359.80	10,525.0	368.2	933.6	475.5	12.00	12.00	0.00
Start 7241.9 hold at 10868.9 MD									
10,900.0	90.00	359.80	10,525.0	399.3	933.5	506.4	0.00	0.00	0.00
11,000.0	90.00	359.80	10,525.0	499.3	933.2	605.6	0.00	0.00	0.00
11,100.0	90.00	359.80	10,525.0	599.3	932.8	704.9	0.00	0.00	0.00
11,200.0	90.00	359.80	10,525.0	699.3	932.5	804.2	0.00	0.00	0.00
11,300.0	90.00	359.80	10,525.0	799.3	932.1	903.4	0.00	0.00	0.00
11,400.0	90.00	359.80	10,525.0	899.3	931.7	1,002.7	0.00	0.00	0.00
11,500.0	90.00	359.80	10,525.0	999.3	931.4	1,102.0	0.00	0.00	0.00
11,600.0	90.00	359.80	10,525.0	1,099.3	931.0	1,201.2	0.00	0.00	0.00
11,700.0	90.00	359.80	10,525.0	1,199.3	930.7	1,300.5	0.00	0.00	0.00
11,800.0	90.00	359.80	10,525.0	1,299.3	930.3	1,399.7	0.00	0.00	0.00
11,900.0	90.00	359.80	10,525.0	1,399.3	930.0	1,499.0	0.00	0.00	0.00
12,000.0	90.00	359.80	10,525.0	1,499.3	929.6	1,598.3	0.00	0.00	0.00
12,100.0	90.00	359.80	10,525.0	1,599.3	929.3	1,697.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,200.0	90.00	359.80	10,525.0	1,699.3	928.9	1,796.8	0.00	0.00	0.00
12,300.0	90.00	359.80	10,525.0	1,799.3	928.6	1,896.1	0.00	0.00	0.00
12,400.0	90.00	359.80	10,525.0	1,899.3	928.2	1,995.3	0.00	0.00	0.00
12,500.0	90.00	359.80	10,525.0	1,999.3	927.9	2,094.6	0.00	0.00	0.00
12,600.0	90.00	359.80	10,525.0	2,099.3	927.5	2,193.8	0.00	0.00	0.00
12,700.0	90.00	359.80	10,525.0	2,199.3	927.2	2,293.1	0.00	0.00	0.00
12,800.0	90.00	359.80	10,525.0	2,299.3	926.8	2,392.4	0.00	0.00	0.00
12,900.0	90.00	359.80	10,525.0	2,399.3	926.5	2,491.6	0.00	0.00	0.00
13,000.0	90.00	359.80	10,525.0	2,499.3	926.1	2,590.9	0.00	0.00	0.00
13,100.0	90.00	359.80	10,525.0	2,599.3	925.8	2,690.2	0.00	0.00	0.00
13,200.0	90.00	359.80	10,525.0	2,699.3	925.4	2,789.4	0.00	0.00	0.00
13,300.0	90.00	359.80	10,525.0	2,799.3	925.1	2,888.7	0.00	0.00	0.00
13,400.0	90.00	359.80	10,525.0	2,899.3	924.7	2,987.9	0.00	0.00	0.00
13,500.0	90.00	359.80	10,525.0	2,999.3	924.3	3,087.2	0.00	0.00	0.00
13,600.0	90.00	359.80	10,525.0	3,099.3	924.0	3,186.5	0.00	0.00	0.00
13,700.0	90.00	359.80	10,525.0	3,199.3	923.6	3,285.7	0.00	0.00	0.00
13,800.0	90.00	359.80	10,525.0	3,299.3	923.3	3,385.0	0.00	0.00	0.00
13,900.0	90.00	359.80	10,525.0	3,399.3	922.9	3,484.3	0.00	0.00	0.00
14,000.0	90.00	359.80	10,525.0	3,499.3	922.6	3,583.5	0.00	0.00	0.00
14,100.0	90.00	359.80	10,525.0	3,599.3	922.2	3,682.8	0.00	0.00	0.00
14,200.0	90.00	359.80	10,525.0	3,699.3	921.9	3,782.0	0.00	0.00	0.00
14,300.0	90.00	359.80	10,525.0	3,799.3	921.5	3,881.3	0.00	0.00	0.00
14,400.0	90.00	359.80	10,525.0	3,899.3	921.2	3,980.6	0.00	0.00	0.00
14,500.0	90.00	359.80	10,525.0	3,999.3	920.8	4,079.8	0.00	0.00	0.00
14,600.0	90.00	359.80	10,525.0	4,099.3	920.5	4,179.1	0.00	0.00	0.00
14,700.0	90.00	359.80	10,525.0	4,199.3	920.1	4,278.4	0.00	0.00	0.00
14,800.0	90.00	359.80	10,525.0	4,299.3	919.8	4,377.6	0.00	0.00	0.00
14,900.0	90.00	359.80	10,525.0	4,399.3	919.4	4,476.9	0.00	0.00	0.00
15,000.0	90.00	359.80	10,525.0	4,499.3	919.1	4,576.2	0.00	0.00	0.00
15,100.0	90.00	359.80	10,525.0	4,599.3	918.7	4,675.4	0.00	0.00	0.00
15,200.0	90.00	359.80	10,525.0	4,699.2	918.4	4,774.7	0.00	0.00	0.00
15,300.0	90.00	359.80	10,525.0	4,799.2	918.0	4,873.9	0.00	0.00	0.00
15,400.0	90.00	359.80	10,525.0	4,899.2	917.7	4,973.2	0.00	0.00	0.00
15,500.0	90.00	359.80	10,525.0	4,999.2	917.3	5,072.5	0.00	0.00	0.00
15,600.0	90.00	359.80	10,525.0	5,099.2	916.9	5,171.7	0.00	0.00	0.00
15,700.0	90.00	359.80	10,525.0	5,199.2	916.6	5,271.0	0.00	0.00	0.00
15,800.0	90.00	359.80	10,525.0	5,299.2	916.2	5,370.3	0.00	0.00	0.00
15,900.0	90.00	359.80	10,525.0	5,399.2	915.9	5,469.5	0.00	0.00	0.00
16,000.0	90.00	359.80	10,525.0	5,499.2	915.5	5,568.8	0.00	0.00	0.00
16,100.0	90.00	359.80	10,525.0	5,599.2	915.2	5,668.0	0.00	0.00	0.00
16,200.0	90.00	359.80	10,525.0	5,699.2	914.8	5,767.3	0.00	0.00	0.00
16,300.0	90.00	359.80	10,525.0	5,799.2	914.5	5,866.6	0.00	0.00	0.00
16,400.0	90.00	359.80	10,525.0	5,899.2	914.1	5,965.8	0.00	0.00	0.00
16,500.0	90.00	359.80	10,525.0	5,999.2	913.8	6,065.1	0.00	0.00	0.00
16,600.0	90.00	359.80	10,525.0	6,099.2	913.4	6,164.4	0.00	0.00	0.00
16,700.0	90.00	359.80	10,525.0	6,199.2	913.1	6,263.6	0.00	0.00	0.00
16,800.0	90.00	359.80	10,525.0	6,299.2	912.7	6,362.9	0.00	0.00	0.00
16,900.0	90.00	359.80	10,525.0	6,399.2	912.4	6,462.1	0.00	0.00	0.00
17,000.0	90.00	359.80	10,525.0	6,499.2	912.0	6,561.4	0.00	0.00	0.00
17,100.0	90.00	359.80	10,525.0	6,599.2	911.7	6,660.7	0.00	0.00	0.00
17,200.0	90.00	359.80	10,525.0	6,699.2	911.3	6,759.9	0.00	0.00	0.00
17,300.0	90.00	359.80	10,525.0	6,799.2	911.0	6,859.2	0.00	0.00	0.00

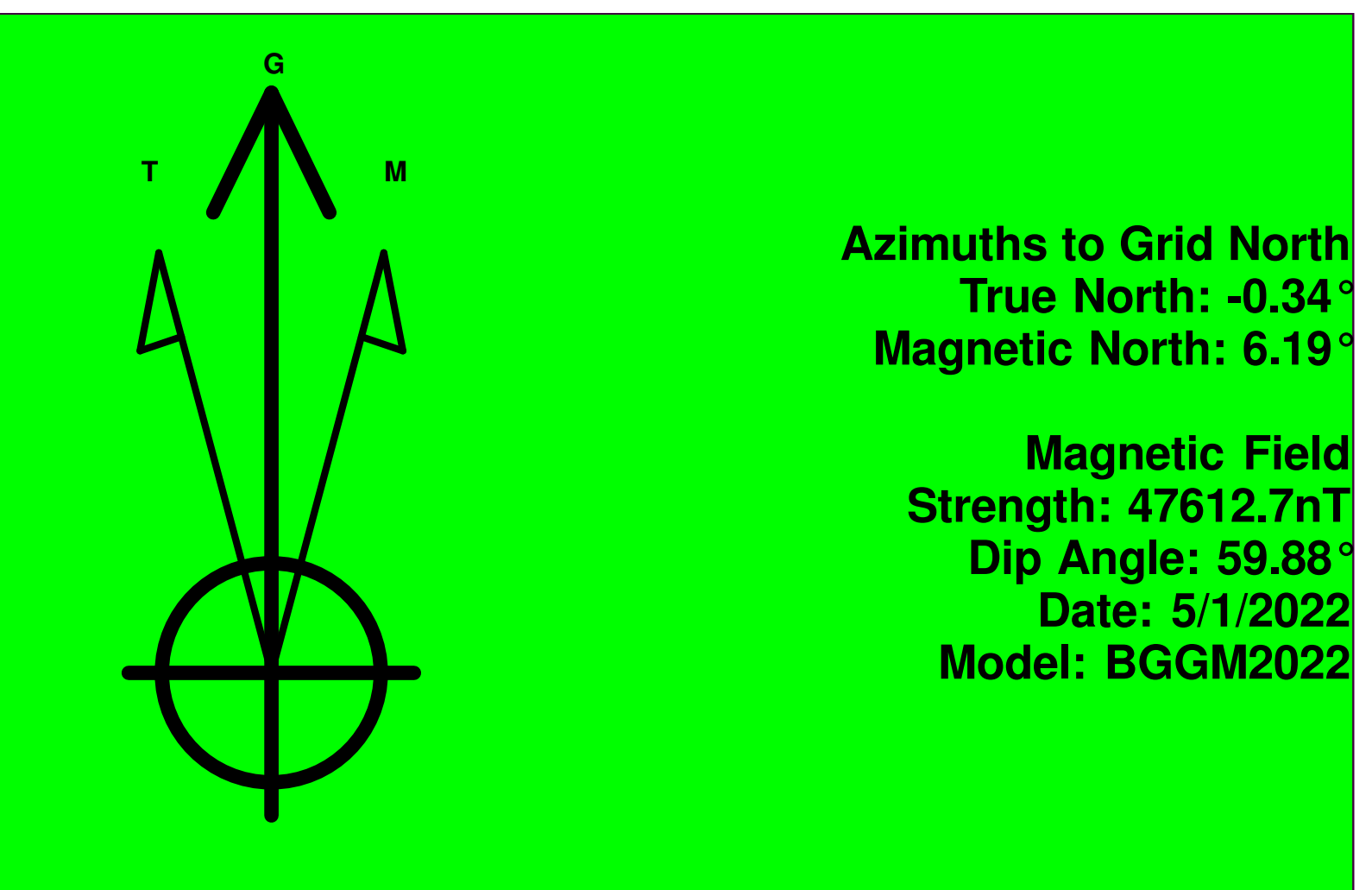
ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #501H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=30' @ 3672.9usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=30' @ 3672.9usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,400.0	90.00	359.80	10,525.0	6,899.2	910.6	6,958.5	0.00	0.00	0.00
17,500.0	90.00	359.80	10,525.0	6,999.2	910.3	7,057.7	0.00	0.00	0.00
17,600.0	90.00	359.80	10,525.0	7,099.2	909.9	7,157.0	0.00	0.00	0.00
17,700.0	90.00	359.80	10,525.0	7,199.2	909.5	7,256.2	0.00	0.00	0.00
17,800.0	90.00	359.80	10,525.0	7,299.2	909.2	7,355.5	0.00	0.00	0.00
17,900.0	90.00	359.80	10,525.0	7,399.2	908.8	7,454.8	0.00	0.00	0.00
18,000.0	90.00	359.80	10,525.0	7,499.2	908.5	7,554.0	0.00	0.00	0.00
18,100.0	90.00	359.80	10,525.0	7,599.2	908.1	7,653.3	0.00	0.00	0.00
18,110.8	90.00	359.80	10,525.0	7,610.0	908.1	7,664.0	0.00	0.00	0.00
Start 50.0 hold at 18110.8 MD									
18,160.8	90.00	359.80	10,525.0	7,660.0	907.9	7,713.6	0.00	0.00	0.00
TD at 18160.8									

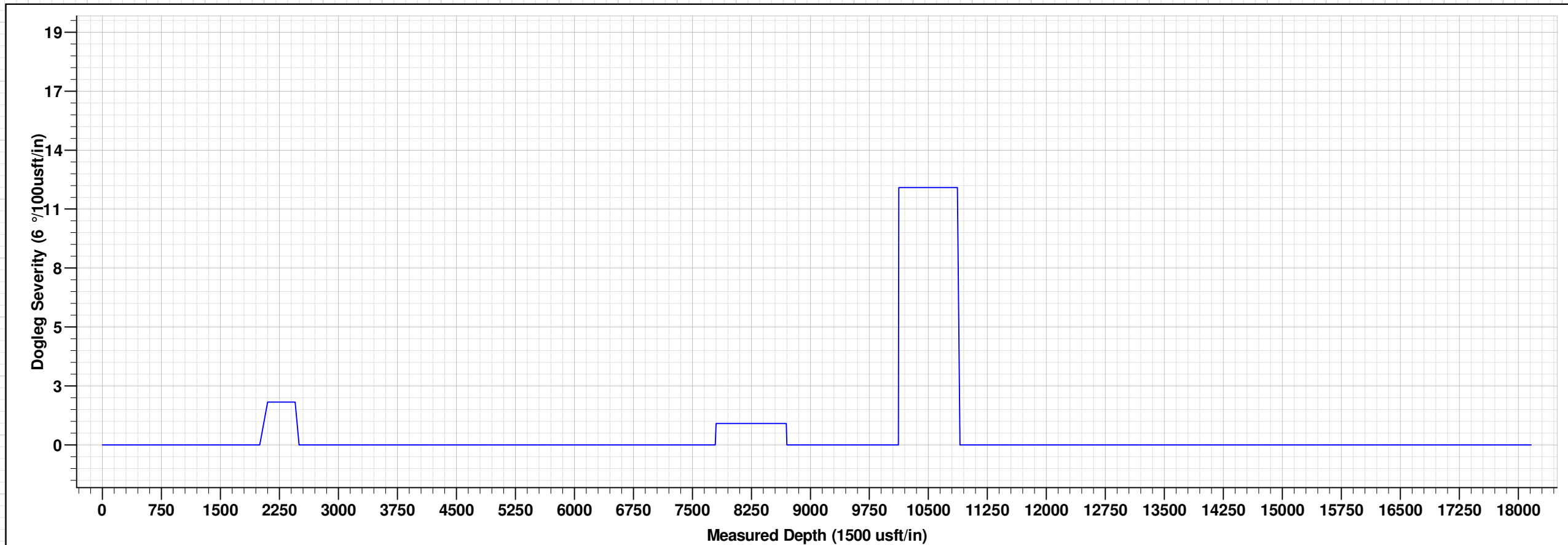
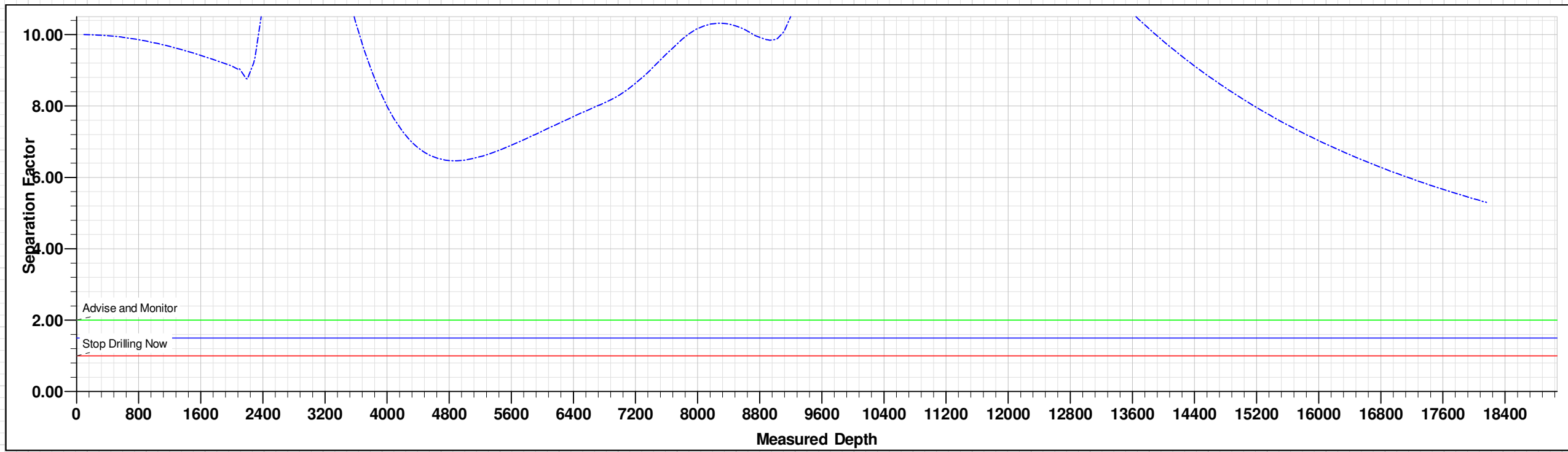
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (GIN AND TECTC - plan hits target center - Rectangle (sides W100.0 H7,875.0 D20.0)	0.00	179.80	10,525.0	7,660.0	907.9	459,195.20	699,259.50	32° 15' 38.879 N	103° 41' 19.408 W
LTP (GIN AND TECTON - plan hits target center - Point	0.00	0.00	10,525.0	7,610.0	908.1	459,145.20	699,259.70	32° 15' 38.384 N	103° 41' 19.409 W
FTP (GIN AND TECTON - plan misses target center by 197.8usft at 10496.5usft MD (10387.0 TVD, 32.4 N, 934.8 E) - Circle (radius 50.0)	0.00	0.00	10,525.0	-109.3	935.3	451,425.90	699,286.90	32° 14' 21.995 N	103° 41' 19.632 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,450.2	2,448.3	-4.1	35.1	Start 5340.9 hold at 2450.2 MD
7,791.0	7,723.4	-101.1	865.2	Start Drop -1.00
8,691.4	8,620.0	-109.3	935.3	Start 1427.5 hold at 8691.4 MD
10,118.9	10,047.5	-109.3	935.3	Start DLS 12.00 TFO 359.80
10,868.9	10,525.0	368.2	933.6	Start 7241.9 hold at 10868.9 MD
18,110.8	10,525.0	7,610.0	908.1	Start 50.0 hold at 18110.8 MD
18,160.8	10,525.0	7,660.0	907.9	TD at 18160.8

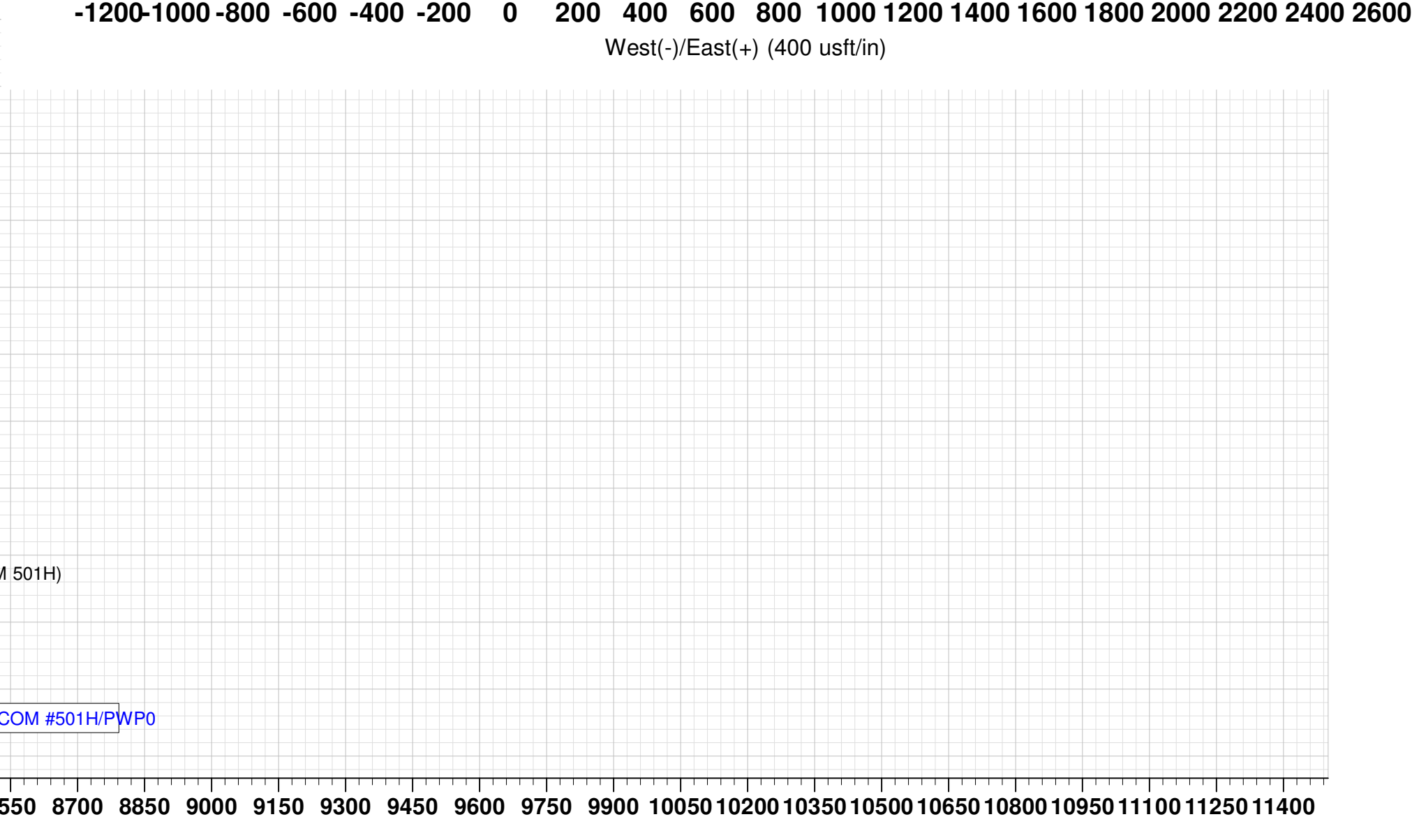
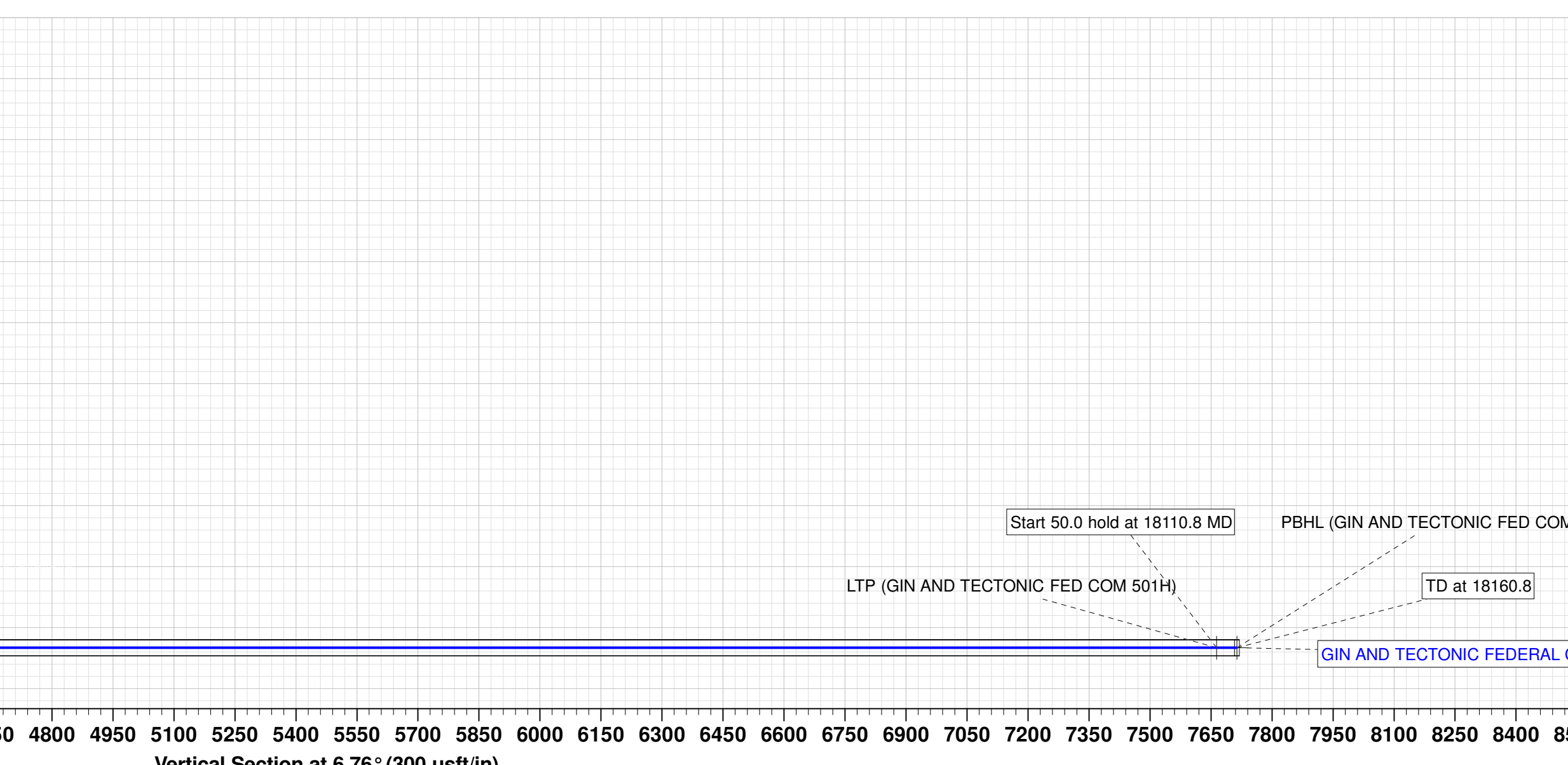
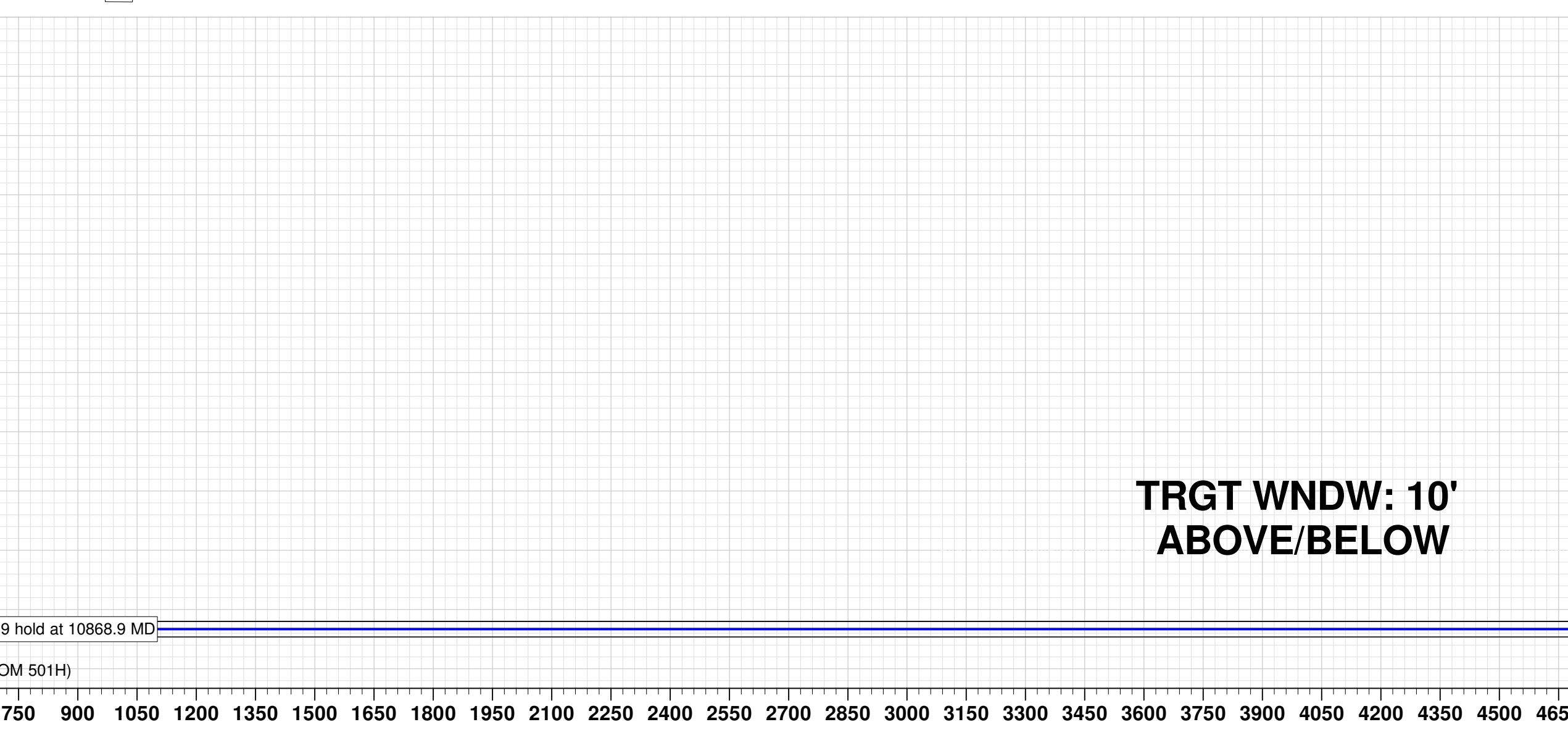
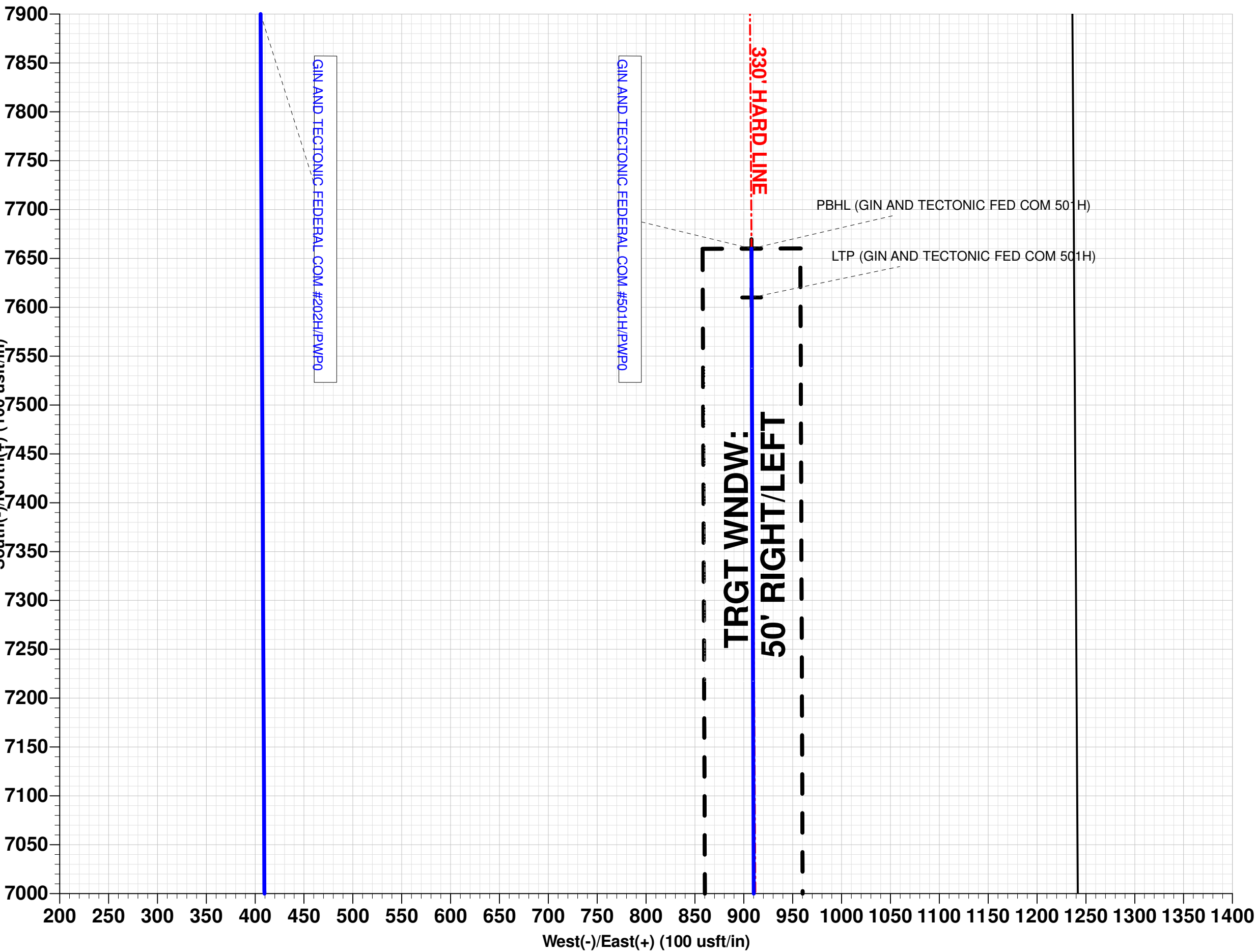
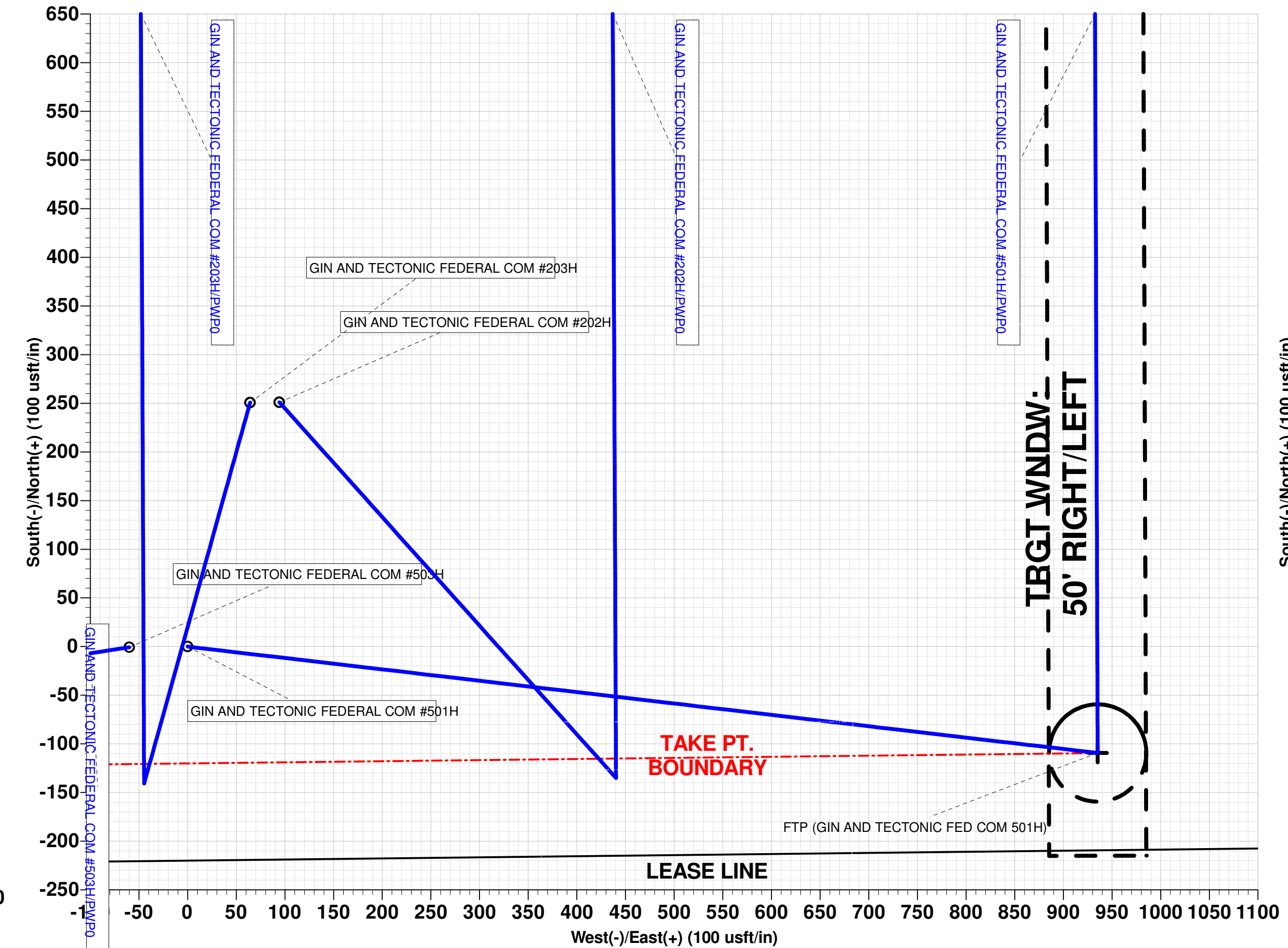
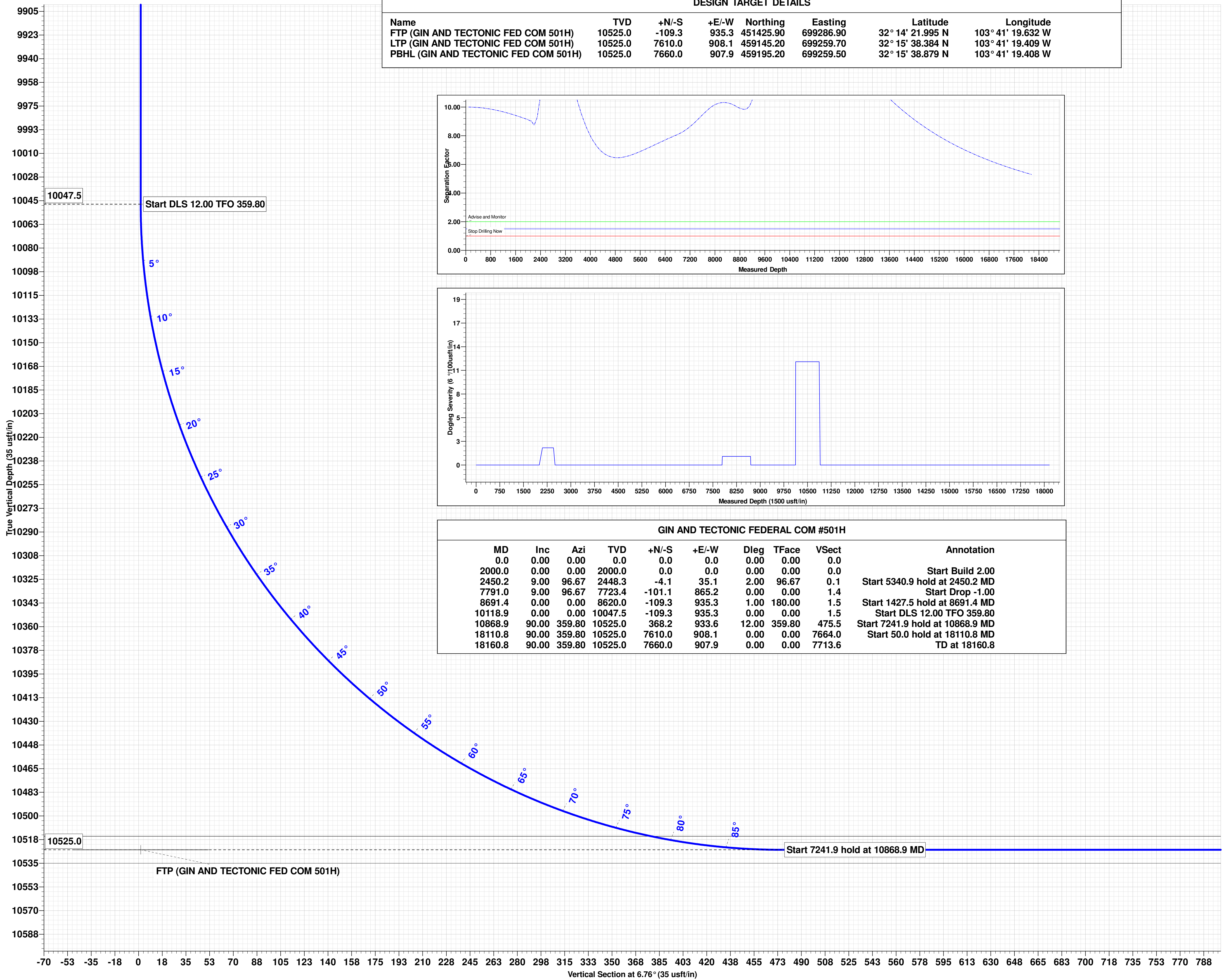
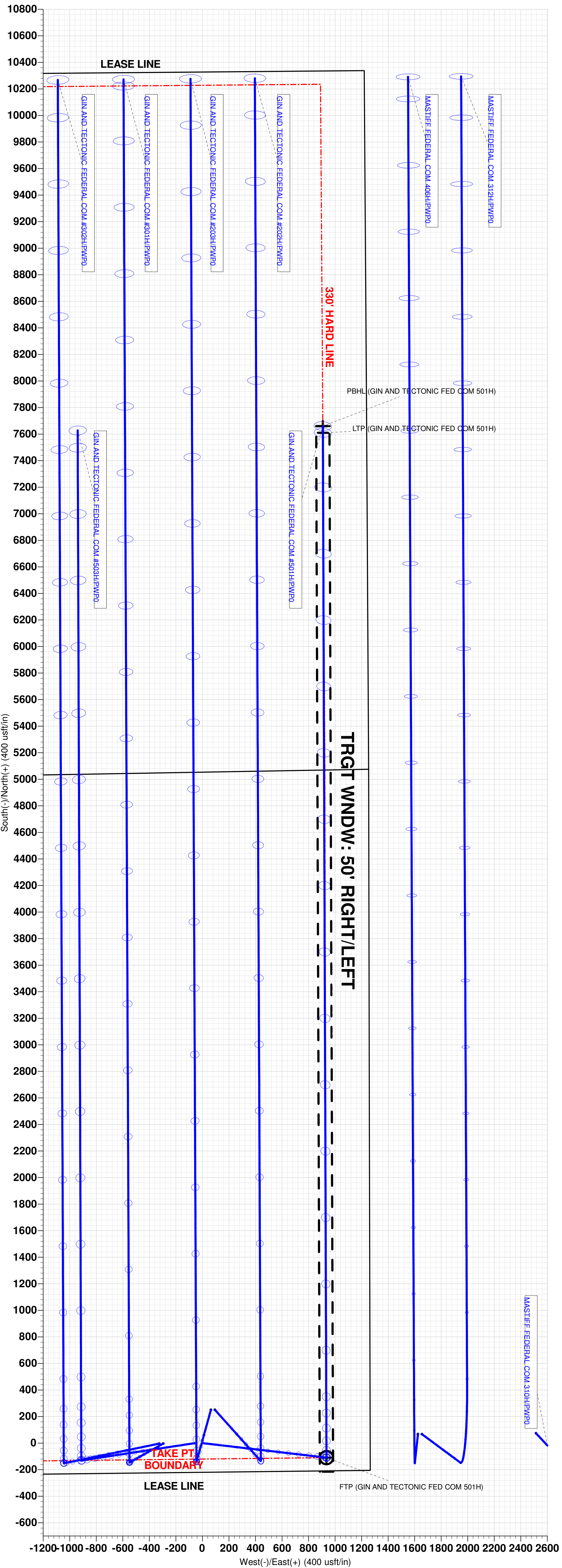


WELL DETAILS: GIN AND TECTONIC FEDERAL COM #501H				
+N-S	+E-W	Northing	Easting	Latitude
0.0	0.0	451535.20	698351.60	32° 14' 23.132 N
				103° 41' 30.514 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude
FTP (GIN AND TECTONIC FED COM 501H)	10525.0	-109.3	935.3	451425.90	699286.90	32° 14' 21.995 N
LTP (GIN AND TECTONIC FED COM 501H)	10525.0	7610.0	908.1	459145.20	699259.70	32° 15' 38.384 N
PBHL (GIN AND TECTONIC FED COM 501H)	10525.0	7660.0	907.9	459195.20	699259.50	32° 15' 38.879 N



GIN AND TECTONIC FEDERAL COM #501H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	Start Build 2.00
2450.2	9.00	96.67	2448.3	-4.1	35.1	2.00	96.67	0.1	Start 5340.9 hold at 2450.2 MD
7791.0	9.00	96.67	7723.4	-101.1	865.2	0.00	0.00	1.4	Start Drop -1.00
8691.4	0.00	0.00	8620.0	-109.3	935.3	1.00	180.00	1.5	Start 1427.5 hold at 8691.4 MD
10118.9	0.00	0.00	10047.5	-109.3	935.3	0.00	0.00	1.5	Start DLS 12.00 TFO 359.80
10868.9	90.00	359.80	10525.0	368.2	933.6	12.00	359.80	475.5	Start 7241.9 hold at 10868.9 MD
18110.8	90.00	359.80	10525.0	7610.0	908.1	0.00	0.00	7664.0	Start 50.0 hold at 18110.8 MD
18160.8	90.00	359.80	10525.0	7660.0	907.9	0.00	0.00	7713.6	TD at 18160.8



TRGT WNDW: 10' ABOVE/BELOW

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

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

Section 1 – Plan Description**Effective May 25, 2021****I. Operator:** COG Operating LLC **OGRID:** 229137 **Date:** 5 / 17 / 2022**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Gin and Tectonic Federal Com 501H	30-025-	P-5-24S-32E	220 FSL & 1265 FEL	± 1761	± 4968	± 1782

IV. Central Delivery Point Name: _____ [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Gin and Tectonic Federal Com 501H	Pending	7/14/2022	± 25 days from spud	8/17/2023	8/27/2023	9/1/2023

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

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

Signature: <i>Mayte Reyes</i>
Printed Name: Mayte Reyes
Title: Sr. Regulatory Coordinator
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Date: 5/17/2022
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Approved By:
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CONDITIONS

Action 326835

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 326835
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/2/2024