

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692388	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842900S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2690742

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 09/06/2022	Time Sundry Submitted: 09:34
Date proposed operation will begin: 09/06/2022	

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 1254' FEL Section 32. T23S. R32E. To: 2590' FSL & 1254' FEL Section 32.T23S. R32E Dedicated Acres From: 639.13 To: 479.13 MD: 18,282' Attached: C102. Directional Plan. AC Report.

NOI Attachments

Procedure Description

- GIN_AND_TECTONIC_FED_COM_502H_AC_RPT_20220906093311.pdf
- GIN_AND_TECTONIC_FED_COM_502H_Updated_Direct_Plan_20220906093258.pdf
- GIN_AND_TECTONIC_FED_COM_502H_C102_Nad83_20220906092947.pdf

Received by OCD: 3/26/2024 2:57:55 PM

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Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692388	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842900S1	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: SEP 06, 2022 09:33 AM
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. 3002548429
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 & 1254' FEL Section 32. T23S. R32E.
To: 2590' FSL & 1254' FEL Section 32.T23S. R32E

Dedicated Acres From: 639.13 To: 479.13

MD: 18,282'

Attached: C102. Directional Plan. AC Report.

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 09/06/2022

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 / 1295 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239882 / LONG: -103.692388 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239553 / LONG: -103.692257 (TVD: 10521 feet, MD: 10580 feet)

PPP: SENE / 2639 FNL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246538 / LONG: -103.692244 (TVD: 10667 feet, MD: 13150 feet)

BHL: NENE / 50 FNL / 1254 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268132 / LONG: -103.692203 (TVD: 10675 feet, MD: 20870 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

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

GIN AND TECTONIC FEDERAL COM #502H

300254842900

OWB

PWP1

Anticollision Report

28 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
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	7/27/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1.0	950.0	GYRO-SURF (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
950.0	10,196.3	PWP1 (OWB)	MWD+IFR1	OWSG MWD + IFR1
10,196.3	18,282.8	PWP1 (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						
DOUBLE ABJ FED COM PROJECT						
MESA VERDE BONE SPRING UNIT #1H - OWB - AWP	9,383.8	19,366.0	486.9	354.4	3.675	CC, ES, SF
MESA VERDE BONE SPRING UNIT #24H - OWB - AWP						Out of range
MESA VERDE WOLFCAMP UNIT #1H - OWB - AWP						Out of range
MESA VERDE WOLFCAMP UNIT #4H - OWB - AWP						Out of range
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	457.5	454.3	294.1	288.1	48.625	CC, ES
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	9,120.0	9,131.2	921.5	866.4	16.720	SF
BIMINI 8 FEDERAL COM #2H - OWB - AWP	6,766.6	6,756.9	581.8	536.2	12.750	CC
BIMINI 8 FEDERAL COM #2H - OWB - AWP	7,505.0	7,491.3	583.8	533.0	11.498	ES
BIMINI 8 FEDERAL COM #2H - OWB - AWP	8,000.0	7,984.8	588.5	534.4	10.868	SF
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	469.1	463.5	279.0	272.9	46.068	CC, ES
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	8,800.0	8,802.7	413.2	361.0	7.907	SF
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	8,932.5	8,936.3	80.2	27.1	1.510	Advise and Monitor, CC, ES,
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	2,000.1	1,993.1	250.8	242.4	29.992	CC, ES
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	8,835.0	8,817.5	581.7	529.1	11.063	SF
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,000.1	1,992.5	280.8	272.4	33.582	CC, ES
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	6,935.0	6,829.4	995.9	955.4	24.604	SF
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	548.3	550.9	29.6	23.5	4.867	CC
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	551.0	553.6	29.6	23.5	4.867	ES
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	939.5	942.0	29.9	23.6	4.759	SF
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	1,995.2	1,997.4	26.5	16.2	2.582	CC
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	2,000.1	2,002.3	26.5	16.2	2.574	ES
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	2,090.0	2,091.4	27.6	16.7	2.531	SF
GIN AND TECTONIC FEDERAL COM #502H - OWB - A	1,294.0	950.0	344.0	341.3	126.114	CC, ES, SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - A	931.4	930.0	25.8	19.5	4.105	CC, ES, SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	1,262.6	1,261.5	24.2	17.4	3.591	CC
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,000.1	1,999.1	24.2	14.0	2.369	ES, SF
GIN AND TECTONIC FEDERAL COM #504H - OWB - P						Out of range
STATE IG #1 - OWB - AWP						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
TRISTE DRAW 5 FEDERAL COM #2H - OWB - AWP						Out of range
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL COM 310H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 312H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 406H - OWB - PWP0						Out of range

ConocoPhillips

Anticollision Report

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Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
DOUBLE ABJ FED COM PROJECT						
MESA VERDE BONE SPRING UNIT #1H - OWB - AWP	18,282.8	19,366.0				Out of Range @TD
MESA VERDE BONE SPRING UNIT #24H - OWB - AWP	18,282.8	20,812.0				Out of Range @TD
MESA VERDE WOLFCAMP UNIT #1H - OWB - AWP	18,282.8	22,281.0				Out of Range @TD
MESA VERDE WOLFCAMP UNIT #4H - OWB - AWP	18,282.8	22,563.0				Out of Range @TD
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	18,282.8	16,948.5				Out of Range @TD
BIMINI 8 FEDERAL COM #2H - OWB - AWP	18,282.8	8,137.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	18,282.8	16,742.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	18,282.8	17,016.5				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #205H - OWB - P	18,282.8	16,782.4				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #206H - OWB - P	18,282.8	17,031.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	18,282.8	16,732.6				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	18,282.8	17,055.6				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	18,282.8	942.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	18,282.8	18,149.3	933.9	800.2	6.984	
GIN AND TECTONIC FEDERAL COM #502H - OWB - A	18,282.8	950.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - A	18,282.8	930.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	18,282.8	18,120.0	937.8	802.2	6.916	
GIN AND TECTONIC FEDERAL COM #504H - OWB - P	18,282.8	18,222.5				Out of Range @TD
STATE IG #1 - OWB - AWP	18,282.8	10,679.4				Out of Range @TD
TRISTE DRAW 5 FEDERAL COM #2H - OWB - AWP	18,282.8	8,272.0				Out of Range @TD
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL COM 310H - OWB - PWP0	18,282.8	17,066.5				Out of Range @TD
MASTIFF FEDERAL COM 312H - OWB - PWP0	18,282.8	17,172.7				Out of Range @TD
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,282.8	18,325.9				Out of Range @TD

Offset Design:	DOUBLE ABJ FED COM PROJECT - MESA VERDE BONE SPRING UNIT #1H - OWB - AWP												Offset Site Error:	0.0 usft
	Survey Program: 27-GYRO-NS, 959-MWD, 7001-GYRO-NS, 7465-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,550.0	8,542.2	19,366.0	9,294.4	27.8	168.9	141.37	-549.9	364.0	965.6	857.4	108.18	8.925		
8,600.0	8,592.2	19,366.0	9,294.4	28.0	168.9	141.37	-549.9	364.0	922.8	813.7	109.08	8.459		
8,645.0	8,637.2	19,366.0	9,294.4	28.2	168.9	141.37	-549.9	364.0	884.8	774.9	109.96	8.047		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: DOUBLE ABJ FED COM PROJECT - MESA VERDE BONE SPRING UNIT #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 27-GYRO-NS, 959-MWD, 7001-GYRO-NS, 7465-MWD											Offset Well Error:	3.0 usft
Rule Assigned:											Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
8,700.0	8,692.2	19,366.0	9,294.4	28.3	168.9	141.37	-549.9	364.0	839.5	728.3	111.16	7.552
8,740.0	8,732.2	19,366.0	9,294.4	28.5	168.9	141.37	-549.9	364.0	807.2	695.1	112.11	7.200
8,800.0	8,792.2	19,366.0	9,294.4	28.7	168.9	141.37	-549.9	364.0	760.2	646.5	113.69	6.687
8,835.0	8,827.2	19,366.0	9,294.4	28.8	168.9	141.37	-549.9	364.0	733.7	619.0	114.70	6.396
8,900.0	8,892.2	19,366.0	9,294.4	29.1	168.9	141.37	-549.9	364.0	686.4	569.7	116.76	5.879
8,930.0	8,922.2	19,366.0	9,294.4	29.2	168.9	141.37	-549.9	364.0	665.6	547.8	117.79	5.651
9,000.0	8,992.2	19,366.0	9,294.4	29.4	168.9	141.37	-549.9	364.0	620.0	499.6	120.36	5.151
9,025.0	9,017.2	19,366.0	9,294.4	29.5	168.9	141.37	-549.9	364.0	604.8	483.5	121.34	4.985
9,100.0	9,092.2	19,366.0	9,294.4	29.8	168.9	141.37	-549.9	364.0	563.6	439.2	124.36	4.532
9,120.0	9,112.2	19,366.0	9,294.4	29.8	168.9	141.37	-549.9	364.0	553.8	428.6	125.17	4.424
9,200.0	9,192.2	19,366.0	9,294.4	30.1	168.9	141.37	-549.9	364.0	520.5	392.2	128.27	4.057
9,215.0	9,207.2	19,366.0	9,294.4	30.2	168.9	141.37	-549.9	364.0	515.3	386.5	128.81	4.001
9,300.0	9,292.2	19,366.0	9,294.4	30.5	168.9	141.37	-549.9	364.0	494.1	362.8	131.29	3.763
9,310.0	9,302.2	19,366.0	9,294.4	30.5	168.9	141.37	-549.9	364.0	492.5	361.0	131.51	3.745
9,383.8	9,376.1	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	486.9	354.4	132.48	3.675 CC, ES, SF
9,400.0	9,392.2	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	487.2	354.6	132.54	3.676
9,405.0	9,397.2	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	487.4	354.8	132.55	3.677
9,500.0	9,492.2	19,366.0	9,294.4	31.2	168.9	141.37	-549.9	364.0	500.6	368.9	131.69	3.801
9,595.0	9,587.2	19,366.0	9,294.4	31.5	168.9	141.37	-549.9	364.0	530.7	401.3	129.38	4.102
9,600.0	9,592.2	19,366.0	9,294.4	31.5	168.9	141.37	-549.9	364.0	532.7	403.5	129.23	4.122
9,690.0	9,682.2	19,366.0	9,294.4	31.8	168.9	141.37	-549.9	364.0	575.2	448.8	126.37	4.552
9,700.0	9,692.2	19,366.0	9,294.4	31.9	168.9	141.37	-549.9	364.0	580.6	454.5	126.04	4.606
9,785.0	9,777.2	19,366.0	9,294.4	32.2	168.9	141.37	-549.9	364.0	630.9	507.6	123.31	5.116
9,800.0	9,792.2	19,366.0	9,294.4	32.2	168.9	141.37	-549.9	364.0	640.5	517.7	122.84	5.214
9,880.0	9,872.2	19,366.0	9,294.4	32.5	168.9	141.37	-549.9	364.0	695.2	574.6	120.55	5.766
9,900.0	9,892.2	19,366.0	9,294.4	32.6	168.9	141.37	-549.9	364.0	709.6	589.6	120.03	5.912
9,975.0	9,967.2	19,366.0	9,294.4	32.8	168.9	141.37	-549.9	364.0	765.9	647.6	118.25	6.477
10,000.0	9,992.2	19,366.0	9,294.4	32.9	168.9	141.37	-549.9	364.0	785.3	667.6	117.72	6.671
10,070.0	10,062.2	19,366.0	9,294.4	33.2	168.9	141.37	-549.9	364.0	841.4	725.0	116.38	7.229
10,100.0	10,092.2	19,366.0	9,294.4	33.3	168.9	141.37	-549.9	364.0	866.0	750.1	115.88	7.473
10,165.0	10,157.2	19,366.0	9,294.4	33.4	168.9	141.37	-549.9	364.0	920.5	805.6	114.90	8.011
10,196.3	10,188.5	19,366.0	9,294.4	33.4	168.9	141.37	-549.9	364.0	947.2	832.7	114.49	8.273
10,200.0	10,192.2	19,366.0	9,294.4	33.4	168.9	142.95	-549.9	364.0	950.4	835.9	114.44	8.305
10,225.0	10,217.2	19,366.0	9,294.4	33.5	168.9	139.55	-549.9	364.0	972.3	858.2	114.09	8.522
10,250.0	10,242.1	19,366.0	9,294.4	33.5	168.9	135.38	-549.9	364.0	994.7	881.0	113.75	8.745

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	31.51	251.7	154.3	295.2					
1.0	1.0	0.0	0.0	3.0	3.0	31.51	251.7	154.3	295.2					
35.7	35.7	32.5	32.5	3.0	3.0	78.48	251.7	154.3	295.2	289.2	6.00	49.204		
95.0	95.0	91.8	91.8	3.0	3.0	78.52	251.7	154.3	295.2	289.2	6.00	49.194		
101.0	101.0	97.8	97.8	3.0	3.0	78.52	251.7	154.3	295.2	289.2	6.00	49.193		
117.2	117.2	114.0	114.0	3.0	3.0	90.00	251.7	154.3	295.2	289.2	6.00	49.188		
126.0	126.0	122.8	122.8	3.0	3.0	94.93	251.7	154.3	295.2	289.2	6.00	49.186		
151.0	151.0	147.8	147.8	3.0	3.0	87.34	251.7	154.3	295.2	289.2	6.00	49.177		
176.0	176.0	172.8	172.8	3.0	3.0	78.07	251.7	154.3	295.2	289.1	6.00	49.161		
190.0	190.0	186.8	186.8	3.0	3.0	70.35	251.7	154.3	295.1	289.1	6.00	49.148		
201.0	201.0	197.8	197.8	3.0	3.0	66.45	251.7	154.3	295.1	289.1	6.01	49.134		
226.0	226.0	222.8	222.8	3.0	3.0	56.60	251.7	154.3	295.0	288.9	6.01	49.094		
251.0	251.0	247.8	247.8	3.0	3.0	51.00	251.7	154.3	294.8	288.8	6.01	49.044		
276.0	276.0	272.8	272.8	3.0	3.0	60.99	251.7	154.3	294.6	288.6	6.01	48.990		
285.0	285.0	281.8	281.8	3.0	3.0	63.70	251.7	154.3	294.6	288.6	6.02	48.971		
301.0	301.0	297.8	297.8	3.0	3.0	67.91	251.7	154.3	294.5	288.5	6.02	48.937		
326.0	326.0	322.8	322.8	3.0	3.0	76.05	251.7	154.3	294.4	288.4	6.02	48.887		
351.0	351.0	347.8	347.8	3.0	3.0	81.90	251.7	154.3	294.3	288.3	6.03	48.840		
376.0	376.0	372.8	372.8	3.0	3.0	83.63	251.7	154.3	294.3	288.3	6.03	48.794		
380.0	380.0	376.8	376.8	3.0	3.0	82.88	251.7	154.3	294.3	288.2	6.03	48.787		
401.0	401.0	397.8	397.8	3.0	3.0	78.81	251.7	154.3	294.2	288.2	6.04	48.744		
426.0	426.0	422.8	422.8	3.0	3.0	83.23	251.7	154.3	294.2	288.1	6.04	48.690		
451.0	451.0	447.8	447.8	3.0	3.0	87.05	251.7	154.3	294.1	288.1	6.05	48.638		
457.5	457.5	454.3	454.3	3.0	3.0	90.00	251.7	154.3	294.1	288.1	6.05	48.625	CC, ES	
475.0	475.0	471.8	471.8	3.0	3.0	97.73	251.7	154.3	294.1	288.1	6.05	48.594		
476.0	476.0	472.8	472.8	3.0	3.0	98.16	251.7	154.3	294.1	288.1	6.05	48.593		
501.0	501.0	497.8	497.8	3.1	3.1	96.60	251.7	154.3	294.2	288.1	6.06	48.551		
526.0	526.0	522.8	522.8	3.1	3.1	100.63	251.7	154.3	294.3	288.2	6.07	48.509		
551.0	551.0	547.8	547.8	3.1	3.1	106.14	251.7	154.3	294.4	288.3	6.07	48.471		
570.0	570.0	566.8	566.8	3.1	3.1	110.95	251.7	154.3	294.5	288.4	6.08	48.446		
576.0	576.0	572.8	572.8	3.1	3.1	112.51	251.7	154.3	294.5	288.4	6.08	48.438		
601.0	601.0	597.8	597.8	3.1	3.1	115.87	251.7	154.3	294.7	288.6	6.09	48.408		
626.0	625.9	622.7	622.7	3.1	3.1	124.26	251.7	154.3	294.9	288.8	6.10	48.380		
651.0	650.9	647.7	647.7	3.1	3.1	120.95	251.7	154.3	295.1	289.0	6.10	48.350		
665.0	664.9	661.7	661.7	3.1	3.1	124.11	251.7	154.3	295.3	289.2	6.11	48.330		
676.0	675.9	672.7	672.7	3.1	3.1	126.46	251.7	154.3	295.4	289.2	6.11	48.316		
701.0	700.9	697.7	697.7	3.1	3.1	132.85	251.7	154.3	295.6	289.5	6.12	48.285		
726.0	725.9	722.7	722.7	3.1	3.1	143.17	251.7	154.3	295.9	289.8	6.13	48.259		
751.0	750.9	747.7	747.7	3.1	3.1	150.61	251.7	154.3	296.3	290.2	6.14	48.237		
760.0	759.9	756.7	756.7	3.1	3.1	148.39	251.7	154.3	296.4	290.3	6.15	48.229		
776.0	775.9	772.7	772.7	3.1	3.1	144.66	251.7	154.3	296.7	290.5	6.15	48.215		
801.0	800.9	797.7	797.7	3.1	3.2	148.72	251.7	154.3	297.1	290.9	6.16	48.192		
826.0	825.9	822.7	822.7	3.1	3.2	157.21	251.7	154.3	297.5	291.4	6.18	48.171		
851.0	850.9	847.7	847.7	3.1	3.2	145.66	251.7	154.3	298.0	291.8	6.19	48.145		
855.0	854.9	851.7	851.7	3.1	3.2	146.92	251.7	154.3	298.0	291.8	6.19	48.140		
876.0	875.9	872.7	872.7	3.2	3.2	153.52	251.7	154.3	298.4	292.2	6.20	48.115		
901.0	900.9	897.7	897.7	3.2	3.2	155.93	251.7	154.3	298.8	292.6	6.22	48.081		
926.0	925.9	922.7	922.7	3.2	3.2	149.32	251.7	154.3	299.2	293.0	6.23	48.033		
950.0	949.9	946.7	946.7	3.2	3.2	143.49	251.7	154.3	299.5	293.3	6.24	47.971		
1,000.0	999.9	996.7	996.7	3.2	3.2	143.56	251.7	154.3	300.0	293.7	6.27	47.849		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
1,045.0	1,044.9	1,041.7	1,041.7	3.2	3.3	143.63	251.7	154.3	300.4	294.1	6.30	47.707	
1,054.0	1,053.9	1,050.7	1,050.7	3.2	3.3	143.64	251.7	154.3	300.5	294.2	6.30	47.678	
1,100.0	1,099.9	1,096.7	1,096.7	3.2	3.3	143.70	251.7	154.3	301.0	294.6	6.34	47.456	
1,140.0	1,139.9	1,136.7	1,136.7	3.3	3.3	143.76	251.7	154.3	301.4	295.0	6.38	47.205	
1,154.0	1,153.9	1,150.7	1,150.7	3.3	3.3	143.78	251.7	154.3	301.5	295.1	6.40	47.113	
1,200.0	1,199.9	1,196.7	1,196.7	3.3	3.4	143.83	251.7	154.3	301.9	295.4	6.46	46.742	
1,235.0	1,234.9	1,231.7	1,231.7	3.3	3.4	143.86	251.7	154.3	302.1	295.6	6.52	46.361	
1,294.0	1,293.9	1,290.7	1,290.7	3.4	3.4	33.90	251.7	154.3	302.2	295.6	6.62	45.653	
1,300.0	1,299.9	1,296.7	1,296.7	3.4	3.4	33.90	251.7	154.3	302.2	295.6	6.63	45.583	
1,330.0	1,329.9	1,326.7	1,326.7	3.5	3.4	33.90	251.7	154.3	302.2	295.5	6.69	45.157	
1,400.0	1,399.9	1,396.7	1,396.7	3.6	3.5	33.90	251.7	154.3	302.2	295.4	6.85	44.147	
1,425.0	1,424.9	1,421.7	1,421.7	3.6	3.5	33.90	251.7	154.3	302.2	295.3	6.92	43.647	
1,500.0	1,499.9	1,496.7	1,496.7	3.8	3.5	33.90	251.7	154.3	302.2	295.0	7.16	42.209	
1,520.0	1,519.9	1,516.7	1,516.7	3.8	3.6	33.90	251.7	154.3	302.2	295.0	7.22	41.840	
1,600.0	1,599.9	1,596.7	1,596.7	4.0	3.6	33.90	251.7	154.3	302.2	294.7	7.49	40.335	
1,615.0	1,614.9	1,611.7	1,611.7	4.1	3.6	33.90	251.7	154.3	302.2	294.7	7.54	40.065	
1,700.0	1,699.9	1,696.7	1,696.7	4.3	3.7	33.90	251.7	154.3	302.2	294.4	7.84	38.545	
1,710.0	1,709.9	1,706.7	1,706.7	4.3	3.7	33.90	251.7	154.3	302.2	294.3	7.88	38.373	
1,800.0	1,799.9	1,796.7	1,796.7	4.6	3.8	33.90	251.7	154.3	302.2	294.0	8.20	36.850	
1,805.0	1,804.9	1,801.7	1,801.7	4.6	3.8	33.90	251.7	154.3	302.2	294.0	8.22	36.769	
1,900.0	1,899.9	1,896.7	1,896.7	4.9	3.9	33.90	251.7	154.3	302.2	293.6	8.57	35.254	
1,995.0	1,994.9	1,991.7	1,991.7	5.2	3.9	33.90	251.7	154.3	302.2	293.3	8.93	33.827	
2,000.1	2,000.0	1,996.8	1,996.8	5.2	3.9	33.90	251.7	154.3	302.2	293.2	8.95	33.753	
2,090.0	2,089.9	2,084.3	2,084.3	5.5	4.0	-122.52	251.3	155.5	303.3	294.1	9.24	32.840	
2,100.0	2,099.9	2,094.0	2,094.0	5.5	4.0	-122.52	251.2	155.8	303.6	294.3	9.26	32.777	
2,185.0	2,184.7	2,176.6	2,176.5	6.0	4.4	-122.40	250.0	159.5	306.9	297.2	9.73	31.548	
2,200.0	2,199.7	2,191.2	2,191.0	6.1	4.5	-122.38	249.7	160.3	307.7	297.9	9.81	31.375	
2,250.1	2,249.7	2,239.8	2,239.5	6.3	4.8	-122.27	248.5	163.8	310.8	300.8	9.99	31.104	
2,280.0	2,279.4	2,268.7	2,268.3	6.3	5.0	-122.21	247.7	166.2	312.9	302.8	10.09	31.012	
2,300.0	2,299.4	2,288.1	2,287.6	6.4	5.1	-122.14	247.1	168.0	314.4	304.2	10.15	30.960	
2,375.0	2,374.1	2,360.6	2,359.7	6.6	5.5	-121.68	244.5	175.8	320.2	309.7	10.43	30.698	
2,400.0	2,399.0	2,384.8	2,383.6	6.7	5.7	-121.46	243.5	178.8	322.2	311.7	10.52	30.623	
2,470.0	2,468.7	2,452.2	2,450.3	6.9	5.9	-120.68	240.4	188.1	328.3	317.5	10.81	30.369	
2,500.0	2,498.6	2,482.0	2,479.7	7.0	5.9	-120.30	238.9	192.5	331.1	320.1	10.94	30.253	
2,565.0	2,563.4	2,546.5	2,543.5	7.2	6.0	-119.48	235.8	202.1	337.0	325.8	11.25	29.970	
2,600.0	2,598.2	2,581.3	2,577.8	7.3	6.0	-119.05	234.0	207.2	340.3	328.9	11.41	29.816	
2,660.0	2,658.0	2,640.9	2,636.7	7.5	6.1	-118.33	231.1	216.1	345.9	334.2	11.71	29.529	
2,700.0	2,697.8	2,680.6	2,675.9	7.6	6.2	-117.86	229.1	222.0	349.7	337.7	11.92	29.336	
2,755.0	2,752.6	2,735.2	2,729.9	7.8	6.3	-117.24	226.4	230.1	354.9	342.7	12.21	29.065	
2,800.0	2,797.5	2,779.9	2,774.0	7.9	6.4	-116.74	224.2	236.7	359.2	346.7	12.45	28.845	
2,850.0	2,847.3	2,829.6	2,823.0	8.1	6.5	-116.21	221.7	244.1	364.0	351.3	12.73	28.599	
2,900.0	2,897.1	2,879.2	2,872.1	8.3	6.6	-115.68	219.3	251.4	368.8	355.8	13.01	28.357	
2,945.0	2,941.9	2,923.9	2,916.2	8.4	6.7	-115.22	217.1	258.1	373.2	360.0	13.26	28.139	
3,000.0	2,996.7	2,978.5	2,970.2	8.6	6.8	-114.67	214.4	266.2	378.6	365.0	13.58	27.877	
3,040.0	3,036.6	3,018.2	3,009.4	8.7	6.9	-114.28	212.4	272.1	382.5	368.7	13.82	27.690	
3,100.0	3,096.3	3,077.8	3,068.2	8.9	7.1	-113.72	209.4	280.9	388.5	374.3	14.17	27.412	
3,135.0	3,131.2	3,112.6	3,102.6	9.1	7.1	-113.39	207.7	286.1	392.0	377.6	14.38	27.254	
3,200.0	3,195.9	3,177.1	3,166.3	9.3	7.3	-112.81	204.5	295.7	398.5	383.7	14.78	26.965	
3,230.0	3,225.8	3,206.9	3,195.8	9.4	7.4	-112.54	203.0	300.1	401.5	386.5	14.96	26.836	
3,300.0	3,295.6	3,276.4	3,264.4	9.6	7.6	-111.94	199.6	310.4	408.5	393.1	15.39	26.537	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
3,325.0	3,320.5	3,301.3	3,288.9	9.7	7.6	-111.73	198.4	314.1	411.1	395.5	15.55	26.435	
3,400.0	3,395.2	3,375.7	3,362.5	10.0	7.8	-111.12	194.7	325.1	418.7	402.7	16.02	26.130	
3,420.0	3,415.1	3,395.6	3,382.1	10.0	7.9	-110.96	193.7	328.1	420.7	404.6	16.15	26.052	
3,500.0	3,494.8	3,475.0	3,460.6	10.3	8.1	-110.33	189.8	339.9	428.9	412.3	16.66	25.744	
3,515.0	3,509.7	3,489.9	3,475.3	10.3	8.1	-110.22	189.0	342.1	430.5	413.7	16.76	25.688	
3,600.0	3,594.4	3,574.3	3,558.7	10.6	8.4	-109.58	184.8	354.6	439.3	422.0	17.31	25.378	
3,610.0	3,604.4	3,584.3	3,568.5	10.7	8.4	-109.51	184.4	356.1	440.3	422.9	17.37	25.342	
3,700.0	3,694.0	3,673.7	3,656.7	11.0	8.7	-108.87	179.9	369.3	449.7	431.7	17.96	25.031	
3,705.0	3,699.0	3,678.6	3,661.6	11.0	8.7	-108.83	179.7	370.1	450.2	432.2	18.00	25.015	
3,800.0	3,793.7	3,773.0	3,754.8	11.3	9.0	-108.19	175.0	384.1	460.1	441.5	18.63	24.704	
3,895.0	3,888.3	3,867.3	3,848.0	11.7	9.2	-107.57	170.3	398.1	470.1	450.9	19.26	24.410	
3,900.0	3,893.3	3,872.3	3,852.9	11.7	9.3	-107.54	170.1	398.8	470.6	451.4	19.29	24.395	
3,990.0	3,982.9	3,961.6	3,941.2	12.0	9.5	-106.97	165.7	412.1	480.2	460.3	19.90	24.128	
4,007.7	4,000.6	3,979.3	3,958.6	12.1	9.6	-106.87	164.8	414.7	482.0	462.0	20.02	24.077	
4,085.0	4,077.6	4,056.0	4,034.3	12.3	9.8	-106.42	161.0	426.1	490.1	469.6	20.54	23.859	
4,100.0	4,092.6	4,070.9	4,049.1	12.4	9.9	-106.33	160.3	428.3	491.6	471.0	20.64	23.817	
4,180.0	4,172.4	4,150.2	4,127.5	12.7	10.1	-105.74	156.3	440.0	499.7	478.5	21.18	23.591	
4,200.0	4,192.4	4,170.1	4,147.1	12.7	10.2	-105.58	155.3	443.0	501.7	480.4	21.32	23.534	
4,275.0	4,267.3	4,244.4	4,220.5	13.0	10.4	-104.92	151.7	454.0	509.0	487.1	21.82	23.322	
4,300.0	4,292.3	4,269.2	4,245.0	13.1	10.5	-104.68	150.4	457.7	511.4	489.4	21.99	23.252	
4,370.0	4,362.2	4,338.6	4,313.5	13.3	10.7	-103.96	147.0	468.0	518.0	495.5	22.46	23.058	
4,400.0	4,392.2	4,368.2	4,342.8	13.4	10.8	-103.63	145.5	472.4	520.8	498.1	22.67	22.976	
4,465.0	4,457.2	4,432.5	4,406.3	13.6	11.0	-102.87	142.3	481.9	526.8	503.7	23.09	22.819	
4,507.8	4,500.0	4,474.8	4,448.0	13.8	11.2	54.12	140.2	488.2	530.8	507.4	23.36	22.717	
4,560.0	4,552.2	4,526.4	4,499.0	13.9	11.3	54.82	137.7	495.9	535.6	511.9	23.71	22.588	
4,600.0	4,592.2	4,565.9	4,538.0	14.1	11.5	55.35	135.7	501.7	539.4	515.4	23.98	22.494	
4,655.0	4,647.2	4,620.2	4,591.6	14.2	11.6	56.07	133.0	509.8	544.6	520.3	24.35	22.370	
4,700.0	4,692.2	4,664.6	4,635.5	14.4	11.8	56.65	130.8	516.4	549.0	524.3	24.65	22.273	
4,750.0	4,742.2	4,714.0	4,684.3	14.5	12.0	57.28	128.4	523.7	553.9	528.9	24.98	22.169	
4,800.0	4,792.2	4,763.4	4,733.1	14.7	12.1	57.90	126.0	531.0	558.9	533.5	25.32	22.070	
4,845.0	4,837.2	4,807.9	4,777.0	14.9	12.3	58.45	123.7	537.6	563.4	537.8	25.63	21.984	
4,900.0	4,892.2	4,862.2	4,830.6	15.0	12.4	59.11	121.1	545.7	569.0	543.0	26.00	21.884	
4,940.0	4,932.2	4,901.7	4,869.7	15.2	12.6	59.58	119.1	551.6	573.1	546.8	26.27	21.815	
5,000.0	4,992.2	4,961.0	4,928.2	15.4	12.8	60.27	116.2	560.3	579.4	552.7	26.68	21.715	
5,035.0	5,027.2	4,995.5	4,962.3	15.5	12.9	60.67	114.5	565.5	583.1	556.1	26.92	21.659	
5,100.0	5,092.2	5,059.7	5,025.7	15.7	13.1	61.40	111.3	575.0	590.0	562.6	27.36	21.560	
5,130.0	5,122.2	5,089.4	5,055.0	15.8	13.2	61.73	109.8	579.4	593.2	565.6	27.57	21.516	
5,200.0	5,192.2	5,158.5	5,123.3	16.1	13.5	62.48	106.4	589.7	600.8	572.8	28.05	21.419	
5,225.0	5,217.2	5,183.2	5,147.7	16.1	13.5	62.75	105.2	593.3	603.6	575.3	28.22	21.385	
5,300.0	5,292.2	5,257.3	5,220.9	16.4	13.8	63.53	101.5	604.3	611.9	583.1	28.74	21.290	
5,320.0	5,312.2	5,277.0	5,240.4	16.5	13.9	63.74	100.5	607.2	614.1	585.2	28.88	21.265	
5,400.0	5,392.2	5,356.0	5,318.4	16.7	14.1	64.54	96.6	619.0	623.1	593.7	29.43	21.172	
5,415.0	5,407.2	5,370.8	5,333.0	16.8	14.2	64.69	95.9	621.2	624.8	595.3	29.53	21.155	
5,500.0	5,492.2	5,454.8	5,416.0	17.1	14.5	65.51	91.7	633.6	634.5	604.4	30.12	21.065	
5,510.0	5,502.2	5,464.7	5,425.7	17.1	14.5	65.61	91.2	635.1	635.7	605.5	30.19	21.055	
5,600.0	5,592.2	5,553.6	5,513.5	17.4	14.8	66.45	86.8	648.3	646.1	615.3	30.82	20.967	
5,605.0	5,597.2	5,558.5	5,518.4	17.4	14.8	66.50	86.6	649.0	646.7	615.9	30.85	20.962	
5,700.0	5,692.2	5,652.3	5,611.1	17.7	15.2	67.36	81.9	662.9	657.9	626.4	31.51	20.877	
5,795.0	5,787.2	5,746.2	5,703.7	18.1	15.5	68.19	77.3	676.9	669.2	637.1	32.18	20.800	
5,800.0	5,792.2	5,751.1	5,708.6	18.1	15.5	68.24	77.0	677.6	669.8	637.6	32.21	20.796	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H -												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
5,890.0	5,882.2	5,840.0	5,796.4	18.4	15.8	69.00	72.6	690.8	680.7	647.9	32.84	20.728	
5,900.0	5,892.2	5,849.9	5,806.2	18.4	15.8	69.08	72.1	692.3	681.9	649.0	32.91	20.721	
5,985.0	5,977.2	5,933.8	5,889.1	18.7	16.1	69.78	68.0	704.7	692.3	658.8	33.50	20.663	
6,000.0	5,992.2	5,948.6	5,903.7	18.8	16.2	69.90	67.2	706.9	694.1	660.5	33.61	20.653	
6,080.0	6,072.2	6,027.7	5,981.8	19.0	16.5	70.53	63.3	718.6	704.0	669.8	34.17	20.603	
6,100.0	6,092.2	6,047.4	6,001.3	19.1	16.5	70.68	62.4	721.6	706.5	672.2	34.31	20.591	
6,175.0	6,167.2	6,121.5	6,074.4	19.4	16.8	71.26	58.7	732.6	715.9	681.0	34.84	20.549	
6,200.0	6,192.2	6,146.2	6,098.8	19.5	16.9	71.44	57.5	736.2	719.0	684.0	35.01	20.535	
6,270.0	6,262.2	6,215.3	6,167.1	19.7	17.1	71.96	54.0	746.5	727.8	692.3	35.50	20.499	
6,300.0	6,292.2	6,244.9	6,196.4	19.8	17.2	72.18	52.6	750.9	731.6	695.9	35.72	20.484	
6,365.0	6,357.2	6,309.1	6,259.8	20.0	17.5	72.64	49.4	760.4	739.8	703.7	36.17	20.453	
6,400.0	6,392.2	6,343.7	6,293.9	20.2	17.6	72.89	47.7	765.5	744.3	707.9	36.42	20.437	
6,460.0	6,452.2	6,403.0	6,352.5	20.4	17.8	73.30	44.7	774.3	752.0	715.2	36.84	20.411	
6,500.0	6,492.2	6,442.5	6,391.5	20.5	17.9	73.57	42.8	780.2	757.1	720.0	37.13	20.394	
6,555.0	6,547.2	6,496.8	6,445.1	20.7	18.1	73.94	40.1	788.2	764.2	726.7	37.51	20.373	
6,600.0	6,592.2	6,541.3	6,489.0	20.8	18.3	74.24	37.9	794.8	770.1	732.2	37.83	20.356	
6,650.0	6,642.2	6,590.6	6,537.8	21.0	18.5	74.56	35.4	802.2	776.6	738.4	38.18	20.338	
6,700.0	6,692.2	6,640.0	6,586.6	21.2	18.6	74.88	33.0	809.5	783.1	744.6	38.54	20.321	
6,745.0	6,737.2	6,684.5	6,630.5	21.3	18.8	75.16	30.8	816.1	789.0	750.2	38.86	20.306	
6,800.0	6,792.2	6,738.8	6,684.1	21.5	19.0	75.50	28.1	824.2	796.2	757.0	39.24	20.289	
6,840.0	6,832.2	6,778.3	6,723.2	21.7	19.1	75.74	26.2	830.0	801.5	762.0	39.53	20.277	
6,900.0	6,892.2	6,837.6	6,781.7	21.9	19.3	76.10	23.2	838.8	809.5	769.5	39.95	20.260	
6,935.0	6,927.2	6,872.1	6,815.8	22.0	19.5	76.30	21.5	843.9	814.1	773.9	40.20	20.251	
7,000.0	6,992.2	6,936.3	6,879.2	22.2	19.7	76.68	18.3	853.5	822.8	782.1	40.66	20.234	
7,030.0	7,022.2	6,966.0	6,908.5	22.3	19.8	76.85	16.9	857.9	826.8	785.9	40.87	20.227	
7,100.0	7,092.2	7,035.1	6,976.8	22.6	20.0	77.24	13.4	868.1	836.1	794.8	41.37	20.211	
7,125.0	7,117.2	7,059.8	7,001.2	22.7	20.1	77.38	12.2	871.8	839.5	798.0	41.55	20.205	
7,200.0	7,192.2	7,133.9	7,074.4	22.9	20.4	77.79	8.5	882.8	849.6	807.5	42.08	20.190	
7,220.0	7,212.2	7,153.6	7,093.9	23.0	20.5	77.89	7.6	885.7	852.3	810.1	42.22	20.186	
7,300.0	7,292.2	7,232.6	7,171.9	23.3	20.8	78.32	3.7	897.4	863.1	820.3	42.79	20.171	
7,315.0	7,307.2	7,248.7	7,187.8	23.3	20.8	78.40	2.9	899.8	865.2	822.3	42.91	20.165	
7,400.0	7,392.2	7,345.6	7,283.6	23.6	21.1	78.87	-1.6	913.3	876.0	832.4	43.58	20.100	
7,410.0	7,402.2	7,357.0	7,295.0	23.7	21.2	78.92	-2.1	914.8	877.2	833.5	43.66	20.090	
7,500.0	7,492.2	7,460.2	7,397.3	24.0	21.5	79.34	-6.3	927.2	887.2	842.8	44.37	19.994	
7,505.0	7,497.2	7,465.9	7,403.0	24.0	21.6	79.36	-6.5	927.8	887.7	843.3	44.41	19.988	
7,600.0	7,592.2	7,575.3	7,511.7	24.3	22.0	79.73	-10.2	939.0	896.7	851.5	45.15	19.860	
7,695.0	7,687.2	7,685.1	7,621.1	24.7	22.3	80.02	-13.3	948.2	904.1	858.2	45.88	19.706	
7,700.0	7,692.2	7,690.9	7,626.8	24.7	22.4	80.04	-13.5	948.7	904.4	858.5	45.92	19.697	
7,790.0	7,782.2	7,795.2	7,730.9	25.0	22.7	80.25	-15.7	955.5	909.9	863.3	46.59	19.528	
7,800.0	7,792.2	7,806.8	7,742.5	25.0	22.8	80.28	-16.0	956.2	910.4	863.7	46.67	19.508	
7,885.0	7,877.2	7,905.6	7,841.2	25.3	23.1	80.42	-17.5	960.8	914.1	866.8	47.30	19.326	
7,900.0	7,892.2	7,923.1	7,858.6	25.4	23.2	80.44	-17.7	961.4	914.6	867.2	47.41	19.293	
7,980.0	7,972.2	8,016.2	7,951.7	25.7	23.5	80.52	-18.6	964.0	916.7	868.7	47.99	19.103	
8,000.0	7,992.2	8,039.5	7,975.0	25.7	23.6	80.53	-18.7	964.5	917.1	868.9	48.13	19.053	
8,075.0	8,067.2	8,126.8	8,062.3	26.0	23.8	80.56	-19.0	965.3	917.7	869.1	48.66	18.858	
8,100.0	8,092.2	8,153.5	8,089.0	26.1	23.9	80.56	-19.0	965.3	917.7	868.9	48.83	18.793	
8,170.0	8,162.2	8,223.5	8,159.0	26.3	24.1	80.56	-19.0	965.3	917.7	868.4	49.30	18.616	
8,200.0	8,192.2	8,253.5	8,189.0	26.4	24.2	80.56	-19.0	965.3	917.7	868.2	49.50	18.540	
8,265.0	8,257.2	8,318.5	8,254.0	26.7	24.4	80.56	-19.0	965.3	917.7	867.8	49.94	18.378	
8,300.0	8,292.2	8,353.5	8,289.0	26.8	24.5	80.56	-19.0	965.3	917.7	867.6	50.17	18.292	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
8,360.0	8,352.2	8,413.5	8,349.0	27.0	24.7	80.56	-19.0	965.3	917.7	867.1	50.58	18.145	
8,400.0	8,392.2	8,453.5	8,389.0	27.1	24.8	80.56	-19.0	965.3	917.7	866.9	50.85	18.049	
8,455.0	8,447.2	8,508.5	8,444.0	27.3	25.0	80.56	-19.0	965.3	917.7	866.5	51.22	17.918	
8,500.0	8,492.2	8,553.5	8,489.0	27.5	25.2	80.56	-19.0	965.3	917.7	866.2	51.52	17.812	
8,550.0	8,542.2	8,603.5	8,539.0	27.7	25.3	80.56	-19.0	965.3	917.7	865.9	51.86	17.696	
8,600.0	8,592.2	8,653.5	8,589.0	27.8	25.5	80.56	-19.0	965.3	917.7	865.5	52.20	17.581	
8,645.0	8,637.2	8,698.5	8,634.0	28.0	25.6	80.56	-19.0	965.3	917.7	865.2	52.51	17.479	
8,700.0	8,692.2	8,753.5	8,689.0	28.2	25.8	80.56	-19.0	965.3	917.7	864.8	52.88	17.355	
8,740.0	8,732.2	8,793.5	8,729.0	28.3	25.9	80.56	-19.0	965.3	917.7	864.6	53.15	17.266	
8,800.0	8,792.2	8,853.5	8,789.0	28.5	26.1	80.56	-19.0	965.3	917.7	864.2	53.56	17.135	
8,835.0	8,827.2	8,888.5	8,824.0	28.7	26.2	80.56	-19.0	965.3	917.7	863.9	53.80	17.059	
8,900.0	8,892.2	8,953.5	8,889.0	28.9	26.3	80.56	-19.0	965.3	917.7	863.6	54.16	16.946	
8,930.0	8,922.2	8,983.5	8,919.0	29.0	26.4	80.56	-19.0	965.3	917.7	863.4	54.31	16.897	
8,931.0	8,923.2	8,984.5	8,920.0	29.0	26.4	80.56	-19.0	965.3	917.7	863.4	54.32	16.895	
9,000.0	8,992.2	9,042.4	8,977.9	29.2	26.4	80.48	-17.7	965.3	918.0	863.4	54.63	16.804	
9,025.0	9,017.2	9,061.3	8,996.7	29.3	26.4	80.37	-15.9	965.3	918.4	863.7	54.73	16.779	
9,100.0	9,092.2	9,116.8	9,051.3	29.6	26.5	79.79	-6.4	965.3	920.6	865.6	55.04	16.728	
9,120.0	9,112.2	9,131.2	9,065.3	29.7	26.5	79.57	-2.9	965.3	921.5	866.4	55.11	16.720 SF	
9,200.0	9,192.2	9,186.2	9,117.5	30.0	26.5	78.52	14.2	965.2	926.4	871.0	55.41	16.720	
9,215.0	9,207.2	9,196.0	9,126.6	30.0	26.5	78.30	17.9	965.2	927.7	872.2	55.46	16.727	
9,300.0	9,292.2	9,250.0	9,175.1	30.3	26.6	76.88	41.5	965.2	936.4	880.7	55.72	16.806	
9,310.0	9,302.2	9,254.2	9,178.8	30.3	26.6	76.75	43.6	965.1	937.6	881.9	55.74	16.822	
9,400.0	9,392.2	9,300.0	9,217.4	30.7	26.6	75.29	68.1	965.1	951.4	895.5	55.89	17.022	
9,405.0	9,397.2	9,305.4	9,221.9	30.7	26.6	75.10	71.3	965.1	952.3	896.4	55.91	17.033	
9,500.0	9,492.2	9,350.0	9,256.7	31.0	26.6	73.47	99.0	965.0	972.2	916.2	55.93	17.381	
9,595.0	9,587.2	9,387.9	9,284.3	31.3	26.7	71.97	125.0	965.0	997.8	942.0	55.79	17.884	
9,600.0	9,592.2	9,389.8	9,285.6	31.4	26.7	71.89	126.4	965.0	999.3	943.5	55.78	17.914	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD													Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-147.17	-554.1	-357.5	659.5					
1.0	1.0	0.0	0.0	3.0	3.0	-147.17	-554.1	-357.5	659.5					
4.5	4.5	1.7	1.7	3.0	3.0	-100.21	-554.1	-357.5	659.5					
95.0	95.0	89.3	89.3	3.0	3.0	-100.23	-554.3	-357.7	659.7	653.7	6.01	109.841		
101.0	101.0	95.1	95.1	3.0	3.0	-100.23	-554.3	-357.7	659.7	653.7	6.01	109.832		
126.0	126.0	119.6	119.6	3.0	3.0	-83.86	-554.4	-357.8	659.9	653.8	6.01	109.706		
151.0	151.0	144.2	144.2	3.0	3.1	-91.50	-554.5	-357.9	660.0	654.0	6.03	109.491		
176.0	176.0	168.9	168.8	3.0	3.1	-100.81	-554.6	-358.0	660.2	654.1	6.04	109.221		
190.0	190.0	182.6	182.6	3.0	3.1	-108.56	-554.6	-358.1	660.3	654.2	6.06	109.047		
201.0	201.0	193.5	193.5	3.0	3.1	-112.48	-554.7	-358.1	660.4	654.4	6.06	108.900		
226.0	226.0	217.9	217.9	3.0	3.2	-122.39	-554.8	-358.3	660.7	654.6	6.09	108.578		
251.0	251.0	242.2	242.2	3.0	3.2	-128.05	-555.0	-358.5	661.1	655.0	6.11	108.237		
276.0	276.0	266.5	266.5	3.0	3.3	-118.11	-555.1	-358.7	661.5	655.4	6.13	107.859		
285.0	285.0	275.2	275.2	3.0	3.3	-115.42	-555.2	-358.7	661.6	655.5	6.14	107.713		
301.0	301.0	290.8	290.8	3.0	3.3	-111.26	-555.3	-358.9	661.9	655.7	6.16	107.443		
326.0	326.0	316.0	316.0	3.0	3.4	-103.20	-555.5	-359.1	662.3	656.1	6.19	106.991		
351.0	351.0	341.8	341.8	3.0	3.4	-97.45	-555.6	-359.4	662.6	656.4	6.22	106.498		
376.0	376.0	367.6	367.6	3.0	3.5	-95.81	-555.8	-359.6	662.9	656.6	6.26	105.965		
380.0	380.0	371.7	371.7	3.0	3.5	-96.58	-555.8	-359.6	662.9	656.6	6.26	105.876		
401.0	401.0	393.4	393.4	3.0	3.5	-100.74	-555.9	-359.8	663.1	656.8	6.29	105.398		
426.0	426.0	418.0	418.0	3.0	3.6	-96.41	-556.0	-359.9	663.4	657.0	6.33	104.828		
451.0	451.0	442.2	442.2	3.0	3.6	-92.70	-556.1	-360.1	663.6	657.2	6.37	104.244		
475.0	475.0	465.4	465.4	3.0	3.7	-82.12	-556.2	-360.3	663.8	657.4	6.40	103.661		
476.0	476.0	466.4	466.4	3.0	3.7	-81.69	-556.2	-360.3	663.8	657.4	6.41	103.636		
501.0	501.0	490.6	490.5	3.1	3.7	-83.36	-556.4	-360.6	664.0	657.6	6.45	103.008		
526.0	526.0	515.6	515.6	3.1	3.8	-79.44	-556.6	-360.8	664.3	657.8	6.49	102.325		
551.0	551.0	541.2	541.1	3.1	3.9	-74.05	-556.8	-361.1	664.4	657.9	6.54	101.592		
570.0	570.0	560.6	560.6	3.1	3.9	-69.32	-556.9	-361.2	664.5	657.9	6.58	101.018		
576.0	576.0	566.7	566.7	3.1	3.9	-67.79	-557.0	-361.3	664.5	657.9	6.59	100.834		
601.0	601.0	592.3	592.3	3.1	4.0	-64.54	-557.1	-361.5	664.6	657.9	6.64	100.053		
626.0	625.9	617.4	617.4	3.1	4.1	-56.25	-557.3	-361.6	664.6	657.9	6.70	99.198		
637.6	637.5	629.0	629.0	3.1	4.1	-57.73	-557.3	-361.7	664.6	657.9	6.73	98.787		
651.0	650.9	642.4	642.4	3.1	4.1	-59.65	-557.4	-361.8	664.6	657.8	6.76	98.316		
665.0	664.9	656.4	656.3	3.1	4.2	-56.54	-557.5	-361.8	664.6	657.8	6.79	97.822		
676.0	675.9	667.3	667.3	3.1	4.2	-54.23	-557.6	-361.9	664.6	657.8	6.82	97.434		
701.0	700.9	692.3	692.3	3.1	4.2	-47.94	-557.8	-362.0	664.6	657.7	6.88	96.546		
726.0	725.9	717.7	717.7	3.1	4.3	-37.71	-558.0	-362.0	664.5	657.5	6.96	95.446		
751.0	750.9	743.3	743.3	3.1	4.4	-30.34	-558.3	-362.1	664.3	657.3	7.04	94.334		
760.0	759.9	752.5	752.5	3.1	4.4	-32.59	-558.3	-362.1	664.2	657.2	7.07	93.956		
776.0	775.9	768.9	768.9	3.1	4.4	-36.36	-558.4	-362.1	664.1	657.0	7.12	93.314		
801.0	800.9	794.5	794.5	3.1	4.5	-32.39	-558.6	-362.1	663.8	656.7	7.19	92.367		
826.0	825.9	819.3	819.3	3.1	4.6	-23.97	-558.8	-362.1	663.5	656.3	7.26	91.418		
851.0	850.9	844.0	844.0	3.1	4.6	-35.59	-558.9	-362.1	663.3	655.9	7.33	90.443		
855.0	854.9	848.0	847.9	3.1	4.6	-34.35	-559.0	-362.1	663.2	655.9	7.35	90.284		
876.0	875.9	868.7	868.6	3.2	4.7	-27.81	-559.1	-362.2	663.0	655.6	7.41	89.437		
901.0	900.9	893.3	893.3	3.2	4.7	-25.47	-559.3	-362.2	662.7	655.2	7.50	88.403		
926.0	925.9	917.9	917.9	3.2	4.8	-32.14	-559.5	-362.2	662.5	655.0	7.58	87.445		
950.0	949.9	941.4	941.4	3.2	4.9	-38.02	-559.7	-362.2	662.5	654.8	7.65	86.568		
986.7	986.6	977.4	977.4	3.2	5.0	-38.06	-560.1	-362.3	662.5	654.7	7.77	85.277		
1,000.0	999.9	990.5	990.5	3.2	5.0	-38.07	-560.2	-362.3	662.5	654.6	7.81	84.813		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,045.0	1,044.9	1,034.8	1,034.8	3.2	5.1	-38.12	-560.7	-362.3	662.5	654.5	7.96	83.259	
1,054.0	1,053.9	1,043.7	1,043.7	3.2	5.2	-38.13	-560.8	-362.4	662.5	654.5	7.99	82.954	
1,100.0	1,099.9	1,089.1	1,089.0	3.2	5.3	-38.18	-561.4	-362.4	662.6	654.5	8.15	81.323	
1,140.0	1,139.9	1,128.1	1,128.0	3.3	5.4	-38.22	-561.9	-362.5	662.7	654.4	8.29	79.909	
1,154.0	1,153.9	1,141.7	1,141.6	3.3	5.5	-38.24	-562.1	-362.6	662.8	654.4	8.34	79.425	
1,200.0	1,199.9	1,186.3	1,186.3	3.3	5.6	-38.29	-562.9	-362.7	663.1	654.6	8.52	77.807	
1,235.0	1,234.9	1,221.1	1,221.0	3.3	5.7	-38.31	-563.4	-362.9	663.5	654.9	8.67	76.512	
1,294.0	1,293.9	1,280.6	1,280.5	3.4	5.9	-148.32	-564.4	-363.2	664.4	655.4	8.93	74.364	
1,300.0	1,299.9	1,286.6	1,286.5	3.4	5.9	-148.32	-564.5	-363.2	664.5	655.5	8.96	74.156	
1,330.0	1,329.9	1,317.1	1,317.0	3.5	6.0	-148.33	-565.0	-363.3	664.9	655.8	9.10	73.031	
1,400.0	1,399.9	1,388.7	1,388.6	3.6	6.2	-148.37	-566.1	-363.4	665.9	656.5	9.45	70.446	
1,425.0	1,424.9	1,413.7	1,413.7	3.6	6.3	-148.40	-566.5	-363.4	666.2	656.6	9.60	69.401	
1,500.0	1,499.9	1,487.6	1,487.5	3.8	6.5	-148.47	-567.8	-363.2	667.2	657.2	10.04	66.463	
1,520.0	1,519.9	1,507.5	1,507.4	3.8	6.6	-148.49	-568.2	-363.1	667.5	657.4	10.16	65.719	
1,600.0	1,599.9	1,588.3	1,588.2	4.0	6.8	-148.59	-569.7	-362.7	668.6	658.0	10.65	62.785	
1,615.0	1,614.9	1,603.4	1,603.2	4.1	6.9	-148.61	-570.0	-362.6	668.8	658.1	10.74	62.266	
1,700.0	1,699.9	1,687.6	1,687.4	4.3	7.1	-148.71	-571.6	-362.3	670.0	658.7	11.27	59.455	
1,710.0	1,709.9	1,697.5	1,697.3	4.3	7.2	-148.72	-571.8	-362.2	670.1	658.8	11.33	59.141	
1,800.0	1,799.9	1,788.1	1,787.9	4.6	7.5	-148.82	-573.5	-361.9	671.4	659.5	11.90	56.402	
1,805.0	1,804.9	1,793.1	1,792.9	4.6	7.5	-148.82	-573.6	-361.9	671.5	659.5	11.94	56.256	
1,900.0	1,899.9	1,889.1	1,889.0	4.9	7.8	-148.91	-575.2	-361.6	672.7	660.2	12.55	53.598	
1,995.0	1,994.9	1,982.7	1,982.5	5.2	8.1	-149.00	-576.7	-361.4	673.9	660.8	13.16	51.199	
2,000.1	2,000.0	1,987.7	1,987.5	5.2	8.1	-149.00	-576.8	-361.4	674.0	660.8	13.20	51.075	
2,090.0	2,089.9	2,080.7	2,080.5	5.5	8.4	54.58	-578.2	-361.3	674.3	660.6	13.75	49.025	
2,100.0	2,099.9	2,091.2	2,091.0	5.5	8.5	54.60	-578.3	-361.3	674.2	660.4	13.82	48.792	
2,185.0	2,184.7	2,175.3	2,175.1	6.0	8.7	54.86	-579.3	-361.2	672.6	658.0	14.56	46.201	
2,200.0	2,199.7	2,190.0	2,189.8	6.1	8.8	54.93	-579.5	-361.1	672.1	657.4	14.69	45.745	
2,250.1	2,249.7	2,239.4	2,239.2	6.3	8.9	55.18	-580.2	-361.0	670.4	655.4	15.02	44.625	
2,280.0	2,279.4	2,268.8	2,268.6	6.3	9.0	55.33	-580.7	-360.9	669.3	654.1	15.20	44.020	
2,300.0	2,299.4	2,288.5	2,288.3	6.4	9.1	55.43	-581.0	-360.8	668.5	653.2	15.33	43.624	
2,375.0	2,374.1	2,362.8	2,362.5	6.6	9.4	55.81	-582.3	-360.5	665.8	650.0	15.79	42.154	
2,400.0	2,399.0	2,387.5	2,387.3	6.7	9.4	55.94	-582.8	-360.4	664.9	649.0	15.95	41.683	
2,470.0	2,468.7	2,456.2	2,455.9	6.9	9.7	56.29	-584.1	-360.2	662.5	646.1	16.41	40.376	
2,500.0	2,498.6	2,485.5	2,485.3	7.0	9.8	56.44	-584.7	-360.1	661.5	644.9	16.60	39.839	
2,565.0	2,563.4	2,551.2	2,550.9	7.2	10.0	56.77	-586.0	-359.8	659.4	642.4	17.04	38.701	
2,600.0	2,598.2	2,586.9	2,586.6	7.3	10.1	56.95	-586.8	-359.7	658.2	640.9	17.27	38.105	
2,660.0	2,658.0	2,648.0	2,647.7	7.5	10.3	57.26	-587.9	-359.3	656.1	638.4	17.68	37.115	
2,700.0	2,697.8	2,688.8	2,688.5	7.6	10.5	57.47	-588.6	-359.1	654.7	636.7	17.95	36.475	
2,755.0	2,752.6	2,744.9	2,744.6	7.8	10.6	57.76	-589.5	-358.6	652.6	634.3	18.32	35.624	
2,800.0	2,797.5	2,790.9	2,790.6	7.9	10.8	57.98	-590.3	-358.1	650.8	632.2	18.62	34.948	
2,850.0	2,847.3	2,840.9	2,840.6	8.1	11.0	58.21	-591.1	-357.4	648.8	629.8	18.96	34.227	
2,900.0	2,897.1	2,890.8	2,890.4	8.3	11.1	58.44	-592.0	-356.6	646.8	627.5	19.29	33.532	
2,945.0	2,941.9	2,938.2	2,937.8	8.4	11.3	58.66	-592.8	-355.8	645.0	625.4	19.59	32.915	
3,000.0	2,996.7	2,996.9	2,996.5	8.6	11.5	58.93	-593.5	-354.8	642.4	622.4	19.97	32.169	
3,040.0	3,036.6	3,038.9	3,038.5	8.7	11.6	59.14	-593.8	-353.9	640.4	620.1	20.24	31.646	
3,100.0	3,096.3	3,101.8	3,101.5	8.9	11.8	59.46	-594.0	-352.6	637.1	616.5	20.63	30.876	
3,135.0	3,131.2	3,138.1	3,137.7	9.1	11.9	59.65	-593.9	-351.8	635.1	614.2	20.86	30.438	
3,200.0	3,195.9	3,205.1	3,204.7	9.3	12.1	60.01	-593.7	-350.3	631.1	609.8	21.29	29.642	
3,230.0	3,225.8	3,234.8	3,234.3	9.4	12.2	60.17	-593.5	-349.6	629.3	607.8	21.49	29.287	
3,300.0	3,295.6	3,304.0	3,303.6	9.6	12.4	60.56	-593.1	-348.1	625.0	603.1	21.94	28.484	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP													Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
3,325.0	3,320.5	3,329.2	3,328.7	9.7	12.5	60.70	-593.0	-347.6	623.5	601.4	22.11	28.203		
3,400.0	3,395.2	3,404.5	3,404.0	10.0	12.8	61.16	-592.3	-346.1	618.9	596.3	22.60	27.384		
3,420.0	3,415.1	3,424.1	3,423.7	10.0	12.8	61.29	-592.1	-345.7	617.7	595.0	22.73	27.172		
3,500.0	3,494.8	3,500.0	3,499.5	10.3	13.1	61.80	-591.3	-344.7	613.0	589.7	23.26	26.357		
3,515.0	3,509.7	3,516.6	3,516.1	10.3	13.1	61.92	-591.1	-344.5	612.1	588.8	23.36	26.201		
3,600.0	3,594.4	3,596.2	3,595.8	10.6	13.4	62.50	-590.4	-344.0	607.7	583.8	23.92	25.403		
3,610.0	3,604.4	3,606.1	3,605.6	10.7	13.4	62.57	-590.3	-344.0	607.3	583.3	23.99	25.312		
3,700.0	3,694.0	3,697.6	3,697.1	11.0	13.8	63.27	-589.6	-343.7	603.0	578.3	24.61	24.499		
3,705.0	3,699.0	3,702.5	3,702.1	11.0	13.8	63.31	-589.5	-343.7	602.7	578.1	24.65	24.455		
3,800.0	3,793.7	3,792.9	3,792.4	11.3	14.1	64.03	-588.8	-343.7	598.4	573.2	25.29	23.667		
3,895.0	3,888.3	3,885.9	3,885.4	11.7	14.4	64.77	-588.5	-343.9	594.8	568.8	25.93	22.940		
3,900.0	3,893.3	3,890.8	3,890.3	11.7	14.4	64.81	-588.5	-343.9	594.6	568.6	25.96	22.903		
3,990.0	3,982.9	3,978.3	3,977.8	12.0	14.7	65.49	-588.5	-344.1	591.5	564.9	26.56	22.266		
4,007.7	4,000.6	3,995.6	3,995.1	12.1	14.7	65.62	-588.6	-344.2	590.9	564.2	26.68	22.146		
4,085.0	4,077.6	4,070.3	4,069.8	12.3	15.0	66.07	-589.4	-344.1	588.9	561.6	27.24	21.620		
4,100.0	4,092.6	4,084.8	4,084.3	12.4	15.1	66.14	-589.6	-344.0	588.6	561.2	27.34	21.523		
4,180.0	4,172.4	4,167.7	4,167.2	12.7	15.4	66.43	-591.3	-343.1	587.1	559.2	27.94	21.012		
4,200.0	4,192.4	4,188.8	4,188.3	12.7	15.5	66.49	-591.6	-342.8	586.7	558.6	28.09	20.886		
4,275.0	4,267.3	4,267.0	4,266.4	13.0	15.8	66.65	-592.7	-341.6	585.3	556.6	28.62	20.451		
4,300.0	4,292.3	4,293.0	4,292.5	13.1	15.8	66.68	-593.0	-341.1	584.8	556.0	28.79	20.311		
4,370.0	4,362.2	4,359.7	4,359.1	13.3	16.1	66.67	-594.1	-339.7	583.7	554.5	29.26	19.949		
4,400.0	4,392.2	4,388.0	4,387.4	13.4	16.2	66.64	-594.7	-339.1	583.5	554.1	29.46	19.807		
4,428.3	4,420.6	4,415.1	4,414.5	13.5	16.3	66.59	-595.5	-338.5	583.5	553.9	29.65	19.683		
4,465.0	4,457.2	4,450.9	4,450.3	13.6	16.4	66.51	-596.4	-337.8	583.6	553.7	29.88	19.527		
4,507.8	4,500.0	4,492.5	4,491.9	13.8	16.5	-137.16	-597.6	-337.0	583.9	553.7	30.16	19.356		
4,560.0	4,552.2	4,544.4	4,543.8	13.9	16.7	-137.31	-599.1	-336.2	584.4	553.8	30.52	19.147		
4,600.0	4,592.2	4,584.4	4,583.7	14.1	16.8	-137.41	-600.0	-335.7	584.7	554.0	30.79	18.990		
4,655.0	4,647.2	4,639.8	4,639.1	14.2	17.0	-137.52	-601.2	-335.3	585.3	554.1	31.17	18.777		
4,700.0	4,692.2	4,685.4	4,684.7	14.4	17.2	-137.58	-601.9	-335.0	585.7	554.2	31.48	18.605		
4,750.0	4,742.2	4,735.5	4,734.8	14.5	17.4	-137.64	-602.6	-334.9	586.1	554.2	31.82	18.417		
4,800.0	4,792.2	4,785.5	4,784.8	14.7	17.5	-137.69	-603.2	-334.8	586.5	554.3	32.17	18.232		
4,845.0	4,837.2	4,830.4	4,829.7	14.9	17.7	-137.73	-603.7	-334.7	586.8	554.3	32.48	18.070		
4,900.0	4,892.2	4,885.3	4,884.6	15.0	17.9	-137.78	-604.4	-334.6	587.3	554.4	32.85	17.875		
4,940.0	4,932.2	4,925.4	4,924.7	15.2	18.0	-137.82	-604.9	-334.6	587.6	554.5	33.13	17.737		
5,000.0	4,992.2	4,985.8	4,985.0	15.4	18.2	-137.89	-605.8	-334.4	588.1	554.5	33.54	17.532		
5,035.0	5,027.2	5,021.1	5,020.3	15.5	18.4	-137.93	-606.3	-334.2	588.3	554.5	33.79	17.414		
5,100.0	5,092.2	5,086.8	5,086.1	15.7	18.6	-138.03	-607.3	-333.7	588.7	554.5	34.23	17.197		
5,130.0	5,122.2	5,117.5	5,116.7	15.8	18.7	-138.08	-607.7	-333.4	588.9	554.5	34.44	17.098		
5,200.0	5,192.2	5,189.6	5,188.8	16.1	19.0	-138.18	-608.5	-332.8	589.1	554.2	34.93	16.866		
5,225.0	5,217.2	5,214.8	5,214.1	16.1	19.0	-138.21	-608.7	-332.6	589.1	554.0	35.10	16.784		
5,300.0	5,292.2	5,289.4	5,288.6	16.4	19.3	-138.27	-609.3	-332.1	589.2	553.6	35.61	16.545		
5,320.0	5,312.2	5,309.4	5,308.6	16.5	19.4	-138.29	-609.4	-332.0	589.2	553.5	35.75	16.482		
5,400.0	5,392.2	5,389.8	5,389.0	16.7	19.6	-138.34	-609.8	-331.7	589.3	553.0	36.30	16.235		
5,415.0	5,407.2	5,404.9	5,404.1	16.8	19.7	-138.35	-609.9	-331.6	589.3	552.9	36.40	16.189		
5,500.0	5,492.2	5,490.3	5,489.5	17.1	20.0	-138.40	-610.2	-331.3	589.3	552.3	36.98	15.935		
5,510.0	5,502.2	5,500.3	5,499.6	17.1	20.0	-138.40	-610.2	-331.2	589.3	552.3	37.05	15.905		
5,600.0	5,592.2	5,590.4	5,589.7	17.4	20.3	-138.46	-610.6	-330.8	589.3	551.6	37.67	15.645		
5,605.0	5,597.2	5,595.4	5,594.7	17.4	20.3	-138.46	-610.6	-330.8	589.3	551.6	37.70	15.631		
5,700.0	5,692.2	5,693.7	5,692.9	17.7	20.7	-138.55	-611.0	-329.9	589.0	550.6	38.36	15.356		
5,795.0	5,787.2	5,790.0	5,789.2	18.1	21.0	-138.66	-611.3	-328.6	588.3	549.3	39.00	15.084		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP													Offset Site Error: 3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,800.0	5,792.2	5,795.0	5,794.2	18.1	21.0	-138.67	-611.3	-328.5	588.3	549.3	39.04	15.070	
5,890.0	5,882.2	5,885.2	5,884.4	18.4	21.3	-138.76	-611.3	-327.3	587.5	547.9	39.65	14.819	
5,900.0	5,892.2	5,895.2	5,894.4	18.4	21.4	-138.77	-611.3	-327.2	587.5	547.7	39.72	14.791	
5,985.0	5,977.2	5,979.6	5,978.8	18.7	21.6	-138.83	-611.2	-326.3	586.8	546.5	40.29	14.563	
6,000.0	5,992.2	5,994.5	5,993.7	18.8	21.7	-138.84	-611.2	-326.1	586.7	546.3	40.39	14.524	
6,080.0	6,072.2	6,074.4	6,073.6	19.0	21.9	-138.88	-611.1	-325.4	586.1	545.2	40.94	14.317	
6,100.0	6,092.2	6,094.4	6,093.6	19.1	22.0	-138.89	-611.0	-325.3	586.0	544.9	41.07	14.266	
6,175.0	6,167.2	6,171.4	6,170.6	19.4	22.3	-138.94	-610.8	-324.4	585.3	543.7	41.59	14.074	
6,200.0	6,192.2	6,197.1	6,196.3	19.5	22.4	-138.96	-610.8	-324.1	585.0	543.3	41.76	14.009	
6,270.0	6,262.2	6,266.9	6,266.1	19.7	22.6	-139.04	-610.7	-322.9	584.2	542.0	42.24	13.832	
6,300.0	6,292.2	6,296.8	6,296.0	19.8	22.7	-139.08	-610.7	-322.4	583.9	541.4	42.44	13.757	
6,365.0	6,357.2	6,359.7	6,358.9	20.0	22.9	-139.14	-610.7	-321.5	583.2	540.4	42.88	13.602	
6,400.0	6,392.2	6,393.6	6,392.8	20.2	23.0	-139.17	-610.7	-321.2	583.0	539.9	43.12	13.522	
6,460.0	6,452.2	6,453.2	6,452.3	20.4	23.2	-139.21	-610.7	-320.6	582.7	539.2	43.53	13.387	
6,500.0	6,492.2	6,493.0	6,492.2	20.5	23.4	-139.24	-610.8	-320.3	582.5	538.7	43.80	13.299	
6,555.0	6,547.2	6,547.8	6,546.9	20.7	23.5	-139.29	-610.9	-319.8	582.3	538.1	44.18	13.181	
6,600.0	6,592.2	6,592.6	6,591.7	20.8	23.7	-139.33	-611.0	-319.4	582.1	537.6	44.48	13.085	
6,650.0	6,642.2	6,641.8	6,640.9	21.0	23.9	-139.37	-611.2	-318.9	581.9	537.1	44.83	12.981	
6,700.0	6,692.2	6,690.9	6,690.1	21.2	24.0	-139.42	-611.4	-318.5	581.8	536.7	45.17	12.881	
6,745.0	6,737.2	6,735.5	6,734.6	21.3	24.2	-139.46	-611.7	-318.1	581.8	536.3	45.48	12.793	
6,766.6	6,758.9	6,756.9	6,756.1	21.4	24.3	-139.49	-611.8	-318.0	581.8	536.2	45.63	12.750 CC	
6,800.0	6,792.2	6,790.0	6,789.2	21.5	24.4	-139.52	-612.1	-317.7	581.8	535.9	45.86	12.687	
6,840.0	6,832.2	6,829.9	6,829.0	21.7	24.5	-139.56	-612.4	-317.4	581.8	535.7	46.14	12.611	
6,900.0	6,892.2	6,889.8	6,888.9	21.9	24.7	-139.62	-612.8	-316.9	581.9	535.3	46.55	12.499	
6,935.0	6,927.2	6,924.8	6,923.9	22.0	24.8	-139.66	-613.1	-316.7	581.9	535.1	46.80	12.435	
7,000.0	6,992.2	6,989.8	6,989.0	22.2	25.1	-139.72	-613.5	-316.2	582.0	534.7	47.25	12.317	
7,030.0	7,022.2	7,019.7	7,018.8	22.3	25.2	-139.75	-613.7	-316.0	582.0	534.5	47.46	12.263	
7,100.0	7,092.2	7,089.0	7,088.1	22.6	25.4	-139.82	-614.3	-315.6	582.1	534.2	47.94	12.141	
7,125.0	7,117.2	7,113.8	7,112.9	22.7	25.5	-139.84	-614.5	-315.4	582.2	534.0	48.12	12.099	
7,200.0	7,192.2	7,188.1	7,187.3	22.9	25.8	-139.92	-615.1	-315.0	582.4	533.8	48.64	11.974	
7,220.0	7,212.2	7,208.1	7,207.2	23.0	25.8	-139.94	-615.3	-314.9	582.5	533.7	48.78	11.941	
7,300.0	7,292.2	7,288.5	7,287.7	23.3	26.1	-140.00	-616.0	-314.6	582.8	533.4	49.34	11.811	
7,315.0	7,307.2	7,303.6	7,302.7	23.3	26.2	-140.01	-616.1	-314.5	582.8	533.4	49.45	11.786	
7,400.0	7,392.2	7,387.4	7,386.6	23.6	26.5	-140.08	-616.7	-314.2	583.1	533.1	50.04	11.654	
7,410.0	7,402.2	7,397.3	7,396.4	23.7	26.5	-140.09	-616.8	-314.2	583.2	533.1	50.11	11.638	
7,500.0	7,492.2	7,486.3	7,485.4	24.0	26.8	-140.17	-617.8	-313.9	583.7	533.0	50.74	11.505	
7,505.0	7,497.2	7,491.3	7,490.4	24.0	26.8	-140.17	-617.8	-313.9	583.8	533.0	50.77	11.498 ES	
7,600.0	7,592.2	7,584.2	7,583.3	24.3	27.2	-140.24	-618.9	-313.9	584.6	533.1	51.43	11.366	
7,695.0	7,687.2	7,680.5	7,679.6	24.7	27.5	-140.31	-620.1	-313.9	585.5	533.4	52.11	11.237	
7,700.0	7,692.2	7,685.7	7,684.8	24.7	27.5	-140.31	-620.1	-313.9	585.6	533.4	52.14	11.230	
7,790.0	7,782.2	7,773.8	7,772.9	25.0	27.8	-140.38	-621.2	-313.9	586.4	533.6	52.77	11.112	
7,800.0	7,792.2	7,783.5	7,782.6	25.0	27.9	-140.38	-621.3	-313.9	586.5	533.7	52.84	11.100	
7,885.0	7,877.2	7,868.5	7,867.6	25.3	28.2	-140.48	-622.7	-313.9	587.5	534.1	53.44	10.995	
7,900.0	7,892.2	7,883.6	7,882.7	25.4	28.2	-140.49	-622.9	-313.8	587.7	534.2	53.54	10.976	
7,980.0	7,972.2	7,967.4	7,966.5	25.7	28.5	-140.58	-624.1	-313.6	588.4	534.3	54.06	10.883	
8,000.0	7,992.2	7,984.8	7,983.9	25.7	28.5	-140.60	-624.3	-313.5	588.5	534.4	54.15	10.868 SF	
8,075.0	8,067.2	8,026.7	8,025.8	26.0	28.5	-140.70	-625.9	-313.5	591.0	536.7	54.36	10.872	
8,100.0	8,092.2	8,042.0	8,041.0	26.1	28.5	-140.78	-627.4	-313.7	593.0	538.6	54.42	10.897	
8,170.0	8,162.2	8,073.0	8,071.6	26.3	28.5	-141.05	-632.3	-314.1	601.5	547.1	54.42	11.052	
8,200.0	8,192.2	8,083.1	8,081.4	26.4	28.6	-141.15	-634.3	-314.3	606.4	552.1	54.33	11.162	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	100-GYRO-NS, 7978-MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
8,265.0	8,257.2	8,105.0	8,102.8	26.7	28.6	-141.42	-639.3	-314.8	619.8	565.8	54.01	11.476	
8,300.0	8,292.2	8,126.9	8,123.8	26.8	28.6	-141.72	-645.4	-315.5	628.4	574.4	53.97	11.644	
8,360.0	8,352.2	8,152.5	8,147.9	27.0	28.6	-142.14	-653.9	-316.5	645.7	592.1	53.63	12.041	
8,400.0	8,392.2	8,168.0	8,162.3	27.1	28.7	-142.41	-659.6	-317.2	658.8	605.5	53.33	12.352	
8,455.0	8,447.2	8,199.0	8,190.6	27.3	28.7	-142.99	-672.1	-318.9	678.6	625.5	53.10	12.779	
8,500.0	8,492.2	8,211.0	8,201.4	27.5	28.7	-143.21	-677.3	-319.7	696.4	643.8	52.60	13.239	
8,550.0	8,542.2	8,231.0	8,219.0	27.7	28.7	-143.57	-686.6	-321.6	718.1	665.9	52.18	13.761	
8,600.0	8,592.2	8,242.7	8,229.1	27.8	28.7	-143.78	-692.4	-322.9	741.5	689.9	51.55	14.384	
8,645.0	8,637.2	8,263.0	8,246.2	28.0	28.8	-144.15	-703.0	-325.5	764.1	712.9	51.24	14.912	
8,700.0	8,692.2	8,273.2	8,254.7	28.2	28.8	-144.33	-708.6	-326.9	793.3	742.8	50.47	15.719	
8,740.0	8,732.2	8,295.0	8,272.2	28.3	28.8	-144.71	-721.0	-330.3	815.8	765.5	50.32	16.214	
8,800.0	8,792.2	8,304.7	8,279.9	28.5	28.8	-144.88	-726.8	-331.9	850.7	801.3	49.46	17.200	
8,835.0	8,827.2	8,316.3	8,288.8	28.7	28.8	-145.10	-733.9	-333.7	872.0	822.8	49.15	17.742	
8,900.0	8,892.2	8,339.5	8,306.4	28.9	28.9	-145.55	-748.6	-337.2	912.8	864.1	48.64	18.766	
8,930.0	8,922.2	8,358.0	8,320.0	29.0	28.9	-145.95	-761.0	-339.6	932.1	883.5	48.63	19.169	
9,000.0	8,992.2	8,378.5	8,334.6	29.2	28.9	-146.43	-775.1	-341.8	978.2	930.2	48.01	20.374	
9,025.0	9,017.2	8,390.0	8,342.7	29.3	28.9	-146.71	-783.2	-342.9	995.0	947.1	47.91	20.767	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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 Between Centres (usft)		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	26.31	251.4	124.3	280.5				
1.0	1.0	0.0	0.0	3.0	3.0	26.31	251.4	124.3	280.5				
35.7	35.7	30.1	30.1	3.0	3.0	73.28	251.4	124.3	280.4	274.4	6.00	46.740	
95.0	95.0	89.4	89.4	3.0	3.0	73.32	251.4	124.3	280.4	274.4	6.00	46.727	
101.0	101.0	95.4	95.4	3.0	3.0	73.32	251.4	124.3	280.4	274.4	6.00	46.725	
126.0	126.0	120.4	120.4	3.0	3.0	89.74	251.4	124.3	280.3	274.3	6.00	46.716	
151.0	151.0	145.4	145.4	3.0	3.0	82.14	251.4	124.3	280.3	274.3	6.00	46.706	
176.0	176.0	170.4	170.4	3.0	3.0	72.87	251.4	124.3	280.3	274.3	6.00	46.687	
190.0	190.0	184.4	184.4	3.0	3.0	65.15	251.4	124.3	280.3	274.3	6.00	46.672	
201.0	201.0	195.4	195.4	3.0	3.0	61.26	251.4	124.3	280.2	274.2	6.01	46.656	
226.0	226.0	220.4	220.4	3.0	3.0	51.41	251.4	124.3	280.1	274.1	6.01	46.612	
251.0	251.0	245.4	245.4	3.0	3.0	45.80	251.4	124.3	279.9	273.9	6.01	46.559	
276.0	276.0	270.4	270.4	3.0	3.0	55.80	251.4	124.3	279.7	273.7	6.02	46.500	
285.0	285.0	279.4	279.4	3.0	3.0	58.51	251.4	124.3	279.7	273.6	6.02	46.480	
301.0	301.0	295.4	295.4	3.0	3.0	62.71	251.4	124.3	279.6	273.5	6.02	46.443	
326.0	326.0	320.4	320.4	3.0	3.0	70.86	251.4	124.3	279.4	273.4	6.02	46.387	
351.0	351.0	345.4	345.4	3.0	3.0	76.71	251.4	124.3	279.3	273.3	6.03	46.334	
376.0	376.0	370.4	370.4	3.0	3.0	78.44	251.4	124.3	279.2	273.2	6.03	46.283	
380.0	380.0	374.4	374.4	3.0	3.0	77.70	251.4	124.3	279.2	273.2	6.03	46.274	
401.0	401.0	395.4	395.4	3.0	3.0	73.62	251.4	124.3	279.1	273.1	6.04	46.226	
426.0	426.0	420.4	420.4	3.0	3.0	78.05	251.4	124.3	279.0	273.0	6.04	46.165	
451.0	451.0	445.4	445.4	3.0	3.0	81.87	251.4	124.3	279.0	272.9	6.05	46.106	
469.1	469.1	463.5	463.5	3.0	3.0	90.00	251.4	124.3	279.0	272.9	6.06	46.068 CC, ES	
475.0	475.0	469.4	469.4	3.0	3.0	92.55	251.4	124.3	279.0	272.9	6.06	46.057	
476.0	476.0	470.4	470.4	3.0	3.0	92.98	251.4	124.3	279.0	272.9	6.06	46.055	
501.0	501.0	495.4	495.4	3.1	3.1	91.43	251.4	124.3	279.0	272.9	6.06	46.007	
526.0	526.0	520.4	520.4	3.1	3.1	95.47	251.4	124.3	279.0	272.9	6.07	45.958	
551.0	551.0	545.4	545.4	3.1	3.1	100.98	251.4	124.3	279.1	273.0	6.08	45.914	
570.0	570.0	564.4	564.4	3.1	3.1	105.80	251.4	124.3	279.1	273.1	6.08	45.884	
576.0	576.0	570.4	570.4	3.1	3.1	107.36	251.4	124.3	279.2	273.1	6.09	45.876	
601.0	601.0	595.4	595.4	3.1	3.1	110.73	251.4	124.3	279.3	273.2	6.09	45.840	
626.0	625.9	620.3	620.3	3.1	3.1	119.13	251.4	124.3	279.5	273.4	6.10	45.809	
651.0	650.9	645.3	645.3	3.1	3.1	115.82	251.4	124.3	279.7	273.6	6.11	45.775	
665.0	664.9	659.3	659.3	3.1	3.1	118.99	251.4	124.3	279.8	273.7	6.12	45.754	
676.0	675.9	670.3	670.3	3.1	3.1	121.34	251.4	124.3	279.9	273.8	6.12	45.738	
701.0	700.9	695.3	695.3	3.1	3.1	127.74	251.4	124.3	280.1	274.0	6.13	45.706	
726.0	725.9	720.3	720.3	3.1	3.1	138.06	251.4	124.3	280.4	274.3	6.14	45.679	
751.0	750.9	745.3	745.3	3.1	3.1	145.52	251.4	124.3	280.7	274.6	6.15	45.658	
760.0	759.9	754.3	754.3	3.1	3.1	143.29	251.4	124.3	280.9	274.7	6.15	45.651	
776.0	775.9	770.3	770.3	3.1	3.1	139.57	251.4	124.3	281.1	274.9	6.16	45.636	
801.0	800.9	795.3	795.3	3.1	3.2	143.64	251.4	124.3	281.5	275.3	6.17	45.614	
826.0	825.9	820.3	820.3	3.1	3.2	152.14	251.4	124.3	281.9	275.7	6.18	45.595	
851.0	850.9	845.3	845.3	3.1	3.2	140.60	251.4	124.3	282.3	276.1	6.20	45.571	
855.0	854.9	849.3	849.3	3.1	3.2	141.86	251.4	124.3	282.4	276.2	6.20	45.566	
876.0	875.9	870.3	870.3	3.2	3.2	148.47	251.4	124.3	282.7	276.5	6.21	45.542	
901.0	900.9	895.3	895.3	3.2	3.2	150.89	251.4	124.3	283.2	276.9	6.22	45.511	
926.0	925.9	920.3	920.3	3.2	3.2	144.29	251.4	124.3	283.5	277.3	6.24	45.466	
950.0	949.9	944.3	944.3	3.2	3.2	138.47	251.4	124.3	283.8	277.5	6.25	45.407	
1,000.0	999.9	994.3	994.3	3.2	3.2	138.55	251.4	124.3	284.2	277.9	6.28	45.287	
1,045.0	1,044.9	1,039.3	1,039.3	3.2	3.3	138.63	251.4	124.3	284.6	278.3	6.31	45.144	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
1,054.0	1,053.9	1,048.3	1,048.3	3.2	3.3	138.64	251.4	124.3	284.7	278.4	6.31	45.115	
1,100.0	1,099.9	1,094.3	1,094.3	3.2	3.3	138.72	251.4	124.3	285.1	278.8	6.35	44.896	
1,140.0	1,139.9	1,134.3	1,134.3	3.3	3.3	138.78	251.4	124.3	285.5	279.1	6.39	44.650	
1,154.0	1,153.9	1,148.3	1,148.3	3.3	3.3	138.80	251.4	124.3	285.6	279.2	6.41	44.560	
1,200.0	1,199.9	1,194.3	1,194.3	3.3	3.3	138.87	251.4	124.3	286.0	279.5	6.47	44.201	
1,235.0	1,234.9	1,229.3	1,229.3	3.3	3.4	138.90	251.4	124.3	286.2	279.6	6.53	43.832	
1,294.0	1,293.9	1,288.3	1,288.3	3.4	3.4	28.95	251.4	124.3	286.3	279.6	6.64	43.147	
1,300.0	1,299.9	1,294.3	1,294.3	3.4	3.4	28.95	251.4	124.3	286.3	279.6	6.65	43.080	
1,330.0	1,329.9	1,324.3	1,324.3	3.5	3.4	28.95	251.4	124.3	286.3	279.6	6.71	42.675	
1,400.0	1,399.9	1,394.3	1,394.3	3.6	3.5	28.95	251.4	124.3	286.3	279.4	6.86	41.712	
1,425.0	1,424.9	1,419.3	1,419.3	3.6	3.5	28.95	251.4	124.3	286.3	279.3	6.94	41.243	
1,500.0	1,499.9	1,494.3	1,494.3	3.8	3.5	28.95	251.4	124.3	286.3	279.1	7.18	39.886	
1,520.0	1,519.9	1,514.3	1,514.3	3.8	3.6	28.95	251.4	124.3	286.3	279.0	7.24	39.537	
1,600.0	1,599.9	1,594.3	1,594.3	4.0	3.6	28.95	251.4	124.3	286.3	278.8	7.51	38.116	
1,615.0	1,614.9	1,609.3	1,609.3	4.1	3.6	28.95	251.4	124.3	286.3	278.7	7.56	37.861	
1,700.0	1,699.9	1,694.3	1,694.3	4.3	3.7	28.95	251.4	124.3	286.3	278.4	7.86	36.424	
1,710.0	1,709.9	1,704.3	1,704.3	4.3	3.7	28.95	251.4	124.3	286.3	278.4	7.90	36.261	
1,800.0	1,799.9	1,794.3	1,794.3	4.6	3.8	28.95	251.4	124.3	286.3	278.1	8.22	34.819	
1,805.0	1,804.9	1,799.3	1,799.3	4.6	3.8	28.95	251.4	124.3	286.3	278.0	8.24	34.742	
1,900.0	1,899.9	1,894.3	1,894.3	4.9	3.8	28.95	251.4	124.3	286.3	277.7	8.60	33.307	
1,995.0	1,994.9	1,989.3	1,989.3	5.2	3.9	28.95	251.4	124.3	286.3	277.3	8.96	31.955	
2,000.1	2,000.0	1,994.4	1,994.4	5.2	3.9	28.95	251.4	124.3	286.3	277.3	8.98	31.884	
2,090.0	2,089.9	2,087.1	2,087.1	5.5	4.1	-127.48	250.4	125.2	286.7	277.4	9.32	30.765	
2,100.0	2,099.9	2,097.5	2,097.5	5.5	4.1	-127.47	250.2	125.4	286.8	277.5	9.35	30.667	
2,185.0	2,184.7	2,185.4	2,185.2	6.0	4.7	-127.33	246.9	128.3	288.0	278.0	10.04	28.693	
2,200.0	2,199.7	2,200.9	2,200.7	6.1	4.8	-127.29	246.2	129.0	288.3	278.1	10.16	28.382	
2,250.1	2,249.7	2,252.7	2,252.3	6.3	5.1	-127.14	243.1	131.7	289.4	278.9	10.45	27.679	
2,280.0	2,279.4	2,283.5	2,283.1	6.3	5.3	-127.03	241.0	133.7	290.1	279.4	10.61	27.333	
2,300.0	2,299.4	2,304.1	2,303.5	6.4	5.4	-126.92	239.4	135.1	290.4	279.7	10.71	27.112	
2,375.0	2,374.1	2,379.0	2,378.0	6.6	5.6	-126.48	233.6	140.3	291.9	280.8	11.07	26.377	
2,400.0	2,399.0	2,404.0	2,402.9	6.7	5.7	-126.34	231.6	142.0	292.4	281.2	11.18	26.144	
2,470.0	2,468.7	2,474.0	2,472.5	6.9	5.8	-125.94	226.2	146.9	293.7	282.2	11.51	25.518	
2,500.0	2,498.6	2,503.9	2,502.3	7.0	5.8	-125.77	223.8	149.0	294.3	282.6	11.65	25.257	
2,565.0	2,563.4	2,568.9	2,566.9	7.2	5.9	-125.40	218.8	153.5	295.6	283.6	11.97	24.687	
2,600.0	2,598.2	2,603.9	2,601.7	7.3	6.0	-125.21	216.1	156.0	296.3	284.1	12.15	24.389	
2,660.0	2,658.0	2,663.8	2,661.3	7.5	6.1	-124.88	211.4	160.2	297.5	285.0	12.46	23.878	
2,700.0	2,697.8	2,703.8	2,701.0	7.6	6.2	-124.65	208.3	162.9	298.3	285.6	12.67	23.548	
2,755.0	2,752.6	2,758.8	2,755.7	7.8	6.3	-124.35	204.0	166.8	299.4	286.4	12.96	23.096	
2,800.0	2,797.5	2,803.7	2,800.4	7.9	6.4	-124.11	200.5	169.9	300.3	287.1	13.21	22.739	
2,850.0	2,847.3	2,853.7	2,850.1	8.1	6.5	-123.84	196.6	173.4	301.3	287.8	13.48	22.346	
2,900.0	2,897.1	2,903.7	2,899.8	8.3	6.6	-123.57	192.7	176.9	302.3	288.6	13.76	21.966	
2,945.0	2,941.9	2,948.7	2,944.6	8.4	6.7	-123.33	189.2	180.0	303.3	289.3	14.02	21.629	
3,000.0	2,996.7	3,003.6	2,999.2	8.6	6.8	-123.03	184.9	183.9	304.4	290.1	14.34	21.232	
3,040.0	3,036.6	3,043.6	3,039.0	8.7	6.9	-122.82	181.8	186.6	305.3	290.7	14.57	20.947	
3,100.0	3,096.3	3,103.6	3,098.6	8.9	7.0	-122.51	177.2	190.8	306.5	291.6	14.93	20.536	
3,135.0	3,131.2	3,138.5	3,133.4	9.1	7.1	-122.33	174.4	193.3	307.3	292.1	15.14	20.300	
3,200.0	3,195.9	3,203.5	3,198.0	9.3	7.3	-121.99	169.4	197.8	308.7	293.1	15.53	19.878	
3,230.0	3,225.8	3,233.5	3,227.8	9.4	7.4	-121.84	167.0	199.9	309.3	293.6	15.71	19.687	
3,300.0	3,295.6	3,303.4	3,297.4	9.6	7.6	-121.48	161.6	204.8	310.8	294.7	16.14	19.258	
3,325.0	3,320.5	3,328.4	3,322.2	9.7	7.6	-121.35	159.7	206.5	311.4	295.1	16.29	19.108	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,400.0	3,395.2	3,403.4	3,396.8	10.0	7.8	-120.98	153.8	211.7	313.0	296.2	16.76	18.673	
3,420.0	3,415.1	3,423.4	3,416.7	10.0	7.9	-120.88	152.3	213.1	313.4	296.5	16.89	18.560	
3,500.0	3,494.8	3,503.3	3,496.2	10.3	8.1	-120.48	146.0	218.7	315.2	297.8	17.39	18.123	
3,515.0	3,509.7	3,518.3	3,511.1	10.3	8.1	-120.41	144.9	219.8	315.5	298.0	17.49	18.043	
3,600.0	3,594.4	3,603.3	3,595.6	10.6	8.4	-119.99	138.3	225.7	317.4	299.4	18.03	17.604	
3,610.0	3,604.4	3,613.3	3,605.5	10.7	8.4	-119.94	137.5	226.4	317.6	299.6	18.10	17.554	
3,700.0	3,694.0	3,703.2	3,695.0	11.0	8.7	-119.51	130.5	232.7	319.7	301.0	18.68	17.116	
3,705.0	3,699.0	3,708.2	3,699.9	11.0	8.7	-119.48	130.1	233.0	319.8	301.1	18.71	17.093	
3,800.0	3,793.7	3,803.1	3,794.4	11.3	9.0	-119.03	122.7	239.6	321.9	302.6	19.33	16.657	
3,895.0	3,888.3	3,898.1	3,888.8	11.7	9.2	-118.58	115.3	246.3	324.1	304.2	19.95	16.245	
3,900.0	3,893.3	3,903.1	3,893.7	11.7	9.3	-118.56	114.9	246.6	324.2	304.3	19.98	16.224	
3,990.0	3,982.9	3,993.0	3,983.2	12.0	9.5	-118.14	107.9	252.9	326.3	305.7	20.58	15.853	
4,007.7	4,000.6	4,010.7	4,000.8	12.1	9.6	-118.06	106.5	254.1	326.7	306.0	20.70	15.782	
4,085.0	4,077.6	4,088.0	4,077.6	12.3	9.8	-117.64	100.5	259.5	328.3	307.1	21.21	15.476	
4,100.0	4,092.6	4,102.9	4,092.5	12.4	9.9	-117.54	99.4	260.5	328.5	307.2	21.31	15.416	
4,180.0	4,172.4	4,182.8	4,172.0	12.7	10.1	-116.91	93.1	266.1	329.6	307.8	21.83	15.095	
4,200.0	4,192.4	4,202.8	4,191.8	12.7	10.2	-116.72	91.6	267.5	329.8	307.8	21.96	15.015	
4,275.0	4,267.3	4,277.7	4,266.3	13.0	10.4	-115.93	85.8	272.7	330.3	307.8	22.45	14.711	
4,300.0	4,292.3	4,302.6	4,291.1	13.1	10.5	-115.63	83.8	274.5	330.3	307.7	22.61	14.609	
4,370.0	4,362.2	4,372.4	4,360.5	13.3	10.7	-114.70	78.4	279.3	330.4	307.3	23.06	14.327	
4,400.0	4,392.2	4,402.3	4,390.2	13.4	10.8	-114.26	76.1	281.4	330.3	307.0	23.25	14.206	
4,465.0	4,457.2	4,467.0	4,454.6	13.6	11.0	-113.23	71.0	285.9	330.0	306.3	23.64	13.959	
4,507.8	4,500.0	4,509.6	4,496.9	13.8	11.2	43.98	67.7	288.9	329.7	305.8	23.89	13.798	
4,560.0	4,552.2	4,561.5	4,548.6	13.9	11.3	44.92	63.7	292.5	329.3	305.1	24.21	13.601	
4,600.0	4,592.2	4,601.3	4,588.1	14.1	11.4	45.64	60.6	295.3	329.1	304.7	24.46	13.456	
4,655.0	4,647.2	4,656.0	4,642.5	14.2	11.6	46.64	56.3	299.1	328.9	304.1	24.80	13.264	
4,700.0	4,692.2	4,700.7	4,687.0	14.4	11.8	47.45	52.8	302.3	328.8	303.8	25.08	13.114	
4,737.7	4,730.0	4,738.3	4,724.4	14.5	11.9	48.13	49.9	304.9	328.8	303.5	25.31	12.991	
4,750.0	4,742.2	4,750.5	4,736.5	14.5	11.9	48.36	49.0	305.7	328.8	303.4	25.39	12.952	
4,800.0	4,792.2	4,800.2	4,786.0	14.7	12.1	49.26	45.1	309.2	328.9	303.2	25.70	12.798	
4,845.0	4,837.2	4,845.0	4,830.5	14.9	12.2	50.08	41.6	312.3	329.0	303.0	25.98	12.664	
4,900.0	4,892.2	4,899.7	4,884.9	15.0	12.4	51.07	37.3	316.1	329.2	302.9	26.32	12.507	
4,940.0	4,932.2	4,939.4	4,924.4	15.2	12.6	51.79	34.2	318.9	329.5	302.9	26.58	12.398	
5,000.0	4,992.2	4,999.1	4,983.8	15.4	12.8	52.87	29.6	323.1	330.0	303.0	26.95	12.241	
5,035.0	5,027.2	5,033.9	5,018.4	15.5	12.9	53.50	26.9	325.5	330.3	303.1	27.18	12.153	
5,100.0	5,092.2	5,098.6	5,082.7	15.7	13.1	54.67	21.9	330.0	331.0	303.4	27.59	11.997	
5,130.0	5,122.2	5,128.4	5,112.3	15.8	13.2	55.20	19.5	332.1	331.4	303.6	27.78	11.928	
5,200.0	5,192.2	5,198.0	5,181.6	16.1	13.4	56.45	14.1	336.9	332.3	304.1	28.23	11.774	
5,225.0	5,217.2	5,222.9	5,206.3	16.1	13.5	56.89	12.2	338.7	332.7	304.3	28.39	11.722	
5,300.0	5,292.2	5,297.5	5,280.5	16.4	13.8	58.21	6.4	343.9	334.0	305.2	28.87	11.571	
5,320.0	5,312.2	5,317.4	5,300.3	16.5	13.8	58.56	4.8	345.3	334.4	305.4	29.00	11.533	
5,400.0	5,392.2	5,396.9	5,379.4	16.7	14.1	59.96	-1.4	350.8	336.0	306.5	29.51	11.386	
5,415.0	5,407.2	5,411.8	5,394.2	16.8	14.2	60.22	-2.5	351.9	336.3	306.7	29.61	11.360	
5,500.0	5,492.2	5,496.4	5,478.3	17.1	14.4	61.68	-9.1	357.8	338.3	308.2	30.16	11.218	
5,510.0	5,502.2	5,506.3	5,488.2	17.1	14.5	61.86	-9.9	358.4	338.6	308.4	30.22	11.202	
5,600.0	5,592.2	5,595.8	5,577.2	17.4	14.8	63.38	-16.8	364.7	340.9	310.1	30.81	11.066	
5,605.0	5,597.2	5,600.8	5,582.2	17.4	14.8	63.47	-17.2	365.0	341.1	310.2	30.84	11.058	
5,700.0	5,692.2	5,695.3	5,676.1	17.7	15.1	65.06	-24.6	371.6	343.9	312.4	31.47	10.928	
5,795.0	5,787.2	5,789.7	5,770.1	18.1	15.4	66.62	-31.9	378.2	346.9	314.8	32.09	10.810	
5,800.0	5,792.2	5,794.7	5,775.0	18.1	15.5	66.70	-32.3	378.6	347.1	314.9	32.12	10.804	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,890.0	5,882.2	5,884.2	5,864.0	18.4	15.8	68.15	-39.3	384.8	350.2	317.5	32.72	10.703	
5,900.0	5,892.2	5,894.2	5,873.9	18.4	15.8	68.31	-40.1	385.5	350.5	317.8	32.78	10.692	
5,985.0	5,977.2	5,978.7	5,958.0	18.7	16.1	69.66	-46.7	391.4	353.7	320.4	33.35	10.606	
6,000.0	5,992.2	5,993.6	5,972.8	18.8	16.1	69.89	-47.8	392.4	354.3	320.8	33.45	10.592	
6,080.0	6,072.2	6,073.2	6,052.0	19.0	16.4	71.13	-54.0	398.0	357.5	323.5	33.98	10.520	
6,100.0	6,092.2	6,093.1	6,071.8	19.1	16.5	71.44	-55.6	399.4	358.3	324.2	34.12	10.503	
6,175.0	6,167.2	6,167.7	6,145.9	19.4	16.7	72.57	-61.4	404.6	361.5	326.9	34.62	10.442	
6,200.0	6,192.2	6,192.5	6,170.7	19.5	16.8	72.95	-63.3	406.3	362.6	327.8	34.79	10.424	
6,270.0	6,262.2	6,262.1	6,239.9	19.7	17.1	73.98	-68.7	411.2	365.7	330.5	35.26	10.373	
6,300.0	6,292.2	6,292.0	6,269.6	19.8	17.2	74.42	-71.0	413.3	367.1	331.7	35.46	10.353	
6,365.0	6,357.2	6,356.6	6,333.9	20.0	17.4	75.36	-76.1	417.8	370.2	334.3	35.90	10.312	
6,400.0	6,392.2	6,391.4	6,368.5	20.2	17.5	75.86	-78.8	420.2	371.9	335.8	36.14	10.292	
6,460.0	6,452.2	6,451.1	6,427.8	20.4	17.7	76.70	-83.4	424.4	374.9	338.3	36.54	10.258	
6,500.0	6,492.2	6,490.9	6,467.4	20.5	17.9	77.26	-86.5	427.1	376.9	340.1	36.81	10.238	
6,555.0	6,547.2	6,545.6	6,521.8	20.7	18.1	78.01	-90.8	430.9	379.7	342.5	37.19	10.211	
6,600.0	6,592.2	6,590.3	6,566.3	20.8	18.2	78.62	-94.3	434.1	382.1	344.6	37.49	10.191	
6,650.0	6,642.2	6,640.1	6,615.7	21.0	18.4	79.29	-98.1	437.5	384.8	347.0	37.84	10.170	
6,700.0	6,692.2	6,689.8	6,665.2	21.2	18.6	79.95	-102.0	441.0	387.5	349.4	38.18	10.151	
6,745.0	6,737.2	6,734.5	6,709.7	21.3	18.7	80.53	-105.5	444.1	390.1	351.6	38.49	10.135	
6,800.0	6,792.2	6,789.2	6,764.1	21.5	18.9	81.24	-109.7	447.9	393.2	354.3	38.86	10.117	
6,840.0	6,832.2	6,829.8	6,804.4	21.7	19.1	81.75	-112.9	450.8	395.5	356.3	39.14	10.103	
6,900.0	6,892.2	6,891.9	6,866.3	21.9	19.3	82.46	-117.3	454.7	398.7	359.1	39.57	10.076	
6,935.0	6,927.2	6,928.2	6,902.5	22.0	19.4	82.84	-119.7	456.8	400.4	360.6	39.82	10.056	
7,000.0	6,992.2	6,995.8	6,969.8	22.2	19.6	83.45	-123.6	460.3	403.3	363.0	40.28	10.013	
7,030.0	7,022.2	7,027.0	7,000.9	22.3	19.8	83.70	-125.2	461.8	404.5	364.0	40.49	9.991	
7,100.0	7,092.2	7,099.9	7,073.7	22.6	20.0	84.21	-128.5	464.7	407.0	366.0	40.99	9.930	
7,125.0	7,117.2	7,125.9	7,099.7	22.7	20.1	84.36	-129.5	465.6	407.8	366.6	41.16	9.906	
7,200.0	7,192.2	7,204.2	7,177.9	22.9	20.4	84.74	-132.0	467.9	409.7	368.0	41.70	9.825	
7,220.0	7,212.2	7,225.1	7,198.7	23.0	20.4	84.82	-132.5	468.3	410.1	368.2	41.84	9.802	
7,300.0	7,292.2	7,308.6	7,282.3	23.3	20.7	85.05	-134.0	469.7	411.3	368.9	42.40	9.700	
7,315.0	7,307.2	7,324.3	7,298.0	23.3	20.8	85.08	-134.2	469.9	411.4	368.9	42.50	9.680	
7,400.0	7,392.2	7,413.0	7,386.6	23.6	21.0	85.15	-134.7	470.3	411.8	368.7	43.09	9.557	
7,410.0	7,402.2	7,423.0	7,396.6	23.7	21.1	85.15	-134.7	470.3	411.8	368.6	43.15	9.542	
7,500.0	7,492.2	7,513.0	7,486.6	24.0	21.4	85.15	-134.7	470.3	411.8	368.0	43.76	9.410	
7,505.0	7,497.2	7,518.0	7,491.6	24.0	21.4	85.15	-134.7	470.3	411.8	368.0	43.79	9.403	
7,600.0	7,592.2	7,613.0	7,586.6	24.3	21.7	85.15	-134.7	470.3	411.8	367.4	44.43	9.268	
7,695.0	7,687.2	7,708.0	7,681.6	24.7	22.0	85.15	-134.7	470.3	411.8	366.7	45.07	9.136	
7,700.0	7,692.2	7,713.0	7,686.6	24.7	22.0	85.15	-134.7	470.3	411.8	366.7	45.11	9.129	
7,790.0	7,782.2	7,803.0	7,776.6	25.0	22.3	85.15	-134.7	470.3	411.8	366.1	45.72	9.007	
7,800.0	7,792.2	7,813.0	7,786.6	25.0	22.3	85.15	-134.7	470.3	411.8	366.0	45.78	8.994	
7,885.0	7,877.2	7,898.0	7,871.6	25.3	22.5	85.15	-134.7	470.3	411.8	365.4	46.36	8.882	
7,900.0	7,892.2	7,913.0	7,886.6	25.4	22.6	85.15	-134.7	470.3	411.8	365.3	46.46	8.863	
7,980.0	7,972.2	7,993.0	7,966.6	25.7	22.8	85.15	-134.7	470.3	411.8	364.8	47.01	8.760	
8,000.0	7,992.2	8,013.0	7,986.6	25.7	22.9	85.15	-134.7	470.3	411.8	364.6	47.14	8.735	
8,075.0	8,067.2	8,088.0	8,061.6	26.0	23.1	85.15	-134.7	470.3	411.8	364.1	47.65	8.641	
8,100.0	8,092.2	8,113.0	8,086.6	26.1	23.2	85.15	-134.7	470.3	411.8	364.0	47.82	8.611	
8,170.0	8,162.2	8,183.0	8,156.6	26.3	23.4	85.15	-134.7	470.3	411.8	363.5	48.30	8.526	
8,200.0	8,192.2	8,213.0	8,186.6	26.4	23.5	85.15	-134.7	470.3	411.8	363.3	48.50	8.490	
8,265.0	8,257.2	8,278.0	8,251.6	26.7	23.7	85.15	-134.7	470.3	411.8	362.8	48.95	8.413	
8,300.0	8,292.2	8,313.0	8,286.6	26.8	23.9	85.15	-134.7	470.3	411.8	362.6	49.19	8.372	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
8,360.0	8,352.2	8,373.0	8,346.6	27.0	24.1	85.15	-134.7	470.3	411.8	362.2	49.60	8.303	
8,400.0	8,392.2	8,413.0	8,386.6	27.1	24.2	85.15	-134.7	470.3	411.8	361.9	49.87	8.257	
8,455.0	8,447.2	8,468.0	8,441.6	27.3	24.4	85.15	-134.7	470.3	411.8	361.5	50.25	8.195	
8,500.0	8,492.2	8,513.0	8,486.6	27.5	24.5	85.15	-134.7	470.3	411.8	361.2	50.56	8.145	
8,550.0	8,542.2	8,563.0	8,536.6	27.7	24.7	85.15	-134.7	470.3	411.8	360.9	50.90	8.090	
8,600.0	8,592.2	8,613.0	8,586.6	27.8	24.8	85.15	-134.7	470.3	411.8	360.5	51.24	8.036	
8,645.0	8,637.2	8,658.0	8,631.6	28.0	25.0	85.15	-134.7	470.3	411.8	360.2	51.55	7.988	
8,645.6	8,637.8	8,658.5	8,632.2	28.0	25.0	85.15	-134.7	470.3	411.8	360.2	51.55	7.988	
8,700.0	8,692.2	8,711.4	8,685.0	28.2	25.1	85.07	-134.2	470.3	411.8	360.0	51.87	7.940	
8,740.0	8,732.2	8,748.5	8,722.0	28.3	25.1	84.63	-131.0	470.3	412.1	360.1	52.02	7.922	
8,800.0	8,792.2	8,802.7	8,775.3	28.5	25.1	83.28	-121.2	470.2	413.2	361.0	52.27	7.907 SF	
8,835.0	8,827.2	8,833.1	8,804.6	28.7	25.2	82.16	-113.1	470.2	414.4	362.0	52.41	7.908	
8,900.0	8,892.2	8,886.4	8,854.4	28.9	25.2	79.62	-94.4	470.1	418.2	365.5	52.65	7.943	
8,930.0	8,922.2	8,909.4	8,875.3	29.0	25.2	78.31	-84.7	470.1	420.8	368.1	52.73	7.980	
9,000.0	8,992.2	8,959.0	8,918.4	29.2	25.3	75.09	-60.3	470.0	429.7	376.9	52.82	8.135	
9,025.0	9,017.2	8,975.0	8,931.8	29.3	25.3	73.94	-51.5	469.9	434.0	381.2	52.80	8.219	
9,100.0	9,092.2	9,019.9	8,967.6	29.6	25.3	70.51	-24.5	469.8	450.7	398.2	52.56	8.576	
9,120.0	9,112.2	9,030.7	8,975.9	29.7	25.3	69.64	-17.5	469.8	456.2	403.8	52.44	8.700	
9,200.0	9,192.2	9,070.1	9,004.6	30.0	25.3	66.38	9.6	469.7	482.8	431.0	51.74	9.330	
9,215.0	9,207.2	9,075.0	9,007.9	30.0	25.4	65.97	13.1	469.7	488.6	437.0	51.54	9.480	
9,300.0	9,292.2	9,111.5	9,032.1	30.3	25.4	62.85	40.5	469.6	525.9	475.5	50.49	10.417	
9,310.0	9,302.2	9,115.2	9,034.4	30.3	25.4	62.54	43.3	469.5	530.8	480.5	50.35	10.543	
9,400.0	9,392.2	9,150.0	9,055.2	30.7	25.4	59.55	71.2	469.4	579.1	530.0	49.11	11.793	
9,405.0	9,397.2	9,150.0	9,055.2	30.7	25.4	59.55	71.2	469.4	582.0	533.0	49.00	11.878	
9,500.0	9,492.2	9,175.0	9,068.9	31.0	25.4	57.41	92.1	469.3	640.7	593.2	47.53	13.479	
9,595.0	9,587.2	9,200.0	9,081.5	31.3	25.4	55.31	113.7	469.2	705.6	659.3	46.26	15.251	
9,600.0	9,592.2	9,200.0	9,081.5	31.4	25.4	55.31	113.7	469.2	709.1	663.0	46.18	15.358	
9,690.0	9,682.2	9,216.2	9,089.0	31.7	25.4	53.97	128.1	469.2	775.4	730.4	45.04	17.215	
9,700.0	9,692.2	9,225.0	9,092.9	31.7	25.4	53.25	136.0	469.1	783.1	738.0	45.07	17.377	
9,785.0	9,777.2	9,232.9	9,096.3	32.0	25.5	52.61	143.1	469.1	849.3	805.2	44.07	19.272	
9,800.0	9,792.2	9,235.3	9,097.3	32.1	25.5	52.42	145.3	469.1	861.2	817.3	43.93	19.605	
9,880.0	9,872.2	9,250.0	9,103.1	32.4	25.5	51.25	158.8	469.0	926.3	883.0	43.31	21.388	
9,900.0	9,892.2	9,250.0	9,103.1	32.4	25.5	51.25	158.8	469.0	942.9	899.7	43.11	21.869	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8960-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3					
1.0	1.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3					
36.3	36.3	30.7	30.7	3.0	3.0	67.55	251.1	94.3	268.2	262.2	6.00	44.701		
95.0	95.0	89.4	89.4	3.0	3.0	67.59	251.1	94.3	268.1	262.1	6.00	44.685		
101.0	101.0	95.4	95.4	3.0	3.0	67.60	251.1	94.3	268.1	262.1	6.00	44.683		
126.0	126.0	120.4	120.4	3.0	3.0	84.01	251.1	94.3	268.1	262.1	6.00	44.671		
151.0	151.0	145.4	145.4	3.0	3.0	76.42	251.1	94.3	268.1	262.0	6.00	44.657		
176.0	176.0	170.4	170.4	3.0	3.0	67.15	251.1	94.3	268.0	262.0	6.00	44.636		
190.0	190.0	184.4	184.4	3.0	3.0	59.43	251.1	94.3	267.9	261.9	6.01	44.619		
201.0	201.0	195.4	195.4	3.0	3.0	55.53	251.1	94.3	267.9	261.9	6.01	44.601		
226.0	226.0	220.4	220.4	3.0	3.0	45.69	251.1	94.3	267.7	261.7	6.01	44.553		
251.0	251.0	245.4	245.4	3.0	3.0	40.08	251.1	94.3	267.5	261.5	6.01	44.495		
276.0	276.0	270.4	270.4	3.0	3.0	50.07	251.1	94.3	267.3	261.3	6.02	44.432		
285.0	285.0	279.4	279.4	3.0	3.0	52.78	251.1	94.3	267.3	261.2	6.02	44.410		
301.0	301.0	295.4	295.4	3.0	3.0	56.98	251.1	94.3	267.1	261.1	6.02	44.369		
326.0	326.0	320.4	320.4	3.0	3.0	65.13	251.1	94.3	267.0	261.0	6.03	44.307		
351.0	351.0	345.4	345.4	3.0	3.0	70.98	251.1	94.3	266.8	260.8	6.03	44.247		
376.0	376.0	370.4	370.4	3.0	3.0	72.72	251.1	94.3	266.7	260.7	6.04	44.188		
380.0	380.0	374.4	374.4	3.0	3.0	71.97	251.1	94.3	266.7	260.7	6.04	44.178		
401.0	401.0	395.4	395.4	3.0	3.0	67.90	251.1	94.3	266.6	260.6	6.04	44.124		
426.0	426.0	420.4	420.4	3.0	3.0	72.32	251.1	94.3	266.5	260.4	6.05	44.056		
451.0	451.0	445.4	445.4	3.0	3.0	76.15	251.1	94.3	266.4	260.3	6.05	43.989		
475.0	475.0	469.4	469.4	3.0	3.0	86.83	251.1	94.3	266.3	260.2	6.06	43.932		
476.0	476.0	470.4	470.4	3.0	3.0	87.26	251.1	94.3	266.3	260.2	6.06	43.930		
501.0	501.0	495.4	495.4	3.1	3.1	85.71	251.1	94.3	266.3	260.2	6.07	43.874		
526.0	526.0	520.4	520.4	3.1	3.1	89.76	251.1	94.3	266.3	260.2	6.08	43.817		
527.1	527.1	521.5	521.5	3.1	3.1	89.76	251.1	94.3	266.3	260.2	6.08	43.815		
551.0	551.0	545.4	545.4	3.1	3.1	95.28	251.1	94.3	266.3	260.2	6.08	43.765		
570.0	570.0	564.4	564.4	3.1	3.1	100.10	251.1	94.3	266.3	260.2	6.09	43.729		
576.0	576.0	570.4	570.4	3.1	3.1	101.66	251.1	94.3	266.3	260.2	6.09	43.719		
601.0	601.0	595.4	595.4	3.1	3.1	105.03	251.1	94.3	266.4	260.3	6.10	43.677		
626.0	625.9	620.3	620.3	3.1	3.1	113.44	251.1	94.3	266.6	260.5	6.11	43.640		
651.0	650.9	645.3	645.3	3.1	3.1	110.14	251.1	94.3	266.7	260.6	6.12	43.601		
665.0	664.9	659.3	659.3	3.1	3.1	113.31	251.1	94.3	266.8	260.7	6.12	43.577		
676.0	675.9	670.3	670.3	3.1	3.1	115.67	251.1	94.3	266.9	260.8	6.13	43.560		
701.0	700.9	695.3	695.3	3.1	3.1	122.08	251.1	94.3	267.1	260.9	6.14	43.523		
726.0	725.9	720.3	720.3	3.1	3.1	132.41	251.1	94.3	267.3	261.2	6.15	43.494		
751.0	750.9	745.3	745.3	3.1	3.1	139.87	251.1	94.3	267.6	261.5	6.16	43.472		
760.0	759.9	754.3	754.3	3.1	3.1	137.65	251.1	94.3	267.8	261.6	6.16	43.464		
776.0	775.9	770.3	770.3	3.1	3.1	133.94	251.1	94.3	268.0	261.8	6.17	43.449		
801.0	800.9	795.3	795.3	3.1	3.2	138.02	251.1	94.3	268.3	262.2	6.18	43.426		
826.0	825.9	820.3	820.3	3.1	3.2	146.52	251.1	94.3	268.7	262.5	6.19	43.407		
851.0	850.9	845.3	845.3	3.1	3.2	135.00	251.1	94.3	269.1	262.9	6.20	43.382		
855.0	854.9	849.3	849.3	3.1	3.2	136.26	251.1	94.3	269.2	263.0	6.21	43.377		
876.0	875.9	870.3	870.3	3.2	3.2	142.88	251.1	94.3	269.5	263.3	6.22	43.353		
901.0	900.9	895.3	895.3	3.2	3.2	145.31	251.1	94.3	269.9	263.7	6.23	43.323		
926.0	925.9	920.3	920.3	3.2	3.2	138.72	251.1	94.3	270.2	264.0	6.24	43.280		
950.0	949.9	944.3	944.3	3.2	3.2	132.91	251.1	94.3	270.5	264.2	6.26	43.222		
1,000.0	999.9	994.3	994.3	3.2	3.2	133.00	251.1	94.3	270.9	264.6	6.28	43.100		
1,045.0	1,044.9	1,039.3	1,039.3	3.2	3.3	133.09	251.1	94.3	271.3	264.9	6.31	42.954		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
1,054.0	1,053.9	1,048.3	1,048.3	3.2	3.3	133.10	251.1	94.3	271.3	265.0	6.32	42.924	
1,100.0	1,099.9	1,094.3	1,094.3	3.2	3.3	133.19	251.1	94.3	271.7	265.4	6.36	42.705	
1,140.0	1,139.9	1,134.3	1,134.3	3.3	3.3	133.27	251.1	94.3	272.0	265.6	6.41	42.462	
1,154.0	1,153.9	1,148.3	1,148.3	3.3	3.3	133.29	251.1	94.3	272.2	265.7	6.42	42.374	
1,200.0	1,199.9	1,194.3	1,194.3	3.3	3.3	133.37	251.1	94.3	272.5	266.0	6.48	42.022	
1,235.0	1,234.9	1,229.3	1,229.3	3.3	3.4	133.40	251.1	94.3	272.6	266.1	6.54	41.663	
1,294.0	1,293.9	1,288.3	1,288.3	3.4	3.4	23.46	251.1	94.3	272.8	266.1	6.65	40.997	
1,300.0	1,299.9	1,294.3	1,294.3	3.4	3.4	23.46	251.1	94.3	272.8	266.1	6.66	40.933	
1,330.0	1,329.9	1,324.3	1,324.3	3.5	3.4	23.46	251.1	94.3	272.8	266.0	6.73	40.547	
1,400.0	1,399.9	1,394.3	1,394.3	3.6	3.5	23.46	251.1	94.3	272.8	265.9	6.88	39.627	
1,425.0	1,424.9	1,419.3	1,419.3	3.6	3.5	23.46	251.1	94.3	272.8	265.8	6.96	39.188	
1,500.0	1,499.9	1,494.3	1,494.3	3.8	3.5	23.46	251.1	94.3	272.8	265.6	7.20	37.907	
1,520.0	1,519.9	1,514.3	1,514.3	3.8	3.6	23.46	251.1	94.3	272.8	265.5	7.26	37.577	
1,600.0	1,599.9	1,594.3	1,594.3	4.0	3.6	23.46	251.1	94.3	272.8	265.2	7.53	36.235	
1,615.0	1,614.9	1,609.3	1,609.3	4.1	3.6	23.46	251.1	94.3	272.8	265.2	7.58	35.993	
1,700.0	1,699.9	1,694.3	1,694.3	4.3	3.7	23.46	251.1	94.3	272.8	264.9	7.88	34.631	
1,710.0	1,709.9	1,704.3	1,704.3	4.3	3.7	23.46	251.1	94.3	272.8	264.8	7.91	34.476	
1,800.0	1,799.9	1,794.3	1,794.3	4.6	3.8	23.46	251.1	94.3	272.8	264.5	8.24	33.107	
1,805.0	1,804.9	1,799.3	1,799.3	4.6	3.8	23.46	251.1	94.3	272.8	264.5	8.26	33.034	
1,900.0	1,899.9	1,894.3	1,894.3	4.9	3.8	23.46	251.1	94.3	272.8	264.1	8.61	31.669	
1,995.0	1,994.9	1,989.3	1,989.3	5.2	3.9	23.46	251.1	94.3	272.8	263.8	8.98	30.382	
2,000.1	2,000.0	1,994.4	1,994.4	5.2	3.9	23.46	251.1	94.3	272.8	263.8	9.00	30.314	
2,090.0	2,089.9	2,093.0	2,093.0	5.5	4.1	-133.20	249.6	93.9	272.4	262.9	9.46	28.802	
2,100.0	2,099.9	2,104.1	2,104.1	5.5	4.1	-133.25	249.3	93.8	272.2	262.7	9.52	28.611	
2,185.0	2,184.7	2,197.8	2,197.7	6.0	4.7	-133.85	244.5	92.5	270.7	260.0	10.67	25.380	
2,200.0	2,199.7	2,214.4	2,214.2	6.1	4.8	-133.99	243.4	92.1	270.3	259.5	10.81	25.014	
2,250.1	2,249.7	2,267.8	2,267.4	6.3	4.9	-134.54	239.1	91.0	268.9	257.9	11.07	24.301	
2,280.0	2,279.4	2,297.6	2,297.1	6.3	4.9	-134.87	236.6	90.3	268.2	257.0	11.18	23.996	
2,300.0	2,299.4	2,317.5	2,317.0	6.4	4.9	-135.10	234.9	89.8	267.7	256.4	11.25	23.791	
2,375.0	2,374.1	2,392.4	2,391.6	6.6	5.0	-135.95	228.6	88.0	265.8	254.3	11.55	23.020	
2,400.0	2,399.0	2,417.4	2,416.4	6.7	5.0	-136.23	226.5	87.5	265.2	253.6	11.65	22.759	
2,470.0	2,468.7	2,487.3	2,486.0	6.9	5.1	-137.04	220.7	85.8	263.6	251.6	11.98	22.005	
2,500.0	2,498.6	2,517.2	2,515.9	7.0	5.2	-137.39	218.2	85.1	262.9	250.8	12.12	21.689	
2,565.0	2,563.4	2,582.1	2,580.5	7.2	5.3	-138.15	212.7	83.6	261.4	249.0	12.43	21.022	
2,600.0	2,598.2	2,617.0	2,615.3	7.3	5.4	-138.57	209.8	82.8	260.6	248.0	12.61	20.673	
2,660.0	2,658.0	2,676.9	2,675.0	7.5	5.5	-139.28	204.8	81.4	259.3	246.4	12.91	20.091	
2,700.0	2,697.8	2,716.9	2,714.8	7.6	5.5	-139.76	201.4	80.5	258.5	245.4	13.11	19.714	
2,755.0	2,752.6	2,771.8	2,769.5	7.8	5.7	-140.43	196.8	79.2	257.4	244.0	13.40	19.210	
2,800.0	2,797.5	2,816.7	2,814.2	7.9	5.8	-140.98	193.0	78.1	256.5	242.9	13.64	18.811	
2,850.0	2,847.3	2,866.6	2,863.9	8.1	5.9	-141.60	188.8	77.0	255.5	241.6	13.90	18.381	
2,900.0	2,897.1	2,916.5	2,913.7	8.3	6.0	-142.22	184.6	75.8	254.6	240.4	14.17	17.965	
2,945.0	2,941.9	2,961.4	2,958.4	8.4	6.1	-142.78	180.9	74.7	253.8	239.4	14.42	17.602	
3,000.0	2,996.7	3,016.4	3,013.1	8.6	6.2	-143.47	176.3	73.5	252.8	238.1	14.72	17.175	
3,040.0	3,036.6	3,056.3	3,052.9	8.7	6.3	-143.98	172.9	72.5	252.2	237.2	14.95	16.872	
3,100.0	3,096.3	3,116.2	3,112.6	8.9	6.5	-144.74	167.9	71.1	251.2	235.9	15.28	16.437	
3,135.0	3,131.2	3,151.1	3,147.4	9.1	6.6	-145.19	164.9	70.3	250.6	235.2	15.48	16.190	
3,200.0	3,195.9	3,216.0	3,212.0	9.3	6.7	-146.02	159.5	68.8	249.7	233.8	15.85	15.749	
3,230.0	3,225.8	3,246.0	3,241.9	9.4	6.8	-146.41	157.0	68.1	249.2	233.2	16.03	15.552	
3,300.0	3,295.6	3,315.8	3,311.5	9.6	7.0	-147.33	151.1	66.5	248.3	231.8	16.43	15.109	
3,325.0	3,320.5	3,340.8	3,336.3	9.7	7.1	-147.65	149.0	65.9	247.9	231.4	16.58	14.955	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)				
3,400.0	3,395.2	3,415.7	3,410.9	10.0	7.3	-148.64	142.7	64.1	247.0	230.0	17.02	14.513		
3,420.0	3,415.1	3,435.6	3,430.8	10.0	7.4	-148.91	141.0	63.7	246.8	229.6	17.14	14.399		
3,500.0	3,494.8	3,515.5	3,510.4	10.3	7.6	-149.97	134.3	61.8	245.9	228.2	17.61	13.960		
3,515.0	3,509.7	3,530.5	3,525.3	10.3	7.6	-150.17	133.1	61.4	245.7	228.0	17.70	13.880		
3,600.0	3,594.4	3,615.3	3,609.8	10.6	7.9	-151.31	126.0	59.5	244.9	226.6	18.21	13.445		
3,610.0	3,604.4	3,625.3	3,619.8	10.7	7.9	-151.44	125.1	59.2	244.8	226.5	18.27	13.395		
3,700.0	3,694.0	3,715.2	3,709.3	11.0	8.2	-152.66	117.6	57.1	244.0	225.2	18.82	12.966		
3,705.0	3,699.0	3,720.2	3,714.2	11.0	8.2	-152.73	117.2	57.0	244.0	225.1	18.85	12.943		
3,800.0	3,793.7	3,815.0	3,808.7	11.3	8.5	-154.02	109.2	54.8	243.3	223.8	19.43	12.522		
3,895.0	3,888.3	3,909.8	3,903.2	11.7	8.8	-155.31	101.2	52.6	242.7	222.7	20.01	12.128		
3,900.0	3,893.3	3,914.8	3,908.2	11.7	8.8	-155.38	100.8	52.5	242.7	222.6	20.04	12.108		
3,990.0	3,982.9	4,004.7	3,997.7	12.0	9.1	-156.62	93.3	50.4	242.3	221.7	20.60	11.759		
4,007.7	4,000.6	4,022.4	4,015.3	12.1	9.1	-156.86	91.8	49.9	242.2	221.5	20.71	11.693		
4,085.0	4,077.6	4,099.5	4,092.2	12.3	9.4	-157.87	85.3	48.1	241.5	220.3	21.19	11.393		
4,100.0	4,092.6	4,114.5	4,107.1	12.4	9.4	-158.06	84.1	47.8	241.2	219.9	21.29	11.332		
4,180.0	4,172.4	4,194.4	4,186.7	12.7	9.7	-159.00	77.3	45.9	239.3	217.5	21.79	10.985		
4,200.0	4,192.4	4,214.3	4,206.5	12.7	9.8	-159.23	75.7	45.5	238.7	216.8	21.91	10.893		
4,275.0	4,267.3	4,289.2	4,281.1	13.0	10.0	-160.02	69.4	43.7	235.8	213.4	22.39	10.533		
4,300.0	4,292.3	4,314.2	4,306.0	13.1	10.1	-160.27	67.3	43.1	234.7	212.1	22.55	10.407		
4,370.0	4,362.2	4,384.0	4,375.6	13.3	10.3	-160.93	61.4	41.5	230.9	207.9	23.00	10.041		
4,400.0	4,392.2	4,413.9	4,405.4	13.4	10.4	-161.20	58.9	40.8	229.1	205.9	23.19	9.878		
4,465.0	4,457.2	4,478.7	4,469.9	13.6	10.6	-161.76	53.5	39.3	224.6	201.0	23.59	9.520		
4,507.8	4,500.0	4,521.3	4,512.4	13.8	10.8	-5.65	49.9	38.3	221.2	197.4	23.85	9.275		
4,560.0	4,552.2	4,573.4	4,564.2	13.9	11.0	-6.09	45.5	37.1	217.0	192.8	24.18	8.975		
4,600.0	4,592.2	4,613.2	4,603.9	14.1	11.1	-6.43	42.2	36.1	213.8	189.3	24.43	8.751		
4,655.0	4,647.2	4,668.0	4,658.5	14.2	11.3	-6.92	37.6	34.8	209.3	184.5	24.77	8.451		
4,700.0	4,692.2	4,712.8	4,703.2	14.4	11.4	-7.34	33.8	33.8	205.7	180.6	25.05	8.212		
4,750.0	4,742.2	4,762.7	4,752.8	14.5	11.6	-7.82	29.6	32.6	201.7	176.3	25.36	7.952		
4,800.0	4,792.2	4,812.5	4,802.4	14.7	11.8	-8.32	25.4	31.5	197.7	172.0	25.67	7.700		
4,845.0	4,837.2	4,857.3	4,847.1	14.9	11.9	-8.79	21.7	30.4	194.1	168.2	25.96	7.478		
4,900.0	4,892.2	4,912.1	4,901.6	15.0	12.1	-9.39	17.1	29.1	189.7	163.4	26.30	7.214		
4,940.0	4,932.2	4,951.9	4,941.3	15.2	12.2	-9.84	13.7	28.2	186.6	160.0	26.55	7.027		
5,000.0	4,992.2	5,011.7	5,000.9	15.4	12.4	-10.55	8.7	26.8	181.9	154.9	26.93	6.754		
5,035.0	5,027.2	5,046.6	5,035.6	15.5	12.6	-10.98	5.8	26.0	179.1	152.0	27.15	6.598		
5,100.0	5,092.2	5,111.3	5,100.1	15.7	12.8	-11.81	0.4	24.5	174.1	146.5	27.56	6.317		
5,130.0	5,122.2	5,141.2	5,129.9	15.8	12.9	-12.21	-2.2	23.8	171.8	144.0	27.75	6.191		
5,200.0	5,192.2	5,210.9	5,199.4	16.1	13.1	-13.19	-8.0	22.2	166.4	138.2	28.19	5.903		
5,225.0	5,217.2	5,235.9	5,224.2	16.1	13.2	-13.55	-10.1	21.6	164.5	136.1	28.34	5.803		
5,300.0	5,292.2	5,310.6	5,298.6	16.4	13.5	-14.70	-16.4	19.8	158.8	130.0	28.81	5.511		
5,320.0	5,312.2	5,330.5	5,318.4	16.5	13.5	-15.02	-18.0	19.4	157.3	128.4	28.94	5.435		
5,400.0	5,392.2	5,410.2	5,397.8	16.7	13.8	-16.36	-24.7	17.5	151.3	121.9	29.44	5.140		
5,415.0	5,407.2	5,425.1	5,412.7	16.8	13.9	-16.62	-26.0	17.1	150.2	120.7	29.54	5.086		
5,500.0	5,492.2	5,509.8	5,497.1	17.1	14.2	-18.19	-33.1	15.2	144.0	113.9	30.07	4.789		
5,510.0	5,502.2	5,519.8	5,507.0	17.1	14.2	-18.38	-33.9	14.9	143.3	113.1	30.13	4.755		
5,600.0	5,592.2	5,609.4	5,596.3	17.4	14.5	-20.22	-41.5	12.8	136.8	106.1	30.69	4.458		
5,605.0	5,597.2	5,614.4	5,601.3	17.4	14.5	-20.32	-41.9	12.7	136.5	105.7	30.73	4.442		
5,700.0	5,692.2	5,709.0	5,695.6	17.7	14.9	-22.46	-49.8	10.5	129.8	98.5	31.32	4.146		
5,795.0	5,787.2	5,803.7	5,789.8	18.1	15.2	-24.83	-57.8	8.3	123.4	91.5	31.91	3.867		
5,800.0	5,792.2	5,808.7	5,794.8	18.1	15.2	-24.96	-58.2	8.2	123.1	91.1	31.95	3.853		
5,890.0	5,882.2	5,898.3	5,884.1	18.4	15.5	-27.44	-65.7	6.1	117.2	84.7	32.51	3.606		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,900.0	5,892.2	5,908.3	5,894.0	18.4	15.6	-27.74	-66.6	5.9	116.6	84.0	32.57	3.579	
5,985.0	5,977.2	5,993.0	5,978.4	18.7	15.9	-30.35	-73.7	3.9	111.3	78.2	33.11	3.362	
6,000.0	5,992.2	6,007.9	5,993.3	18.8	15.9	-30.83	-74.9	3.5	110.4	77.2	33.20	3.325	
6,080.0	6,072.2	6,087.6	6,072.7	19.0	16.2	-33.57	-81.6	1.7	105.7	72.0	33.71	3.135	
6,100.0	6,092.2	6,107.5	6,092.5	19.1	16.3	-34.29	-83.3	1.2	104.6	70.7	33.84	3.090	
6,175.0	6,167.2	6,182.2	6,167.0	19.4	16.5	-37.13	-89.6	-0.6	100.5	66.1	34.32	2.927	
6,200.0	6,192.2	6,207.1	6,191.8	19.5	16.6	-38.13	-91.7	-1.1	99.1	64.7	34.48	2.875	
6,270.0	6,262.2	6,276.9	6,261.2	19.7	16.9	-41.07	-97.5	-2.8	95.6	60.7	34.94	2.737	
6,300.0	6,292.2	6,306.8	6,291.0	19.8	17.0	-42.39	-100.0	-3.5	94.2	59.1	35.14	2.681	
6,365.0	6,357.2	6,371.5	6,355.5	20.0	17.2	-45.40	-105.5	-5.0	91.3	55.8	35.58	2.567	
6,400.0	6,392.2	6,406.4	6,390.2	20.2	17.3	-47.09	-108.4	-5.8	89.9	54.1	35.82	2.510	
6,460.0	6,452.2	6,466.2	6,449.8	20.4	17.5	-50.12	-113.4	-7.2	87.6	51.4	36.24	2.417	
6,500.0	6,492.2	6,506.0	6,489.5	20.5	17.7	-52.22	-116.7	-8.1	86.2	49.7	36.53	2.360	
6,555.0	6,547.2	6,560.7	6,544.0	20.7	17.9	-55.18	-121.3	-9.4	84.5	47.6	36.93	2.289	
6,600.0	6,592.2	6,605.3	6,588.5	20.8	18.0	-57.47	-124.7	-10.3	83.4	46.2	37.26	2.239	
6,650.0	6,642.2	6,655.0	6,638.0	21.0	18.2	-59.81	-128.1	-11.3	82.5	44.8	37.64	2.191	
6,700.0	6,692.2	6,704.7	6,687.7	21.2	18.3	-61.91	-131.1	-12.1	81.7	43.7	38.01	2.150	
6,745.0	6,737.2	6,749.5	6,732.4	21.3	18.5	-63.58	-133.4	-12.8	81.2	42.9	38.35	2.119	
6,800.0	6,792.2	6,804.4	6,787.2	21.5	18.7	-65.30	-135.8	-13.4	80.8	42.1	38.76	2.085	
6,840.0	6,832.2	6,844.2	6,827.0	21.7	18.8	-66.34	-137.2	-13.8	80.6	41.5	39.06	2.063	
6,900.0	6,892.2	6,904.1	6,886.9	21.9	19.0	-67.54	-138.8	-14.3	80.4	40.9	39.50	2.035	
6,935.0	6,927.2	6,939.0	6,921.8	22.0	19.2	-68.03	-139.5	-14.5	80.3	40.5	39.75	2.020	
7,000.0	6,992.2	7,003.9	6,986.7	22.2	19.4	-68.55	-140.2	-14.7	80.2	40.0	40.21	1.995 Advise and Monitor	
7,030.0	7,022.2	7,033.9	7,016.6	22.3	19.5	-68.62	-140.3	-14.7	80.2	39.8	40.41	1.985 Advise and Monitor	
7,054.2	7,046.4	7,058.1	7,040.8	22.4	19.6	-68.62	-140.3	-14.7	80.2	39.6	40.57	1.977 Advise and Monitor	
7,100.0	7,092.2	7,103.9	7,086.6	22.6	19.7	-68.62	-140.3	-14.7	80.2	39.3	40.87	1.962 Advise and Monitor	
7,125.0	7,117.2	7,128.9	7,111.6	22.7	19.8	-68.62	-140.3	-14.7	80.2	39.2	41.03	1.955 Advise and Monitor	
7,200.0	7,192.2	7,203.9	7,186.6	22.9	20.0	-68.62	-140.3	-14.7	80.2	38.7	41.52	1.931 Advise and Monitor	
7,220.0	7,212.2	7,223.9	7,206.6	23.0	20.1	-68.62	-140.3	-14.7	80.2	38.5	41.65	1.925 Advise and Monitor	
7,300.0	7,292.2	7,303.9	7,286.6	23.3	20.3	-68.62	-140.3	-14.7	80.2	38.0	42.18	1.901 Advise and Monitor	
7,315.0	7,307.2	7,318.9	7,301.6	23.3	20.4	-68.62	-140.3	-14.7	80.2	37.9	42.28	1.897 Advise and Monitor	
7,400.0	7,392.2	7,403.9	7,386.6	23.6	20.6	-68.62	-140.3	-14.7	80.2	37.4	42.84	1.872 Advise and Monitor	
7,410.0	7,402.2	7,413.9	7,396.6	23.7	20.7	-68.62	-140.3	-14.7	80.2	37.3	42.90	1.869 Advise and Monitor	
7,500.0	7,492.2	7,503.9	7,486.6	24.0	20.9	-68.62	-140.3	-14.7	80.2	36.7	43.50	1.844 Advise and Monitor	
7,505.0	7,497.2	7,508.9	7,491.6	24.0	21.0	-68.62	-140.3	-14.7	80.2	36.7	43.53	1.842 Advise and Monitor	
7,600.0	7,592.2	7,603.9	7,586.6	24.3	21.3	-68.62	-140.3	-14.7	80.2	36.0	44.16	1.816 Advise and Monitor	
7,695.0	7,687.2	7,698.9	7,681.6	24.7	21.6	-68.62	-140.3	-14.7	80.2	35.4	44.79	1.790 Advise and Monitor	
7,700.0	7,692.2	7,703.9	7,686.6	24.7	21.6	-68.62	-140.3	-14.7	80.2	35.4	44.82	1.789 Advise and Monitor	
7,790.0	7,782.2	7,793.9	7,776.6	25.0	21.9	-68.62	-140.3	-14.7	80.2	34.8	45.42	1.766 Advise and Monitor	
7,800.0	7,792.2	7,803.9	7,786.6	25.0	21.9	-68.62	-140.3	-14.7	80.2	34.7	45.49	1.763 Advise and Monitor	
7,885.0	7,877.2	7,888.9	7,871.6	25.3	22.2	-68.62	-140.3	-14.7	80.2	34.1	46.06	1.741 Advise and Monitor	
7,900.0	7,892.2	7,903.9	7,886.6	25.4	22.2	-68.62	-140.3	-14.7	80.2	34.0	46.16	1.737 Advise and Monitor	
7,980.0	7,972.2	7,983.9	7,966.6	25.7	22.5	-68.62	-140.3	-14.7	80.2	33.5	46.69	1.718 Advise and Monitor	
8,000.0	7,992.2	8,003.9	7,986.6	25.7	22.5	-68.62	-140.3	-14.7	80.2	33.4	46.83	1.713 Advise and Monitor	
8,075.0	8,067.2	8,078.9	8,061.6	26.0	22.8	-68.62	-140.3	-14.7	80.2	32.9	47.33	1.694 Advise and Monitor	
8,100.0	8,092.2	8,103.9	8,086.6	26.1	22.9	-68.62	-140.3	-14.7	80.2	32.7	47.50	1.688 Advise and Monitor	
8,170.0	8,162.2	8,173.9	8,156.6	26.3	23.1	-68.62	-140.3	-14.7	80.2	32.2	47.97	1.672 Advise and Monitor	
8,200.0	8,192.2	8,203.9	8,186.6	26.4	23.2	-68.62	-140.3	-14.7	80.2	32.0	48.17	1.665 Advise and Monitor	
8,265.0	8,257.2	8,268.9	8,251.6	26.7	23.4	-68.62	-140.3	-14.7	80.2	31.6	48.61	1.650 Advise and Monitor	
8,300.0	8,292.2	8,303.9	8,286.6	26.8	23.5	-68.62	-140.3	-14.7	80.2	31.4	48.84	1.642 Advise and Monitor	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
8,360.0	8,352.2	8,363.9	8,346.6	27.0	23.7	-68.62	-140.3	-14.7	80.2	31.0	49.25	1.628	Advise and Monitor
8,400.0	8,392.2	8,403.9	8,386.6	27.1	23.9	-68.62	-140.3	-14.7	80.2	30.7	49.52	1.620	Advise and Monitor
8,455.0	8,447.2	8,458.9	8,441.6	27.3	24.0	-68.62	-140.3	-14.7	80.2	30.3	49.89	1.608	Advise and Monitor
8,500.0	8,492.2	8,503.9	8,486.6	27.5	24.2	-68.62	-140.3	-14.7	80.2	30.0	50.19	1.598	Advise and Monitor
8,550.0	8,542.2	8,553.9	8,536.6	27.7	24.3	-68.62	-140.3	-14.7	80.2	29.7	50.53	1.587	Advise and Monitor
8,600.0	8,592.2	8,603.9	8,586.6	27.8	24.5	-68.62	-140.3	-14.7	80.2	29.3	50.87	1.577	Advise and Monitor
8,645.0	8,637.2	8,648.9	8,631.6	28.0	24.7	-68.62	-140.3	-14.7	80.2	29.0	51.17	1.567	Advise and Monitor
8,700.0	8,692.2	8,703.9	8,686.6	28.2	24.8	-68.62	-140.3	-14.7	80.2	28.7	51.55	1.556	Advise and Monitor
8,740.0	8,732.2	8,743.9	8,726.6	28.3	25.0	-68.62	-140.3	-14.7	80.2	28.4	51.82	1.548	Advise and Monitor
8,800.0	8,792.2	8,803.9	8,786.6	28.5	25.2	-68.62	-140.3	-14.7	80.2	28.0	52.23	1.536	Advise and Monitor
8,835.0	8,827.2	8,838.9	8,821.6	28.7	25.3	-68.62	-140.3	-14.7	80.2	27.7	52.46	1.529	Advise and Monitor
8,900.0	8,892.2	8,903.9	8,886.6	28.9	25.5	-68.62	-140.3	-14.7	80.2	27.3	52.91	1.516	Advise and Monitor
8,930.0	8,922.2	8,933.9	8,916.6	29.0	25.6	-68.62	-140.3	-14.7	80.2	27.1	53.11	1.510	Advise and Monitor
8,932.5	8,924.7	8,936.3	8,919.1	29.0	25.6	-68.62	-140.3	-14.7	80.2	27.1	53.13	1.510	Advise and Monitor, CC, ES, SF
9,000.0	8,992.2	9,001.2	8,983.9	29.2	25.7	-67.44	-138.5	-14.7	80.9	27.5	53.41	1.515	Advise and Monitor
9,025.0	9,017.2	9,025.0	9,007.5	29.3	25.7	-65.73	-135.9	-14.7	82.0	28.6	53.43	1.536	Advise and Monitor
9,100.0	9,092.2	9,092.0	9,073.1	29.6	25.7	-57.61	-122.1	-14.8	89.6	36.4	53.14	1.685	Advise and Monitor
9,120.0	9,112.2	9,109.3	9,089.6	29.7	25.7	-54.96	-117.1	-14.8	92.9	39.9	52.97	1.754	Advise and Monitor
9,200.0	9,192.2	9,175.0	9,150.5	30.0	25.8	-44.23	-92.6	-14.9	113.3	61.4	51.89	2.183	
9,215.0	9,207.2	9,185.4	9,159.8	30.0	25.8	-42.57	-88.0	-14.9	118.4	66.9	51.50	2.298	
9,300.0	9,292.2	9,244.5	9,210.7	30.3	25.8	-33.91	-57.9	-15.0	154.5	104.9	49.59	3.115	
9,310.0	9,302.2	9,250.0	9,215.2	30.3	25.8	-33.19	-54.8	-15.0	159.5	110.2	49.26	3.237	
9,400.0	9,392.2	9,300.0	9,254.7	30.7	25.8	-27.34	-24.1	-15.2	210.3	163.2	47.00	4.473	
9,405.0	9,397.2	9,305.9	9,259.1	30.7	25.8	-26.74	-20.3	-15.2	213.3	166.1	47.19	4.521	
9,500.0	9,492.2	9,350.0	9,290.7	31.0	25.8	-22.71	10.5	-15.3	276.5	231.3	45.19	6.118	
9,595.0	9,587.2	9,389.6	9,316.6	31.3	25.9	-19.77	40.4	-15.5	346.4	302.6	43.80	7.909	
9,600.0	9,592.2	9,391.4	9,317.7	31.4	25.9	-19.65	41.8	-15.5	350.3	306.5	43.73	8.009	
9,690.0	9,682.2	9,425.0	9,337.6	31.7	25.9	-17.58	69.0	-15.6	421.4	378.6	42.82	9.841	
9,700.0	9,692.2	9,425.0	9,337.6	31.7	25.9	-17.58	69.0	-15.6	429.5	386.9	42.56	10.091	
9,785.0	9,777.2	9,450.0	9,351.0	32.0	25.9	-16.26	90.0	-15.7	500.0	458.1	41.83	11.951	
9,800.0	9,792.2	9,450.0	9,351.0	32.1	25.9	-16.26	90.0	-15.7	512.7	471.1	41.56	12.335	
9,880.0	9,872.2	9,475.0	9,363.4	32.4	25.9	-15.08	111.7	-15.8	581.4	540.2	41.25	14.096	
9,900.0	9,892.2	9,475.0	9,363.4	32.4	25.9	-15.08	111.7	-15.8	598.8	557.8	40.99	14.610	
9,975.0	9,967.2	9,489.4	9,370.0	32.7	25.9	-14.46	124.5	-15.8	665.0	624.4	40.61	16.375	
10,000.0	9,992.2	9,500.0	9,374.6	32.8	25.9	-14.03	134.1	-15.9	687.4	646.7	40.68	16.897	
10,070.0	10,062.2	9,500.0	9,374.6	33.0	25.9	-14.03	134.1	-15.9	750.4	710.2	40.14	18.694	
10,100.0	10,092.2	9,510.6	9,379.1	33.1	25.9	-13.62	143.7	-15.9	777.5	737.3	40.20	19.339	
10,165.0	10,157.2	9,525.0	9,384.7	33.3	25.9	-13.10	156.9	-16.0	837.0	796.9	40.12	20.860	
10,196.3	10,188.5	9,525.0	9,384.7	33.3	25.9	-13.10	156.9	-16.0	865.8	825.8	39.96	21.665	
10,200.0	10,192.2	9,525.0	9,384.7	33.3	25.9	-10.87	156.9	-16.0	869.2	829.2	39.94	21.760	
10,225.0	10,217.2	9,525.0	9,384.7	33.3	25.9	-9.68	156.9	-16.0	892.0	852.2	39.82	22.401	
10,250.0	10,242.1	9,525.0	9,384.7	33.3	25.9	-8.72	156.9	-16.0	914.3	874.7	39.69	23.038	
10,260.0	10,252.0	9,534.1	9,388.0	33.3	25.9	-8.21	165.4	-16.0	923.0	883.2	39.80	23.194	
10,275.0	10,266.9	9,536.6	9,388.9	33.3	25.9	-7.73	167.7	-16.0	936.0	896.3	39.75	23.546	
10,300.0	10,291.4	9,541.0	9,390.5	33.3	25.9	-7.03	171.8	-16.0	957.3	917.6	39.68	24.124	
10,325.0	10,315.7	9,550.0	9,393.5	33.4	25.9	-6.40	180.3	-16.1	978.0	938.3	39.68	24.649	
10,350.0	10,339.6	9,550.0	9,393.5	33.4	25.9	-5.97	180.3	-16.1	998.0	958.5	39.52	25.253	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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		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	-90.65	-3.0	-265.0	265.1			
1.0	1.0	0.0	0.0	3.0	3.0	-90.65	-3.0	-265.0	265.1			
38.2	38.2	31.3	31.3	3.0	3.0	-43.69	-3.0	-265.0	265.0	259.0	6.00	44.165
95.0	95.0	88.1	88.1	3.0	3.0	-43.73	-3.0	-265.0	264.8	258.8	6.00	44.138
101.0	101.0	94.1	94.1	3.0	3.0	-43.73	-3.0	-265.0	264.8	258.8	6.00	44.134
126.0	126.0	119.1	119.1	3.0	3.0	-27.37	-3.0	-265.0	264.7	258.7	6.00	44.108
151.0	151.0	144.1	144.1	3.0	3.0	-35.02	-3.0	-265.0	264.5	258.5	6.00	44.076
176.0	176.0	169.1	169.1	3.0	3.0	-44.34	-3.0	-265.0	264.4	258.4	6.00	44.044
190.0	190.0	183.1	183.1	3.0	3.0	-52.10	-3.0	-265.0	264.3	258.3	6.00	44.025
201.0	201.0	194.1	194.1	3.0	3.0	-56.04	-3.0	-265.0	264.3	258.3	6.00	44.009
226.0	226.0	219.1	219.1	3.0	3.0	-65.98	-3.0	-265.0	264.1	258.1	6.01	43.976
251.0	251.0	244.1	244.1	3.0	3.0	-71.68	-3.0	-265.0	264.1	258.0	6.01	43.947
276.0	276.0	269.1	269.1	3.0	3.0	-61.79	-3.0	-265.0	263.9	257.9	6.01	43.912
285.0	285.0	278.1	278.1	3.0	3.0	-59.12	-3.0	-265.0	263.9	257.9	6.01	43.897
301.0	301.0	294.1	294.1	3.0	3.0	-54.99	-3.0	-265.0	263.8	257.8	6.01	43.867
326.0	326.0	319.1	319.1	3.0	3.0	-46.97	-3.0	-265.0	263.6	257.5	6.02	43.809
351.0	351.0	344.1	344.1	3.0	3.0	-41.24	-3.0	-265.0	263.3	257.3	6.02	43.741
376.0	376.0	369.1	369.1	3.0	3.0	-39.64	-3.0	-265.0	263.0	257.0	6.02	43.665
380.0	380.0	373.1	373.1	3.0	3.0	-40.41	-3.0	-265.0	263.0	256.9	6.02	43.652
401.0	401.0	394.1	394.1	3.0	3.0	-44.59	-3.0	-265.0	262.7	256.7	6.03	43.588
426.0	426.0	419.1	419.1	3.0	3.0	-40.30	-3.0	-265.0	262.4	256.4	6.03	43.508
451.0	451.0	444.1	444.1	3.0	3.0	-36.62	-3.0	-265.0	262.1	256.1	6.04	43.419
475.0	475.0	468.1	468.1	3.0	3.0	-26.06	-3.0	-265.0	261.8	255.7	6.04	43.327
476.0	476.0	469.1	469.1	3.0	3.0	-25.63	-3.0	-265.0	261.8	255.7	6.04	43.323
501.0	501.0	494.1	494.1	3.1	3.1	-27.31	-3.0	-265.0	261.4	255.3	6.05	43.219
526.0	526.0	519.1	519.1	3.1	3.1	-23.40	-3.0	-265.0	261.0	254.9	6.05	43.108
551.0	551.0	544.1	544.1	3.1	3.1	-18.02	-3.0	-265.0	260.6	254.5	6.06	42.988
570.0	570.0	563.1	563.1	3.1	3.1	-13.29	-3.0	-265.0	260.2	254.2	6.07	42.893
576.0	576.0	569.1	569.1	3.1	3.1	-11.75	-3.0	-265.0	260.1	254.1	6.07	42.863
601.0	601.0	594.1	594.1	3.1	3.1	-8.49	-3.0	-265.0	259.7	253.6	6.08	42.734
626.0	625.9	619.0	619.0	3.1	3.1	-0.18	-3.0	-265.0	259.2	253.2	6.09	42.604
651.0	650.9	644.0	644.0	3.1	3.1	-3.56	-3.0	-265.0	258.8	252.8	6.09	42.476
665.0	664.9	658.0	658.0	3.1	3.1	-0.43	-3.0	-265.0	258.6	252.5	6.10	42.404
676.0	675.9	669.0	669.0	3.1	3.1	1.89	-3.0	-265.0	258.5	252.4	6.10	42.347
701.0	700.9	694.0	694.0	3.1	3.1	8.23	-3.0	-265.0	258.1	251.9	6.11	42.214
726.0	725.9	719.0	719.0	3.1	3.1	18.51	-3.0	-265.0	257.6	251.5	6.12	42.079
751.0	750.9	744.0	744.0	3.1	3.1	25.95	-3.0	-265.0	257.2	251.1	6.13	41.943
760.0	759.9	753.0	753.0	3.1	3.1	23.72	-3.0	-265.0	257.1	251.0	6.14	41.894
776.0	775.9	769.0	769.0	3.1	3.1	19.99	-3.0	-265.0	256.8	250.7	6.14	41.803
801.0	800.9	794.0	794.0	3.1	3.2	24.04	-3.0	-265.0	256.4	250.2	6.15	41.656
826.0	825.9	819.0	819.0	3.1	3.2	32.53	-3.0	-265.0	255.9	249.8	6.17	41.509
851.0	850.9	844.0	844.0	3.1	3.2	20.99	-3.0	-265.0	255.5	249.3	6.18	41.360
855.0	854.9	848.0	848.0	3.1	3.2	22.25	-3.0	-265.0	255.4	249.2	6.18	41.335
876.0	875.9	869.0	869.0	3.2	3.2	28.85	-3.0	-265.0	255.0	248.8	6.19	41.206
901.0	900.9	894.0	894.0	3.2	3.2	31.28	-3.0	-265.0	254.6	248.4	6.20	41.057
926.0	925.9	919.0	919.0	3.2	3.2	24.67	-3.0	-265.0	254.2	248.0	6.21	40.914
950.0	949.9	943.0	943.0	3.2	3.2	18.84	-3.0	-265.0	253.9	247.7	6.23	40.782
1,000.0	999.9	993.0	993.0	3.2	3.2	18.88	-3.0	-265.0	253.4	247.1	6.25	40.557
1,045.0	1,044.9	1,038.0	1,038.0	3.2	3.3	18.92	-3.0	-265.0	252.8	246.6	6.27	40.330
1,054.0	1,053.9	1,047.0	1,047.0	3.2	3.3	18.93	-3.0	-265.0	252.7	246.5	6.27	40.285

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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 Between Centres (usft)		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)			
1,100.0	1,099.9	1,093.0	1,093.0	3.2	3.3	18.97	-3.0	-265.0	252.2	245.9	6.30	40.002	
1,140.0	1,139.9	1,133.0	1,133.0	3.3	3.3	19.01	-3.0	-265.0	251.7	245.4	6.34	39.706	
1,154.0	1,153.9	1,147.0	1,147.0	3.3	3.3	19.02	-3.0	-265.0	251.6	245.2	6.35	39.600	
1,200.0	1,199.9	1,193.0	1,193.0	3.3	3.3	19.05	-3.0	-265.0	251.1	244.7	6.40	39.227	
1,235.0	1,234.9	1,228.0	1,228.0	3.3	3.4	19.07	-3.0	-265.0	250.9	244.5	6.44	38.944	
1,294.0	1,293.9	1,287.0	1,287.0	3.4	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.52	38.486	
1,300.0	1,299.9	1,293.0	1,293.0	3.4	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.52	38.439	
1,330.0	1,329.9	1,323.0	1,323.0	3.5	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.57	38.158	
1,400.0	1,399.9	1,393.0	1,393.0	3.6	3.5	-90.89	-3.0	-265.0	250.8	244.1	6.69	37.482	
1,425.0	1,424.9	1,418.0	1,418.0	3.6	3.5	-90.89	-3.0	-265.0	250.8	244.0	6.75	37.172	
1,500.0	1,499.9	1,493.0	1,493.0	3.8	3.5	-90.89	-3.0	-265.0	250.8	243.8	6.92	36.223	
1,520.0	1,519.9	1,513.0	1,513.0	3.8	3.6	-90.89	-3.0	-265.0	250.8	243.8	6.97	35.967	
1,600.0	1,599.9	1,593.0	1,593.0	4.0	3.6	-90.89	-3.0	-265.0	250.8	243.6	7.18	34.936	
1,615.0	1,614.9	1,608.0	1,608.0	4.1	3.6	-90.89	-3.0	-265.0	250.8	243.5	7.22	34.743	
1,700.0	1,699.9	1,693.0	1,693.0	4.3	3.7	-90.89	-3.0	-265.0	250.8	243.3	7.45	33.651	
1,710.0	1,709.9	1,703.0	1,703.0	4.3	3.7	-90.89	-3.0	-265.0	250.8	243.3	7.48	33.524	
1,800.0	1,799.9	1,793.0	1,793.0	4.6	3.8	-90.89	-3.0	-265.0	250.8	243.0	7.74	32.391	
1,805.0	1,804.9	1,798.0	1,798.0	4.6	3.8	-90.89	-3.0	-265.0	250.8	243.0	7.76	32.329	
1,900.0	1,899.9	1,893.0	1,893.0	4.9	3.8	-90.89	-3.0	-265.0	250.8	242.7	8.05	31.169	
1,995.0	1,994.9	1,988.0	1,988.0	5.2	3.9	-90.89	-3.0	-265.0	250.8	242.4	8.34	30.051	
2,000.1	2,000.0	1,993.1	1,993.1	5.2	3.9	-90.89	-3.0	-265.0	250.8	242.4	8.36	29.992 CC, ES	
2,090.0	2,089.9	2,077.0	2,077.0	5.5	4.0	112.79	-3.5	-265.9	252.3	243.5	8.77	28.768	
2,100.0	2,099.9	2,086.3	2,086.3	5.5	4.0	112.82	-3.6	-266.1	252.7	243.9	8.82	28.652	
2,185.0	2,184.7	2,165.0	2,164.9	6.0	4.2	113.17	-5.3	-269.1	257.6	248.1	9.52	27.051	
2,200.0	2,199.7	2,178.8	2,178.7	6.1	4.2	113.24	-5.7	-269.9	258.8	249.1	9.67	26.763	
2,250.1	2,249.7	2,227.1	2,226.8	6.3	4.5	113.57	-7.3	-272.7	263.3	253.3	10.06	26.179	
2,280.0	2,279.4	2,256.8	2,256.5	6.3	4.5	113.87	-8.4	-274.5	266.2	255.9	10.24	26.006	
2,300.0	2,299.4	2,276.6	2,276.3	6.4	4.6	114.06	-9.0	-275.7	268.1	257.7	10.36	25.890	
2,375.0	2,374.1	2,351.2	2,350.7	6.6	4.7	114.76	-11.6	-280.3	275.3	264.6	10.72	25.687	
2,400.0	2,399.0	2,376.1	2,375.5	6.7	4.8	114.98	-12.4	-281.8	277.7	266.9	10.83	25.656	
2,470.0	2,468.7	2,445.7	2,444.9	6.9	4.9	115.59	-14.8	-286.0	284.5	273.4	11.14	25.536	
2,500.0	2,498.6	2,475.5	2,474.7	7.0	4.9	115.84	-15.8	-287.8	287.4	276.2	11.28	25.481	
2,565.0	2,563.4	2,540.2	2,539.2	7.2	5.0	116.37	-18.0	-291.8	293.8	282.2	11.59	25.342	
2,600.0	2,598.2	2,575.0	2,573.9	7.3	5.1	116.64	-19.2	-293.9	297.2	285.5	11.76	25.264	
2,660.0	2,658.0	2,634.6	2,633.4	7.5	5.2	117.10	-21.3	-297.5	303.1	291.0	12.07	25.117	
2,700.0	2,697.8	2,674.4	2,673.1	7.6	5.3	117.40	-22.6	-299.9	307.0	294.8	12.27	25.017	
2,755.0	2,752.6	2,729.1	2,727.6	7.8	5.4	117.79	-24.5	-303.3	312.5	299.9	12.56	24.871	
2,800.0	2,797.5	2,773.8	2,772.3	7.9	5.5	118.10	-26.0	-306.0	316.9	304.1	12.80	24.750	
2,850.0	2,847.3	2,823.5	2,821.9	8.1	5.6	118.44	-27.7	-309.0	321.9	308.8	13.08	24.612	
2,900.0	2,897.1	2,873.3	2,871.5	8.3	5.7	118.77	-29.4	-312.0	326.8	313.5	13.36	24.472	
2,945.0	2,941.9	2,918.0	2,916.1	8.4	5.9	119.05	-30.9	-314.8	331.3	317.7	13.61	24.345	
3,000.0	2,996.7	2,972.7	2,970.7	8.6	6.0	119.39	-32.8	-318.1	336.8	322.9	13.92	24.189	
3,040.0	3,036.6	3,012.5	3,010.3	8.7	6.1	119.63	-34.2	-320.5	340.8	326.6	14.15	24.076	
3,100.0	3,096.3	3,072.1	3,069.9	8.9	6.3	119.98	-36.2	-324.1	346.8	332.3	14.51	23.907	
3,135.0	3,131.2	3,106.9	3,104.6	9.1	6.3	120.18	-37.4	-326.3	350.3	335.6	14.71	23.809	
3,200.0	3,195.9	3,171.6	3,169.1	9.3	6.5	120.53	-39.6	-330.2	356.8	341.7	15.10	23.627	
3,230.0	3,225.8	3,201.4	3,198.8	9.4	6.6	120.69	-40.6	-332.0	359.8	344.6	15.28	23.545	
3,300.0	3,295.6	3,271.0	3,268.2	9.6	6.8	121.06	-43.0	-336.2	366.9	351.2	15.71	23.354	
3,325.0	3,320.5	3,295.9	3,293.0	9.7	6.9	121.19	-43.8	-337.7	369.4	353.5	15.86	23.287	
3,400.0	3,395.2	3,370.5	3,367.4	10.0	7.1	121.56	-46.4	-342.3	377.0	360.6	16.33	23.089	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,420.0	3,415.1	3,390.3	3,387.3	10.0	7.1	121.65	-47.1	-343.5	379.0	362.5	16.45	23.037	
3,500.0	3,494.8	3,469.9	3,466.6	10.3	7.4	122.03	-49.8	-348.3	387.1	370.1	16.95	22.831	
3,515.0	3,509.7	3,484.8	3,481.5	10.3	7.4	122.09	-50.3	-349.2	388.6	371.6	17.05	22.793	
3,600.0	3,594.4	3,569.3	3,565.8	10.6	7.7	122.47	-53.2	-354.4	397.2	379.6	17.59	22.583	
3,610.0	3,604.4	3,579.3	3,575.8	10.7	7.7	122.52	-53.5	-355.0	398.2	380.6	17.65	22.559	
3,700.0	3,694.0	3,668.8	3,665.0	11.0	8.0	122.90	-56.6	-360.4	407.4	389.2	18.23	22.345	
3,705.0	3,699.0	3,673.7	3,670.0	11.0	8.0	122.92	-56.7	-360.7	407.9	389.6	18.26	22.333	
3,800.0	3,793.7	3,768.2	3,764.2	11.3	8.3	123.30	-60.0	-366.5	417.6	398.7	18.88	22.117	
3,895.0	3,888.3	3,862.7	3,858.5	11.7	8.6	123.67	-63.2	-372.2	427.3	407.8	19.50	21.909	
3,900.0	3,893.3	3,867.6	3,863.4	11.7	8.6	123.69	-63.3	-372.5	427.8	408.3	19.54	21.898	
3,990.0	3,982.9	3,957.1	3,952.7	12.0	8.9	124.02	-66.4	-378.0	437.0	416.9	20.13	21.709	
4,007.7	4,000.6	3,974.8	3,970.3	12.1	8.9	124.08	-67.0	-379.0	438.8	418.6	20.25	21.673	
4,085.0	4,077.6	4,051.6	4,047.0	12.3	9.2	124.36	-69.6	-383.7	446.4	425.7	20.76	21.505	
4,100.0	4,092.6	4,066.6	4,061.9	12.4	9.2	124.40	-70.1	-384.6	447.8	427.0	20.86	21.469	
4,180.0	4,172.4	4,146.3	4,141.3	12.7	9.5	124.54	-72.9	-389.5	455.0	433.6	21.39	21.268	
4,200.0	4,192.4	4,166.2	4,161.2	12.7	9.6	124.55	-73.5	-390.7	456.7	435.2	21.53	21.214	
4,275.0	4,267.3	4,240.9	4,235.8	13.0	9.8	124.54	-76.1	-395.2	462.7	440.6	22.03	21.002	
4,300.0	4,292.3	4,265.9	4,260.7	13.1	9.9	124.52	-76.9	-396.8	464.6	442.4	22.20	20.927	
4,370.0	4,362.2	4,335.7	4,330.3	13.3	10.1	124.38	-79.3	-401.0	469.5	446.8	22.67	20.709	
4,400.0	4,392.2	4,365.6	4,360.2	13.4	10.2	124.30	-80.3	-402.8	471.4	448.6	22.87	20.611	
4,465.0	4,457.2	4,430.4	4,424.8	13.6	10.4	124.07	-82.6	-406.8	475.4	452.1	23.31	20.398	
4,507.8	4,500.0	4,473.1	4,467.4	13.8	10.6	-79.67	-84.0	-409.4	477.8	454.2	23.59	20.252	
4,560.0	4,552.2	4,525.2	4,519.4	13.9	10.8	-79.95	-85.8	-412.5	480.6	456.7	23.94	20.075	
4,600.0	4,592.2	4,565.1	4,559.2	14.1	10.9	-80.16	-87.2	-415.0	482.8	458.6	24.21	19.943	
4,655.0	4,647.2	4,620.0	4,613.9	14.2	11.1	-80.45	-89.0	-418.3	485.7	461.2	24.58	19.765	
4,700.0	4,692.2	4,664.9	4,658.7	14.4	11.2	-80.68	-90.6	-421.0	488.2	463.3	24.88	19.623	
4,750.0	4,742.2	4,714.7	4,708.5	14.5	11.4	-80.93	-92.3	-424.1	490.9	465.7	25.21	19.470	
4,800.0	4,792.2	4,764.6	4,758.2	14.7	11.6	-81.18	-94.0	-427.1	493.7	468.1	25.55	19.320	
4,845.0	4,837.2	4,809.5	4,803.0	14.9	11.7	-81.41	-95.5	-429.8	496.1	470.3	25.86	19.188	
4,900.0	4,892.2	4,864.4	4,857.7	15.0	11.9	-81.68	-97.4	-433.2	499.2	473.0	26.23	19.031	
4,940.0	4,932.2	4,904.3	4,897.5	15.2	12.0	-81.87	-98.7	-435.6	501.4	474.9	26.50	18.920	
5,000.0	4,992.2	4,964.1	4,957.2	15.4	12.2	-82.16	-100.8	-439.2	504.7	477.8	26.91	18.757	
5,035.0	5,027.2	4,999.1	4,992.1	15.5	12.4	-82.32	-102.0	-441.4	506.7	479.5	27.15	18.664	
5,100.0	5,092.2	5,063.9	5,056.8	15.7	12.6	-82.63	-104.2	-445.3	510.3	482.7	27.59	18.496	
5,130.0	5,122.2	5,093.8	5,086.6	15.8	12.7	-82.77	-105.2	-447.1	512.0	484.2	27.80	18.420	
5,200.0	5,192.2	5,163.7	5,156.3	16.1	12.9	-83.09	-107.6	-451.4	515.9	487.7	28.27	18.248	
5,225.0	5,217.2	5,188.6	5,181.2	16.1	13.0	-83.21	-108.4	-452.9	517.3	488.9	28.45	18.187	
5,300.0	5,292.2	5,263.4	5,255.8	16.4	13.3	-83.55	-111.0	-457.4	521.6	492.6	28.96	18.011	
5,320.0	5,312.2	5,283.4	5,275.7	16.5	13.3	-83.63	-111.7	-458.7	522.7	493.6	29.10	17.965	
5,400.0	5,392.2	5,363.2	5,355.3	16.7	13.6	-83.99	-114.4	-463.5	527.3	497.6	29.65	17.785	
5,415.0	5,407.2	5,378.1	5,370.2	16.8	13.7	-84.05	-114.9	-464.4	528.1	498.4	29.75	17.752	
5,500.0	5,492.2	5,462.9	5,454.8	17.1	14.0	-84.42	-117.8	-469.6	533.0	502.6	30.34	17.569	
5,510.0	5,502.2	5,472.9	5,464.8	17.1	14.0	-84.46	-118.1	-470.2	533.5	503.1	30.40	17.548	
5,600.0	5,592.2	5,562.7	5,554.3	17.4	14.3	-84.85	-121.2	-475.6	538.7	507.7	31.03	17.363	
5,605.0	5,597.2	5,567.7	5,559.3	17.4	14.3	-84.87	-121.4	-475.9	539.0	507.9	31.06	17.353	
5,700.0	5,692.2	5,662.4	5,653.8	17.7	14.7	-85.26	-124.6	-481.7	544.5	512.8	31.72	17.167	
5,795.0	5,787.2	5,757.2	5,748.4	18.1	15.0	-85.65	-127.9	-487.5	550.0	517.6	32.38	16.988	
5,800.0	5,792.2	5,762.2	5,753.4	18.1	15.0	-85.67	-128.0	-487.8	550.3	517.9	32.41	16.978	
5,890.0	5,882.2	5,852.0	5,842.9	18.4	15.3	-86.02	-131.1	-493.2	555.5	522.5	33.04	16.816	
5,900.0	5,892.2	5,861.9	5,852.9	18.4	15.4	-86.06	-131.4	-493.8	556.1	523.0	33.11	16.798	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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		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)			
5,985.0	5,977.2	5,946.7	5,937.5	18.7	15.7	-86.40	-134.3	-499.0	561.1	527.4	33.70	16.651	
6,000.0	5,992.2	5,961.7	5,952.4	18.8	15.7	-86.45	-134.8	-499.9	562.0	528.2	33.80	16.626	
6,080.0	6,072.2	6,041.5	6,032.0	19.0	16.0	-86.76	-137.6	-504.8	566.7	532.3	34.36	16.494	
6,100.0	6,092.2	6,061.5	6,051.9	19.1	16.1	-86.84	-138.2	-506.0	567.8	533.3	34.49	16.462	
6,175.0	6,167.2	6,140.9	6,131.2	19.4	16.3	-87.12	-140.8	-510.6	572.1	537.0	35.03	16.330	
6,200.0	6,192.2	6,168.2	6,158.4	19.5	16.4	-87.20	-141.6	-512.0	573.3	538.1	35.21	16.281	
6,270.0	6,262.2	6,244.6	6,234.8	19.7	16.7	-87.40	-143.4	-515.2	576.2	540.4	35.73	16.128	
6,300.0	6,292.2	6,277.4	6,267.5	19.8	16.8	-87.47	-144.0	-516.3	577.2	541.2	35.95	16.057	
6,365.0	6,357.2	6,348.5	6,338.5	20.0	17.0	-87.58	-145.1	-518.2	578.8	542.4	36.42	15.893	
6,400.0	6,392.2	6,386.8	6,376.8	20.2	17.2	-87.62	-145.5	-518.9	579.4	542.8	36.68	15.799	
6,460.0	6,452.2	6,452.4	6,442.5	20.4	17.4	-87.66	-145.9	-519.5	580.0	542.9	37.09	15.637	
6,500.0	6,492.2	6,495.3	6,485.3	20.5	17.5	-87.66	-145.9	-519.6	580.1	542.8	37.36	15.526	
6,555.0	6,547.2	6,550.3	6,540.3	20.7	17.7	-87.66	-145.9	-519.6	580.1	542.4	37.72	15.379	
6,600.0	6,592.2	6,595.3	6,585.3	20.8	17.8	-87.66	-145.9	-519.6	580.1	542.1	38.01	15.260	
6,650.0	6,642.2	6,645.3	6,635.3	21.0	18.0	-87.66	-145.9	-519.6	580.1	541.8	38.34	15.129	
6,700.0	6,692.2	6,695.3	6,685.3	21.2	18.1	-87.66	-145.9	-519.6	580.1	541.4	38.68	15.000	
6,745.0	6,737.2	6,740.3	6,730.3	21.3	18.3	-87.66	-145.9	-519.6	580.1	541.1	38.97	14.885	
6,800.0	6,792.2	6,795.3	6,785.3	21.5	18.4	-87.66	-145.9	-519.6	580.1	540.8	39.34	14.747	
6,840.0	6,832.2	6,835.3	6,825.3	21.7	18.6	-87.66	-145.9	-519.6	580.1	540.5	39.60	14.648	
6,900.0	6,892.2	6,895.3	6,885.3	21.9	18.8	-87.66	-145.9	-519.6	580.1	540.1	40.00	14.502	
6,935.0	6,927.2	6,930.3	6,920.3	22.0	18.9	-87.66	-145.9	-519.6	580.1	539.9	40.23	14.418	
7,000.0	6,992.2	6,995.3	6,985.3	22.2	19.1	-87.66	-145.9	-519.6	580.1	539.4	40.67	14.265	
7,030.0	7,022.2	7,025.3	7,015.3	22.3	19.2	-87.66	-145.9	-519.6	580.1	539.2	40.87	14.195	
7,100.0	7,092.2	7,095.3	7,085.3	22.6	19.4	-87.66	-145.9	-519.6	580.1	538.8	41.34	14.034	
7,125.0	7,117.2	7,120.3	7,110.3	22.7	19.5	-87.66	-145.9	-519.6	580.1	538.6	41.50	13.978	
7,200.0	7,192.2	7,195.3	7,185.3	22.9	19.7	-87.66	-145.9	-519.6	580.1	538.1	42.01	13.810	
7,220.0	7,212.2	7,215.3	7,205.3	23.0	19.8	-87.66	-145.9	-519.6	580.1	538.0	42.14	13.766	
7,300.0	7,292.2	7,295.3	7,285.3	23.3	20.0	-87.66	-145.9	-519.6	580.1	537.4	42.68	13.593	
7,315.0	7,307.2	7,310.3	7,300.3	23.3	20.1	-87.66	-145.9	-519.6	580.1	537.3	42.78	13.561	
7,400.0	7,392.2	7,395.3	7,385.3	23.6	20.3	-87.66	-145.9	-519.6	580.1	536.8	43.35	13.382	
7,410.0	7,402.2	7,405.3	7,395.3	23.7	20.4	-87.66	-145.9	-519.6	580.1	536.7	43.42	13.361	
7,500.0	7,492.2	7,495.3	7,485.3	24.0	20.7	-87.66	-145.9	-519.6	580.1	536.1	44.02	13.177	
7,505.0	7,497.2	7,500.3	7,490.3	24.0	20.7	-87.66	-145.9	-519.6	580.1	536.1	44.06	13.167	
7,600.0	7,592.2	7,595.3	7,585.3	24.3	21.0	-87.66	-145.9	-519.6	580.1	535.4	44.70	12.978	
7,695.0	7,687.2	7,690.3	7,680.3	24.7	21.3	-87.66	-145.9	-519.6	580.1	534.8	45.34	12.794	
7,700.0	7,692.2	7,695.3	7,685.3	24.7	21.3	-87.66	-145.9	-519.6	580.1	534.7	45.38	12.785	
7,790.0	7,782.2	7,785.3	7,775.3	25.0	21.6	-87.66	-145.9	-519.6	580.1	534.1	45.99	12.615	
7,800.0	7,792.2	7,795.3	7,785.3	25.0	21.6	-87.66	-145.9	-519.6	580.1	534.1	46.05	12.596	
7,885.0	7,877.2	7,880.3	7,870.3	25.3	21.9	-87.66	-145.9	-519.6	580.1	533.5	46.63	12.440	
7,900.0	7,892.2	7,895.3	7,885.3	25.4	22.0	-87.66	-145.9	-519.6	580.1	533.4	46.73	12.413	
7,980.0	7,972.2	7,975.3	7,965.3	25.7	22.2	-87.66	-145.9	-519.6	580.1	532.8	47.28	12.270	
8,000.0	7,992.2	7,995.3	7,985.3	25.7	22.3	-87.66	-145.9	-519.6	580.1	532.7	47.41	12.235	
8,075.0	8,067.2	8,070.3	8,060.3	26.0	22.5	-87.66	-145.9	-519.6	580.1	532.2	47.92	12.105	
8,100.0	8,092.2	8,095.3	8,085.3	26.1	22.6	-87.66	-145.9	-519.6	580.1	532.0	48.10	12.062	
8,170.0	8,162.2	8,165.3	8,155.3	26.3	22.9	-87.66	-145.9	-519.6	580.1	531.5	48.57	11.943	
8,200.0	8,192.2	8,195.3	8,185.3	26.4	22.9	-87.66	-145.9	-519.6	580.1	531.3	48.78	11.893	
8,265.0	8,257.2	8,260.3	8,250.3	26.7	23.2	-87.66	-145.9	-519.6	580.1	530.9	49.22	11.786	
8,300.0	8,292.2	8,295.3	8,285.3	26.8	23.3	-87.66	-145.9	-519.6	580.1	530.7	49.46	11.729	
8,360.0	8,352.2	8,355.3	8,345.3	27.0	23.5	-87.66	-145.9	-519.6	580.1	530.2	49.87	11.632	
8,400.0	8,392.2	8,395.3	8,385.3	27.1	23.6	-87.66	-145.9	-519.6	580.1	530.0	50.15	11.569	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
8,455.0	8,447.2	8,450.3	8,440.3	27.3	23.8	-87.66	-145.9	-519.6	580.1	529.6	50.52	11.482	
8,500.0	8,492.2	8,495.3	8,485.3	27.5	23.9	-87.66	-145.9	-519.6	580.1	529.3	50.83	11.413	
8,550.0	8,542.2	8,545.3	8,535.3	27.7	24.1	-87.66	-145.9	-519.6	580.1	528.9	51.17	11.336	
8,600.0	8,592.2	8,595.3	8,585.3	27.8	24.3	-87.66	-145.9	-519.6	580.1	528.6	51.52	11.261	
8,645.0	8,637.2	8,640.3	8,630.3	28.0	24.4	-87.66	-145.9	-519.6	580.1	528.3	51.83	11.194	
8,646.9	8,639.1	8,642.2	8,632.2	28.0	24.4	-87.66	-145.9	-519.6	580.1	528.3	51.84	11.191	
8,700.0	8,692.2	8,694.1	8,684.1	28.2	24.5	-87.62	-145.4	-519.6	580.1	528.0	52.13	11.129	
8,740.0	8,732.2	8,731.7	8,721.6	28.3	24.5	-87.30	-142.2	-519.6	580.3	528.0	52.27	11.102	
8,800.0	8,792.2	8,786.7	8,775.6	28.5	24.5	-86.33	-132.3	-519.7	581.0	528.5	52.47	11.073	
8,835.0	8,827.2	8,817.5	8,805.3	28.7	24.5	-85.51	-124.1	-519.7	581.7	529.1	52.58	11.063 SF	
8,900.0	8,892.2	8,871.4	8,855.7	28.9	24.5	-83.66	-105.1	-519.8	584.1	531.4	52.76	11.071	
8,930.0	8,922.2	8,894.6	8,876.7	29.0	24.5	-82.69	-95.2	-519.9	585.9	533.0	52.83	11.090	
9,000.0	8,992.2	8,944.6	8,920.2	29.2	24.6	-80.30	-70.4	-520.0	592.0	539.0	52.93	11.184	
9,025.0	9,017.2	8,961.1	8,933.9	29.3	24.6	-79.43	-61.3	-520.0	594.9	542.0	52.94	11.238	
9,100.0	9,092.2	9,005.9	8,969.5	29.6	24.6	-76.86	-34.1	-520.1	606.9	554.0	52.85	11.483	
9,120.0	9,112.2	9,016.9	8,977.8	29.7	24.6	-76.20	-27.0	-520.1	610.9	558.1	52.79	11.571	
9,200.0	9,192.2	9,056.4	9,006.4	30.0	24.6	-73.68	0.3	-520.3	630.5	578.1	52.43	12.027	
9,215.0	9,207.2	9,063.2	9,011.1	30.0	24.6	-73.24	5.2	-520.3	634.9	582.6	52.33	12.132	
9,300.0	9,292.2	9,100.0	9,035.2	30.3	24.6	-70.76	33.0	-520.4	663.7	612.0	51.68	12.842	
9,310.0	9,302.2	9,100.0	9,035.2	30.3	24.6	-70.76	33.0	-520.4	667.5	616.0	51.54	12.951	
9,400.0	9,392.2	9,131.9	9,054.3	30.7	24.6	-68.54	58.6	-520.5	706.1	655.5	50.62	13.949	
9,405.0	9,397.2	9,133.5	9,055.2	30.7	24.6	-68.44	59.9	-520.5	708.5	657.9	50.57	14.011	
9,500.0	9,492.2	9,160.2	9,069.8	31.0	24.6	-66.55	82.3	-520.6	757.1	707.7	49.45	15.311	
9,595.0	9,587.2	9,182.9	9,081.1	31.3	24.6	-64.95	101.9	-520.7	812.5	764.2	48.31	16.818	
9,600.0	9,592.2	9,184.0	9,081.6	31.4	24.6	-64.87	102.8	-520.7	815.5	767.3	48.25	16.902	
9,690.0	9,682.2	9,200.0	9,089.1	31.7	24.6	-63.74	117.0	-520.8	873.6	826.4	47.19	18.511	
9,700.0	9,692.2	9,200.0	9,089.1	31.7	24.6	-63.74	117.0	-520.8	880.3	833.2	47.06	18.707	
9,785.0	9,777.2	9,225.0	9,099.7	32.0	24.6	-61.97	139.7	-520.9	939.5	893.2	46.30	20.290	
9,800.0	9,792.2	9,225.0	9,099.7	32.1	24.6	-61.97	139.7	-520.9	950.3	904.2	46.13	20.602	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	0.0	3.0	3.0	-90.66	-3.4	-295.0	295.1			
1.0	1.0	0.0	0.0	3.0	3.0	-90.66	-3.4	-295.0	295.1			
38.5	38.5	31.0	31.0	3.0	3.0	-43.71	-3.4	-295.0	295.0	289.0	6.00	49.165
95.0	95.0	87.5	87.5	3.0	3.0	-43.73	-3.4	-295.0	294.8	288.8	6.00	49.138
101.0	101.0	93.5	93.5	3.0	3.0	-43.74	-3.4	-295.0	294.8	288.8	6.00	49.134
126.0	126.0	118.5	118.5	3.0	3.0	-27.38	-3.4	-295.0	294.7	288.7	6.00	49.107
151.0	151.0	143.5	143.5	3.0	3.0	-35.02	-3.4	-295.0	294.5	288.5	6.00	49.074
176.0	176.0	168.5	168.5	3.0	3.0	-44.34	-3.4	-295.0	294.4	288.4	6.00	49.041
190.0	190.0	182.5	182.5	3.0	3.0	-52.10	-3.4	-295.0	294.3	288.3	6.00	49.022
201.0	201.0	193.5	193.5	3.0	3.0	-56.04	-3.4	-295.0	294.3	288.3	6.00	49.006
226.0	226.0	218.5	218.5	3.0	3.0	-65.97	-3.4	-295.0	294.2	288.1	6.01	48.971
251.0	251.0	243.5	243.5	3.0	3.0	-71.67	-3.4	-295.0	294.1	288.0	6.01	48.940
276.0	276.0	268.5	268.5	3.0	3.0	-61.77	-3.4	-295.0	293.9	287.9	6.01	48.904
285.0	285.0	277.5	277.5	3.0	3.0	-59.10	-3.4	-295.0	293.9	287.9	6.01	48.888
301.0	301.0	293.5	293.5	3.0	3.0	-54.96	-3.4	-295.0	293.8	287.8	6.01	48.856
326.0	326.0	318.5	318.5	3.0	3.0	-46.94	-3.4	-295.0	293.6	287.5	6.02	48.796
351.0	351.0	343.5	343.5	3.0	3.0	-41.21	-3.4	-295.0	293.3	287.3	6.02	48.725
376.0	376.0	368.5	368.5	3.0	3.0	-39.60	-3.4	-295.0	293.0	287.0	6.02	48.646
380.0	380.0	372.5	372.5	3.0	3.0	-40.36	-3.4	-295.0	293.0	286.9	6.02	48.633
401.0	401.0	393.5	393.5	3.0	3.0	-44.54	-3.4	-295.0	292.7	286.7	6.03	48.566
426.0	426.0	418.5	418.5	3.0	3.0	-40.25	-3.4	-295.0	292.4	286.4	6.03	48.481
451.0	451.0	443.5	443.5	3.0	3.0	-36.56	-3.4	-295.0	292.1	286.1	6.04	48.389
475.0	475.0	467.5	467.5	3.0	3.0	-25.99	-3.4	-295.0	291.8	285.7	6.04	48.292
476.0	476.0	468.5	468.5	3.0	3.0	-25.57	-3.4	-295.0	291.8	285.7	6.04	48.288
501.0	501.0	493.5	493.5	3.1	3.1	-27.24	-3.4	-295.0	291.4	285.3	6.05	48.179
526.0	526.0	518.5	518.5	3.1	3.1	-23.33	-3.4	-295.0	291.0	284.9	6.05	48.063
551.0	551.0	543.5	543.5	3.1	3.1	-17.94	-3.4	-295.0	290.6	284.5	6.06	47.937
570.0	570.0	562.5	562.5	3.1	3.1	-13.21	-3.4	-295.0	290.2	284.2	6.07	47.838
576.0	576.0	568.5	568.5	3.1	3.1	-11.67	-3.4	-295.0	290.1	284.1	6.07	47.806
601.0	601.0	593.5	593.5	3.1	3.1	-8.41	-3.4	-295.0	289.7	283.6	6.08	47.671
626.0	625.9	618.4	618.4	3.1	3.1	-0.09	-3.4	-295.0	289.2	283.2	6.09	47.533
651.0	650.9	643.4	643.4	3.1	3.1	-3.48	-3.4	-295.0	288.8	282.8	6.09	47.398
665.0	664.9	657.4	657.4	3.1	3.1	-0.35	-3.4	-295.0	288.6	282.5	6.10	47.323
676.0	675.9	668.4	668.4	3.1	3.1	1.97	-3.4	-295.0	288.5	282.4	6.10	47.262
701.0	700.9	693.4	693.4	3.1	3.1	8.31	-3.4	-295.0	288.1	281.9	6.11	47.122
726.0	725.9	718.4	718.4	3.1	3.1	18.59	-3.4	-295.0	287.6	281.5	6.12	46.979
751.0	750.9	743.4	743.4	3.1	3.1	26.03	-3.4	-295.0	287.2	281.1	6.13	46.835
760.0	759.9	752.4	752.4	3.1	3.1	23.80	-3.4	-295.0	287.1	281.0	6.14	46.783
776.0	775.9	768.4	768.4	3.1	3.1	20.06	-3.4	-295.0	286.8	280.7	6.14	46.686
801.0	800.9	793.4	793.4	3.1	3.1	24.11	-3.4	-295.0	286.4	280.2	6.15	46.530
826.0	825.9	818.4	818.4	3.1	3.2	32.60	-3.4	-295.0	285.9	279.8	6.17	46.375
851.0	850.9	843.4	843.4	3.1	3.2	21.05	-3.4	-295.0	285.5	279.3	6.18	46.216
855.0	854.9	847.4	847.4	3.1	3.2	22.30	-3.4	-295.0	285.4	279.2	6.18	46.190
876.0	875.9	868.4	868.4	3.2	3.2	28.90	-3.4	-295.0	285.0	278.8	6.19	46.053
901.0	900.9	893.4	893.4	3.2	3.2	31.32	-3.4	-295.0	284.6	278.4	6.20	45.895
926.0	925.9	918.4	918.4	3.2	3.2	24.71	-3.4	-295.0	284.2	278.0	6.21	45.742
950.0	949.9	942.4	942.4	3.2	3.2	18.88	-3.4	-295.0	283.9	277.7	6.23	45.600
1,000.0	999.9	992.4	992.4	3.2	3.2	18.92	-3.4	-295.0	283.4	277.1	6.25	45.360
1,045.0	1,044.9	1,037.4	1,037.4	3.2	3.3	18.95	-3.4	-295.0	282.8	276.6	6.27	45.117
1,054.0	1,053.9	1,046.4	1,046.4	3.2	3.3	18.96	-3.4	-295.0	282.7	276.5	6.27	45.067

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
1,100.0	1,099.9	1,092.4	1,092.4	3.2	3.3	19.00	-3.4	-295.0	282.2	275.9	6.30	44.761	
1,140.0	1,139.9	1,132.4	1,132.4	3.3	3.3	19.03	-3.4	-295.0	281.7	275.4	6.34	44.439	
1,154.0	1,153.9	1,146.4	1,146.4	3.3	3.3	19.04	-3.4	-295.0	281.6	275.2	6.35	44.324	
1,200.0	1,199.9	1,192.4	1,192.4	3.3	3.3	19.07	-3.4	-295.0	281.1	274.7	6.40	43.914	
1,235.0	1,234.9	1,227.4	1,227.4	3.3	3.4	19.09	-3.4	-295.0	280.9	274.5	6.44	43.601	
1,294.0	1,293.9	1,286.4	1,286.4	3.4	3.4	-90.87	-3.4	-295.0	280.8	274.3	6.52	43.092	
1,300.0	1,299.9	1,292.4	1,292.4	3.4	3.4	-90.87	-3.4	-295.0	280.8	274.2	6.52	43.038	
1,330.0	1,329.9	1,322.4	1,322.4	3.5	3.4	-90.87	-3.4	-295.0	280.8	274.2	6.57	42.725	
1,400.0	1,399.9	1,392.4	1,392.4	3.6	3.5	-90.87	-3.4	-295.0	280.8	274.1	6.69	41.967	
1,425.0	1,424.9	1,417.4	1,417.4	3.6	3.5	-90.87	-3.4	-295.0	280.8	274.0	6.75	41.620	
1,500.0	1,499.9	1,492.4	1,492.4	3.8	3.5	-90.87	-3.4	-295.0	280.8	273.8	6.92	40.557	
1,520.0	1,519.9	1,512.4	1,512.4	3.8	3.6	-90.87	-3.4	-295.0	280.8	273.8	6.97	40.271	
1,600.0	1,599.9	1,592.4	1,592.4	4.0	3.6	-90.87	-3.4	-295.0	280.8	273.6	7.18	39.116	
1,615.0	1,614.9	1,607.4	1,607.4	4.1	3.6	-90.87	-3.4	-295.0	280.8	273.5	7.22	38.900	
1,700.0	1,699.9	1,692.4	1,692.4	4.3	3.7	-90.87	-3.4	-295.0	280.8	273.3	7.45	37.678	
1,710.0	1,709.9	1,702.4	1,702.4	4.3	3.7	-90.87	-3.4	-295.0	280.8	273.3	7.48	37.536	
1,800.0	1,799.9	1,792.4	1,792.4	4.6	3.8	-90.87	-3.4	-295.0	280.8	273.0	7.74	36.267	
1,805.0	1,804.9	1,797.4	1,797.4	4.6	3.8	-90.87	-3.4	-295.0	280.8	273.0	7.76	36.198	
1,900.0	1,899.9	1,892.4	1,892.4	4.9	3.8	-90.87	-3.4	-295.0	280.8	272.7	8.05	34.899	
1,995.0	1,994.9	1,987.4	1,987.4	5.2	3.9	-90.87	-3.4	-295.0	280.8	272.4	8.34	33.648	
2,000.1	2,000.0	1,992.5	1,992.5	5.2	3.9	-90.87	-3.4	-295.0	280.8	272.4	8.36	33.582 CC, ES	
2,090.0	2,089.9	2,075.1	2,075.1	5.5	4.0	112.85	-3.6	-296.0	282.4	273.6	8.77	32.186	
2,100.0	2,099.9	2,084.2	2,084.2	5.5	4.0	112.88	-3.6	-296.2	282.8	274.0	8.82	32.051	
2,185.0	2,184.7	2,161.4	2,161.4	6.0	4.0	113.37	-4.3	-299.5	288.0	278.5	9.53	30.226	
2,200.0	2,199.7	2,175.0	2,174.9	6.1	4.1	113.48	-4.5	-300.2	289.3	279.6	9.68	29.888	
2,250.1	2,249.7	2,220.3	2,220.1	6.3	4.4	113.90	-5.1	-303.3	294.2	284.1	10.15	28.983	
2,280.0	2,279.4	2,247.2	2,246.9	6.3	4.6	114.23	-5.6	-305.4	297.7	287.3	10.41	28.604	
2,300.0	2,299.4	2,265.2	2,264.8	6.4	4.7	114.44	-5.9	-307.0	300.1	289.6	10.58	28.366	
2,375.0	2,374.1	2,332.4	2,331.7	6.6	5.2	115.14	-7.3	-313.9	310.5	299.3	11.22	27.674	
2,400.0	2,399.0	2,354.7	2,353.8	6.7	5.3	115.35	-7.8	-316.5	314.3	302.9	11.42	27.518	
2,470.0	2,468.7	2,418.8	2,417.3	6.9	5.7	115.89	-9.6	-324.9	326.0	314.1	11.96	27.270	
2,500.0	2,498.6	2,448.3	2,446.5	7.0	5.7	116.11	-10.4	-328.9	331.2	319.1	12.13	27.300	
2,565.0	2,563.4	2,512.3	2,509.9	7.2	5.9	116.58	-12.2	-337.6	342.5	330.0	12.50	27.393	
2,600.0	2,598.2	2,546.7	2,544.0	7.3	6.0	116.82	-13.1	-342.3	348.6	335.9	12.66	27.531	
2,660.0	2,658.0	2,605.7	2,602.4	7.5	6.1	117.22	-14.8	-350.4	359.0	346.0	12.93	27.753	
2,700.0	2,697.8	2,645.1	2,641.4	7.6	6.1	117.47	-15.9	-355.7	365.9	352.8	13.12	27.881	
2,755.0	2,752.6	2,699.2	2,695.0	7.8	6.2	117.80	-17.4	-363.1	375.5	362.1	13.39	28.046	
2,800.0	2,797.5	2,743.5	2,738.9	7.9	6.3	118.05	-18.7	-369.1	383.3	369.7	13.61	28.162	
2,850.0	2,847.3	2,792.7	2,787.6	8.1	6.4	118.33	-20.0	-375.8	392.1	378.2	13.86	28.281	
2,900.0	2,897.1	2,841.9	2,836.3	8.3	6.5	118.59	-21.4	-382.5	400.8	386.7	14.12	28.384	
2,945.0	2,941.9	2,886.2	2,880.1	8.4	6.6	118.81	-22.7	-388.6	408.7	394.3	14.36	28.468	
3,000.0	2,996.7	2,940.3	2,933.7	8.6	6.7	119.08	-24.2	-396.0	418.3	403.6	14.65	28.555	
3,040.0	3,036.6	2,979.7	2,972.7	8.7	6.8	119.26	-25.3	-401.3	425.3	410.4	14.86	28.612	
3,100.0	3,096.3	3,038.7	3,031.2	8.9	7.0	119.53	-27.0	-409.4	435.8	420.6	15.19	28.684	
3,135.0	3,131.2	3,073.1	3,065.3	9.1	7.0	119.68	-27.9	-414.1	441.9	426.5	15.39	28.721	
3,200.0	3,195.9	3,137.1	3,128.6	9.3	7.2	119.94	-29.7	-422.8	453.3	437.6	15.75	28.778	
3,230.0	3,225.8	3,166.6	3,157.9	9.4	7.3	120.06	-30.5	-426.8	458.6	442.7	15.92	28.800	
3,300.0	3,295.6	3,235.5	3,226.1	9.6	7.5	120.33	-32.5	-436.2	470.9	454.6	16.33	28.842	
3,325.0	3,320.5	3,260.1	3,250.4	9.7	7.5	120.42	-33.2	-439.5	475.3	458.8	16.47	28.853	
3,400.0	3,395.2	3,333.9	3,323.5	10.0	7.7	120.68	-35.2	-449.6	488.5	471.5	16.91	28.881	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,420.0	3,415.1	3,353.6	3,343.0	10.0	7.8	120.75	-35.8	-452.3	492.0	474.9	17.03	28.886	
3,500.0	3,494.8	3,432.3	3,421.0	10.3	8.0	121.02	-38.0	-463.0	506.0	488.5	17.51	28.900	
3,515.0	3,509.7	3,447.1	3,435.6	10.3	8.0	121.06	-38.4	-465.0	508.7	491.1	17.60	28.901	
3,600.0	3,594.4	3,530.7	3,518.4	10.6	8.3	121.33	-40.8	-476.4	523.7	505.5	18.12	28.903	
3,610.0	3,604.4	3,540.5	3,528.1	10.7	8.3	121.35	-41.0	-477.8	525.4	507.2	18.18	28.902	
3,700.0	3,694.0	3,629.1	3,615.8	11.0	8.5	121.61	-43.5	-489.8	541.3	522.5	18.73	28.892	
3,705.0	3,699.0	3,634.0	3,620.7	11.0	8.6	121.63	-43.7	-490.5	542.2	523.4	18.77	28.891	
3,800.0	3,793.7	3,727.5	3,713.3	11.3	8.8	121.89	-46.3	-503.3	558.9	539.5	19.36	28.870	
3,895.0	3,888.3	3,821.0	3,805.8	11.7	9.1	122.13	-48.9	-516.0	575.7	555.7	19.96	28.841	
3,900.0	3,893.3	3,825.9	3,810.7	11.7	9.1	122.14	-49.1	-516.7	576.6	556.6	19.99	28.839	
3,990.0	3,982.9	3,914.5	3,898.4	12.0	9.4	122.36	-51.5	-528.7	592.4	571.9	20.57	28.805	
4,007.7	4,000.6	3,931.9	3,915.7	12.1	9.4	122.40	-52.0	-531.1	595.6	574.9	20.68	28.797	
4,085.0	4,077.6	4,008.0	3,991.0	12.3	9.7	122.65	-54.2	-541.5	608.9	587.8	21.18	28.752	
4,100.0	4,092.6	4,022.8	4,005.7	12.4	9.7	122.68	-54.6	-543.5	611.5	590.2	21.28	28.740	
4,180.0	4,172.4	4,101.7	4,083.8	12.7	10.0	122.82	-56.8	-554.3	624.6	602.8	21.79	28.660	
4,200.0	4,192.4	4,121.4	4,103.4	12.7	10.0	122.84	-57.3	-557.0	627.8	605.9	21.93	28.635	
4,275.0	4,267.3	4,195.5	4,176.7	13.0	10.3	122.87	-59.4	-567.1	639.5	617.1	22.41	28.530	
4,300.0	4,292.3	4,220.2	4,201.2	13.1	10.4	122.86	-60.1	-570.4	643.2	620.7	22.58	28.490	
4,370.0	4,362.2	4,289.5	4,269.8	13.3	10.6	122.80	-62.1	-579.9	653.5	630.4	23.04	28.367	
4,400.0	4,392.2	4,319.1	4,299.2	13.4	10.7	122.75	-62.9	-583.9	657.7	634.5	23.23	28.310	
4,465.0	4,457.2	4,383.5	4,362.9	13.6	10.9	122.61	-64.7	-592.7	666.6	643.0	23.65	28.182	
4,507.8	4,500.0	4,425.8	4,404.8	13.8	11.0	-81.05	-65.9	-598.5	672.3	648.4	23.93	28.092	
4,560.0	4,552.2	4,477.5	4,456.0	13.9	11.2	-81.27	-67.3	-605.5	679.1	654.8	24.27	27.980	
4,600.0	4,592.2	4,517.2	4,495.2	14.1	11.3	-81.43	-68.5	-610.9	684.3	659.8	24.53	27.896	
4,655.0	4,647.2	4,571.6	4,549.2	14.2	11.5	-81.65	-70.0	-618.3	691.5	666.7	24.89	27.782	
4,700.0	4,692.2	4,616.2	4,593.3	14.4	11.6	-81.83	-71.2	-624.4	697.4	672.3	25.19	27.690	
4,750.0	4,742.2	4,665.7	4,642.3	14.5	11.8	-82.02	-72.6	-631.1	704.0	678.5	25.52	27.590	
4,800.0	4,792.2	4,715.2	4,691.4	14.7	12.0	-82.21	-74.0	-637.9	710.6	684.7	25.85	27.492	
4,845.0	4,837.2	4,759.8	4,735.5	14.9	12.1	-82.37	-75.3	-644.0	716.5	690.3	26.14	27.404	
4,900.0	4,892.2	4,814.2	4,789.4	15.0	12.3	-82.57	-76.8	-651.4	723.7	697.2	26.51	27.300	
4,940.0	4,932.2	4,853.8	4,828.7	15.2	12.4	-82.72	-77.9	-656.8	729.0	702.2	26.78	27.225	
5,000.0	4,992.2	4,913.3	4,887.5	15.4	12.6	-82.93	-79.6	-664.9	736.9	709.7	27.18	27.116	
5,035.0	5,027.2	4,947.9	4,921.8	15.5	12.8	-83.05	-80.5	-669.6	741.5	714.1	27.41	27.053	
5,100.0	5,092.2	5,012.3	4,985.6	15.7	13.0	-83.27	-82.4	-678.4	750.1	722.3	27.85	26.939	
5,130.0	5,122.2	5,042.0	5,015.0	15.8	13.1	-83.37	-83.2	-682.4	754.1	726.0	28.05	26.887	
5,200.0	5,192.2	5,111.3	5,083.6	16.1	13.3	-83.60	-85.1	-691.9	763.3	734.8	28.52	26.768	
5,225.0	5,217.2	5,136.1	5,108.1	16.1	13.4	-83.68	-85.8	-695.3	766.7	738.0	28.69	26.726	
5,300.0	5,292.2	5,210.3	5,181.7	16.4	13.7	-83.91	-87.9	-705.4	776.6	747.4	29.19	26.603	
5,320.0	5,312.2	5,230.1	5,201.3	16.5	13.7	-83.98	-88.5	-708.1	779.3	749.9	29.33	26.571	
5,400.0	5,392.2	5,309.4	5,279.8	16.7	14.0	-84.22	-90.7	-718.9	789.9	760.0	29.87	26.445	
5,415.0	5,407.2	5,324.2	5,294.5	16.8	14.1	-84.27	-91.1	-720.9	791.9	761.9	29.97	26.421	
5,500.0	5,492.2	5,408.4	5,377.8	17.1	14.3	-84.52	-93.5	-732.4	803.2	772.6	30.55	26.292	
5,510.0	5,502.2	5,418.3	5,387.6	17.1	14.4	-84.55	-93.8	-733.7	804.5	773.9	30.62	26.277	
5,600.0	5,592.2	5,507.4	5,475.9	17.4	14.7	-84.80	-96.3	-745.9	816.5	785.3	31.23	26.145	
5,605.0	5,597.2	5,512.4	5,480.8	17.4	14.7	-84.82	-96.4	-746.6	817.2	785.9	31.26	26.138	
5,700.0	5,692.2	5,606.4	5,573.9	17.7	15.0	-85.08	-99.0	-759.4	829.8	797.9	31.91	26.003	
5,795.0	5,787.2	5,700.5	5,667.1	18.1	15.4	-85.34	-101.7	-772.2	842.5	810.0	32.56	25.873	
5,800.0	5,792.2	5,705.5	5,672.0	18.1	15.4	-85.35	-101.8	-772.9	843.2	810.6	32.60	25.866	
5,890.0	5,882.2	5,794.6	5,760.3	18.4	15.7	-85.59	-104.3	-785.0	855.2	822.0	33.22	25.747	
5,900.0	5,892.2	5,804.5	5,770.1	18.4	15.7	-85.61	-104.6	-786.4	856.6	823.3	33.29	25.734	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,985.0	5,977.2	5,888.7	5,853.4	18.7	16.0	-85.83	-107.0	-797.9	868.0	834.1	33.87	25.626	
6,000.0	5,992.2	5,903.5	5,868.1	18.8	16.1	-85.87	-107.4	-799.9	870.0	836.0	33.97	25.607	
6,080.0	6,072.2	5,982.7	5,946.6	19.0	16.4	-86.06	-109.6	-810.7	880.7	846.2	34.53	25.508	
6,100.0	6,092.2	6,002.6	5,966.2	19.1	16.4	-86.11	-110.2	-813.4	883.4	848.7	34.66	25.484	
6,175.0	6,167.2	6,076.8	6,039.7	19.4	16.7	-86.29	-112.2	-823.5	893.5	858.3	35.18	25.394	
6,200.0	6,192.2	6,101.6	6,064.3	19.5	16.8	-86.35	-112.9	-826.9	896.8	861.5	35.36	25.365	
6,270.0	6,262.2	6,170.9	6,132.9	19.7	17.0	-86.51	-114.9	-836.3	906.2	870.4	35.84	25.284	
6,300.0	6,292.2	6,200.6	6,162.3	19.8	17.1	-86.58	-115.7	-840.4	910.3	874.2	36.05	25.250	
6,365.0	6,357.2	6,265.0	6,226.1	20.0	17.4	-86.73	-117.5	-849.2	919.0	882.5	36.50	25.178	
6,400.0	6,392.2	6,299.6	6,260.4	20.2	17.5	-86.80	-118.5	-853.9	923.7	887.0	36.74	25.139	
6,460.0	6,452.2	6,359.1	6,319.2	20.4	17.7	-86.93	-120.2	-862.0	931.8	894.6	37.16	25.074	
6,500.0	6,492.2	6,398.7	6,358.4	20.5	17.8	-87.02	-121.3	-867.4	937.2	899.7	37.44	25.032	
6,555.0	6,547.2	6,453.1	6,412.4	20.7	18.0	-87.14	-122.8	-874.8	944.6	906.8	37.82	24.974	
6,600.0	6,592.2	6,497.7	6,456.5	20.8	18.2	-87.23	-124.1	-880.9	950.7	912.5	38.14	24.928	
6,650.0	6,642.2	6,547.2	6,505.5	21.0	18.4	-87.34	-125.4	-887.6	957.4	918.9	38.48	24.878	
6,700.0	6,692.2	6,596.7	6,554.6	21.2	18.5	-87.44	-126.8	-894.4	964.2	925.3	38.83	24.828	
6,745.0	6,737.2	6,641.3	6,598.7	21.3	18.7	-87.53	-128.1	-900.4	970.2	931.1	39.15	24.784	
6,800.0	6,792.2	6,695.7	6,652.6	21.5	18.9	-87.64	-129.6	-907.9	977.7	938.1	39.53	24.731	
6,840.0	6,832.2	6,735.4	6,691.9	21.7	19.0	-87.72	-130.7	-913.3	983.1	943.3	39.81	24.693	
6,900.0	6,892.2	6,794.8	6,750.7	21.9	19.3	-87.83	-132.4	-921.4	991.2	950.9	40.23	24.636	
6,935.0	6,927.2	6,829.4	6,785.0	22.0	19.4	-87.90	-133.4	-926.1	995.9	955.4	40.48	24.604 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	2.1	2.1	3.0	3.0	89.43	0.3	30.0	30.0				
1.0	1.0	3.1	3.1	3.0	3.0	89.43	0.3	30.0	30.0				
4.2	4.2	6.3	6.3	3.0	3.0	136.39	0.3	30.0	30.0				
95.0	95.0	97.1	97.1	3.0	3.0	136.49	0.4	30.0	30.1	24.1	6.00	5.023	
101.0	101.0	103.1	103.1	3.0	3.0	136.51	0.4	30.0	30.2	24.2	6.00	5.026	
126.0	126.0	128.3	128.3	3.0	3.0	152.90	0.5	29.9	30.2	24.2	6.00	5.031	
151.0	151.0	153.1	153.1	3.0	3.0	145.20	0.6	29.8	30.3	24.3	6.00	5.040	
176.0	176.0	178.3	178.3	3.0	3.0	135.80	0.8	29.7	30.3	24.3	6.00	5.043	
190.0	190.0	192.3	192.3	3.0	3.0	128.03	0.9	29.6	30.3	24.3	6.01	5.040	
193.5	193.5	195.8	195.8	3.0	3.0	126.62	0.9	29.6	30.3	24.3	6.01	5.040	
201.0	201.0	203.3	203.3	3.0	3.0	124.11	1.0	29.5	30.3	24.3	6.01	5.040	
226.0	226.0	228.3	228.3	3.0	3.0	114.21	1.2	29.4	30.2	24.2	6.01	5.032	
251.0	251.0	253.4	253.4	3.0	3.0	108.59	1.4	29.1	30.1	24.1	6.01	5.012	
276.0	276.0	278.4	278.4	3.0	3.0	118.54	1.7	28.9	30.0	24.0	6.01	4.990	
285.0	285.0	287.4	287.4	3.0	3.0	121.21	1.8	28.8	30.0	24.0	6.01	4.984	
301.0	301.0	303.4	303.4	3.0	3.0	125.37	2.0	28.7	29.9	23.9	6.02	4.975	
326.0	326.0	328.4	328.4	3.0	3.0	133.47	2.2	28.4	29.9	23.9	6.02	4.966	
334.6	334.6	337.0	337.0	3.0	3.0	135.53	2.3	28.3	29.9	23.9	6.02	4.964	
351.0	351.0	353.4	353.4	3.0	3.0	139.25	2.5	28.1	29.9	23.9	6.03	4.963	
376.0	376.0	378.4	378.4	3.0	3.0	140.87	2.7	27.9	30.0	23.9	6.03	4.967	
380.0	380.0	382.4	382.4	3.0	3.0	140.10	2.8	27.9	30.0	23.9	6.03	4.968	
401.0	401.0	403.5	403.5	3.0	3.0	135.97	3.0	27.6	30.0	23.9	6.04	4.963	
426.0	426.0	428.5	428.5	3.0	3.0	140.31	3.3	27.3	29.9	23.9	6.04	4.952	
451.0	451.0	453.6	453.5	3.0	3.0	143.87	3.6	26.9	29.9	23.8	6.05	4.939	
475.0	475.0	477.7	477.6	3.0	3.0	154.14	4.0	26.5	29.8	23.7	6.05	4.921	
476.0	476.0	478.7	478.6	3.0	3.0	154.55	4.0	26.5	29.8	23.7	6.06	4.921	
501.0	501.0	503.7	503.6	3.1	3.1	152.54	4.3	26.0	29.7	23.6	6.06	4.898	
526.0	526.0	528.7	528.6	3.1	3.1	156.16	4.7	25.5	29.6	23.5	6.07	4.878	
548.3	548.2	550.9	550.8	3.1	3.1	160.72	5.0	25.1	29.6	23.5	6.08	4.867 CC	
551.0	551.0	553.6	553.6	3.1	3.1	161.29	5.0	25.0	29.6	23.5	6.08	4.867 ES	
570.0	570.0	572.6	572.5	3.1	3.1	165.84	5.2	24.7	29.6	23.5	6.09	4.863	
576.0	576.0	578.6	578.5	3.1	3.1	167.32	5.2	24.6	29.6	23.5	6.09	4.863	
601.0	601.0	603.6	603.5	3.1	3.1	170.31	5.4	24.2	29.7	23.6	6.10	4.862	
626.0	625.9	628.6	628.5	3.1	3.1	178.27	5.7	23.8	29.7	23.6	6.11	4.862	
651.0	650.9	653.5	653.5	3.1	3.1	174.55	5.8	23.4	29.7	23.6	6.12	4.859	
665.0	664.9	667.5	667.4	3.1	3.1	177.52	5.9	23.2	29.8	23.6	6.13	4.857	
676.0	675.9	678.5	678.4	3.1	3.1	179.71	6.0	23.1	29.8	23.7	6.13	4.857	
701.0	700.9	703.5	703.4	3.1	3.1	-174.32	6.1	22.8	29.9	23.7	6.15	4.861	
726.0	725.9	728.5	728.4	3.1	3.1	-164.50	6.3	22.4	30.0	23.8	6.16	4.866	
751.0	750.9	753.5	753.4	3.1	3.1	-157.63	6.4	22.1	30.1	23.9	6.17	4.870	
760.0	759.9	762.5	762.4	3.1	3.1	-160.07	6.4	22.0	30.1	23.9	6.18	4.871	
776.0	775.9	778.6	778.5	3.1	3.1	-164.13	6.4	21.7	30.1	24.0	6.19	4.872	
801.0	800.9	803.6	803.5	3.1	3.1	-160.59	6.5	21.3	30.2	24.0	6.20	4.873	
826.0	825.9	828.6	828.5	3.1	3.2	-152.68	6.5	20.9	30.2	24.0	6.21	4.867	
851.0	850.9	853.6	853.5	3.1	3.2	-164.76	6.6	20.5	30.3	24.1	6.23	4.861	
855.0	854.9	857.6	857.5	3.1	3.2	-163.59	6.6	20.4	30.3	24.1	6.23	4.861	
876.0	875.9	878.7	878.6	3.2	3.2	-157.40	6.6	20.0	30.3	24.1	6.24	4.852	
901.0	900.9	903.8	903.7	3.2	3.2	-155.51	6.6	19.5	30.2	24.0	6.26	4.829	
926.0	925.9	928.8	928.7	3.2	3.2	-162.56	6.5	18.9	30.1	23.8	6.28	4.789	
939.5	939.4	942.0	941.9	3.2	3.2	-165.70	6.5	18.6	29.9	23.6	6.29	4.759 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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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)			
950.0	949.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	31.7	25.7	6.00	5.283	
1,000.0	999.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	67.5	63.1	4.42	15.279	
1,045.0	1,044.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	109.6	105.6	4.00	27.427	
1,054.0	1,053.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	118.3	114.4	3.96	29.889	
1,100.0	1,099.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	163.2	159.4	3.85	42.387	
1,140.0	1,139.9	942.0	941.9	3.3	3.2	-168.59	6.5	18.6	202.7	198.9	3.82	53.083	
1,154.0	1,153.9	942.0	941.9	3.3	3.2	-168.59	6.5	18.6	216.6	212.7	3.81	56.789	
1,200.0	1,199.9	942.0	941.9	3.3	3.2	-168.94	6.5	18.6	262.2	258.4	3.81	68.827	
1,235.0	1,234.9	942.0	941.9	3.3	3.2	-169.24	6.5	18.6	297.0	293.1	3.81	77.841	
1,294.0	1,293.9	942.0	941.9	3.4	3.2	80.26	6.5	18.6	355.7	351.8	3.83	92.779	
1,300.0	1,299.9	942.0	941.9	3.4	3.2	80.26	6.5	18.6	361.6	357.8	3.84	94.294	
1,330.0	1,329.9	942.0	941.9	3.5	3.2	80.26	6.5	18.6	391.5	387.7	3.85	101.715	
1,400.0	1,399.9	942.0	941.9	3.6	3.2	80.26	6.5	18.6	461.3	457.4	3.89	118.717	
1,425.0	1,424.9	942.0	941.9	3.6	3.2	80.26	6.5	18.6	486.2	482.3	3.90	124.653	
1,500.0	1,499.9	942.0	941.9	3.8	3.2	80.26	6.5	18.6	561.1	557.1	3.95	142.138	
1,520.0	1,519.9	942.0	941.9	3.8	3.2	80.26	6.5	18.6	581.1	577.1	3.96	146.694	
1,600.0	1,599.9	942.0	941.9	4.0	3.2	80.26	6.5	18.6	660.9	656.9	4.02	164.576	
1,615.0	1,614.9	942.0	941.9	4.1	3.2	80.26	6.5	18.6	675.9	671.9	4.03	167.848	
1,700.0	1,699.9	942.0	941.9	4.3	3.2	80.26	6.5	18.6	760.8	756.7	4.09	186.035	
1,710.0	1,709.9	942.0	941.9	4.3	3.2	80.26	6.5	18.6	770.8	766.7	4.10	188.120	
1,800.0	1,799.9	942.0	941.9	4.6	3.2	80.26	6.5	18.6	860.7	856.6	4.17	206.523	
1,805.0	1,804.9	942.0	941.9	4.6	3.2	80.26	6.5	18.6	865.7	861.6	4.17	207.518	
1,900.0	1,899.9	942.0	941.9	4.9	3.2	80.26	6.5	18.6	960.7	956.4	4.25	226.054	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	2.1	2.1	3.0	3.0	89.43	0.3	30.0	30.0				
1.0	1.0	3.1	3.1	3.0	3.0	89.43	0.3	30.0	30.0				
4.2	4.2	6.3	6.3	3.0	3.0	136.39	0.3	30.0	30.0				
95.0	95.0	97.1	97.1	3.0	3.0	136.49	0.4	30.0	30.1	24.1	6.00	5.023	
101.0	101.0	103.1	103.1	3.0	3.0	136.51	0.4	30.0	30.2	24.2	6.00	5.026	
126.0	126.0	128.3	128.3	3.0	3.0	152.90	0.5	29.9	30.2	24.2	6.00	5.031	
151.0	151.0	153.1	153.1	3.0	3.0	145.20	0.6	29.8	30.3	24.3	6.00	5.040	
176.0	176.0	178.3	178.3	3.0	3.0	135.80	0.8	29.7	30.3	24.3	6.00	5.043	
190.0	190.0	192.3	192.3	3.0	3.0	128.03	0.9	29.6	30.3	24.3	6.01	5.040	
193.5	193.5	195.8	195.8	3.0	3.0	126.62	0.9	29.6	30.3	24.3	6.01	5.040	
201.0	201.0	203.3	203.3	3.0	3.0	124.11	1.0	29.5	30.3	24.3	6.01	5.040	
226.0	226.0	228.3	228.3	3.0	3.0	114.21	1.2	29.4	30.2	24.2	6.01	5.032	
251.0	251.0	253.4	253.4	3.0	3.0	108.59	1.4	29.1	30.1	24.1	6.01	5.012	
276.0	276.0	278.4	278.4	3.0	3.0	118.54	1.7	28.9	30.0	24.0	6.01	4.990	
285.0	285.0	287.4	287.4	3.0	3.0	121.21	1.8	28.8	30.0	24.0	6.01	4.984	
301.0	301.0	303.4	303.4	3.0	3.0	125.37	2.0	28.7	29.9	23.9	6.02	4.975	
326.0	326.0	328.4	328.4	3.0	3.0	133.47	2.2	28.4	29.9	23.9	6.02	4.966	
334.6	334.6	337.0	337.0	3.0	3.0	135.53	2.3	28.3	29.9	23.9	6.02	4.964	
351.0	351.0	353.4	353.4	3.0	3.0	139.25	2.5	28.1	29.9	23.9	6.03	4.963	
376.0	376.0	378.4	378.4	3.0	3.0	140.87	2.7	27.9	30.0	23.9	6.03	4.967	
380.0	380.0	382.4	382.4	3.0	3.0	140.10	2.8	27.9	30.0	23.9	6.03	4.968	
401.0	401.0	403.5	403.5	3.0	3.0	135.97	3.0	27.6	30.0	23.9	6.04	4.963	
426.0	426.0	428.5	428.5	3.0	3.0	140.31	3.3	27.3	29.9	23.9	6.04	4.952	
451.0	451.0	453.6	453.5	3.0	3.0	143.87	3.6	26.9	29.9	23.8	6.05	4.939	
475.0	475.0	477.7	477.6	3.0	3.0	154.14	4.0	26.5	29.8	23.7	6.05	4.921	
476.0	476.0	478.7	478.6	3.0	3.0	154.55	4.0	26.5	29.8	23.7	6.06	4.921	
501.0	501.0	503.7	503.6	3.1	3.1	152.54	4.3	26.0	29.7	23.6	6.06	4.898	
526.0	526.0	528.7	528.6	3.1	3.1	156.16	4.7	25.5	29.6	23.5	6.07	4.878	
548.3	548.2	550.9	550.8	3.1	3.1	160.72	5.0	25.1	29.6	23.5	6.08	4.867	
551.0	551.0	553.6	553.6	3.1	3.1	161.29	5.0	25.0	29.6	23.5	6.08	4.867	
570.0	570.0	572.6	572.5	3.1	3.1	165.84	5.2	24.7	29.6	23.5	6.09	4.863	
576.0	576.0	578.6	578.5	3.1	3.1	167.32	5.2	24.6	29.6	23.5	6.09	4.863	
601.0	601.0	603.6	603.5	3.1	3.1	170.31	5.4	24.2	29.7	23.6	6.10	4.862	
626.0	625.9	628.6	628.5	3.1	3.1	178.27	5.7	23.8	29.7	23.6	6.11	4.862	
651.0	650.9	653.5	653.5	3.1	3.1	174.55	5.8	23.4	29.7	23.6	6.12	4.859	
665.0	664.9	667.5	667.4	3.1	3.1	177.52	5.9	23.2	29.8	23.6	6.13	4.857	
676.0	675.9	678.5	678.4	3.1	3.1	179.71	6.0	23.1	29.8	23.7	6.13	4.857	
701.0	700.9	703.5	703.4	3.1	3.1	-174.32	6.1	22.8	29.9	23.7	6.15	4.861	
726.0	725.9	728.5	728.4	3.1	3.1	-164.50	6.3	22.4	30.0	23.8	6.16	4.866	
751.0	750.9	753.5	753.4	3.1	3.1	-157.63	6.4	22.1	30.1	23.9	6.17	4.870	
760.0	759.9	762.5	762.4	3.1	3.1	-160.07	6.4	22.0	30.1	23.9	6.18	4.871	
776.0	775.9	778.6	778.5	3.1	3.1	-164.13	6.4	21.7	30.1	24.0	6.19	4.872	
801.0	800.9	803.6	803.5	3.1	3.1	-160.59	6.5	21.3	30.2	24.0	6.20	4.873	
826.0	825.9	828.6	828.5	3.1	3.2	-152.68	6.5	20.9	30.2	24.0	6.21	4.867	
851.0	850.9	853.6	853.5	3.1	3.2	-164.76	6.6	20.5	30.3	24.1	6.23	4.861	
855.0	854.9	857.6	857.5	3.1	3.2	-163.59	6.6	20.4	30.3	24.1	6.23	4.861	
876.0	875.9	878.7	878.6	3.2	3.2	-157.40	6.6	20.0	30.3	24.1	6.24	4.852	
901.0	900.9	903.8	903.7	3.2	3.2	-155.51	6.6	19.5	30.2	24.0	6.26	4.829	
926.0	925.9	928.8	928.7	3.2	3.2	-162.56	6.5	18.9	30.1	23.8	6.28	4.789	
950.0	949.9	952.8	952.7	3.2	3.2	-168.71	6.5	18.3	29.8	23.5	6.29	4.735	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS							Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,000.0	999.9	1,002.8	1,002.7	3.2	3.2	-169.26	6.5	17.1	29.2	22.9	6.32	4.620		
1,045.0	1,044.9	1,047.8	1,047.7	3.2	3.2	-169.77	6.5	16.0	28.6	22.3	6.34	4.514		
1,054.0	1,053.9	1,056.8	1,056.7	3.2	3.2	-169.88	6.5	15.8	28.5	22.2	6.35	4.492		
1,100.0	1,099.9	1,102.8	1,102.7	3.2	3.3	-170.43	6.4	14.6	27.9	21.6	6.39	4.374		
1,140.0	1,139.9	1,142.8	1,142.6	3.3	3.3	-170.93	6.4	13.7	27.5	21.0	6.44	4.262		
1,154.0	1,153.9	1,156.8	1,156.6	3.3	3.3	-171.11	6.4	13.3	27.3	20.8	6.46	4.223		
1,200.0	1,199.9	1,202.6	1,202.4	3.3	3.3	-171.60	6.4	12.4	26.8	20.3	6.54	4.105		
1,235.0	1,234.9	1,237.4	1,237.2	3.3	3.4	-171.85	6.4	11.9	26.6	20.0	6.61	4.028		
1,294.0	1,293.9	1,296.2	1,296.0	3.4	3.4	78.03	6.4	11.7	26.5	19.8	6.74	3.931		
1,300.0	1,299.9	1,302.2	1,302.0	3.4	3.4	78.03	6.4	11.7	26.5	19.8	6.76	3.923		
1,330.0	1,329.9	1,332.2	1,332.0	3.5	3.5	78.03	6.4	11.7	26.5	19.7	6.85	3.872		
1,400.0	1,399.9	1,402.2	1,402.0	3.6	3.6	78.03	6.4	11.7	26.5	19.4	7.07	3.750		
1,425.0	1,424.9	1,427.2	1,427.0	3.6	3.6	78.03	6.4	11.7	26.5	19.3	7.19	3.689		
1,500.0	1,499.9	1,502.2	1,502.0	3.8	3.8	78.03	6.4	11.7	26.5	19.0	7.53	3.520		
1,520.0	1,519.9	1,522.2	1,522.0	3.8	3.8	78.03	6.4	11.7	26.5	18.9	7.63	3.476		
1,600.0	1,599.9	1,602.2	1,602.0	4.0	4.0	78.03	6.4	11.7	26.5	18.5	8.03	3.300		
1,615.0	1,614.9	1,617.2	1,617.0	4.1	4.1	78.03	6.4	11.7	26.5	18.4	8.11	3.268		
1,700.0	1,699.9	1,702.2	1,702.0	4.3	4.3	78.03	6.4	11.7	26.5	17.9	8.57	3.095		
1,710.0	1,709.9	1,712.2	1,712.0	4.3	4.4	78.03	6.4	11.7	26.5	17.9	8.62	3.075		
1,800.0	1,799.9	1,802.2	1,802.0	4.6	4.6	78.03	6.4	11.7	26.5	17.4	9.12	2.906		
1,805.0	1,804.9	1,807.2	1,807.0	4.6	4.6	78.03	6.4	11.7	26.5	17.4	9.15	2.897		
1,900.0	1,899.9	1,902.2	1,902.0	4.9	4.9	78.03	6.4	11.7	26.5	16.8	9.70	2.733		
1,995.0	1,994.9	1,997.2	1,997.0	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.27	2.582		
1,995.2	1,995.1	1,997.4	1,997.2	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.27	2.582 CC		
2,000.1	2,000.0	2,002.3	2,002.1	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.30	2.574 ES		
2,090.0	2,089.9	2,091.4	2,091.1	5.5	5.6	-80.27	6.2	13.1	27.6	16.7	10.92	2.531 SF		
2,100.0	2,099.9	2,101.3	2,101.0	5.5	5.6	-80.69	6.2	13.4	27.9	16.9	10.99	2.538		
2,185.0	2,184.7	2,185.4	2,185.0	6.0	6.1	-85.41	5.7	17.6	31.3	19.6	11.67	2.679		
2,200.0	2,199.7	2,200.0	2,199.6	6.1	6.2	-86.38	5.5	18.6	32.1	20.3	11.79	2.723		
2,250.1	2,249.7	2,249.7	2,249.1	6.3	6.5	-89.76	5.1	22.4	35.4	23.3	12.17	2.912		
2,280.0	2,279.4	2,279.1	2,278.4	6.3	6.7	-91.58	4.8	25.1	37.8	25.4	12.37	3.058		
2,300.0	2,299.4	2,298.8	2,298.0	6.4	6.8	-92.54	4.5	27.1	39.6	27.1	12.50	3.167		
2,375.0	2,374.1	2,372.4	2,371.2	6.6	7.3	-94.62	3.5	35.6	47.2	34.2	13.00	3.635		
2,400.0	2,399.0	2,396.9	2,395.5	6.7	7.5	-94.88	3.1	38.9	50.2	37.0	13.16	3.811		
2,470.0	2,468.7	2,465.3	2,463.0	6.9	7.8	-94.85	1.9	49.1	59.2	45.6	13.60	4.355		
2,500.0	2,498.6	2,494.8	2,492.2	7.0	7.9	-94.61	1.3	53.9	63.5	49.7	13.78	4.607		
2,565.0	2,563.4	2,559.1	2,555.6	7.2	8.0	-94.16	0.0	64.4	72.7	58.6	14.16	5.136		
2,600.0	2,598.2	2,593.8	2,589.8	7.3	8.1	-93.96	-0.7	70.1	77.7	63.3	14.36	5.409		
2,660.0	2,658.0	2,653.2	2,648.4	7.5	8.3	-93.67	-1.9	79.8	86.2	71.5	14.72	5.858		
2,700.0	2,697.8	2,692.8	2,687.4	7.6	8.4	-93.51	-2.6	86.3	91.9	77.0	14.96	6.145		
2,755.0	2,752.6	2,747.2	2,741.1	7.8	8.5	-93.32	-3.7	95.2	99.7	84.4	15.29	6.523		
2,800.0	2,797.5	2,791.7	2,785.0	7.9	8.7	-93.18	-4.6	102.5	106.1	90.6	15.56	6.820		
2,850.0	2,847.3	2,841.2	2,833.8	8.1	8.8	-93.05	-5.6	110.7	113.2	97.4	15.87	7.136		
2,900.0	2,897.1	2,890.7	2,882.7	8.3	8.9	-92.93	-6.6	118.8	120.4	104.2	16.18	7.439		
2,945.0	2,941.9	2,935.3	2,926.6	8.4	9.1	-92.84	-7.5	126.1	126.8	110.3	16.46	7.702		
3,000.0	2,996.7	2,989.7	2,980.3	8.6	9.2	-92.73	-8.5	135.0	134.6	117.8	16.80	8.009		
3,040.0	3,036.6	3,029.3	3,019.3	8.7	9.4	-92.67	-9.3	141.5	140.3	123.2	17.06	8.224		
3,100.0	3,096.3	3,088.7	3,077.9	8.9	9.5	-92.58	-10.5	151.2	148.8	131.4	17.44	8.534		
3,135.0	3,131.2	3,123.3	3,112.1	9.1	9.7	-92.53	-11.2	156.9	153.8	136.1	17.66	8.708		
3,200.0	3,195.9	3,187.7	3,175.5	9.3	9.9	-92.44	-12.5	167.4	163.0	145.0	18.08	9.018		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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	3,225.8	3,217.4	3,204.8	9.4	9.9	-92.41	-13.0	172.3	167.3	149.0	18.27	9.156	
3,300.0	3,295.6	3,286.7	3,273.2	9.6	10.2	-92.33	-14.4	183.6	177.3	158.5	18.73	9.465	
3,325.0	3,320.5	3,311.4	3,297.6	9.7	10.2	-92.31	-14.9	187.7	180.8	161.9	18.89	9.571	
3,400.0	3,395.2	3,385.6	3,370.8	10.0	10.5	-92.24	-16.4	199.9	191.5	172.1	19.38	9.879	
3,420.0	3,415.1	3,405.4	3,390.3	10.0	10.5	-92.22	-16.8	203.1	194.3	174.8	19.52	9.958	
3,500.0	3,494.8	3,484.6	3,468.4	10.3	10.8	-92.16	-18.3	216.1	205.7	185.7	20.05	10.262	
3,515.0	3,509.7	3,499.5	3,483.1	10.3	10.8	-92.15	-18.6	218.5	207.9	187.7	20.15	10.318	
3,600.0	3,594.4	3,583.6	3,566.0	10.6	11.1	-92.09	-20.3	232.3	220.0	199.2	20.71	10.619	
3,610.0	3,604.4	3,593.5	3,575.8	10.7	11.2	-92.08	-20.5	233.9	221.4	200.6	20.78	10.653	
3,700.0	3,694.0	3,682.6	3,663.7	11.0	11.4	-92.02	-22.3	248.5	234.2	212.8	21.39	10.950	
3,705.0	3,699.0	3,687.5	3,668.5	11.0	11.5	-92.02	-22.4	249.3	234.9	213.5	21.42	10.966	
3,800.0	3,793.7	3,781.6	3,761.3	11.3	11.8	-91.97	-24.2	264.7	248.4	226.4	22.06	11.260	
3,895.0	3,888.3	3,875.6	3,854.0	11.7	12.1	-91.92	-26.1	280.1	261.9	239.2	22.71	11.534	
3,900.0	3,893.3	3,880.6	3,858.9	11.7	12.1	-91.92	-26.2	281.0	262.6	239.9	22.74	11.548	
3,990.0	3,982.9	3,969.6	3,946.8	12.0	12.4	-91.88	-28.0	295.6	275.5	252.1	23.36	11.791	
4,007.7	4,000.6	3,987.2	3,964.1	12.1	12.5	-91.87	-28.3	298.4	278.0	254.5	23.48	11.837	
4,085.0	4,077.6	4,063.7	4,039.5	12.3	12.7	-91.85	-29.8	311.0	289.0	264.9	24.01	12.033	
4,100.0	4,092.6	4,078.5	4,054.2	12.4	12.8	-91.82	-30.1	313.4	291.1	267.0	24.12	12.070	
4,180.0	4,172.4	4,157.7	4,132.2	12.7	13.1	-91.56	-31.7	326.4	302.4	277.8	24.67	12.260	
4,200.0	4,192.4	4,177.5	4,151.8	12.7	13.1	-91.47	-32.1	329.6	305.2	280.4	24.80	12.306	
4,275.0	4,267.3	4,251.7	4,224.9	13.0	13.4	-91.02	-33.6	341.8	315.9	290.5	25.32	12.475	
4,300.0	4,292.3	4,276.4	4,249.3	13.1	13.5	-90.84	-34.0	345.8	319.4	293.9	25.49	12.530	
4,370.0	4,362.2	4,345.6	4,317.5	13.3	13.7	-90.26	-35.4	357.2	329.4	303.4	25.97	12.680	
4,400.0	4,392.2	4,375.2	4,346.8	13.4	13.8	-89.97	-36.0	362.0	333.6	307.4	26.18	12.744	
4,465.0	4,457.2	4,439.4	4,410.1	13.6	14.0	-89.30	-37.3	372.5	342.9	316.3	26.61	12.886	
4,507.8	4,500.0	4,481.6	4,451.7	13.8	14.2	67.64	-38.1	379.4	349.1	322.2	26.90	12.979	
4,560.0	4,552.2	4,533.1	4,502.5	13.9	14.4	68.31	-39.1	387.9	356.7	329.4	27.25	13.088	
4,600.0	4,592.2	4,572.5	4,541.4	14.1	14.5	68.81	-39.9	394.4	362.5	335.0	27.52	13.171	
4,655.0	4,647.2	4,626.8	4,594.9	14.2	14.7	69.47	-41.0	403.2	370.5	342.6	27.90	13.283	
4,700.0	4,692.2	4,671.2	4,638.7	14.4	14.8	69.99	-41.9	410.5	377.2	349.0	28.20	13.374	
4,750.0	4,742.2	4,720.5	4,687.3	14.5	15.0	70.54	-42.9	418.6	384.6	356.0	28.54	13.473	
4,800.0	4,792.2	4,769.8	4,735.9	14.7	15.2	71.08	-43.8	426.7	392.0	363.1	28.89	13.570	
4,845.0	4,837.2	4,814.2	4,779.7	14.9	15.4	71.54	-44.7	433.9	398.7	369.5	29.19	13.657	
4,900.0	4,892.2	4,868.4	4,833.2	15.0	15.5	72.09	-45.8	442.8	407.0	377.4	29.57	13.762	
4,940.0	4,932.2	4,907.9	4,872.1	15.2	15.7	72.47	-46.6	449.3	413.0	383.1	29.85	13.836	
5,000.0	4,992.2	4,967.0	4,930.5	15.4	15.9	73.02	-47.7	459.0	422.0	391.8	30.26	13.947	
5,035.0	5,027.2	5,001.6	4,964.5	15.5	16.0	73.34	-48.4	464.7	427.3	396.8	30.50	14.011	
5,100.0	5,092.2	5,065.7	5,027.8	15.7	16.3	73.90	-49.7	475.2	437.2	406.3	30.95	14.127	
5,130.0	5,122.2	5,095.3	5,057.0	15.8	16.4	74.15	-50.3	480.0	441.8	410.6	31.16	14.180	
5,200.0	5,192.2	5,164.3	5,125.0	16.1	16.6	74.71	-51.7	491.3	452.5	420.8	31.64	14.301	
5,225.0	5,217.2	5,189.0	5,149.4	16.1	16.7	74.91	-52.1	495.4	456.3	424.5	31.81	14.344	
5,300.0	5,292.2	5,262.9	5,222.3	16.4	17.0	75.48	-53.6	507.5	467.8	435.5	32.33	14.470	
5,320.0	5,312.2	5,282.7	5,241.8	16.5	17.0	75.62	-54.0	510.7	470.9	438.4	32.47	14.503	
5,400.0	5,392.2	5,361.6	5,319.6	16.7	17.3	76.19	-55.6	523.6	483.3	450.2	33.02	14.634	
5,415.0	5,407.2	5,376.4	5,334.2	16.8	17.4	76.29	-55.9	526.1	485.6	452.5	33.13	14.658	
5,500.0	5,492.2	5,460.2	5,416.9	17.1	17.7	76.86	-57.5	539.8	498.8	465.0	33.72	14.792	
5,510.0	5,502.2	5,470.0	5,426.6	17.1	17.7	76.92	-57.7	541.4	500.3	466.5	33.79	14.808	
5,600.0	5,592.2	5,558.8	5,514.1	17.4	18.0	77.49	-59.5	556.0	514.3	479.9	34.41	14.945	
5,605.0	5,597.2	5,563.7	5,519.0	17.4	18.1	77.52	-59.6	556.8	515.1	480.7	34.45	14.953	
5,700.0	5,692.2	5,657.4	5,611.4	17.7	18.4	78.08	-61.4	572.1	529.9	494.8	35.11	15.094	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
5,795.0	5,787.2	5,751.1	5,703.8	18.1	18.7	78.61	-63.3	587.5	544.8	509.1	35.77	15.230	
5,800.0	5,792.2	5,756.1	5,708.7	18.1	18.8	78.64	-63.4	588.3	545.6	509.8	35.81	15.237	
5,890.0	5,882.2	5,844.8	5,796.2	18.4	19.1	79.11	-65.1	602.8	559.8	523.3	36.44	15.362	
5,900.0	5,892.2	5,854.7	5,806.0	18.4	19.1	79.17	-65.3	604.5	561.3	524.8	36.51	15.376	
5,985.0	5,977.2	5,938.5	5,888.7	18.7	19.4	79.59	-67.0	618.2	574.7	537.6	37.10	15.490	
6,000.0	5,992.2	5,953.3	5,903.2	18.8	19.5	79.66	-67.3	620.6	577.1	539.9	37.21	15.510	
6,080.0	6,072.2	6,032.2	5,981.1	19.0	19.8	80.04	-68.9	633.5	589.7	552.0	37.77	15.615	
6,100.0	6,092.2	6,052.0	6,000.5	19.1	19.9	80.14	-69.2	636.8	592.9	555.0	37.91	15.640	
6,175.0	6,167.2	6,125.9	6,073.5	19.4	20.1	80.47	-70.7	648.9	604.8	566.3	38.43	15.735	
6,200.0	6,192.2	6,150.6	6,097.8	19.5	20.2	80.58	-71.2	652.9	608.7	570.1	38.61	15.766	
6,270.0	6,262.2	6,219.6	6,165.9	19.7	20.5	80.88	-72.6	664.3	619.8	580.7	39.10	15.852	
6,300.0	6,292.2	6,249.2	6,195.1	19.8	20.6	81.01	-73.2	669.1	624.6	585.3	39.31	15.888	
6,365.0	6,357.2	6,313.3	6,258.3	20.0	20.8	81.27	-74.4	679.6	635.0	595.2	39.77	15.966	
6,400.0	6,392.2	6,347.8	6,292.4	20.2	21.0	81.41	-75.1	685.3	640.5	600.5	40.02	16.007	
6,460.0	6,452.2	6,407.0	6,350.7	20.4	21.2	81.65	-76.3	695.0	650.1	609.6	40.44	16.076	
6,500.0	6,492.2	6,446.5	6,389.6	20.5	21.3	81.80	-77.1	701.4	656.5	615.7	40.72	16.121	
6,555.0	6,547.2	6,500.7	6,443.1	20.7	21.5	82.00	-78.1	710.3	665.2	624.1	41.11	16.183	
6,600.0	6,592.2	6,545.1	6,486.9	20.8	21.7	82.16	-79.0	717.6	672.4	631.0	41.43	16.232	
6,650.0	6,642.2	6,594.4	6,535.5	21.0	21.9	82.34	-80.0	725.7	680.4	638.6	41.78	16.286	
6,700.0	6,692.2	6,643.7	6,584.2	21.2	22.1	82.51	-81.0	733.7	688.4	646.3	42.13	16.340	
6,745.0	6,737.2	6,688.1	6,628.0	21.3	22.2	82.66	-81.9	741.0	695.6	653.2	42.45	16.387	
6,800.0	6,792.2	6,742.4	6,681.5	21.5	22.4	82.85	-82.9	749.9	704.4	661.6	42.84	16.444	
6,840.0	6,832.2	6,781.8	6,720.4	21.7	22.6	82.97	-83.7	756.4	710.8	667.7	43.12	16.485	
6,900.0	6,892.2	6,841.0	6,778.7	21.9	22.8	83.16	-84.9	766.1	720.5	676.9	43.54	16.545	
6,935.0	6,927.2	6,875.5	6,812.8	22.0	22.9	83.27	-85.6	771.7	726.1	682.3	43.79	16.580	
7,000.0	6,992.2	6,939.6	6,876.0	22.2	23.2	83.47	-86.8	782.2	736.5	692.3	44.25	16.644	
7,030.0	7,022.2	6,969.2	6,905.2	22.3	23.3	83.56	-87.4	787.1	741.3	696.9	44.46	16.672	
7,100.0	7,092.2	7,038.2	6,973.3	22.6	23.5	83.76	-88.8	798.4	752.6	707.6	44.96	16.739	
7,125.0	7,117.2	7,062.9	6,997.6	22.7	23.6	83.83	-89.3	802.4	756.6	711.5	45.14	16.762	
7,200.0	7,192.2	7,136.9	7,070.6	22.9	23.9	84.04	-90.8	814.6	768.7	723.0	45.67	16.831	
7,220.0	7,212.2	7,156.6	7,090.0	23.0	24.0	84.09	-91.2	817.8	771.9	726.1	45.81	16.850	
7,300.0	7,292.2	7,235.5	7,167.8	23.3	24.3	84.31	-92.7	830.7	784.8	738.4	46.38	16.921	
7,315.0	7,307.2	7,250.3	7,182.4	23.3	24.3	84.35	-93.0	833.1	787.2	740.7	46.49	16.935	
7,400.0	7,392.2	7,334.1	7,265.1	23.6	24.6	84.57	-94.7	846.9	800.9	753.8	47.09	17.009	
7,410.0	7,402.2	7,344.0	7,274.8	23.7	24.7	84.59	-94.9	848.5	802.5	755.4	47.16	17.017	
7,500.0	7,492.2	7,432.8	7,362.4	24.0	25.0	84.81	-96.6	863.0	817.1	769.3	47.80	17.093	
7,505.0	7,497.2	7,437.7	7,367.2	24.0	25.0	84.82	-96.7	863.8	817.9	770.0	47.84	17.098	
7,600.0	7,592.2	7,531.4	7,459.7	24.3	25.4	85.05	-98.6	879.2	833.2	784.7	48.51	17.176	
7,695.0	7,687.2	7,632.6	7,559.5	24.7	25.8	85.28	-100.6	895.6	848.4	799.2	49.24	17.230	
7,700.0	7,692.2	7,638.4	7,565.2	24.7	25.8	85.29	-100.7	896.5	849.2	799.9	49.28	17.231	
7,790.0	7,782.2	7,742.7	7,668.4	25.0	26.2	85.50	-102.5	911.6	862.0	812.0	50.02	17.234	
7,800.0	7,792.2	7,754.3	7,679.9	25.0	26.2	85.52	-102.7	913.2	863.4	813.3	50.10	17.233	
7,885.0	7,877.2	7,853.4	7,778.2	25.3	26.6	85.68	-104.2	925.6	873.9	823.1	50.79	17.207	
7,900.0	7,892.2	7,870.9	7,795.6	25.4	26.6	85.71	-104.4	927.6	875.6	824.7	50.91	17.200	
7,980.0	7,972.2	7,964.5	7,888.7	25.7	27.0	85.84	-105.6	937.5	884.0	832.5	51.55	17.150	
8,000.0	7,992.2	7,988.0	7,912.1	25.7	27.1	85.86	-105.9	939.8	885.9	834.2	51.70	17.135	
8,075.0	8,067.2	8,076.2	7,999.9	26.0	27.4	85.96	-106.8	947.4	892.3	840.0	52.29	17.066	
8,100.0	8,092.2	8,105.6	8,029.2	26.1	27.5	85.99	-107.1	949.6	894.2	841.7	52.48	17.040	
8,170.0	8,162.2	8,188.1	8,111.6	26.3	27.8	86.05	-107.8	955.1	898.8	845.8	53.01	16.955	
8,200.0	8,192.2	8,223.5	8,146.9	26.4	27.9	86.08	-108.0	957.1	900.5	847.2	53.24	16.915	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
8,265.0	8,257.2	8,300.3	8,223.7	26.7	28.2	86.12	-108.4	960.7	903.5	849.8	53.72	16.819	
8,300.0	8,292.2	8,341.7	8,265.0	26.8	28.3	86.14	-108.6	962.2	904.7	850.8	53.97	16.763	
8,360.0	8,352.2	8,412.7	8,336.0	27.0	28.6	86.16	-108.9	964.1	906.3	851.9	54.41	16.658	
8,400.0	8,392.2	8,460.1	8,383.3	27.1	28.7	86.17	-108.9	964.9	907.0	852.3	54.69	16.583	
8,455.0	8,447.2	8,525.2	8,448.5	27.3	28.9	86.17	-109.0	965.3	907.3	852.3	55.04	16.486	
8,500.0	8,492.2	8,571.1	8,494.3	27.5	28.9	86.17	-109.0	965.3	907.3	852.1	55.20	16.436	
8,550.0	8,542.2	8,621.1	8,544.3	27.7	28.9	86.17	-109.0	965.3	907.3	851.9	55.38	16.383	
8,600.0	8,592.2	8,671.1	8,594.3	27.8	28.9	86.17	-109.0	965.3	907.3	851.8	55.56	16.329	
8,645.0	8,637.2	8,716.1	8,639.3	28.0	28.9	86.17	-109.0	965.3	907.3	851.6	55.73	16.281	
8,700.0	8,692.2	8,771.1	8,694.3	28.2	28.9	86.17	-109.0	965.3	907.3	851.4	55.93	16.221	
8,740.0	8,732.2	8,811.1	8,734.3	28.3	28.9	86.17	-109.0	965.3	907.3	851.2	56.08	16.178	
8,800.0	8,792.2	8,871.1	8,794.3	28.5	28.9	86.17	-109.0	965.3	907.3	851.0	56.31	16.113	
8,835.0	8,827.2	8,906.1	8,829.3	28.7	29.0	86.17	-109.0	965.3	907.3	850.9	56.44	16.075	
8,900.0	8,892.2	8,971.1	8,894.3	28.9	29.0	86.17	-109.0	965.3	907.3	850.6	56.69	16.005	
8,930.0	8,922.2	9,001.1	8,924.3	29.0	29.0	86.17	-109.0	965.3	907.3	850.5	56.80	15.973	
9,000.0	8,992.2	9,071.1	8,994.3	29.2	29.0	86.17	-109.0	965.3	907.3	850.2	57.07	15.897	
9,025.0	9,017.2	9,096.1	9,019.3	29.3	29.0	86.17	-109.0	965.3	907.3	850.2	57.17	15.871	
9,100.0	9,092.2	9,171.1	9,094.3	29.6	29.0	86.17	-109.0	965.3	907.3	849.9	57.46	15.790	
9,120.0	9,112.2	9,191.1	9,114.3	29.7	29.0	86.17	-109.0	965.3	907.3	849.8	57.54	15.768	
9,200.0	9,192.2	9,271.1	9,194.3	30.0	29.1	86.17	-109.0	965.3	907.3	849.5	57.86	15.682	
9,215.0	9,207.2	9,286.1	9,209.3	30.0	29.1	86.17	-109.0	965.3	907.3	849.4	57.92	15.666	
9,300.0	9,292.2	9,371.1	9,294.3	30.3	29.1	86.17	-109.0	965.3	907.3	849.1	58.25	15.575	
9,310.0	9,302.2	9,381.1	9,304.3	30.3	29.1	86.17	-109.0	965.3	907.3	849.0	58.29	15.564	
9,400.0	9,392.2	9,471.1	9,394.3	30.7	29.1	86.17	-109.0	965.3	907.3	848.7	58.66	15.468	
9,405.0	9,397.2	9,476.1	9,399.3	30.7	29.1	86.17	-109.0	965.3	907.3	848.6	58.68	15.463	
9,500.0	9,492.2	9,571.1	9,494.3	31.0	29.2	86.17	-109.0	965.3	907.3	848.3	59.06	15.362	
9,595.0	9,587.2	9,666.1	9,589.3	31.3	29.2	86.17	-109.0	965.3	907.3	847.9	59.46	15.261	
9,600.0	9,592.2	9,671.1	9,594.3	31.4	29.2	86.17	-109.0	965.3	907.3	847.8	59.48	15.255	
9,690.0	9,682.2	9,761.1	9,684.3	31.7	29.3	86.17	-109.0	965.3	907.3	847.5	59.85	15.160	
9,700.0	9,692.2	9,771.1	9,694.3	31.7	29.3	86.17	-109.0	965.3	907.3	847.4	59.89	15.149	
9,785.0	9,777.2	9,856.1	9,779.3	32.0	29.3	86.17	-109.0	965.3	907.3	847.1	60.25	15.059	
9,800.0	9,792.2	9,871.1	9,794.3	32.1	29.4	86.17	-109.0	965.3	907.3	847.0	60.31	15.044	
9,880.0	9,872.2	9,951.1	9,874.3	32.4	29.4	86.17	-109.0	965.3	907.3	846.7	60.65	14.959	
9,900.0	9,892.2	9,971.1	9,894.3	32.4	29.4	86.17	-109.0	965.3	907.3	846.6	60.74	14.938	
9,975.0	9,967.2	10,046.1	9,969.3	32.7	29.5	86.17	-109.0	965.3	907.3	846.3	61.06	14.860	
10,000.0	9,992.2	10,071.1	9,994.3	32.8	29.5	86.17	-109.0	965.3	907.3	846.2	61.17	14.833	
10,001.8	9,994.0	10,072.9	9,996.1	32.8	29.5	86.17	-109.0	965.3	907.3	846.1	61.17	14.832	
10,070.0	10,062.2	10,138.8	10,062.1	33.0	29.5	86.15	-108.6	965.3	907.3	845.9	61.47	14.760	
10,100.0	10,092.2	10,165.5	10,088.7	33.1	29.6	86.04	-106.9	965.3	907.5	845.9	61.61	14.730	
10,165.0	10,157.2	10,222.1	10,144.6	33.3	29.6	85.49	-98.2	965.3	908.2	846.4	61.80	14.696	
10,196.3	10,188.5	10,250.0	10,171.7	33.3	29.7	85.07	-91.5	965.2	908.8	846.9	61.89	14.684	
10,200.0	10,192.2	10,250.0	10,171.7	33.3	29.7	87.09	-91.5	965.2	908.9	847.0	61.90	14.684	
10,225.0	10,217.2	10,272.1	10,192.8	33.3	29.7	86.66	-85.0	965.2	909.5	847.6	61.93	14.687	
10,250.0	10,242.1	10,292.6	10,212.1	33.3	29.7	86.25	-78.2	965.2	910.2	848.2	61.95	14.691	
10,260.0	10,252.0	10,300.0	10,219.0	33.3	29.7	86.11	-75.5	965.2	910.4	848.5	61.96	14.693	
10,275.0	10,266.9	10,312.8	10,230.9	33.3	29.8	85.86	-70.7	965.2	910.9	848.9	61.98	14.697	
10,300.0	10,291.4	10,332.9	10,249.2	33.3	29.8	85.48	-62.4	965.1	911.7	849.7	62.00	14.703	
10,325.0	10,315.7	10,352.9	10,267.0	33.4	29.8	85.10	-53.4	965.1	912.5	850.5	62.03	14.712	
10,350.0	10,339.6	10,375.0	10,286.3	33.4	29.8	84.71	-42.6	965.1	913.4	851.3	62.05	14.721	
10,355.0	10,344.3	10,375.0	10,286.3	33.4	29.8	84.69	-42.6	965.1	913.6	851.5	62.05	14.723	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program:		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,375.0	10,363.1	10,392.4	10,301.2	33.4	29.9	84.39	-33.5	965.0	914.3	852.2	62.06	14.731		
10,400.0	10,386.1	10,412.0	10,317.4	33.4	29.9	84.05	-22.6	965.0	915.2	853.1	62.08	14.743		
10,425.0	10,408.6	10,431.5	10,333.1	33.4	29.9	83.72	-11.1	965.0	916.2	854.1	62.09	14.755		
10,450.0	10,430.5	10,450.0	10,347.6	33.4	29.9	83.41	0.5	964.9	917.2	855.0	62.10	14.768		
10,475.0	10,451.7	10,470.1	10,362.9	33.4	30.0	83.11	13.6	964.9	918.1	856.0	62.11	14.782		
10,500.0	10,472.2	10,489.4	10,376.9	33.4	30.0	82.82	26.7	964.8	919.1	857.0	62.12	14.796		
10,525.0	10,491.9	10,508.5	10,390.3	33.4	30.0	82.55	40.4	964.8	920.1	858.0	62.13	14.810		
10,545.0	10,507.1	10,525.0	10,401.5	33.5	30.0	82.34	52.6	964.7	920.9	858.8	62.13	14.821		
10,550.0	10,510.8	10,525.0	10,401.5	33.5	30.0	82.32	52.6	964.7	921.1	859.0	62.13	14.826		
10,575.0	10,528.8	10,546.5	10,415.4	33.5	30.0	82.07	69.0	964.7	922.1	859.9	62.14	14.839		
10,600.0	10,545.8	10,565.5	10,426.9	33.5	30.1	81.85	84.0	964.6	923.0	860.9	62.14	14.854		
10,625.0	10,561.9	10,584.4	10,437.9	33.5	30.1	81.65	99.4	964.6	923.9	861.8	62.14	14.868		
10,640.0	10,571.1	10,595.7	10,444.2	33.5	30.1	81.54	108.9	964.5	924.5	862.3	62.15	14.876		
10,650.0	10,577.0	10,603.3	10,448.2	33.5	30.1	81.47	115.2	964.5	924.9	862.7	62.15	14.881		
10,675.0	10,591.0	10,625.0	10,459.3	33.5	30.1	81.30	133.9	964.4	925.7	863.6	62.16	14.892		
10,700.0	10,603.9	10,640.9	10,466.9	33.5	30.1	81.16	147.9	964.4	926.6	864.4	62.16	14.906		
10,725.0	10,615.6	10,659.7	10,475.3	33.5	30.1	81.04	164.7	964.3	927.4	865.2	62.17	14.916		
10,735.0	10,620.0	10,667.2	10,478.4	33.5	30.1	80.99	171.6	964.3	927.7	865.5	62.18	14.920		
10,750.0	10,626.2	10,678.5	10,482.9	33.5	30.2	80.93	181.9	964.3	928.2	866.0	62.19	14.926		
10,775.0	10,635.6	10,700.0	10,490.9	33.6	30.2	80.84	201.9	964.2	928.9	866.7	62.21	14.933		
10,800.0	10,643.8	10,716.0	10,496.2	33.6	30.2	80.78	217.0	964.2	929.6	867.4	62.22	14.942		
10,825.0	10,650.7	10,734.8	10,501.8	33.6	30.2	80.73	234.9	964.1	930.3	868.1	62.24	14.947		
10,830.0	10,651.9	10,738.6	10,502.9	33.6	30.2	80.72	238.5	964.1	930.4	868.2	62.24	14.948		
10,850.0	10,656.3	10,753.6	10,506.7	33.6	30.2	80.71	253.1	964.0	930.9	868.6	62.26	14.952		
10,875.0	10,660.7	10,775.0	10,511.4	33.6	30.2	80.71	273.9	964.0	931.5	869.2	62.29	14.954		
10,900.0	10,663.8	10,791.3	10,514.4	33.6	30.2	80.71	289.9	963.9	932.0	869.7	62.32	14.956		
10,925.0	10,665.5	10,810.2	10,517.1	33.6	30.2	80.75	308.6	963.8	932.5	870.1	62.35	14.956		
10,945.7	10,666.0	10,825.0	10,518.8	33.6	30.3	80.79	323.3	963.8	932.8	870.5	62.38	14.955		
11,000.0	10,666.1	10,867.2	10,520.9	33.6	30.3	80.92	365.5	963.6	933.6	871.2	62.46	14.948		
11,020.0	10,666.1	10,886.5	10,520.9	33.6	30.3	80.93	384.8	963.6	933.8	871.3	62.49	14.944		
11,037.0	10,666.1	10,903.5	10,520.9	33.6	30.3	80.93	401.8	963.5	933.9	871.3	62.52	14.938		
11,100.0	10,666.2	10,966.5	10,521.0	33.6	30.3	80.93	464.8	963.3	933.9	871.2	62.64	14.910		
11,115.0	10,666.2	10,981.5	10,521.1	33.7	30.3	80.93	479.8	963.2	933.9	871.2	62.67	14.902		
11,200.0	10,666.3	11,066.5	10,521.2	33.7	30.4	80.93	564.8	962.9	933.9	871.0	62.86	14.857		
11,210.0	10,666.4	11,076.5	10,521.2	33.7	30.4	80.93	574.8	962.9	933.9	871.0	62.88	14.851		
11,300.0	10,666.5	11,166.5	10,521.3	33.7	30.5	80.93	664.8	962.6	933.9	870.7	63.12	14.796		
11,305.0	10,666.5	11,171.5	10,521.3	33.7	30.5	80.93	669.8	962.6	933.9	870.7	63.13	14.792		
11,400.0	10,666.6	11,266.5	10,521.4	33.8	30.6	80.93	764.8	962.2	933.9	870.5	63.41	14.726		
11,495.0	10,666.7	11,361.5	10,521.6	33.9	30.7	80.93	859.8	961.9	933.9	870.1	63.73	14.653		
11,500.0	10,666.8	11,366.5	10,521.6	33.9	30.7	80.93	864.8	961.9	933.9	870.1	63.75	14.650		
11,590.0	10,666.9	11,456.5	10,521.7	34.0	30.8	80.93	954.8	961.6	933.9	869.8	64.08	14.574		
11,600.0	10,666.9	11,466.5	10,521.7	34.0	30.8	80.93	964.8	961.5	933.9	869.8	64.11	14.566		
11,685.0	10,667.0	11,551.5	10,521.8	34.1	31.0	80.93	1,049.8	961.2	933.9	869.4	64.46	14.489		
11,700.0	10,667.0	11,566.5	10,521.9	34.2	31.0	80.93	1,064.8	961.2	933.9	869.4	64.52	14.475		
11,780.0	10,667.1	11,646.5	10,522.0	34.3	31.2	80.93	1,144.8	960.9	933.9	869.0	64.86	14.397		
11,800.0	10,667.2	11,666.5	10,522.0	34.3	31.2	80.93	1,164.8	960.8	933.9	868.9	64.95	14.378		
11,875.0	10,667.3	11,741.5	10,522.1	34.5	31.4	80.93	1,239.8	960.5	933.9	868.6	65.30	14.301		
11,900.0	10,667.3	11,766.5	10,522.1	34.5	31.4	80.93	1,264.8	960.5	933.9	868.4	65.42	14.275		
11,970.0	10,667.4	11,836.5	10,522.2	34.7	31.6	80.93	1,334.8	960.2	933.9	868.1	65.77	14.199		
12,000.0	10,667.4	11,866.5	10,522.3	34.8	31.6	80.93	1,364.8	960.1	933.9	867.9	65.92	14.166		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
12,065.0	10,667.5	11,931.5	10,522.4	34.9	31.8	80.93	1,429.8	959.9	933.9	867.6	66.27	14.093	
12,100.0	10,667.6	11,966.5	10,522.4	35.0	31.9	80.93	1,464.8	959.8	933.9	867.4	66.45	14.053	
12,160.0	10,667.7	12,026.5	10,522.5	35.1	32.1	80.93	1,524.8	959.5	933.9	867.1	66.79	13.982	
12,200.0	10,667.7	12,066.5	10,522.5	35.2	32.2	80.93	1,564.8	959.4	933.9	866.9	67.02	13.935	
12,255.0	10,667.8	12,121.5	10,522.6	35.4	32.3	80.93	1,619.8	959.2	933.9	866.5	67.34	13.868	
12,300.0	10,667.8	12,166.5	10,522.7	35.5	32.4	80.93	1,664.8	959.0	933.9	866.3	67.61	13.813	
12,350.0	10,667.9	12,216.5	10,522.7	35.7	32.6	80.93	1,714.7	958.9	933.9	866.0	67.92	13.750	
12,400.0	10,668.0	12,266.5	10,522.8	35.8	32.8	80.93	1,764.7	958.7	933.9	865.6	68.23	13.686	
12,445.0	10,668.0	12,311.5	10,522.9	36.0	32.9	80.93	1,809.7	958.5	933.9	865.4	68.52	13.629	
12,500.0	10,668.1	12,366.5	10,523.0	36.1	33.1	80.93	1,864.7	958.3	933.9	865.0	68.88	13.557	
12,540.0	10,668.2	12,406.5	10,523.0	36.2	33.2	80.93	1,904.7	958.2	933.9	864.7	69.15	13.505	
12,600.0	10,668.3	12,466.5	10,523.1	36.4	33.4	80.93	1,964.7	958.0	933.9	864.3	69.56	13.425	
12,635.0	10,668.3	12,501.5	10,523.1	36.6	33.5	80.93	1,999.7	957.9	933.9	864.1	69.81	13.378	
12,700.0	10,668.4	12,566.5	10,523.2	36.8	33.8	80.93	2,064.7	957.6	933.9	863.6	70.27	13.290	
12,730.0	10,668.4	12,596.5	10,523.3	36.9	33.9	80.93	2,094.7	957.5	933.9	863.4	70.49	13.249	
12,800.0	10,668.5	12,666.5	10,523.4	37.1	34.1	80.93	2,164.7	957.3	933.9	862.9	71.00	13.153	
12,825.0	10,668.6	12,691.5	10,523.4	37.2	34.2	80.93	2,189.7	957.2	933.9	862.7	71.19	13.119	
12,900.0	10,668.7	12,766.5	10,523.5	37.5	34.5	80.93	2,264.7	956.9	933.9	862.1	71.76	13.015	
12,920.0	10,668.7	12,786.5	10,523.5	37.6	34.6	80.93	2,284.7	956.9	933.9	862.0	71.91	12.987	
13,000.0	10,668.8	12,866.5	10,523.6	37.9	34.9	80.93	2,364.7	956.6	933.9	861.3	72.54	12.874	
13,015.0	10,668.8	12,881.5	10,523.7	37.9	35.0	80.93	2,379.7	956.5	933.9	861.2	72.66	12.853	
13,100.0	10,668.9	12,966.5	10,523.8	38.2	35.3	80.93	2,464.7	956.2	933.9	860.5	73.34	12.733	
13,110.0	10,668.9	12,976.5	10,523.8	38.3	35.3	80.93	2,474.7	956.2	933.9	860.5	73.42	12.719	
13,200.0	10,669.1	13,066.5	10,523.9	38.6	35.7	80.93	2,564.7	955.9	933.9	859.7	74.17	12.591	
13,205.0	10,669.1	13,071.5	10,523.9	38.7	35.7	80.93	2,569.7	955.9	933.9	859.7	74.21	12.584	
13,300.0	10,669.2	13,166.5	10,524.0	39.0	36.2	80.93	2,664.7	955.5	933.9	858.9	75.02	12.448	
13,395.0	10,669.3	13,261.5	10,524.2	39.4	36.6	80.93	2,759.7	955.2	933.9	858.0	75.85	12.313	
13,400.0	10,669.3	13,266.5	10,524.2	39.5	36.6	80.93	2,764.7	955.2	933.9	858.0	75.89	12.305	
13,490.0	10,669.5	13,356.5	10,524.3	39.9	37.0	80.93	2,854.7	954.9	933.9	857.2	76.69	12.177	
13,500.0	10,669.5	13,366.5	10,524.3	39.9	37.0	80.93	2,864.7	954.8	933.9	857.1	76.78	12.163	
13,585.0	10,669.6	13,451.5	10,524.4	40.3	37.4	80.93	2,949.7	954.5	933.9	856.3	77.56	12.041	
13,600.0	10,669.6	13,466.5	10,524.5	40.3	37.5	80.93	2,964.7	954.5	933.9	856.2	77.70	12.020	
13,680.0	10,669.7	13,546.5	10,524.6	40.7	37.9	80.93	3,044.7	954.2	933.9	855.4	78.44	11.906	
13,700.0	10,669.8	13,566.5	10,524.6	40.8	38.0	80.93	3,064.7	954.1	933.9	855.3	78.63	11.877	
13,775.0	10,669.9	13,641.5	10,524.7	41.1	38.3	80.93	3,139.7	953.9	933.9	854.5	79.34	11.771	
13,800.0	10,669.9	13,666.5	10,524.7	41.2	38.5	80.93	3,164.7	953.8	933.9	854.3	79.58	11.736	
13,870.0	10,670.0	13,736.5	10,524.8	41.6	38.8	80.93	3,234.7	953.5	933.9	853.6	80.25	11.637	
13,900.0	10,670.0	13,766.5	10,524.9	41.7	39.0	80.93	3,264.7	953.4	933.9	853.3	80.54	11.595	
13,965.0	10,670.1	13,831.5	10,525.0	42.0	39.3	80.93	3,329.7	953.2	933.9	852.7	81.18	11.503	
14,000.0	10,670.2	13,866.5	10,525.0	42.2	39.5	80.93	3,364.7	953.1	933.9	852.4	81.53	11.455	
14,060.0	10,670.2	13,926.5	10,525.1	42.5	39.8	80.93	3,424.7	952.8	933.9	851.8	82.13	11.371	
14,100.0	10,670.3	13,966.5	10,525.1	42.7	40.0	80.93	3,464.7	952.7	933.9	851.4	82.53	11.316	
14,155.0	10,670.4	14,021.5	10,525.2	42.9	40.2	80.93	3,519.7	952.5	933.9	850.8	83.09	11.240	
14,200.0	10,670.4	14,066.5	10,525.3	43.2	40.5	80.93	3,564.7	952.4	933.9	850.3	83.55	11.178	
14,250.0	10,670.5	14,116.5	10,525.4	43.4	40.7	80.93	3,614.7	952.2	933.9	849.8	84.06	11.109	
14,300.0	10,670.6	14,166.5	10,525.4	43.7	41.0	80.93	3,664.7	952.0	933.9	849.3	84.58	11.041	
14,345.0	10,670.6	14,211.5	10,525.5	43.9	41.2	80.93	3,709.7	951.8	933.9	848.8	85.05	10.980	
14,400.0	10,670.7	14,266.5	10,525.6	44.2	41.5	80.93	3,764.7	951.7	933.9	848.3	85.63	10.906	
14,440.0	10,670.8	14,306.5	10,525.6	44.4	41.8	80.93	3,804.7	951.5	933.9	847.8	86.05	10.853	
14,500.0	10,670.8	14,366.5	10,525.7	44.7	42.1	80.93	3,864.7	951.3	933.9	847.2	86.69	10.773	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
14,535.0	10,670.9	14,401.5	10,525.7	44.9	42.3	80.93	3,899.7	951.2	933.9	846.8	87.07	10.726	
14,600.0	10,671.0	14,466.5	10,525.8	45.2	42.6	80.93	3,964.7	950.9	933.9	846.1	87.77	10.641	
14,630.0	10,671.0	14,496.5	10,525.9	45.4	42.8	80.93	3,994.7	950.8	933.9	845.8	88.09	10.601	
14,700.0	10,671.1	14,566.5	10,526.0	45.7	43.2	80.93	4,064.7	950.6	933.9	845.0	88.86	10.510	
14,725.0	10,671.2	14,591.5	10,526.0	45.9	43.3	80.93	4,089.7	950.5	933.9	844.8	89.13	10.478	
14,800.0	10,671.3	14,666.5	10,526.1	46.3	43.7	80.93	4,164.7	950.2	933.9	843.9	89.96	10.381	
14,820.0	10,671.3	14,686.5	10,526.1	46.4	43.8	80.93	4,184.7	950.2	933.9	843.7	90.18	10.356	
14,900.0	10,671.4	14,766.5	10,526.2	46.8	44.3	80.93	4,264.7	949.9	933.9	842.8	91.07	10.254	
14,915.0	10,671.4	14,781.5	10,526.3	46.9	44.4	80.93	4,279.7	949.8	933.9	842.7	91.24	10.235	
15,000.0	10,671.5	14,866.5	10,526.4	47.4	44.9	80.93	4,364.7	949.5	933.9	841.7	92.20	10.129	
15,010.0	10,671.5	14,876.5	10,526.4	47.4	44.9	80.93	4,374.7	949.5	933.9	841.6	92.31	10.117	
15,100.0	10,671.7	14,966.5	10,526.5	47.9	45.5	80.93	4,464.7	949.2	933.9	840.6	93.34	10.005	
15,105.0	10,671.7	14,971.5	10,526.5	48.0	45.5	80.93	4,469.7	949.2	933.9	840.5	93.40	9.999	
15,200.0	10,671.8	15,066.5	10,526.7	48.5	46.0	80.93	4,564.7	948.8	933.9	839.4	94.49	9.884	
15,295.0	10,671.9	15,161.5	10,526.8	49.0	46.6	80.93	4,659.7	948.5	933.9	838.3	95.59	9.770	
15,300.0	10,671.9	15,166.5	10,526.8	49.1	46.6	80.93	4,664.7	948.5	933.9	838.2	95.65	9.764	
15,390.0	10,672.1	15,256.5	10,526.9	49.6	47.2	80.93	4,754.7	948.2	933.9	837.2	96.70	9.658	
15,400.0	10,672.1	15,266.5	10,526.9	49.6	47.2	80.93	4,764.7	948.1	933.9	837.1	96.82	9.646	
15,485.0	10,672.2	15,351.5	10,527.0	50.1	47.7	80.93	4,849.7	947.8	933.9	836.1	97.82	9.547	
15,500.0	10,672.2	15,366.5	10,527.1	50.2	47.8	80.93	4,864.7	947.8	933.9	835.9	98.00	9.530	
15,580.0	10,672.3	15,446.5	10,527.2	50.7	48.3	80.93	4,944.7	947.5	933.9	834.9	98.95	9.438	
15,600.0	10,672.3	15,466.5	10,527.2	50.8	48.4	80.93	4,964.7	947.4	933.9	834.7	99.19	9.415	
15,675.0	10,672.4	15,541.5	10,527.3	51.2	48.9	80.93	5,039.7	947.2	933.9	833.8	100.09	9.331	
15,700.0	10,672.5	15,566.5	10,527.3	51.4	49.0	80.93	5,064.7	947.1	933.9	833.5	100.39	9.303	
15,770.0	10,672.6	15,636.5	10,527.4	51.8	49.5	80.93	5,134.7	946.8	933.9	832.7	101.23	9.225	
15,800.0	10,672.6	15,666.5	10,527.5	52.0	49.6	80.93	5,164.7	946.7	933.9	832.3	101.59	9.192	
15,865.0	10,672.7	15,731.5	10,527.6	52.3	50.0	80.93	5,229.7	946.5	933.9	831.5	102.39	9.121	
15,900.0	10,672.8	15,766.5	10,527.6	52.6	50.3	80.93	5,264.7	946.4	933.9	831.1	102.81	9.084	
15,960.0	10,672.8	15,826.5	10,527.7	52.9	50.6	80.93	5,324.7	946.2	933.9	830.4	103.55	9.019	
16,000.0	10,672.9	15,866.5	10,527.8	53.2	50.9	80.93	5,364.7	946.0	933.9	829.9	104.04	8.977	
16,055.0	10,673.0	15,921.5	10,527.8	53.5	51.2	80.93	5,419.7	945.8	933.9	829.2	104.71	8.919	
16,100.0	10,673.0	15,966.5	10,527.9	53.8	51.5	80.93	5,464.7	945.7	933.9	828.6	105.27	8.872	
16,150.0	10,673.1	16,016.5	10,528.0	54.1	51.8	80.93	5,514.7	945.5	933.9	828.0	105.89	8.820	
16,200.0	10,673.2	16,066.5	10,528.0	54.4	52.1	80.93	5,564.7	945.3	933.9	827.4	106.51	8.768	
16,245.0	10,673.2	16,111.5	10,528.1	54.6	52.4	80.93	5,609.7	945.1	933.9	826.8	107.07	8.722	
16,300.0	10,673.3	16,166.5	10,528.2	55.0	52.8	80.93	5,664.7	945.0	933.9	826.1	107.76	8.667	
16,340.0	10,673.4	16,206.5	10,528.2	55.2	53.0	80.93	5,704.7	944.8	933.9	825.6	108.26	8.627	
16,400.0	10,673.4	16,266.5	10,528.3	55.6	53.4	80.93	5,764.7	944.6	933.9	824.9	109.01	8.567	
16,435.0	10,673.5	16,301.5	10,528.3	55.8	53.6	80.93	5,799.7	944.5	933.9	824.5	109.45	8.532	
16,500.0	10,673.6	16,366.5	10,528.4	56.2	54.0	80.93	5,864.7	944.3	933.9	823.6	110.28	8.469	
16,530.0	10,673.6	16,396.5	10,528.5	56.4	54.2	80.93	5,894.7	944.1	933.9	823.3	110.66	8.440	
16,600.0	10,673.7	16,466.5	10,528.6	56.8	54.7	80.93	5,964.7	943.9	933.9	822.4	111.54	8.373	
16,625.0	10,673.7	16,491.5	10,528.6	57.0	54.8	80.93	5,989.7	943.8	933.9	822.0	111.86	8.349	
16,700.0	10,673.8	16,566.5	10,528.7	57.5	55.3	80.93	6,064.7	943.5	933.9	821.1	112.82	8.278	
16,720.0	10,673.9	16,586.5	10,528.7	57.6	55.4	80.93	6,084.7	943.5	933.9	820.8	113.08	8.259	
16,800.0	10,674.0	16,666.5	10,528.8	58.1	56.0	80.93	6,164.7	943.2	933.9	819.8	114.10	8.185	
16,815.0	10,674.0	16,681.5	10,528.9	58.2	56.1	80.93	6,179.7	943.1	933.9	819.6	114.29	8.171	
16,900.0	10,674.1	16,766.5	10,529.0	58.7	56.6	80.93	6,264.7	942.8	933.9	818.5	115.39	8.094	
16,910.0	10,674.1	16,776.5	10,529.0	58.8	56.7	80.93	6,274.7	942.8	933.9	818.4	115.52	8.085	
17,000.0	10,674.3	16,866.5	10,529.1	59.4	57.3	80.93	6,364.7	942.5	933.9	817.2	116.68	8.004	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft	
Survey Program:		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
17,005.0	10,674.3	16,871.5	10,529.1	59.4	57.3	80.93	6,369.7	942.5	933.9	817.2	116.75	7.999			
17,100.0	10,674.4	16,966.5	10,529.3	60.0	57.9	80.93	6,464.7	942.1	933.9	815.9	117.98	7.916			
17,195.0	10,674.5	17,061.5	10,529.4	60.6	58.5	80.93	6,559.7	941.8	933.9	814.7	119.22	7.833			
17,200.0	10,674.5	17,066.5	10,529.4	60.6	58.6	80.93	6,564.7	941.8	933.9	814.6	119.29	7.829			
17,290.0	10,674.6	17,156.5	10,529.5	61.2	59.2	80.93	6,654.7	941.5	933.9	813.4	120.47	7.752			
17,300.0	10,674.7	17,166.5	10,529.5	61.3	59.2	80.93	6,664.7	941.4	933.9	813.3	120.60	7.744			
17,385.0	10,674.8	17,251.5	10,529.7	61.8	59.8	80.93	6,749.7	941.1	933.9	812.2	121.72	7.673			
17,400.0	10,674.8	17,266.5	10,529.7	61.9	59.9	80.93	6,764.7	941.1	933.9	812.0	121.91	7.661			
17,480.0	10,674.9	17,346.5	10,529.8	62.5	60.4	80.93	6,844.7	940.8	933.9	810.9	122.97	7.595			
17,500.0	10,674.9	17,366.5	10,529.8	62.6	60.6	80.93	6,864.7	940.7	933.9	810.7	123.23	7.578			
17,575.0	10,675.0	17,441.5	10,529.9	63.1	61.1	80.93	6,939.7	940.5	933.9	809.7	124.23	7.518			
17,600.0	10,675.1	17,466.5	10,529.9	63.2	61.2	80.93	6,964.7	940.4	933.9	809.4	124.56	7.498			
17,670.0	10,675.2	17,536.5	10,530.0	63.7	61.7	80.93	7,034.7	940.1	933.9	808.4	125.49	7.442			
17,700.0	10,675.2	17,566.5	10,530.1	63.9	61.9	80.93	7,064.7	940.0	933.9	808.0	125.89	7.419			
17,765.0	10,675.3	17,631.5	10,530.2	64.3	62.3	80.93	7,129.7	939.8	933.9	807.2	126.76	7.368			
17,800.0	10,675.3	17,666.5	10,530.2	64.6	62.6	80.93	7,164.7	939.7	933.9	806.7	127.22	7.341			
17,860.0	10,675.4	17,726.5	10,530.3	65.0	63.0	80.93	7,224.7	939.5	933.9	805.9	128.03	7.295			
17,900.0	10,675.5	17,766.5	10,530.4	65.2	63.3	80.93	7,264.7	939.3	933.9	805.4	128.56	7.264			
17,955.0	10,675.6	17,821.5	10,530.4	65.6	63.6	80.93	7,319.7	939.1	933.9	804.6	129.30	7.223			
18,000.0	10,675.6	17,866.5	10,530.5	65.9	63.9	80.93	7,364.7	939.0	933.9	804.0	129.90	7.189			
18,050.0	10,675.7	17,916.5	10,530.6	66.2	64.3	80.93	7,414.7	938.8	933.9	803.3	130.58	7.152			
18,100.0	10,675.8	17,966.5	10,530.6	66.5	64.6	80.93	7,464.7	938.6	933.9	802.7	131.25	7.116			
18,145.0	10,675.8	18,011.5	10,530.7	66.8	64.9	80.93	7,509.7	938.5	933.9	802.1	131.86	7.083			
18,200.0	10,675.9	18,066.5	10,530.8	67.2	65.3	80.93	7,564.7	938.3	933.9	801.3	132.60	7.043			
18,232.8	10,675.9	18,099.3	10,530.8	67.4	65.5	80.93	7,597.5	938.1	933.9	800.9	133.04	7.020			
18,240.0	10,675.9	18,106.5	10,530.8	67.5	65.6	80.93	7,604.7	938.1	933.9	800.8	133.14	7.015			
18,282.8	10,676.0	18,149.3	10,530.9	67.8	65.9	80.93	7,647.5	938.0	933.9	800.2	133.72	6.984			

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #502H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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)			
954.5	954.3	950.0	949.9	0.0	1.0	0.00	2.0	-11.1	4.5	3.2	1.21	3.693	
1,000.0	999.9	950.0	949.9	0.0	1.0	0.00	2.0	-11.1	50.0	47.4	2.56	19.531	
1,045.0	1,044.9	950.0	949.9	0.1	1.0	0.00	2.0	-11.1	95.0	92.4	2.58	36.772	
1,054.0	1,053.9	950.0	949.9	0.1	1.0	0.00	2.0	-11.1	104.0	101.4	2.59	40.183	
1,100.0	1,099.9	950.0	949.9	0.2	1.0	0.00	2.0	-11.1	150.0	147.4	2.61	57.404	
1,140.0	1,139.9	950.0	949.9	0.3	1.0	0.00	2.0	-11.1	190.0	187.4	2.64	72.090	
1,154.0	1,153.9	950.0	949.9	0.3	1.0	0.00	2.0	-11.1	204.0	201.4	2.64	77.171	
1,200.0	1,199.9	950.0	949.9	0.4	1.0	180.00	2.0	-11.1	250.0	247.3	2.67	93.623	
1,235.0	1,234.9	950.0	949.9	0.5	1.0	-180.00	2.0	-11.1	285.0	282.3	2.69	105.884	
1,294.0	1,293.9	950.0	949.9	0.7	1.0	70.03	2.0	-11.1	344.0	341.3	2.73	126.114	CC, ES, SF
1,300.0	1,299.9	950.0	949.9	0.7	1.0	70.03	2.0	-11.1	350.0	347.3	2.73	128.142	
1,330.0	1,329.9	950.0	949.9	0.8	1.0	70.03	2.0	-11.1	380.0	377.2	2.75	138.132	
1,400.0	1,399.9	950.0	949.9	1.1	1.0	70.03	2.0	-11.1	450.0	447.2	2.80	160.898	
1,425.0	1,424.9	950.0	949.9	1.2	1.0	70.03	2.0	-11.1	475.0	472.2	2.81	168.791	
1,500.0	1,499.9	950.0	949.9	1.7	1.0	70.03	2.0	-11.1	550.0	547.1	2.87	191.900	
1,520.0	1,519.9	950.0	949.9	1.7	1.0	70.03	2.0	-11.1	570.0	567.1	2.88	197.871	
1,600.0	1,599.9	950.0	949.9	2.1	1.0	70.03	2.0	-11.1	650.0	647.1	2.94	221.161	
1,615.0	1,614.9	950.0	949.9	2.2	1.0	70.03	2.0	-11.1	665.0	662.0	2.95	225.384	
1,700.0	1,699.9	950.0	949.9	2.6	1.0	70.03	2.0	-11.1	750.0	747.0	3.02	248.709	
1,710.0	1,709.9	950.0	949.9	2.6	1.0	70.03	2.0	-11.1	760.0	757.0	3.02	251.358	
1,800.0	1,799.9	950.0	949.9	3.0	1.0	70.03	2.0	-11.1	850.0	846.9	3.10	274.586	
1,805.0	1,804.9	950.0	949.9	3.0	1.0	70.03	2.0	-11.1	855.0	851.9	3.10	275.830	
1,900.0	1,899.9	950.0	949.9	3.3	1.0	70.03	2.0	-11.1	950.0	946.8	3.18	298.843	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - AWP													Offset Site Error: 3.0 usft	
Survey Program: 1-Standard Keeper 104		Reference Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0					
1.0	1.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0					
95.0	95.0	93.6	93.6	3.0	3.0	-43.04	0.2	-30.6	30.4	24.4	6.00	5.067		
101.0	101.0	99.6	99.6	3.0	3.0	-42.94	0.2	-30.7	30.5	24.5	6.00	5.076		
126.0	126.0	124.7	124.6	3.0	3.0	-26.02	0.6	-31.0	30.6	24.6	6.00	5.106		
151.0	151.0	149.5	149.5	3.0	3.0	-33.09	1.0	-31.3	30.8	24.8	6.00	5.137		
176.0	176.0	174.5	174.4	3.0	3.0	-41.94	1.4	-31.7	31.1	25.1	6.00	5.184		
190.0	190.0	188.5	188.4	3.0	3.0	-49.46	1.6	-32.0	31.3	25.3	6.01	5.213		
201.0	201.0	199.5	199.4	3.0	3.0	-53.23	1.7	-32.2	31.4	25.4	6.01	5.234		
226.0	226.0	224.5	224.4	3.0	3.0	-62.83	2.1	-32.6	31.7	25.7	6.01	5.283		
251.0	251.0	249.6	249.5	3.0	3.0	-68.26	2.5	-33.0	32.0	26.0	6.01	5.330		
276.0	276.0	274.6	274.5	3.0	3.0	-58.19	2.9	-33.3	32.3	26.3	6.02	5.365		
285.0	285.0	283.7	283.6	3.0	3.0	-55.48	3.0	-33.4	32.3	26.3	6.02	5.374		
301.0	301.0	299.8	299.8	3.0	3.0	-51.34	3.1	-33.6	32.4	26.3	6.02	5.375		
326.0	326.0	325.0	324.9	3.0	3.0	-43.41	3.3	-33.7	32.2	26.2	6.02	5.349		
351.0	351.0	349.9	349.8	3.0	3.0	-37.83	3.4	-33.8	32.0	26.0	6.03	5.314		
376.0	376.0	374.9	374.8	3.0	3.0	-36.40	3.5	-33.9	31.9	25.8	6.03	5.281		
380.0	380.0	378.9	378.8	3.0	3.0	-37.19	3.6	-33.9	31.8	25.8	6.03	5.275		
401.0	401.0	400.0	399.9	3.0	3.0	-41.52	3.7	-34.0	31.7	25.6	6.04	5.243		
426.0	426.0	424.9	424.8	3.0	3.0	-37.42	3.8	-34.1	31.4	25.4	6.05	5.200		
451.0	451.0	449.9	449.8	3.0	3.0	-33.89	3.9	-34.2	31.2	25.2	6.05	5.159		
475.0	475.0	473.9	473.9	3.0	3.0	-23.39	4.0	-34.3	31.0	24.9	6.06	5.111		
476.0	476.0	474.9	474.9	3.0	3.0	-22.97	4.0	-34.3	31.0	24.9	6.06	5.109		
501.0	501.0	499.9	499.9	3.1	3.1	-24.71	4.1	-34.3	30.6	24.6	6.07	5.051		
526.0	526.0	524.9	524.8	3.1	3.1	-20.94	4.2	-34.4	30.3	24.2	6.08	4.991		
551.0	551.0	549.8	549.8	3.1	3.1	-15.69	4.3	-34.5	30.0	23.9	6.08	4.931		
570.0	570.0	568.8	568.8	3.1	3.1	-11.06	4.3	-34.6	29.8	23.7	6.09	4.888		
576.0	576.0	574.8	574.8	3.1	3.1	-9.56	4.3	-34.7	29.7	23.6	6.10	4.874		
601.0	601.0	599.9	599.8	3.1	3.1	-6.41	4.3	-34.8	29.4	23.3	6.11	4.812		
626.0	625.9	624.9	624.8	3.1	3.1	1.87	4.3	-34.9	29.1	22.9	6.12	4.749		
651.0	650.9	649.8	649.8	3.1	3.1	-1.54	4.3	-35.0	28.8	22.7	6.13	4.697		
665.0	664.9	663.8	663.8	3.1	3.1	1.56	4.3	-35.1	28.7	22.5	6.14	4.670		
676.0	675.9	674.8	674.8	3.1	3.1	3.87	4.2	-35.2	28.6	22.4	6.15	4.647		
701.0	700.9	699.8	699.8	3.1	3.1	10.20	4.2	-35.3	28.3	22.1	6.16	4.594		
726.0	725.9	724.8	724.7	3.1	3.1	20.51	4.1	-35.5	28.1	21.9	6.17	4.544		
751.0	750.9	749.8	749.7	3.1	3.1	28.05	4.0	-35.7	27.8	21.6	6.19	4.498		
760.0	759.9	758.8	758.8	3.1	3.1	25.86	4.0	-35.7	27.8	21.6	6.19	4.481		
776.0	775.9	774.8	774.8	3.1	3.1	22.12	3.8	-35.8	27.6	21.4	6.20	4.446		
801.0	800.9	799.8	799.8	3.1	3.1	26.16	3.7	-36.0	27.3	21.0	6.22	4.384		
826.0	825.9	824.8	824.8	3.1	3.1	34.76	3.5	-36.1	26.9	20.7	6.23	4.324		
851.0	850.9	849.8	849.8	3.1	3.1	23.24	3.3	-36.2	26.6	20.4	6.25	4.266		
855.0	854.9	853.8	853.8	3.1	3.1	24.48	3.2	-36.2	26.6	20.3	6.25	4.256		
876.0	875.9	874.8	874.7	3.2	3.1	31.06	3.1	-36.4	26.3	20.1	6.26	4.208		
901.0	900.9	899.8	899.7	3.2	3.1	33.45	2.8	-36.5	26.1	19.8	6.28	4.157		
926.0	925.9	924.8	924.8	3.2	3.1	26.59	2.5	-36.7	25.9	19.6	6.29	4.113		
931.4	931.3	930.0	929.9	3.2	3.1	25.40	2.4	-36.7	25.8	19.5	6.29	4.105 CC, ES, SF		
950.0	949.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	31.9	26.6	5.22	6.104		
1,000.0	999.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	73.4	69.3	4.09	17.946		
1,045.0	1,044.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	116.6	112.7	3.83	30.444		
1,054.0	1,053.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	125.4	121.5	3.81	32.931		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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)			
1,100.0	1,099.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	170.6	166.9	3.75	45.484	
1,140.0	1,139.9	930.0	929.9	3.3	3.1	20.68	2.4	-36.7	210.3	206.5	3.74	56.192	
1,154.0	1,153.9	930.0	929.9	3.3	3.1	20.68	2.4	-36.7	224.2	220.4	3.74	59.900	
1,200.0	1,199.9	930.0	929.9	3.3	3.1	21.49	2.4	-36.7	269.9	266.2	3.75	71.920	
1,235.0	1,234.9	930.0	929.9	3.3	3.1	22.25	2.4	-36.7	304.8	301.0	3.77	80.905	
1,294.0	1,293.9	930.0	929.9	3.4	3.1	-86.07	2.4	-36.7	363.6	359.8	3.80	95.797	
1,300.0	1,299.9	930.0	929.9	3.4	3.1	-86.07	2.4	-36.7	369.6	365.8	3.80	97.280	
1,330.0	1,329.9	930.0	929.9	3.5	3.1	-86.07	2.4	-36.7	399.6	395.8	3.82	104.691	
1,400.0	1,399.9	930.0	929.9	3.6	3.1	-86.07	2.4	-36.7	469.5	465.6	3.86	121.679	
1,425.0	1,424.9	930.0	929.9	3.6	3.1	-86.07	2.4	-36.7	494.5	490.6	3.87	127.613	
1,500.0	1,499.9	930.0	929.9	3.8	3.1	-86.07	2.4	-36.7	569.4	565.5	3.92	145.096	
1,520.0	1,519.9	930.0	929.9	3.8	3.1	-86.07	2.4	-36.7	589.4	585.4	3.94	149.651	
1,600.0	1,599.9	930.0	929.9	4.0	3.1	-86.07	2.4	-36.7	669.3	665.3	4.00	167.534	
1,615.0	1,614.9	930.0	929.9	4.1	3.1	-86.07	2.4	-36.7	684.3	680.3	4.01	170.806	
1,700.0	1,699.9	930.0	929.9	4.3	3.1	-86.07	2.4	-36.7	769.3	765.2	4.07	188.993	
1,710.0	1,709.9	930.0	929.9	4.3	3.1	-86.07	2.4	-36.7	779.3	775.2	4.08	191.078	
1,800.0	1,799.9	930.0	929.9	4.6	3.1	-86.07	2.4	-36.7	869.2	865.1	4.15	209.480	
1,805.0	1,804.9	930.0	929.9	4.6	3.1	-86.07	2.4	-36.7	874.2	870.1	4.15	210.475	
1,900.0	1,899.9	930.0	929.9	4.9	3.1	-86.07	2.4	-36.7	969.2	965.0	4.23	229.007	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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	-90.76	-0.4	-30.0	30.0					
1.0	1.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0					
95.0	95.0	93.6	93.6	3.0	3.0	-43.04	0.2	-30.6	30.4	24.4	6.00	5.067		
101.0	101.0	99.6	99.6	3.0	3.0	-42.94	0.2	-30.7	30.5	24.5	6.00	5.076		
126.0	126.0	124.7	124.6	3.0	3.0	-26.02	0.6	-31.0	30.6	24.6	6.00	5.106		
151.0	151.0	149.5	149.5	3.0	3.0	-33.09	1.0	-31.3	30.8	24.8	6.00	5.137		
176.0	176.0	174.5	174.4	3.0	3.0	-41.94	1.4	-31.7	31.1	25.1	6.00	5.184		
190.0	190.0	188.5	188.4	3.0	3.0	-49.46	1.6	-32.0	31.3	25.3	6.01	5.213		
201.0	201.0	199.5	199.4	3.0	3.0	-53.23	1.7	-32.2	31.4	25.4	6.01	5.234		
226.0	226.0	224.5	224.4	3.0	3.0	-62.83	2.1	-32.6	31.7	25.7	6.01	5.283		
251.0	251.0	249.6	249.5	3.0	3.0	-68.26	2.5	-33.0	32.0	26.0	6.01	5.330		
276.0	276.0	274.6	274.5	3.0	3.0	-58.19	2.9	-33.3	32.3	26.3	6.02	5.365		
285.0	285.0	283.7	283.6	3.0	3.0	-55.48	3.0	-33.4	32.3	26.3	6.02	5.374		
301.0	301.0	299.8	299.8	3.0	3.0	-51.34	3.1	-33.6	32.4	26.3	6.02	5.375		
326.0	326.0	325.0	324.9	3.0	3.0	-43.41	3.3	-33.7	32.2	26.2	6.02	5.349		
351.0	351.0	349.9	349.8	3.0	3.0	-37.83	3.4	-33.8	32.0	26.0	6.03	5.314		
376.0	376.0	374.9	374.8	3.0	3.0	-36.40	3.5	-33.9	31.9	25.8	6.03	5.281		
380.0	380.0	378.9	378.8	3.0	3.0	-37.19	3.6	-33.9	31.8	25.8	6.03	5.275		
401.0	401.0	400.0	399.9	3.0	3.0	-41.52	3.7	-34.0	31.7	25.6	6.04	5.243		
426.0	426.0	424.9	424.8	3.0	3.0	-37.42	3.8	-34.1	31.4	25.4	6.05	5.200		
451.0	451.0	449.9	449.8	3.0	3.0	-33.89	3.9	-34.2	31.2	25.2	6.05	5.159		
475.0	475.0	473.9	473.9	3.0	3.0	-23.39	4.0	-34.3	31.0	24.9	6.06	5.111		
476.0	476.0	474.9	474.9	3.0	3.0	-22.97	4.0	-34.3	31.0	24.9	6.06	5.109		
501.0	501.0	499.9	499.9	3.1	3.1	-24.71	4.1	-34.3	30.6	24.6	6.07	5.051		
526.0	526.0	524.9	524.8	3.1	3.1	-20.94	4.2	-34.4	30.3	24.2	6.08	4.991		
551.0	551.0	549.8	549.8	3.1	3.1	-15.69	4.3	-34.5	30.0	23.9	6.08	4.931		
570.0	570.0	568.8	568.8	3.1	3.1	-11.06	4.3	-34.6	29.8	23.7	6.09	4.888		
576.0	576.0	574.8	574.8	3.1	3.1	-9.56	4.3	-34.7	29.7	23.6	6.10	4.874		
601.0	601.0	599.9	599.8	3.1	3.1	-6.41	4.3	-34.8	29.4	23.3	6.11	4.812		
626.0	625.9	624.9	624.8	3.1	3.1	1.87	4.3	-34.9	29.1	22.9	6.12	4.749		
651.0	650.9	649.8	649.8	3.1	3.1	-1.54	4.3	-35.0	28.8	22.7	6.13	4.697		
665.0	664.9	663.8	663.8	3.1	3.1	1.56	4.3	-35.1	28.7	22.5	6.14	4.670		
676.0	675.9	674.8	674.8	3.1	3.1	3.87	4.2	-35.2	28.6	22.4	6.15	4.647		
701.0	700.9	699.8	699.8	3.1	3.1	10.20	4.2	-35.3	28.3	22.1	6.16	4.594		
726.0	725.9	724.8	724.7	3.1	3.1	20.51	4.1	-35.5	28.1	21.9	6.17	4.544		
751.0	750.9	749.8	749.7	3.1	3.1	28.05	4.0	-35.7	27.8	21.6	6.19	4.498		
760.0	759.9	758.8	758.8	3.1	3.1	25.86	4.0	-35.7	27.8	21.6	6.19	4.481		
776.0	775.9	774.8	774.8	3.1	3.1	22.12	3.8	-35.8	27.6	21.4	6.20	4.446		
801.0	800.9	799.8	799.8	3.1	3.1	26.16	3.7	-36.0	27.3	21.0	6.22	4.384		
826.0	825.9	824.8	824.8	3.1	3.1	34.76	3.5	-36.1	26.9	20.7	6.23	4.324		
851.0	850.9	849.8	849.8	3.1	3.1	23.24	3.3	-36.2	26.6	20.4	6.25	4.266		
855.0	854.9	853.8	853.8	3.1	3.1	24.48	3.2	-36.2	26.6	20.3	6.25	4.256		
876.0	875.9	874.8	874.7	3.2	3.1	31.06	3.1	-36.4	26.3	20.1	6.26	4.208		
901.0	900.9	899.8	899.7	3.2	3.1	33.45	2.8	-36.5	26.1	19.8	6.28	4.157		
926.0	925.9	924.8	924.8	3.2	3.1	26.59	2.5	-36.7	25.9	19.6	6.29	4.113		
950.0	949.9	948.8	948.8	3.2	3.1	20.26	2.2	-36.8	25.7	19.4	6.30	4.076		
1,000.0	999.9	998.8	998.8	3.2	3.2	19.12	1.4	-37.1	25.4	19.0	6.33	4.011		
1,045.0	1,044.9	1,043.8	1,043.7	3.2	3.2	18.07	0.8	-37.3	25.1	18.7	6.36	3.945		
1,054.0	1,053.9	1,052.8	1,052.7	3.2	3.2	17.86	0.7	-37.3	25.0	18.7	6.37	3.932		
1,100.0	1,099.9	1,098.8	1,098.7	3.2	3.2	16.75	0.0	-37.6	24.8	18.4	6.42	3.861		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
1,140.0	1,139.9	1,138.8	1,138.7	3.3	3.2	15.78	-0.6	-37.8	24.5	18.1	6.47	3.791	
1,154.0	1,153.9	1,152.8	1,152.7	3.3	3.2	15.43	-0.8	-37.8	24.5	18.0	6.49	3.767	
1,200.0	1,199.9	1,198.9	1,198.8	3.3	3.3	14.38	-1.3	-38.1	24.3	17.7	6.58	3.690	
1,235.0	1,234.9	1,233.9	1,233.8	3.3	3.3	13.77	-1.7	-38.2	24.2	17.5	6.66	3.632	
1,262.6	1,262.4	1,261.5	1,261.4	3.4	3.4	13.40	-1.9	-38.2	24.2	17.4	6.73	3.591 CC	
1,294.0	1,293.9	1,292.9	1,292.8	3.4	3.4	-96.86	-2.0	-38.3	24.2	17.4	6.82	3.549	
1,300.0	1,299.9	1,298.9	1,298.8	3.4	3.4	-96.90	-2.0	-38.3	24.2	17.4	6.84	3.541	
1,330.0	1,329.9	1,329.0	1,328.9	3.5	3.5	-96.99	-2.1	-38.3	24.2	17.3	6.92	3.502	
1,400.0	1,399.9	1,399.0	1,398.9	3.6	3.6	-96.99	-2.1	-38.3	24.2	17.1	7.13	3.400	
1,425.0	1,424.9	1,424.0	1,423.9	3.6	3.6	-96.99	-2.1	-38.3	24.2	17.0	7.23	3.352	
1,500.0	1,499.9	1,499.0	1,498.9	3.8	3.8	-96.99	-2.1	-38.3	24.2	16.7	7.55	3.210	
1,520.0	1,519.9	1,519.0	1,518.9	3.8	3.8	-96.99	-2.1	-38.3	24.2	16.6	7.64	3.171	
1,600.0	1,599.9	1,599.0	1,598.9	4.0	4.1	-96.99	-2.1	-38.3	24.2	16.2	8.03	3.018	
1,615.0	1,614.9	1,614.0	1,613.9	4.1	4.1	-96.99	-2.1	-38.3	24.2	16.1	8.10	2.990	
1,700.0	1,699.9	1,699.0	1,698.9	4.3	4.3	-96.99	-2.1	-38.3	24.2	15.7	8.54	2.837	
1,710.0	1,709.9	1,709.0	1,708.9	4.3	4.4	-96.99	-2.1	-38.3	24.2	15.6	8.59	2.819	
1,800.0	1,799.9	1,799.0	1,798.9	4.6	4.6	-96.99	-2.1	-38.3	24.2	15.1	9.08	2.668	
1,805.0	1,804.9	1,804.0	1,803.9	4.6	4.6	-96.99	-2.1	-38.3	24.2	15.1	9.11	2.660	
1,900.0	1,899.9	1,899.0	1,898.9	4.9	4.9	-96.99	-2.1	-38.3	24.2	14.6	9.64	2.512	
1,995.0	1,994.9	1,994.0	1,993.9	5.2	5.2	-96.99	-2.1	-38.3	24.2	14.0	10.20	2.376	
2,000.1	2,000.0	1,999.1	1,999.0	5.2	5.2	-96.99	-2.1	-38.3	24.2	14.0	10.23	2.369 ES, SF	
2,090.0	2,089.9	2,088.2	2,088.1	5.5	5.5	109.38	-2.3	-39.7	26.0	15.3	10.71	2.430	
2,100.0	2,099.9	2,098.1	2,098.0	5.5	5.5	109.99	-2.3	-40.0	26.5	15.7	10.77	2.458	
2,185.0	2,184.7	2,182.0	2,181.7	6.0	6.0	116.23	-2.9	-44.0	32.2	20.7	11.54	2.794	
2,200.0	2,199.7	2,196.7	2,196.5	6.1	6.1	117.40	-3.1	-45.0	33.7	22.0	11.69	2.881	
2,250.1	2,249.7	2,245.9	2,245.5	6.3	6.5	121.11	-3.6	-48.7	39.3	27.2	12.14	3.242	
2,280.0	2,279.4	2,275.0	2,274.5	6.3	6.7	123.01	-4.0	-51.4	43.3	30.9	12.40	3.492	
2,300.0	2,299.4	2,294.5	2,293.9	6.4	6.8	124.04	-4.3	-53.3	46.2	33.6	12.58	3.668	
2,375.0	2,374.1	2,367.6	2,366.5	6.6	7.1	126.54	-5.6	-61.5	58.0	44.9	13.02	4.451	
2,400.0	2,399.0	2,392.3	2,391.0	6.7	7.1	127.10	-6.0	-64.5	62.1	48.9	13.16	4.719	
2,470.0	2,468.7	2,461.3	2,459.5	6.9	7.3	128.35	-7.3	-72.8	73.7	60.1	13.54	5.440	
2,500.0	2,498.6	2,490.9	2,488.9	7.0	7.4	128.77	-7.8	-76.4	78.6	64.9	13.70	5.737	
2,565.0	2,563.4	2,555.0	2,552.5	7.2	7.6	129.52	-9.0	-84.1	89.4	75.3	14.09	6.347	
2,600.0	2,598.2	2,589.5	2,586.7	7.3	7.7	129.86	-9.6	-88.3	95.2	80.9	14.29	6.663	
2,660.0	2,658.0	2,648.7	2,645.5	7.5	7.9	130.35	-10.7	-95.4	105.2	90.5	14.64	7.181	
2,700.0	2,697.8	2,688.1	2,684.6	7.6	8.0	130.62	-11.4	-100.2	111.8	96.9	14.89	7.510	
2,755.0	2,752.6	2,742.3	2,738.4	7.8	8.1	130.96	-12.4	-106.7	120.9	105.7	15.22	7.944	
2,800.0	2,797.5	2,786.7	2,782.5	7.9	8.3	131.19	-13.2	-112.1	128.4	112.9	15.50	8.284	
2,850.0	2,847.3	2,836.0	2,831.4	8.1	8.4	131.42	-14.1	-118.0	136.7	120.9	15.81	8.647	
2,900.0	2,897.1	2,885.3	2,880.3	8.3	8.6	131.63	-15.0	-123.9	145.0	128.9	16.13	8.995	
2,945.0	2,941.9	2,929.7	2,924.4	8.4	8.7	131.79	-15.9	-129.3	152.5	136.1	16.41	9.295	
3,000.0	2,996.7	2,983.9	2,978.2	8.6	8.9	131.98	-16.9	-135.8	161.7	144.9	16.76	9.647	
3,040.0	3,036.6	3,023.3	3,017.4	8.7	9.0	132.09	-17.6	-140.6	168.3	151.3	17.01	9.893	
3,100.0	3,096.3	3,082.5	3,076.1	8.9	9.2	132.26	-18.7	-147.7	178.3	160.9	17.40	10.248	
3,135.0	3,131.2	3,117.0	3,110.3	9.1	9.3	132.34	-19.3	-151.9	184.1	166.5	17.63	10.447	
3,200.0	3,195.9	3,181.1	3,173.9	9.3	9.5	132.49	-20.5	-159.6	194.9	176.9	18.05	10.802	
3,230.0	3,225.8	3,210.7	3,203.3	9.4	9.6	132.55	-21.0	-163.2	199.9	181.7	18.24	10.960	
3,300.0	3,295.6	3,279.7	3,271.8	9.6	9.8	132.69	-22.3	-171.5	211.6	192.9	18.70	11.314	
3,325.0	3,320.5	3,304.4	3,296.3	9.7	9.9	132.73	-22.7	-174.4	215.8	196.9	18.87	11.436	
3,400.0	3,395.2	3,378.3	3,369.7	10.0	10.2	132.86	-24.1	-183.4	228.2	208.9	19.36	11.788	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
3,420.0	3,415.1	3,398.0	3,389.3	10.0	10.2	132.89	-24.4	-185.7	231.6	212.1	19.49	11.878	
3,500.0	3,494.8	3,476.9	3,467.5	10.3	10.5	133.00	-25.9	-195.2	244.9	224.9	20.03	12.228	
3,515.0	3,509.7	3,491.7	3,482.2	10.3	10.6	133.02	-26.1	-197.0	247.4	227.3	20.13	12.291	
3,600.0	3,594.4	3,575.5	3,565.4	10.6	10.8	133.13	-27.7	-207.1	261.5	240.8	20.70	12.637	
3,610.0	3,604.4	3,585.4	3,575.2	10.7	10.9	133.14	-27.8	-208.3	263.2	242.4	20.76	12.676	
3,700.0	3,694.0	3,674.1	3,663.3	11.0	11.2	133.24	-29.5	-219.0	278.2	256.8	21.37	13.017	
3,705.0	3,699.0	3,679.1	3,668.2	11.0	11.2	133.25	-29.6	-219.6	279.0	257.6	21.40	13.036	
3,800.0	3,793.7	3,772.7	3,761.1	11.3	11.5	133.34	-31.3	-230.9	294.8	272.8	22.05	13.373	
3,895.0	3,888.3	3,866.4	3,854.1	11.7	11.8	133.43	-33.0	-242.2	310.6	288.0	22.69	13.689	
3,900.0	3,893.3	3,871.3	3,859.0	11.7	11.9	133.43	-33.1	-242.8	311.5	288.8	22.73	13.705	
3,990.0	3,982.9	3,960.1	3,947.1	12.0	12.2	133.50	-34.7	-253.5	326.5	303.1	23.34	13.986	
4,007.7	4,000.6	3,977.6	3,964.5	12.1	12.2	133.52	-35.0	-255.6	329.4	306.0	23.46	14.040	
4,085.0	4,077.6	4,053.8	4,040.1	12.3	12.5	133.60	-36.4	-264.8	341.9	317.9	23.99	14.251	
4,100.0	4,092.6	4,068.6	4,054.8	12.4	12.5	133.60	-36.7	-266.5	344.3	320.2	24.10	14.288	
4,180.0	4,172.4	4,147.7	4,133.3	12.7	12.8	133.53	-38.1	-276.1	356.3	331.7	24.65	14.459	
4,200.0	4,192.4	4,167.5	4,153.0	12.7	12.9	133.49	-38.5	-278.5	359.2	334.5	24.78	14.495	
4,275.0	4,267.3	4,241.7	4,226.7	13.0	13.2	133.28	-39.8	-287.4	369.7	344.4	25.30	14.613	
4,300.0	4,292.3	4,266.5	4,251.2	13.1	13.2	133.19	-40.3	-290.4	373.0	347.6	25.47	14.645	
4,370.0	4,362.2	4,335.9	4,320.1	13.3	13.5	132.88	-41.6	-298.8	382.0	356.0	25.95	14.718	
4,400.0	4,392.2	4,365.6	4,349.6	13.4	13.6	132.72	-42.1	-302.3	385.7	359.5	26.16	14.742	
4,465.0	4,457.2	4,430.1	4,413.6	13.6	13.8	132.33	-43.3	-310.1	393.3	366.7	26.60	14.783	
4,507.8	4,500.0	4,472.5	4,455.7	13.8	14.0	-71.51	-44.1	-315.2	398.0	371.1	26.89	14.799	
4,560.0	4,552.2	4,524.4	4,507.2	13.9	14.2	-71.92	-45.0	-321.5	403.7	376.4	27.25	14.816	
4,600.0	4,592.2	4,564.1	4,546.6	14.1	14.3	-72.23	-45.7	-326.3	408.1	380.5	27.52	14.829	
4,655.0	4,647.2	4,618.7	4,600.8	14.2	14.5	-72.64	-46.7	-332.8	414.1	386.2	27.89	14.846	
4,700.0	4,692.2	4,663.4	4,645.1	14.4	14.6	-72.97	-47.5	-338.2	419.0	390.8	28.20	14.860	
4,750.0	4,742.2	4,713.0	4,694.4	14.5	14.8	-73.32	-48.5	-344.2	424.5	396.0	28.54	14.876	
4,800.0	4,792.2	4,762.6	4,743.6	14.7	15.0	-73.67	-49.4	-350.2	430.1	401.2	28.88	14.892	
4,845.0	4,837.2	4,807.3	4,788.0	14.9	15.2	-73.97	-50.2	-355.6	435.1	405.9	29.19	14.905	
4,900.0	4,892.2	4,861.9	4,842.2	15.0	15.4	-74.34	-51.2	-362.1	441.2	411.6	29.56	14.922	
4,940.0	4,932.2	4,901.6	4,881.6	15.2	15.5	-74.59	-51.9	-366.9	445.6	415.8	29.84	14.934	
5,000.0	4,992.2	4,961.1	4,940.7	15.4	15.7	-74.97	-53.0	-374.1	452.3	422.1	30.25	14.952	
5,035.0	5,027.2	4,995.9	4,975.2	15.5	15.8	-75.19	-53.6	-378.3	456.2	425.7	30.49	14.963	
5,100.0	5,092.2	5,060.4	5,039.2	15.7	16.1	-75.58	-54.8	-386.1	463.5	432.6	30.94	14.982	
5,130.0	5,122.2	5,090.1	5,068.7	15.8	16.2	-75.75	-55.3	-389.7	466.9	435.7	31.14	14.991	
5,200.0	5,192.2	5,159.6	5,137.7	16.1	16.4	-76.15	-56.6	-398.0	474.8	443.1	31.63	15.011	
5,225.0	5,217.2	5,184.4	5,162.3	16.1	16.5	-76.29	-57.1	-401.0	477.6	445.8	31.80	15.018	
5,300.0	5,292.2	5,258.9	5,236.2	16.4	16.8	-76.70	-58.4	-410.0	486.1	453.8	32.32	15.040	
5,320.0	5,312.2	5,278.7	5,255.9	16.5	16.9	-76.81	-58.8	-412.4	488.3	455.9	32.46	15.046	
5,400.0	5,392.2	5,358.1	5,334.7	16.7	17.2	-77.22	-60.2	-422.0	497.4	464.4	33.01	15.068	
5,415.0	5,407.2	5,373.0	5,349.5	16.8	17.2	-77.30	-60.5	-423.7	499.1	466.0	33.12	15.072	
5,500.0	5,492.2	5,457.4	5,433.2	17.1	17.5	-77.72	-62.1	-433.9	508.8	475.1	33.70	15.095	
5,510.0	5,502.2	5,467.3	5,443.1	17.1	17.6	-77.77	-62.2	-435.1	509.9	476.2	33.77	15.098	
5,600.0	5,592.2	5,556.6	5,531.8	17.4	17.9	-78.20	-63.9	-445.9	520.2	485.8	34.40	15.122	
5,605.0	5,597.2	5,561.6	5,536.7	17.4	17.9	-78.23	-64.0	-446.5	520.8	486.3	34.43	15.124	
5,700.0	5,692.2	5,655.9	5,630.3	17.7	18.2	-78.66	-65.7	-457.8	531.7	496.6	35.10	15.149	
5,795.0	5,787.2	5,750.2	5,723.9	18.1	18.6	-79.08	-67.4	-469.2	542.6	506.8	35.76	15.173	
5,800.0	5,792.2	5,755.1	5,728.8	18.1	18.6	-79.10	-67.5	-469.8	543.1	507.3	35.79	15.174	
5,890.0	5,882.2	5,844.5	5,817.4	18.4	18.9	-79.48	-69.1	-480.6	553.5	517.1	36.42	15.197	
5,900.0	5,892.2	5,854.4	5,827.3	18.4	19.0	-79.52	-69.3	-481.8	554.7	518.2	36.49	15.199	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
5,985.0	5,977.2	5,938.8	5,911.0	18.7	19.3	-79.86	-70.9	-491.9	564.5	527.4	37.09	15.220	
6,000.0	5,992.2	5,953.7	5,925.8	18.8	19.3	-79.92	-71.1	-493.7	566.2	529.0	37.19	15.224	
6,080.0	6,072.2	6,033.1	6,004.6	19.0	19.6	-80.23	-72.6	-503.3	575.4	537.7	37.75	15.243	
6,100.0	6,092.2	6,052.9	6,024.3	19.1	19.7	-80.31	-72.9	-505.7	577.8	539.9	37.89	15.248	
6,175.0	6,167.2	6,127.4	6,098.2	19.4	20.0	-80.59	-74.3	-514.7	586.5	548.0	38.42	15.265	
6,200.0	6,192.2	6,152.2	6,122.8	19.5	20.1	-80.68	-74.8	-517.6	589.4	550.8	38.59	15.271	
6,270.0	6,262.2	6,221.6	6,191.8	19.7	20.3	-80.93	-76.0	-526.0	597.5	558.4	39.08	15.287	
6,300.0	6,292.2	6,251.4	6,221.4	19.8	20.4	-81.04	-76.6	-529.6	601.0	561.7	39.29	15.294	
6,365.0	6,357.2	6,315.9	6,285.4	20.0	20.7	-81.26	-77.7	-537.4	608.5	568.8	39.75	15.309	
6,400.0	6,392.2	6,350.7	6,319.9	20.2	20.8	-81.38	-78.4	-541.6	612.6	572.6	40.00	15.316	
6,460.0	6,452.2	6,410.2	6,379.0	20.4	21.0	-81.58	-79.5	-548.7	619.6	579.2	40.42	15.329	
6,500.0	6,492.2	6,449.9	6,418.4	20.5	21.1	-81.72	-80.2	-553.5	624.3	583.6	40.70	15.338	
6,555.0	6,547.2	6,504.5	6,472.6	20.7	21.3	-81.89	-81.2	-560.1	630.7	589.6	41.09	15.350	
6,600.0	6,592.2	6,549.2	6,516.9	20.8	21.5	-82.03	-82.0	-565.5	635.9	594.5	41.40	15.359	
6,650.0	6,642.2	6,598.8	6,566.2	21.0	21.7	-82.19	-82.9	-571.5	641.8	600.0	41.76	15.370	
6,700.0	6,692.2	6,648.4	6,615.4	21.2	21.9	-82.34	-83.8	-577.5	647.6	605.5	42.11	15.380	
6,745.0	6,737.2	6,693.1	6,659.7	21.3	22.0	-82.48	-84.6	-582.8	652.9	610.5	42.43	15.389	
6,800.0	6,792.2	6,747.7	6,713.9	21.5	22.2	-82.64	-85.6	-589.4	659.4	616.5	42.81	15.400	
6,840.0	6,832.2	6,787.4	6,753.3	21.7	22.4	-82.75	-86.4	-594.2	664.1	621.0	43.10	15.408	
6,900.0	6,892.2	6,846.9	6,812.4	21.9	22.6	-82.93	-87.5	-601.4	671.1	627.6	43.52	15.420	
6,935.0	6,927.2	6,881.7	6,846.9	22.0	22.7	-83.02	-88.1	-605.6	675.2	631.4	43.77	15.427	
7,000.0	6,992.2	6,946.2	6,911.0	22.2	23.0	-83.20	-89.3	-613.3	682.8	638.6	44.23	15.439	
7,030.0	7,022.2	6,976.0	6,940.5	22.3	23.1	-83.28	-89.8	-616.9	686.4	641.9	44.44	15.445	
7,100.0	7,092.2	7,045.5	7,009.5	22.6	23.3	-83.47	-91.1	-625.3	694.6	649.7	44.93	15.458	
7,125.0	7,117.2	7,070.3	7,034.1	22.7	23.4	-83.53	-91.5	-628.3	697.6	652.4	45.11	15.463	
7,200.0	7,192.2	7,144.7	7,108.0	22.9	23.7	-83.73	-92.9	-637.3	706.4	660.7	45.64	15.477	
7,220.0	7,212.2	7,164.6	7,127.7	23.0	23.8	-83.78	-93.3	-639.7	708.7	663.0	45.78	15.480	
7,300.0	7,292.2	7,244.0	7,206.5	23.3	24.1	-83.98	-94.7	-649.2	718.2	671.8	46.35	15.495	
7,315.0	7,307.2	7,258.9	7,221.3	23.3	24.1	-84.01	-95.0	-651.0	720.0	673.5	46.46	15.497	
7,400.0	7,392.2	7,343.2	7,305.0	23.6	24.4	-84.22	-96.5	-661.2	730.0	682.9	47.06	15.512	
7,410.0	7,402.2	7,353.1	7,314.9	23.7	24.5	-84.24	-96.7	-662.4	731.2	684.0	47.13	15.514	
7,500.0	7,492.2	7,442.5	7,403.5	24.0	24.8	-84.45	-98.3	-673.2	741.8	694.0	47.77	15.529	
7,505.0	7,497.2	7,447.4	7,408.5	24.0	24.8	-84.46	-98.4	-673.7	742.4	694.6	47.80	15.530	
7,600.0	7,592.2	7,541.7	7,502.0	24.3	25.2	-84.68	-100.2	-685.1	753.6	705.2	48.48	15.546	
7,695.0	7,687.2	7,636.0	7,595.6	24.7	25.5	-84.89	-101.9	-696.5	764.9	715.7	49.15	15.562	
7,700.0	7,692.2	7,641.0	7,600.6	24.7	25.5	-84.90	-102.0	-697.1	765.5	716.3	49.19	15.562	
7,790.0	7,782.2	7,730.3	7,689.2	25.0	25.9	-85.09	-103.6	-707.8	776.1	726.3	49.83	15.577	
7,800.0	7,792.2	7,740.2	7,699.1	25.0	25.9	-85.11	-103.8	-709.0	777.3	727.4	49.90	15.578	
7,885.0	7,877.2	7,824.6	7,782.8	25.3	26.2	-85.29	-105.3	-719.2	787.4	736.9	50.50	15.592	
7,900.0	7,892.2	7,839.5	7,797.6	25.4	26.3	-85.32	-105.6	-721.0	789.2	738.6	50.61	15.594	
7,980.0	7,972.2	7,918.9	7,876.4	25.7	26.6	-85.48	-107.0	-730.6	798.7	747.5	51.18	15.606	
8,000.0	7,992.2	7,938.7	7,896.1	25.7	26.6	-85.52	-107.4	-733.0	801.1	749.7	51.32	15.609	
8,075.0	8,067.2	8,013.2	7,970.0	26.0	26.9	-85.67	-108.8	-741.9	810.0	758.1	51.85	15.620	
8,100.0	8,092.2	8,038.0	7,994.6	26.1	27.0	-85.71	-109.2	-744.9	812.9	760.9	52.03	15.624	
8,170.0	8,162.2	8,107.5	8,063.6	26.3	27.3	-85.85	-110.5	-753.3	821.3	768.7	52.53	15.634	
8,200.0	8,192.2	8,137.3	8,093.1	26.4	27.4	-85.90	-111.0	-756.9	824.8	772.1	52.74	15.639	
8,265.0	8,257.2	8,201.8	8,157.2	26.7	27.6	-86.02	-112.2	-764.7	832.6	779.4	53.21	15.648	
8,300.0	8,292.2	8,236.5	8,191.6	26.8	27.7	-86.09	-112.8	-768.8	836.7	783.3	53.46	15.653	
8,360.0	8,352.2	8,296.1	8,250.7	27.0	28.0	-86.20	-113.9	-776.0	843.9	790.0	53.88	15.661	
8,400.0	8,392.2	8,335.8	8,290.2	27.1	28.1	-86.27	-114.7	-780.8	848.6	794.5	54.17	15.667	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,455.0	8,447.2	8,390.3	8,344.3	27.3	28.3	-86.36	-115.7	-787.4	855.2	800.6	54.56	15.674	
8,500.0	8,492.2	8,435.0	8,388.7	27.5	28.5	-86.44	-116.5	-792.8	860.6	805.7	54.88	15.681	
8,550.0	8,542.2	8,484.6	8,437.9	27.7	28.7	-86.52	-117.4	-798.8	866.5	811.3	55.24	15.687	
8,600.0	8,592.2	8,534.3	8,487.2	27.8	28.9	-86.61	-118.3	-804.7	872.5	816.9	55.59	15.694	
8,645.0	8,637.2	8,578.9	8,531.5	28.0	29.0	-86.68	-119.1	-810.1	877.8	821.9	55.91	15.700	
8,700.0	8,692.2	8,633.5	8,585.7	28.2	29.2	-86.77	-120.1	-816.7	884.4	828.1	56.31	15.707	
8,740.0	8,732.2	8,673.2	8,625.1	28.3	29.4	-86.84	-120.8	-821.5	889.2	832.6	56.59	15.712	
8,800.0	8,792.2	8,732.8	8,684.2	28.5	29.6	-86.93	-121.9	-828.7	896.3	839.3	57.02	15.720	
8,835.0	8,827.2	8,767.5	8,718.7	28.7	29.7	-86.99	-122.6	-832.8	900.5	843.3	57.27	15.724	
8,900.0	8,892.2	8,832.4	8,783.1	28.9	30.0	-87.09	-123.7	-840.7	908.3	850.6	57.73	15.732	
8,930.0	8,922.2	8,867.7	8,818.1	29.0	30.1	-87.14	-124.4	-844.8	911.8	853.8	57.98	15.725	
9,000.0	8,992.2	8,950.2	8,900.2	29.2	30.4	-87.25	-125.7	-853.6	919.2	860.6	58.56	15.697	
9,025.0	9,017.2	8,979.8	8,929.6	29.3	30.5	-87.29	-126.1	-856.5	921.6	862.8	58.76	15.683	
9,100.0	9,092.2	9,068.5	9,018.0	29.6	30.8	-87.38	-127.3	-864.2	928.1	868.7	59.37	15.632	
9,120.0	9,112.2	9,092.2	9,041.6	29.7	30.9	-87.41	-127.6	-866.1	929.6	870.1	59.53	15.615	
9,200.0	9,192.2	9,187.2	9,136.4	30.0	31.2	-87.48	-128.6	-872.5	935.0	874.8	60.17	15.539	
9,215.0	9,207.2	9,205.0	9,154.2	30.0	31.3	-87.50	-128.7	-873.5	935.8	875.5	60.29	15.523	
9,300.0	9,292.2	9,306.2	9,255.2	30.3	31.7	-87.55	-129.4	-878.3	939.8	878.9	60.94	15.421	
9,310.0	9,302.2	9,318.1	9,267.1	30.3	31.7	-87.56	-129.5	-878.7	940.2	879.2	61.02	15.408	
9,400.0	9,392.2	9,425.4	9,374.3	30.7	32.1	-87.59	-130.0	-881.7	942.6	880.9	61.70	15.278	
9,405.0	9,397.2	9,431.3	9,380.3	30.7	32.1	-87.59	-130.0	-881.8	942.7	881.0	61.74	15.270	
9,500.0	9,492.2	9,542.3	9,491.2	31.0	32.5	-87.60	-130.1	-882.6	943.4	881.0	62.42	15.113	
9,595.0	9,587.2	9,637.3	9,586.2	31.3	32.8	-87.60	-130.1	-882.6	943.4	880.4	63.07	14.959	
9,600.0	9,592.2	9,642.3	9,591.2	31.4	32.8	-87.60	-130.1	-882.6	943.4	880.3	63.10	14.951	
9,690.0	9,682.2	9,732.3	9,681.2	31.7	33.1	-87.60	-130.1	-882.6	943.4	879.7	63.71	14.807	
9,700.0	9,692.2	9,742.3	9,691.2	31.7	33.1	-87.60	-130.1	-882.6	943.4	879.6	63.78	14.791	
9,785.0	9,777.2	9,827.3	9,776.2	32.0	33.4	-87.60	-130.1	-882.6	943.4	879.1	64.36	14.658	
9,800.0	9,792.2	9,842.3	9,791.2	32.1	33.5	-87.60	-130.1	-882.6	943.4	879.0	64.46	14.635	
9,880.0	9,872.2	9,922.3	9,871.2	32.4	33.7	-87.60	-130.1	-882.6	943.4	878.4	65.01	14.512	
9,900.0	9,892.2	9,942.3	9,891.2	32.4	33.8	-87.60	-130.1	-882.6	943.4	878.3	65.15	14.482	
9,975.0	9,967.2	10,017.3	9,966.2	32.7	34.0	-87.60	-130.1	-882.6	943.4	877.8	65.63	14.375	
10,000.0	9,992.2	10,042.3	9,991.2	32.8	34.0	-87.60	-130.1	-882.6	943.4	877.7	65.76	14.346	
10,000.4	9,992.6	10,042.7	9,991.6	32.8	34.0	-87.60	-130.1	-882.6	943.4	877.7	65.76	14.346	
10,070.0	10,062.2	10,110.4	10,059.3	33.0	34.1	-87.58	-129.6	-882.6	943.4	877.4	66.09	14.274	
10,100.0	10,092.2	10,137.8	10,086.6	33.1	34.1	-87.46	-127.7	-882.6	943.6	877.3	66.21	14.251	
10,165.0	10,157.2	10,195.8	10,143.9	33.3	34.1	-86.89	-118.3	-882.6	944.1	877.8	66.34	14.230	
10,196.3	10,188.5	10,222.7	10,170.0	33.3	34.1	-86.48	-111.6	-882.7	944.6	878.2	66.41	14.223	
10,200.0	10,192.2	10,225.0	10,172.2	33.3	34.1	-84.41	-111.0	-882.7	944.7	878.3	66.41	14.224	
10,225.0	10,217.2	10,246.9	10,193.0	33.3	34.1	-83.99	-104.3	-882.7	945.1	878.7	66.42	14.229	
10,250.0	10,242.1	10,267.8	10,212.6	33.3	34.1	-83.61	-97.2	-882.7	945.6	879.2	66.43	14.234	
10,260.0	10,252.0	10,275.0	10,219.3	33.3	34.1	-83.47	-94.5	-882.7	945.8	879.3	66.43	14.236	
10,275.0	10,266.9	10,288.4	10,231.7	33.3	34.1	-83.24	-89.2	-882.7	946.0	879.6	66.44	14.239	
10,300.0	10,291.4	10,308.9	10,250.2	33.3	34.1	-82.89	-80.5	-882.8	946.4	880.0	66.44	14.244	
10,325.0	10,315.7	10,329.2	10,268.2	33.4	34.2	-82.55	-71.1	-882.8	946.8	880.4	66.45	14.249	
10,350.0	10,339.6	10,350.0	10,286.2	33.4	34.2	-82.22	-60.7	-882.8	947.2	880.7	66.45	14.254	
10,355.0	10,344.3	10,353.4	10,289.1	33.4	34.2	-82.17	-58.9	-882.9	947.3	880.8	66.45	14.255	
10,375.0	10,363.1	10,369.4	10,302.6	33.4	34.2	-81.93	-50.3	-882.9	947.5	881.1	66.45	14.259	
10,400.0	10,386.1	10,389.3	10,318.9	33.4	34.2	-81.65	-39.0	-882.9	947.8	881.4	66.45	14.263	
10,425.0	10,408.6	10,409.1	10,334.7	33.4	34.2	-81.39	-27.0	-883.0	948.1	881.6	66.45	14.268	
10,450.0	10,430.5	10,428.7	10,349.8	33.4	34.2	-81.14	-14.5	-883.0	948.3	881.8	66.44	14.272	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS												Offset Well Error:	3.0 usft
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	
10,475.0	10,451.7	10,450.0	10,365.6	33.4	34.2	-80.90	-0.3	-883.1	948.4	882.0	66.44	14.275	
10,500.0	10,472.2	10,467.7	10,378.3	33.4	34.2	-80.72	12.1	-883.1	948.5	882.1	66.43	14.278	
10,525.0	10,491.9	10,487.0	10,391.6	33.4	34.2	-80.54	26.1	-883.2	948.5	882.1	66.42	14.281	
10,545.0	10,507.1	10,500.0	10,400.2	33.5	34.2	-80.43	35.9	-883.2	948.5	882.1	66.41	14.283	
10,550.0	10,510.8	10,506.3	10,404.3	33.5	34.2	-80.38	40.6	-883.2	948.5	882.1	66.41	14.282	
10,551.9	10,512.2	10,507.7	10,405.2	33.5	34.2	-80.37	41.8	-883.2	948.5	882.1	66.41	14.282	
10,575.0	10,528.8	10,525.0	10,416.0	33.5	34.2	-80.24	55.2	-883.3	948.4	882.0	66.40	14.283	
10,600.0	10,545.8	10,544.6	10,427.7	33.5	34.2	-80.12	71.0	-883.3	948.3	881.9	66.39	14.282	
10,625.0	10,561.9	10,563.7	10,438.4	33.5	34.2	-80.03	86.7	-883.4	948.1	881.7	66.39	14.281	
10,640.0	10,571.1	10,575.0	10,444.5	33.5	34.2	-79.98	96.3	-883.4	947.9	881.5	66.38	14.279	
10,650.0	10,577.0	10,582.7	10,448.5	33.5	34.2	-79.96	102.9	-883.4	947.8	881.4	66.38	14.278	
10,675.0	10,591.0	10,600.0	10,457.0	33.5	34.2	-79.91	117.9	-883.5	947.4	881.1	66.37	14.274	
10,700.0	10,603.9	10,620.6	10,466.6	33.5	34.2	-79.88	136.2	-883.5	947.0	880.6	66.37	14.268	
10,725.0	10,615.6	10,639.5	10,474.6	33.5	34.2	-79.87	153.3	-883.6	946.5	880.2	66.37	14.261	
10,735.0	10,620.0	10,650.0	10,478.7	33.5	34.2	-79.87	162.9	-883.6	946.3	879.9	66.38	14.256	
10,750.0	10,626.2	10,658.4	10,481.9	33.5	34.2	-79.89	170.7	-883.7	946.0	879.6	66.38	14.252	
10,775.0	10,635.6	10,675.0	10,487.8	33.6	34.2	-79.93	186.2	-883.7	945.4	879.0	66.38	14.242	
10,800.0	10,643.8	10,696.1	10,494.5	33.6	34.2	-79.99	206.3	-883.8	944.7	878.3	66.39	14.228	
10,825.0	10,650.7	10,715.0	10,499.7	33.6	34.2	-80.07	224.4	-883.9	943.9	877.5	66.41	14.214	
10,830.0	10,651.9	10,718.8	10,500.7	33.6	34.2	-80.09	228.0	-883.9	943.7	877.3	66.41	14.211	
10,850.0	10,656.3	10,733.9	10,504.2	33.6	34.2	-80.18	242.7	-883.9	943.1	876.7	66.42	14.198	
10,875.0	10,660.7	10,750.0	10,507.5	33.6	34.2	-80.30	258.5	-884.0	942.2	875.8	66.44	14.181	
10,900.0	10,663.8	10,771.6	10,511.0	33.6	34.2	-80.45	279.8	-884.0	941.3	874.8	66.47	14.160	
10,925.0	10,665.5	10,790.5	10,513.3	33.6	34.2	-80.62	298.6	-884.1	940.3	873.8	66.50	14.139	
10,945.7	10,666.0	10,806.2	10,514.6	33.6	34.2	-80.78	314.2	-884.2	939.4	872.9	66.53	14.120	
11,000.0	10,666.1	10,850.3	10,515.8	33.6	34.2	-80.84	358.2	-884.3	938.0	871.4	66.61	14.082	
11,020.0	10,666.1	10,870.3	10,515.8	33.6	34.2	-80.84	378.2	-884.4	937.8	871.2	66.64	14.072	
11,037.0	10,666.1	10,887.3	10,515.9	33.6	34.2	-80.84	395.3	-884.5	937.7	871.1	66.67	14.066	
11,100.0	10,666.2	10,950.3	10,516.0	33.6	34.2	-80.84	458.2	-884.7	937.7	871.0	66.78	14.042	
11,115.0	10,666.2	10,965.3	10,516.0	33.7	34.2	-80.84	473.2	-884.7	937.7	870.9	66.81	14.036	
11,200.0	10,666.3	11,050.3	10,516.1	33.7	34.2	-80.84	558.2	-885.0	937.7	870.8	66.99	13.998	
11,210.0	10,666.4	11,060.3	10,516.1	33.7	34.2	-80.84	568.2	-885.1	937.7	870.7	67.01	13.993	
11,300.0	10,666.5	11,150.3	10,516.2	33.7	34.3	-80.84	658.2	-885.4	937.7	870.5	67.24	13.947	
11,305.0	10,666.5	11,155.3	10,516.2	33.7	34.3	-80.84	663.2	-885.4	937.7	870.5	67.25	13.944	
11,400.0	10,666.6	11,250.3	10,516.4	33.8	34.3	-80.84	758.2	-885.7	937.7	870.2	67.51	13.889	
11,495.0	10,666.7	11,345.3	10,516.5	33.9	34.4	-80.84	853.2	-886.1	937.7	869.9	67.81	13.829	
11,500.0	10,666.8	11,350.3	10,516.5	33.9	34.4	-80.84	858.2	-886.1	937.7	869.9	67.83	13.825	
11,590.0	10,666.9	11,440.3	10,516.6	34.0	34.6	-80.84	948.2	-886.4	937.7	869.6	68.14	13.763	
11,600.0	10,666.9	11,450.3	10,516.6	34.0	34.6	-80.84	958.2	-886.4	937.7	869.6	68.17	13.755	
11,685.0	10,667.0	11,535.3	10,516.8	34.1	34.7	-80.84	1,043.2	-886.7	937.7	869.2	68.49	13.691	
11,700.0	10,667.0	11,550.3	10,516.8	34.2	34.8	-80.84	1,058.2	-886.8	937.7	869.2	68.55	13.680	
11,780.0	10,667.1	11,630.3	10,516.9	34.3	34.9	-80.84	1,138.2	-887.1	937.7	868.9	68.88	13.615	
11,800.0	10,667.2	11,650.3	10,516.9	34.3	35.0	-80.84	1,158.2	-887.1	937.7	868.8	68.96	13.598	
11,875.0	10,667.3	11,725.3	10,517.0	34.5	35.1	-80.84	1,233.2	-887.4	937.7	868.5	69.29	13.534	
11,900.0	10,667.3	11,750.3	10,517.1	34.5	35.2	-80.84	1,258.2	-887.5	937.7	868.3	69.40	13.512	
11,970.0	10,667.4	11,820.3	10,517.1	34.7	35.3	-80.84	1,328.2	-887.7	937.7	868.0	69.73	13.448	
12,000.0	10,667.4	11,850.3	10,517.2	34.8	35.4	-80.84	1,358.2	-887.9	937.7	867.9	69.87	13.421	
12,065.0	10,667.5	11,915.3	10,517.3	34.9	35.6	-80.84	1,423.2	-888.1	937.7	867.5	70.20	13.359	
12,100.0	10,667.6	11,950.3	10,517.3	35.0	35.7	-80.84	1,458.2	-888.2	937.7	867.4	70.37	13.325	
12,160.0	10,667.7	12,010.3	10,517.4	35.1	35.8	-80.84	1,518.2	-888.4	937.7	867.0	70.69	13.265	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program:		1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		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	
12,200.0	10,667.7	12,050.3	10,517.5	35.2	35.9	-80.84	1,558.2	-888.6	937.7	866.8	70.91	13.225		
12,255.0	10,667.8	12,105.3	10,517.5	35.4	36.1	-80.84	1,613.2	-888.8	937.7	866.5	71.21	13.169		
12,300.0	10,667.8	12,150.3	10,517.6	35.5	36.2	-80.84	1,658.2	-888.9	937.7	866.3	71.47	13.122		
12,350.0	10,667.9	12,200.3	10,517.7	35.7	36.4	-80.84	1,708.2	-889.1	937.7	866.0	71.76	13.068		
12,400.0	10,668.0	12,250.3	10,517.7	35.8	36.5	-80.84	1,758.2	-889.3	937.7	865.7	72.05	13.014		
12,445.0	10,668.0	12,295.3	10,517.8	36.0	36.6	-80.84	1,803.2	-889.4	937.7	865.4	72.33	12.965		
12,500.0	10,668.1	12,350.3	10,517.9	36.1	36.8	-80.84	1,858.2	-889.6	937.7	865.1	72.67	12.904		
12,540.0	10,668.2	12,390.3	10,517.9	36.2	36.9	-80.84	1,898.2	-889.8	937.7	864.8	72.92	12.859		
12,600.0	10,668.3	12,450.3	10,518.0	36.4	37.1	-80.84	1,958.2	-890.0	937.7	864.4	73.31	12.791		
12,635.0	10,668.3	12,485.3	10,518.1	36.6	37.2	-80.84	1,993.2	-890.1	937.7	864.2	73.54	12.751		
12,700.0	10,668.4	12,550.3	10,518.2	36.8	37.5	-80.84	2,058.2	-890.3	937.7	863.8	73.98	12.675		
12,730.0	10,668.4	12,580.3	10,518.2	36.9	37.6	-80.84	2,088.2	-890.4	937.7	863.5	74.19	12.640		
12,800.0	10,668.5	12,650.3	10,518.3	37.1	37.8	-80.84	2,158.2	-890.7	937.7	863.1	74.67	12.558		
12,825.0	10,668.6	12,675.3	10,518.3	37.2	37.9	-80.84	2,183.2	-890.8	937.7	862.9	74.85	12.528		
12,900.0	10,668.7	12,750.3	10,518.4	37.5	38.2	-80.84	2,258.2	-891.0	937.7	862.3	75.39	12.438		
12,920.0	10,668.7	12,770.3	10,518.5	37.6	38.2	-80.84	2,278.2	-891.1	937.7	862.2	75.54	12.414		
13,000.0	10,668.8	12,850.3	10,518.6	37.9	38.5	-80.84	2,358.2	-891.4	937.7	861.6	76.14	12.317		
13,015.0	10,668.8	12,865.3	10,518.6	37.9	38.6	-80.84	2,373.2	-891.4	937.7	861.5	76.25	12.298		
13,100.0	10,668.9	12,950.3	10,518.7	38.2	38.9	-80.84	2,458.2	-891.7	937.7	860.8	76.90	12.194		
13,110.0	10,668.9	12,960.3	10,518.7	38.3	39.0	-80.84	2,468.2	-891.8	937.7	860.8	76.98	12.182		
13,200.0	10,669.1	13,050.3	10,518.8	38.6	39.3	-80.84	2,558.2	-892.1	937.7	860.0	77.69	12.070		
13,205.0	10,669.1	13,055.3	10,518.8	38.7	39.3	-80.84	2,563.2	-892.1	937.7	860.0	77.73	12.064		
13,300.0	10,669.2	13,150.3	10,519.0	39.0	39.7	-80.84	2,658.2	-892.4	937.7	859.2	78.50	11.946		
13,395.0	10,669.3	13,245.3	10,519.1	39.4	40.1	-80.84	2,753.2	-892.8	937.7	858.4	79.29	11.827		
13,400.0	10,669.3	13,250.3	10,519.1	39.5	40.1	-80.84	2,758.2	-892.8	937.7	858.4	79.33	11.820		
13,490.0	10,669.5	13,340.3	10,519.2	39.9	40.5	-80.84	2,848.2	-893.1	937.7	857.6	80.10	11.707		
13,500.0	10,669.5	13,350.3	10,519.2	39.9	40.5	-80.84	2,858.2	-893.1	937.7	857.5	80.18	11.695		
13,585.0	10,669.6	13,435.3	10,519.4	40.3	40.9	-80.84	2,943.2	-893.4	937.7	856.8	80.92	11.588		
13,600.0	10,669.6	13,450.3	10,519.4	40.3	41.0	-80.84	2,958.2	-893.5	937.7	856.7	81.06	11.569		
13,680.0	10,669.7	13,530.3	10,519.5	40.7	41.3	-80.84	3,038.2	-893.8	937.7	856.0	81.77	11.468		
13,700.0	10,669.8	13,550.3	10,519.5	40.8	41.4	-80.84	3,058.2	-893.9	937.7	855.8	81.95	11.443		
13,775.0	10,669.9	13,625.3	10,519.6	41.1	41.8	-80.84	3,133.2	-894.1	937.7	855.1	82.63	11.349		
13,800.0	10,669.9	13,650.3	10,519.7	41.2	41.9	-80.84	3,158.2	-894.2	937.7	854.9	82.86	11.317		
13,870.0	10,670.0	13,720.3	10,519.8	41.6	42.2	-80.84	3,228.2	-894.5	937.7	854.2	83.51	11.230		
13,900.0	10,670.0	13,750.3	10,519.8	41.7	42.3	-80.84	3,258.2	-894.6	937.7	853.9	83.79	11.192		
13,965.0	10,670.1	13,815.3	10,519.9	42.0	42.6	-80.84	3,323.2	-894.8	937.7	853.3	84.40	11.111		
14,000.0	10,670.2	13,850.3	10,519.9	42.2	42.8	-80.84	3,358.2	-894.9	937.7	853.0	84.73	11.067		
14,060.0	10,670.2	13,910.3	10,520.0	42.5	43.1	-80.84	3,418.2	-895.1	937.7	852.4	85.31	10.992		
14,100.0	10,670.3	13,950.3	10,520.1	42.7	43.3	-80.84	3,458.2	-895.3	937.7	852.0	85.69	10.943		
14,155.0	10,670.4	14,005.3	10,520.1	42.9	43.5	-80.84	3,513.2	-895.5	937.7	851.5	86.23	10.875		
14,200.0	10,670.4	14,050.3	10,520.2	43.2	43.8	-80.84	3,558.2	-895.6	937.7	851.1	86.67	10.819		
14,250.0	10,670.5	14,100.3	10,520.3	43.4	44.0	-80.84	3,608.2	-895.8	937.7	850.6	87.17	10.758		
14,300.0	10,670.6	14,150.3	10,520.3	43.7	44.3	-80.84	3,658.2	-896.0	937.7	850.1	87.67	10.696		
14,345.0	10,670.6	14,195.3	10,520.4	43.9	44.5	-80.84	3,703.2	-896.1	937.7	849.6	88.12	10.642		
14,400.0	10,670.7	14,250.3	10,520.5	44.2	44.8	-80.84	3,758.2	-896.3	937.7	849.0	88.68	10.575		
14,440.0	10,670.8	14,290.3	10,520.5	44.4	45.0	-80.84	3,798.2	-896.5	937.7	848.6	89.08	10.526		
14,500.0	10,670.8	14,350.3	10,520.6	44.7	45.3	-80.84	3,858.2	-896.7	937.7	848.0	89.70	10.454		
14,535.0	10,670.9	14,385.3	10,520.7	44.9	45.4	-80.84	3,893.2	-896.8	937.7	847.7	90.06	10.412		
14,600.0	10,671.0	14,450.3	10,520.8	45.2	45.8	-80.84	3,958.2	-897.0	937.7	847.0	90.74	10.334		
14,630.0	10,671.0	14,480.3	10,520.8	45.4	45.9	-80.84	3,988.2	-897.1	937.7	846.7	91.05	10.298		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
14,700.0	10,671.1	14,550.3	10,520.9	45.7	46.3	-80.84	4,058.2	-897.4	937.7	845.9	91.79	10.216	
14,725.0	10,671.2	14,575.3	10,520.9	45.9	46.4	-80.84	4,083.2	-897.5	937.7	845.7	92.06	10.186	
14,800.0	10,671.3	14,650.3	10,521.0	46.3	46.8	-80.84	4,158.2	-897.7	937.7	844.9	92.86	10.098	
14,820.0	10,671.3	14,670.3	10,521.1	46.4	46.9	-80.84	4,178.2	-897.8	937.7	844.6	93.07	10.075	
14,900.0	10,671.4	14,750.3	10,521.2	46.8	47.4	-80.84	4,258.2	-898.1	937.7	843.8	93.94	9.982	
14,915.0	10,671.4	14,765.3	10,521.2	46.9	47.5	-80.84	4,273.2	-898.1	937.7	843.6	94.10	9.965	
15,000.0	10,671.5	14,850.3	10,521.3	47.4	47.9	-80.84	4,358.2	-898.4	937.7	842.7	95.03	9.868	
15,010.0	10,671.5	14,860.3	10,521.3	47.4	48.0	-80.84	4,368.2	-898.5	937.7	842.6	95.14	9.856	
15,100.0	10,671.7	14,950.3	10,521.4	47.9	48.5	-80.84	4,458.2	-898.8	937.7	841.6	96.13	9.755	
15,105.0	10,671.7	14,955.3	10,521.5	48.0	48.5	-80.84	4,463.2	-898.8	937.7	841.5	96.19	9.749	
15,200.0	10,671.8	15,050.3	10,521.6	48.5	49.0	-80.84	4,558.2	-899.1	937.7	840.5	97.25	9.643	
15,295.0	10,671.9	15,145.3	10,521.7	49.0	49.5	-80.84	4,653.2	-899.5	937.7	839.4	98.31	9.538	
15,300.0	10,671.9	15,150.3	10,521.7	49.1	49.6	-80.84	4,658.2	-899.5	937.7	839.3	98.37	9.532	
15,390.0	10,672.1	15,240.3	10,521.8	49.6	50.1	-80.84	4,748.2	-899.8	937.7	838.3	99.39	9.434	
15,400.0	10,672.1	15,250.3	10,521.9	49.6	50.1	-80.84	4,758.2	-899.9	937.7	838.2	99.51	9.424	
15,485.0	10,672.2	15,335.3	10,522.0	50.1	50.6	-80.84	4,843.2	-900.2	937.7	837.2	100.48	9.332	
15,500.0	10,672.2	15,350.3	10,522.0	50.2	50.7	-80.84	4,858.2	-900.2	937.7	837.1	100.65	9.316	
15,580.0	10,672.3	15,430.3	10,522.1	50.7	51.2	-80.84	4,938.2	-900.5	937.7	836.1	101.58	9.231	
15,600.0	10,672.3	15,450.3	10,522.1	50.8	51.3	-80.84	4,958.2	-900.6	937.7	835.9	101.81	9.210	
15,675.0	10,672.4	15,525.3	10,522.2	51.2	51.7	-80.84	5,033.2	-900.8	937.7	835.0	102.69	9.132	
15,700.0	10,672.5	15,550.3	10,522.3	51.4	51.9	-80.84	5,058.2	-900.9	937.7	834.7	102.98	9.106	
15,770.0	10,672.6	15,620.3	10,522.4	51.8	52.3	-80.84	5,128.2	-901.2	937.7	833.9	103.80	9.034	
15,800.0	10,672.6	15,650.3	10,522.4	52.0	52.4	-80.84	5,158.2	-901.3	937.7	833.6	104.15	9.003	
15,865.0	10,672.7	15,715.3	10,522.5	52.3	52.8	-80.84	5,223.2	-901.5	937.7	832.8	104.92	8.937	
15,900.0	10,672.8	15,750.3	10,522.5	52.6	53.0	-80.84	5,258.2	-901.6	937.7	832.4	105.34	8.902	
15,960.0	10,672.8	15,810.3	10,522.6	52.9	53.4	-80.84	5,318.2	-901.8	937.7	831.7	106.06	8.842	
16,000.0	10,672.9	15,850.3	10,522.7	53.2	53.6	-80.84	5,358.2	-902.0	937.7	831.2	106.53	8.802	
16,055.0	10,673.0	15,905.3	10,522.8	53.5	54.0	-80.84	5,413.2	-902.2	937.7	830.5	107.19	8.748	
16,100.0	10,673.0	15,950.3	10,522.8	53.8	54.2	-80.84	5,458.2	-902.3	937.7	830.0	107.74	8.704	
16,150.0	10,673.1	16,000.3	10,522.9	54.1	54.5	-80.84	5,508.2	-902.5	937.7	829.4	108.34	8.655	
16,200.0	10,673.2	16,050.3	10,523.0	54.4	54.8	-80.84	5,558.2	-902.7	937.7	828.8	108.95	8.607	
16,245.0	10,673.2	16,095.3	10,523.0	54.6	55.1	-80.84	5,603.2	-902.8	937.7	828.2	109.49	8.564	
16,300.0	10,673.3	16,150.3	10,523.1	55.0	55.4	-80.84	5,658.2	-903.0	937.7	827.5	110.17	8.512	
16,340.0	10,673.4	16,190.3	10,523.1	55.2	55.7	-80.84	5,698.2	-903.2	937.7	827.1	110.66	8.474	
16,400.0	10,673.4	16,250.3	10,523.2	55.6	56.0	-80.84	5,758.2	-903.4	937.7	826.3	111.39	8.418	
16,435.0	10,673.5	16,285.3	10,523.3	55.8	56.3	-80.84	5,793.2	-903.5	937.7	825.9	111.82	8.386	
16,500.0	10,673.6	16,350.3	10,523.4	56.2	56.7	-80.84	5,858.2	-903.7	937.7	825.1	112.63	8.326	
16,530.0	10,673.6	16,380.3	10,523.4	56.4	56.8	-80.84	5,888.2	-903.8	937.7	824.7	113.00	8.298	
16,600.0	10,673.7	16,450.3	10,523.5	56.8	57.3	-80.84	5,958.2	-904.1	937.7	823.8	113.87	8.235	
16,625.0	10,673.7	16,475.3	10,523.5	57.0	57.4	-80.84	5,983.2	-904.2	937.7	823.5	114.18	8.213	
16,700.0	10,673.8	16,550.3	10,523.6	57.5	57.9	-80.84	6,058.2	-904.4	937.7	822.6	115.12	8.146	
16,720.0	10,673.9	16,570.3	10,523.7	57.6	58.0	-80.84	6,078.2	-904.5	937.7	822.3	115.37	8.128	
16,800.0	10,674.0	16,650.3	10,523.8	58.1	58.5	-80.84	6,158.2	-904.8	937.7	821.3	116.37	8.058	
16,815.0	10,674.0	16,665.3	10,523.8	58.2	58.6	-80.84	6,173.2	-904.8	937.7	821.2	116.56	8.045	
16,900.0	10,674.1	16,750.3	10,523.9	58.7	59.1	-80.84	6,258.2	-905.1	937.7	820.1	117.63	7.972	
16,910.0	10,674.1	16,760.3	10,523.9	58.8	59.2	-80.84	6,268.2	-905.2	937.7	820.0	117.76	7.963	
17,000.0	10,674.3	16,850.3	10,524.1	59.4	59.8	-80.84	6,358.2	-905.5	937.7	818.8	118.90	7.887	
17,005.0	10,674.3	16,855.3	10,524.1	59.4	59.8	-80.84	6,363.2	-905.5	937.7	818.7	118.96	7.882	
17,100.0	10,674.4	16,950.3	10,524.2	60.0	60.4	-80.85	6,458.2	-905.8	937.7	817.5	120.17	7.803	
17,195.0	10,674.5	17,045.3	10,524.3	60.6	61.0	-80.85	6,553.2	-906.2	937.7	816.3	121.39	7.725	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
17,200.0	10,674.5	17,050.3	10,524.3	60.6	61.0	-80.85	6,558.2	-906.2	937.7	816.3	121.45	7.721	
17,290.0	10,674.6	17,140.3	10,524.5	61.2	61.6	-80.85	6,648.2	-906.5	937.7	815.1	122.61	7.648	
17,300.0	10,674.7	17,150.3	10,524.5	61.3	61.7	-80.85	6,658.2	-906.6	937.7	815.0	122.74	7.640	
17,385.0	10,674.8	17,235.3	10,524.6	61.8	62.2	-80.85	6,743.2	-906.9	937.7	813.9	123.83	7.572	
17,400.0	10,674.8	17,250.3	10,524.6	61.9	62.3	-80.85	6,758.2	-906.9	937.7	813.7	124.03	7.560	
17,480.0	10,674.9	17,330.3	10,524.7	62.5	62.8	-80.85	6,838.2	-907.2	937.7	812.6	125.06	7.498	
17,500.0	10,674.9	17,350.3	10,524.7	62.6	63.0	-80.85	6,858.2	-907.3	937.7	812.4	125.32	7.482	
17,575.0	10,675.0	17,425.3	10,524.8	63.1	63.5	-80.85	6,933.2	-907.5	937.7	811.4	126.30	7.424	
17,600.0	10,675.1	17,450.3	10,524.9	63.2	63.6	-80.85	6,958.2	-907.6	937.7	811.1	126.63	7.405	
17,670.0	10,675.2	17,520.3	10,525.0	63.7	64.1	-80.85	7,028.2	-907.9	937.7	810.2	127.54	7.352	
17,700.0	10,675.2	17,550.3	10,525.0	63.9	64.3	-80.85	7,058.2	-908.0	937.7	809.8	127.93	7.330	
17,765.0	10,675.3	17,615.3	10,525.1	64.3	64.7	-80.85	7,123.2	-908.2	937.7	808.9	128.78	7.281	
17,800.0	10,675.3	17,650.3	10,525.2	64.6	64.9	-80.85	7,158.2	-908.3	937.7	808.5	129.24	7.255	
17,860.0	10,675.4	17,710.3	10,525.2	65.0	65.3	-80.85	7,218.2	-908.5	937.7	807.7	130.03	7.211	
17,900.0	10,675.5	17,750.3	10,525.3	65.2	65.6	-80.85	7,258.2	-908.7	937.7	807.1	130.56	7.182	
17,955.0	10,675.6	17,805.3	10,525.4	65.6	65.9	-80.85	7,313.2	-908.9	937.7	806.4	131.29	7.142	
18,000.0	10,675.6	17,850.3	10,525.4	65.9	66.2	-80.85	7,358.2	-909.0	937.7	805.8	131.88	7.110	
18,050.0	10,675.7	17,900.3	10,525.5	66.2	66.6	-80.85	7,408.2	-909.2	937.7	805.2	132.54	7.075	
18,100.0	10,675.8	17,950.3	10,525.6	66.5	66.9	-80.85	7,458.2	-909.4	937.7	804.5	133.21	7.039	
18,145.0	10,675.8	17,995.3	10,525.6	66.8	67.2	-80.85	7,503.2	-909.5	937.7	803.9	133.80	7.008	
18,200.0	10,675.9	18,050.3	10,525.7	67.2	67.6	-80.85	7,558.2	-909.7	937.7	803.2	134.53	6.970	
18,232.8	10,675.9	18,083.0	10,525.7	67.4	67.8	-80.85	7,591.0	-909.8	937.7	802.7	134.97	6.948	
18,240.0	10,675.9	18,090.3	10,525.8	67.5	67.8	-80.85	7,598.2	-909.9	937.7	802.6	135.07	6.943	
18,268.2	10,676.0	18,118.5	10,525.8	67.7	68.0	-80.85	7,626.4	-910.0	937.7	802.3	135.44	6.923	
18,282.8	10,676.0	18,120.0	10,525.8	67.8	68.0	-80.85	7,627.9	-910.0	937.8	802.2	135.59	6.916	

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

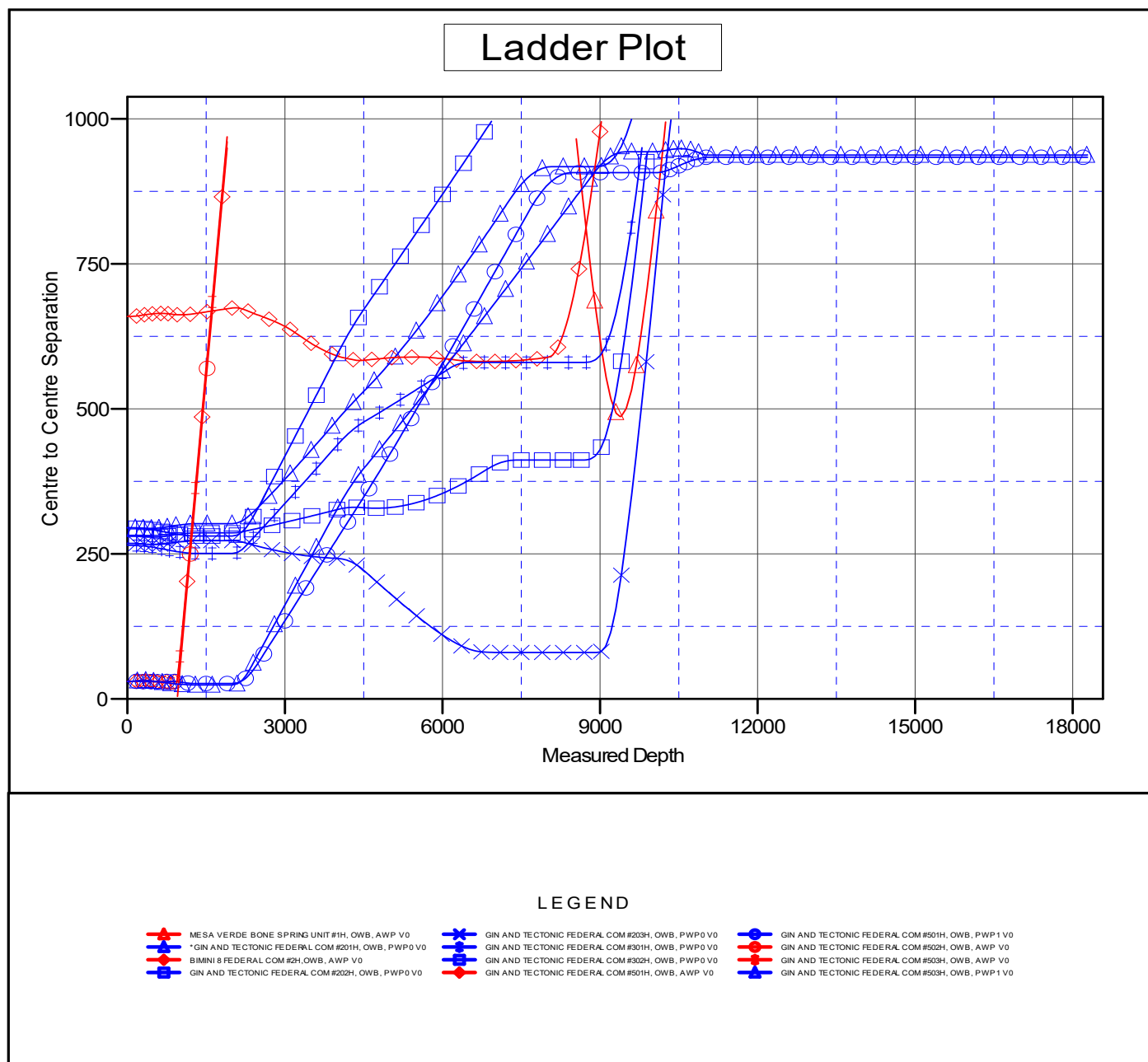
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 31ft + GL 3640.8ft @ 3671.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #502H
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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 31ft + GL 3640.8ft @ 3671.8usft

Offset Depths are relative to Offset Datum

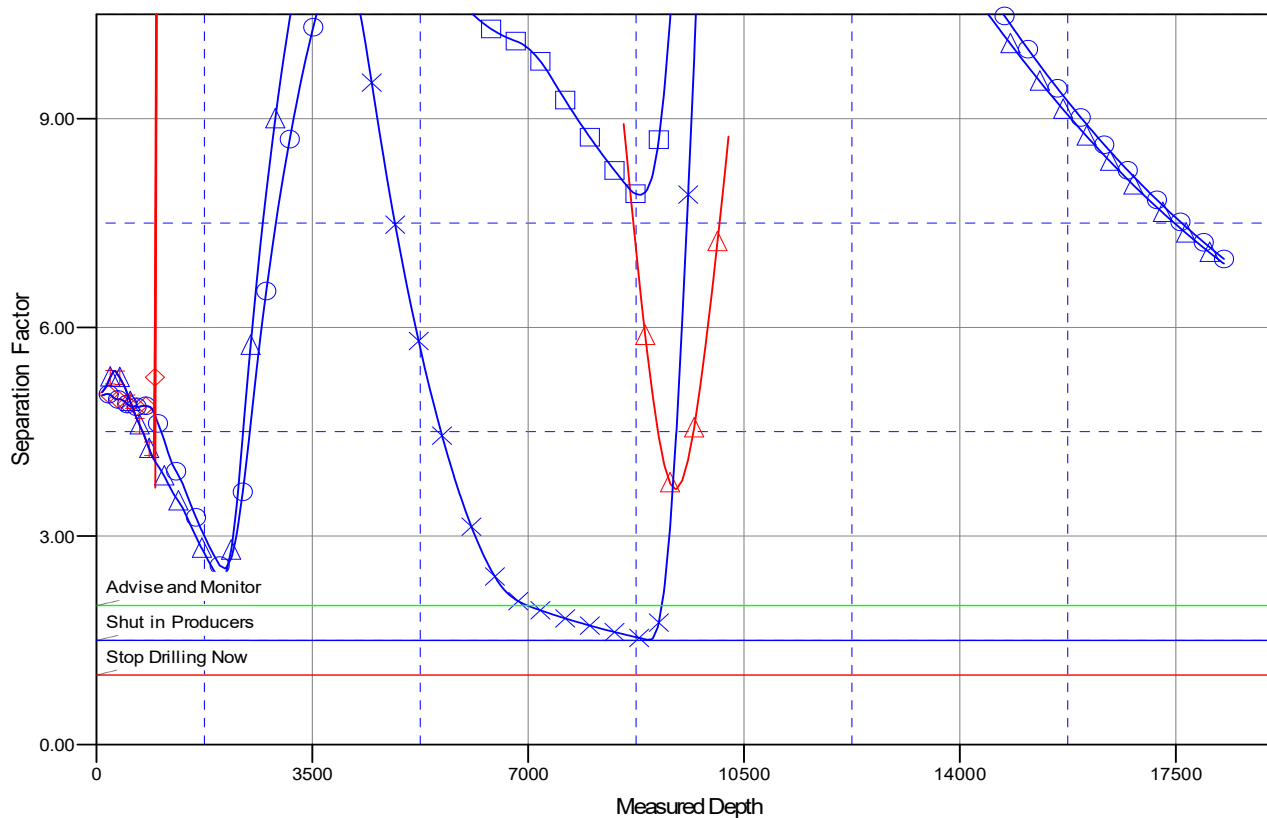
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #502H

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

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

MESA VERDE BONE SPRING UNIT #1H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #203H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #501H, OWB, PWP1 V0
GIN AND TECTONIC FEDERAL COM #201H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #301H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #502H, OWB, AWP V0
BIMINI 8 FEDERAL COM #2H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #302H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #503H, OWB, AWP V0
GIN AND TECTONIC FEDERAL COM #202H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #501H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #503H, OWB, PWP1 V0

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

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #502H

300254842900

OWB

Plan: PWP1

Standard Planning Report

28 July, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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		

Well	GIN AND TECTONIC FEDERAL COM #502H			
Well Position	+N/-S	278.1 usft	Northing:	451,534.90 usft
	+E/-W	4,009.7 usft	Easting:	698,321.60 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	
			Ground Level:	3,640.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/1/2022	6.51	59.87	47,587.38797517

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	950.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.12

Plan Survey Tool Program		Date 7/27/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	1.0	950.0 GYRO-SURF (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1
2	950.0	10,196.3 PWP1 (OWB)	MWD+IFR1	OWSG MWD + IFR1
3	10,196.3	18,282.8 PWP1 (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 #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	0.00	0.00	
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	0.00	0.00	0.00	0.00	
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	0.00	0.00	0.00	0.00	
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.50	-0.50	0.00	180.00	
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.00	0.00	0.00	0.00	
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	2.00	2.00	0.00	156.45	
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	0.00	0.00	0.00	0.00	
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	1.00	-1.00	0.00	180.00	
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	0.00	0.00	0.00	0.00	
10,945.7	89.92	357.97	10,666.0	307.0	43.1	12.00	12.00	0.00	357.97	
11,037.0	89.92	359.80	10,666.1	398.3	41.3	2.00	0.00	2.00	90.00	
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	0.00	0.00	0.00	0.00	
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
101.0	0.32	313.04	101.0	0.2	-0.2	0.2	0.32	0.32	0.00	
126.0	0.40	296.66	126.0	0.3	-0.3	0.3	0.52	0.32	-65.52	
151.0	0.38	304.29	151.0	0.4	-0.5	0.4	0.22	-0.08	30.52	
176.0	0.40	313.59	176.0	0.5	-0.6	0.5	0.27	0.08	37.20	
201.0	0.62	325.25	201.0	0.6	-0.8	0.6	0.97	0.88	46.64	
226.0	0.56	335.14	226.0	0.9	-0.9	0.9	0.47	-0.24	39.56	
251.0	0.66	340.79	251.0	1.1	-1.0	1.1	0.47	0.40	22.60	
276.0	0.67	330.84	276.0	1.4	-1.1	1.4	0.46	0.04	-39.80	
301.0	0.77	323.98	301.0	1.6	-1.3	1.6	0.53	0.40	-27.44	
326.0	0.81	315.90	326.0	1.9	-1.5	1.9	0.47	0.16	-32.32	
351.0	0.85	310.12	351.0	2.1	-1.8	2.1	0.37	0.16	-23.12	
376.0	0.89	308.46	376.0	2.4	-2.0	2.4	0.19	0.16	-6.64	
401.0	0.86	313.36	401.0	2.6	-2.3	2.6	0.32	-0.12	19.60	
426.0	0.95	309.01	426.0	2.9	-2.6	2.9	0.45	0.36	-17.40	
451.0	0.92	305.27	451.0	3.1	-3.0	3.1	0.27	-0.12	-14.96	
476.0	0.95	294.24	476.0	3.3	-3.3	3.3	0.73	0.12	-44.12	
501.0	0.94	295.88	501.0	3.5	-3.7	3.5	0.12	-0.04	6.56	
526.0	1.07	291.93	526.0	3.7	-4.1	3.7	0.59	0.52	-15.80	
551.0	1.06	286.51	551.0	3.8	-4.5	3.8	0.40	-0.04	-21.68	
576.0	1.03	280.22	576.0	4.0	-5.0	3.9	0.47	-0.12	-25.16	
601.0	1.03	276.94	601.0	4.0	-5.4	4.0	0.24	0.00	-13.12	
626.0	0.98	268.62	625.9	4.0	-5.8	4.0	0.62	-0.20	-33.28	
651.0	0.87	272.00	650.9	4.0	-6.3	4.0	0.49	-0.44	13.52	
676.0	0.92	266.55	675.9	4.0	-6.6	4.0	0.39	0.20	-21.80	
701.0	0.93	260.22	700.9	4.0	-7.0	4.0	0.41	0.04	-25.32	
726.0	0.99	249.96	725.9	3.9	-7.4	3.9	0.73	0.24	-41.04	
751.0	1.01	242.56	750.9	3.7	-7.8	3.7	0.52	0.08	-29.60	
776.0	1.07	248.56	775.9	3.5	-8.3	3.5	0.50	0.24	24.00	
801.0	1.16	244.55	800.9	3.3	-8.7	3.3	0.48	0.36	-16.04	
826.0	1.14	236.11	825.9	3.1	-9.1	3.1	0.68	-0.08	-33.76	
851.0	1.16	247.70	850.9	2.8	-9.6	2.8	0.93	0.08	46.36	
876.0	1.16	239.89	875.9	2.6	-10.0	2.6	0.63	0.00	-31.24	
901.0	1.08	237.52	900.9	2.4	-10.4	2.3	0.37	-0.32	-9.48	
926.0	0.87	244.17	925.9	2.2	-10.8	2.1	0.95	-0.84	26.60	
950.0	0.70	250.03	949.9	2.0	-11.1	2.0	0.78	-0.71	24.42	
TIE INTO GYRO SURVEYS										
1,000.0	0.70	250.03	999.9	1.8	-11.7	1.8	0.00	0.00	0.00	
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	1.6	0.00	0.00	0.00	
SURFACE CP										
1,100.0	0.70	250.03	1,099.9	1.4	-12.8	1.4	0.00	0.00	0.00	
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	1.2	0.00	0.00	0.00	
RETURN TO VERTICAL										
1,200.0	0.47	250.03	1,199.9	1.0	-13.9	1.0	0.50	-0.50	0.00	
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.9	0.50	-0.50	116.99	
START HOLD @ 1294.0 MD										
1,300.0	0.00	0.00	1,299.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,399.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,499.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,599.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,699.9	0.9	-14.3	0.9	0.00	0.00	0.00	

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,800.0	0.00	0.00	1,799.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,900.0	0.00	0.00	1,899.9	0.9	-14.3	0.9	0.00	0.00	0.00
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.9	0.00	0.00	0.00
START BUILD 2.00									
2,100.0	2.00	156.45	2,099.9	-0.7	-13.6	-0.7	2.00	2.00	0.00
2,200.0	4.00	156.45	2,199.7	-5.5	-11.5	-5.5	2.00	2.00	0.00
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	-9.1	2.00	2.00	0.00
START HOLD @ 2250.1 MD									
2,300.0	5.00	156.45	2,299.4	-13.1	-8.2	-13.1	0.00	0.00	0.00
2,400.0	5.00	156.45	2,399.0	-21.1	-4.7	-21.1	0.00	0.00	0.00
2,500.0	5.00	156.45	2,498.6	-29.1	-1.2	-29.1	0.00	0.00	0.00
2,600.0	5.00	156.45	2,598.2	-37.1	2.3	-37.1	0.00	0.00	0.00
2,700.0	5.00	156.45	2,697.8	-45.1	5.8	-45.0	0.00	0.00	0.00
2,800.0	5.00	156.45	2,797.5	-53.0	9.2	-53.0	0.00	0.00	0.00
2,900.0	5.00	156.45	2,897.1	-61.0	12.7	-61.0	0.00	0.00	0.00
3,000.0	5.00	156.45	2,996.7	-69.0	16.2	-69.0	0.00	0.00	0.00
3,100.0	5.00	156.45	3,096.3	-77.0	19.7	-77.0	0.00	0.00	0.00
3,200.0	5.00	156.45	3,195.9	-85.0	23.2	-85.0	0.00	0.00	0.00
3,300.0	5.00	156.45	3,295.6	-93.0	26.6	-92.9	0.00	0.00	0.00
3,400.0	5.00	156.45	3,395.2	-101.0	30.1	-100.9	0.00	0.00	0.00
3,500.0	5.00	156.45	3,494.8	-109.0	33.6	-108.9	0.00	0.00	0.00
3,600.0	5.00	156.45	3,594.4	-117.0	37.1	-116.9	0.00	0.00	0.00
3,700.0	5.00	156.45	3,694.0	-125.0	40.6	-124.9	0.00	0.00	0.00
3,800.0	5.00	156.45	3,793.7	-132.9	44.1	-132.9	0.00	0.00	0.00
3,900.0	5.00	156.45	3,893.3	-140.9	47.5	-140.8	0.00	0.00	0.00
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	-149.4	0.00	0.00	0.00
START DROP -1.00									
4,100.0	4.08	156.45	4,092.6	-156.2	54.2	-156.1	1.00	-1.00	0.00
4,200.0	3.08	156.45	4,192.4	-162.0	56.7	-161.8	1.00	-1.00	0.00
4,300.0	2.08	156.45	4,292.3	-166.1	58.5	-166.0	1.00	-1.00	0.00
4,400.0	1.08	156.45	4,392.2	-168.6	59.6	-168.5	1.00	-1.00	0.00
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	-169.4	1.00	-1.00	-145.18
START HOLD @ 4507.8 MD									
4,600.0	0.00	0.00	4,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,400.0	0.00	0.00	6,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	-169.4	0.00	0.00	0.00
START BUILD 12.00									
10,200.0	0.44	357.97	10,192.2	-169.5	60.0	-169.4	12.00	12.00	0.00
10,225.0	3.44	357.97	10,217.2	-168.7	60.0	-168.6	12.00	12.00	0.00
10,250.0	6.44	357.97	10,242.1	-166.5	59.9	-166.4	12.00	12.00	0.00
10,275.0	9.44	357.97	10,266.9	-163.1	59.8	-162.9	12.00	12.00	0.00
10,300.0	12.44	357.97	10,291.4	-158.3	59.6	-158.2	12.00	12.00	0.00
10,325.0	15.44	357.97	10,315.7	-152.3	59.4	-152.2	12.00	12.00	0.00
10,350.0	18.44	357.97	10,339.6	-145.0	59.1	-144.9	12.00	12.00	0.00
10,375.0	21.44	357.97	10,363.1	-136.5	58.8	-136.4	12.00	12.00	0.00
10,400.0	24.44	357.97	10,386.1	-126.8	58.5	-126.6	12.00	12.00	0.00
10,425.0	27.44	357.97	10,408.6	-115.8	58.1	-115.7	12.00	12.00	0.00
10,450.0	30.44	357.97	10,430.5	-103.7	57.7	-103.6	12.00	12.00	0.00
10,475.0	33.44	357.97	10,451.7	-90.5	57.2	-90.4	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	36.44	357.97	10,472.2	-76.2	56.7	-76.1	12.00	12.00	0.00
10,525.0	39.44	357.97	10,491.9	-60.9	56.1	-60.7	12.00	12.00	0.00
10,550.0	42.44	357.97	10,510.8	-44.5	55.6	-44.4	12.00	12.00	0.00
10,575.0	45.44	357.97	10,528.8	-27.2	55.0	-27.0	12.00	12.00	0.00
10,600.0	48.44	357.97	10,545.8	-8.9	54.3	-8.8	12.00	12.00	0.00
10,625.0	51.44	357.97	10,561.9	10.2	53.6	10.3	12.00	12.00	0.00
10,650.0	54.44	357.97	10,577.0	30.2	52.9	30.3	12.00	12.00	0.00
10,675.0	57.44	357.97	10,591.0	50.9	52.2	51.0	12.00	12.00	0.00
10,700.0	60.44	357.97	10,603.9	72.3	51.4	72.4	12.00	12.00	0.00
10,725.0	63.44	357.97	10,615.6	94.3	50.6	94.4	12.00	12.00	0.00
10,750.0	66.44	357.97	10,626.2	116.9	49.8	117.0	12.00	12.00	0.00
10,775.0	69.44	357.97	10,635.6	140.1	49.0	140.2	12.00	12.00	0.00
10,800.0	72.44	357.97	10,643.8	163.7	48.2	163.8	12.00	12.00	0.00
10,825.0	75.44	357.97	10,650.7	187.7	47.3	187.8	12.00	12.00	0.00
10,850.0	78.44	357.97	10,656.3	212.0	46.5	212.1	12.00	12.00	0.00
10,875.0	81.44	357.97	10,660.7	236.6	45.6	236.7	12.00	12.00	0.00
10,900.0	84.44	357.97	10,663.8	261.4	44.7	261.5	12.00	12.00	0.00
10,925.0	87.44	357.97	10,665.5	286.3	43.8	286.4	12.00	12.00	0.00
10,945.7	89.92	357.97	10,666.0	307.0	43.1	307.1	12.00	12.00	0.00
START DLS 2.00 TFO 90.00									
11,000.0	89.92	359.06	10,666.1	361.3	41.7	361.4	2.00	0.00	2.00
11,037.0	89.92	359.80	10,666.1	398.3	41.3	398.4	2.00	0.00	2.00
START HOLD @ 11037.0 MD									
11,100.0	89.92	359.80	10,666.2	461.3	41.1	461.4	0.00	0.00	0.00
11,200.0	89.92	359.80	10,666.3	561.3	40.8	561.4	0.00	0.00	0.00
11,300.0	89.92	359.80	10,666.5	661.3	40.4	661.4	0.00	0.00	0.00
11,400.0	89.92	359.80	10,666.6	761.3	40.0	761.4	0.00	0.00	0.00
11,500.0	89.92	359.80	10,666.8	861.3	39.7	861.4	0.00	0.00	0.00
11,600.0	89.92	359.80	10,666.9	961.3	39.3	961.4	0.00	0.00	0.00
11,700.0	89.92	359.80	10,667.0	1,061.3	39.0	1,061.4	0.00	0.00	0.00
11,800.0	89.92	359.80	10,667.2	1,161.3	38.6	1,161.4	0.00	0.00	0.00
11,900.0	89.92	359.80	10,667.3	1,261.3	38.3	1,261.4	0.00	0.00	0.00
12,000.0	89.92	359.80	10,667.4	1,361.3	37.9	1,361.4	0.00	0.00	0.00
12,100.0	89.92	359.80	10,667.6	1,461.3	37.6	1,461.4	0.00	0.00	0.00
12,200.0	89.92	359.80	10,667.7	1,561.3	37.2	1,561.4	0.00	0.00	0.00
12,300.0	89.92	359.80	10,667.8	1,661.3	36.9	1,661.4	0.00	0.00	0.00
12,400.0	89.92	359.80	10,668.0	1,761.3	36.5	1,761.4	0.00	0.00	0.00
12,500.0	89.92	359.80	10,668.1	1,861.3	36.2	1,861.4	0.00	0.00	0.00
12,600.0	89.92	359.80	10,668.3	1,961.3	35.8	1,961.4	0.00	0.00	0.00
12,700.0	89.92	359.80	10,668.4	2,061.3	35.5	2,061.4	0.00	0.00	0.00
12,800.0	89.92	359.80	10,668.5	2,161.3	35.1	2,161.4	0.00	0.00	0.00
12,900.0	89.92	359.80	10,668.7	2,261.3	34.7	2,261.4	0.00	0.00	0.00
13,000.0	89.92	359.80	10,668.8	2,361.3	34.4	2,361.4	0.00	0.00	0.00
13,100.0	89.92	359.80	10,668.9	2,461.3	34.0	2,461.4	0.00	0.00	0.00
13,200.0	89.92	359.80	10,669.1	2,561.3	33.7	2,561.4	0.00	0.00	0.00
13,300.0	89.92	359.80	10,669.2	2,661.3	33.3	2,661.4	0.00	0.00	0.00
13,400.0	89.92	359.80	10,669.3	2,761.3	33.0	2,761.4	0.00	0.00	0.00
13,500.0	89.92	359.80	10,669.5	2,861.3	32.6	2,861.4	0.00	0.00	0.00
13,600.0	89.92	359.80	10,669.6	2,961.3	32.3	2,961.3	0.00	0.00	0.00
13,700.0	89.92	359.80	10,669.8	3,061.3	31.9	3,061.3	0.00	0.00	0.00
13,800.0	89.92	359.80	10,669.9	3,161.3	31.6	3,161.3	0.00	0.00	0.00
13,900.0	89.92	359.80	10,670.0	3,261.3	31.2	3,261.3	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	89.92	359.80	10,670.2	3,361.3	30.9	3,361.3	0.00	0.00	0.00
14,100.0	89.92	359.80	10,670.3	3,461.3	30.5	3,461.3	0.00	0.00	0.00
14,200.0	89.92	359.80	10,670.4	3,561.3	30.2	3,561.3	0.00	0.00	0.00
14,300.0	89.92	359.80	10,670.6	3,661.3	29.8	3,661.3	0.00	0.00	0.00
14,400.0	89.92	359.80	10,670.7	3,761.3	29.4	3,761.3	0.00	0.00	0.00
14,500.0	89.92	359.80	10,670.8	3,861.3	29.1	3,861.3	0.00	0.00	0.00
14,600.0	89.92	359.80	10,671.0	3,961.3	28.7	3,961.3	0.00	0.00	0.00
14,700.0	89.92	359.80	10,671.1	4,061.3	28.4	4,061.3	0.00	0.00	0.00
14,800.0	89.92	359.80	10,671.3	4,161.3	28.0	4,161.3	0.00	0.00	0.00
14,900.0	89.92	359.80	10,671.4	4,261.3	27.7	4,261.3	0.00	0.00	0.00
15,000.0	89.92	359.80	10,671.5	4,361.3	27.3	4,361.3	0.00	0.00	0.00
15,100.0	89.92	359.80	10,671.7	4,461.3	27.0	4,461.3	0.00	0.00	0.00
15,200.0	89.92	359.80	10,671.8	4,561.3	26.6	4,561.3	0.00	0.00	0.00
15,300.0	89.92	359.80	10,671.9	4,661.3	26.3	4,661.3	0.00	0.00	0.00
15,400.0	89.92	359.80	10,672.1	4,761.3	25.9	4,761.3	0.00	0.00	0.00
15,500.0	89.92	359.80	10,672.2	4,861.3	25.6	4,861.3	0.00	0.00	0.00
15,600.0	89.92	359.80	10,672.3	4,961.3	25.2	4,961.3	0.00	0.00	0.00
15,700.0	89.92	359.80	10,672.5	5,061.3	24.9	5,061.3	0.00	0.00	0.00
15,800.0	89.92	359.80	10,672.6	5,161.3	24.5	5,161.3	0.00	0.00	0.00
15,900.0	89.92	359.80	10,672.8	5,261.3	24.1	5,261.3	0.00	0.00	0.00
16,000.0	89.92	359.80	10,672.9	5,361.3	23.8	5,361.3	0.00	0.00	0.00
16,100.0	89.92	359.80	10,673.0	5,461.3	23.4	5,461.3	0.00	0.00	0.00
16,200.0	89.92	359.80	10,673.2	5,561.3	23.1	5,561.3	0.00	0.00	0.00
16,300.0	89.92	359.80	10,673.3	5,661.3	22.7	5,661.3	0.00	0.00	0.00
16,400.0	89.92	359.80	10,673.4	5,761.3	22.4	5,761.3	0.00	0.00	0.00
16,500.0	89.92	359.80	10,673.6	5,861.3	22.0	5,861.3	0.00	0.00	0.00
16,600.0	89.92	359.80	10,673.7	5,961.3	21.7	5,961.3	0.00	0.00	0.00
16,700.0	89.92	359.80	10,673.8	6,061.3	21.3	6,061.3	0.00	0.00	0.00
16,800.0	89.92	359.80	10,674.0	6,161.3	21.0	6,161.3	0.00	0.00	0.00
16,900.0	89.92	359.80	10,674.1	6,261.3	20.6	6,261.3	0.00	0.00	0.00
17,000.0	89.92	359.80	10,674.3	6,361.3	20.3	6,361.3	0.00	0.00	0.00
17,100.0	89.92	359.80	10,674.4	6,461.3	19.9	6,461.3	0.00	0.00	0.00
17,200.0	89.92	359.80	10,674.5	6,561.3	19.6	6,561.3	0.00	0.00	0.00
17,300.0	89.92	359.80	10,674.7	6,661.3	19.2	6,661.3	0.00	0.00	0.00
17,400.0	89.92	359.80	10,674.8	6,761.3	18.9	6,761.3	0.00	0.00	0.00
17,500.0	89.92	359.80	10,674.9	6,861.3	18.5	6,861.3	0.00	0.00	0.00
17,600.0	89.92	359.80	10,675.1	6,961.3	18.1	6,961.3	0.00	0.00	0.00
17,700.0	89.92	359.80	10,675.2	7,061.3	17.8	7,061.3	0.00	0.00	0.00
17,800.0	89.92	359.80	10,675.3	7,161.3	17.4	7,161.3	0.00	0.00	0.00
17,900.0	89.92	359.80	10,675.5	7,261.3	17.1	7,261.3	0.00	0.00	0.00
18,000.0	89.92	359.80	10,675.6	7,361.3	16.7	7,361.3	0.00	0.00	0.00
18,100.0	89.92	359.80	10,675.8	7,461.3	16.4	7,461.3	0.00	0.00	0.00
18,200.0	89.92	359.80	10,675.9	7,561.3	16.0	7,561.3	0.00	0.00	0.00
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	7,594.0	0.00	0.00	0.00
START HOLD @ 18232.8 MD									
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	7,644.0	0.00	0.00	0.00
TD @ 18282.8 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Wellbore Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VT (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,188.5	-169.5	60.0	451,365.36	698,381.60	32° 14' 21.449 N	103° 41' 30.176 W
FTP (GIN AND TECTONIC) - plan misses target center by 163.9usft at 10600.0usft MD (10545.8 TVD, -8.9 N, 54.3 E) - Circle (radius 50.0)	0.00	0.00	10,666.0	-119.6	41.3	451,415.30	698,362.90	32° 14' 21.945 N	103° 41' 30.391 W
*LTP (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,675.9	7,594.0	15.9	459,128.93	698,337.50	32° 15' 38.278 N	103° 41' 30.149 W
*PBHL (GIN AND TECTONIC) - plan hits target center - Rectangle (sides W100.0 H7,766.6 D20.0)	0.08	359.80	10,676.0	7,644.0	15.7	459,178.93	698,337.29	32° 15' 38.773 N	103° 41' 30.149 W

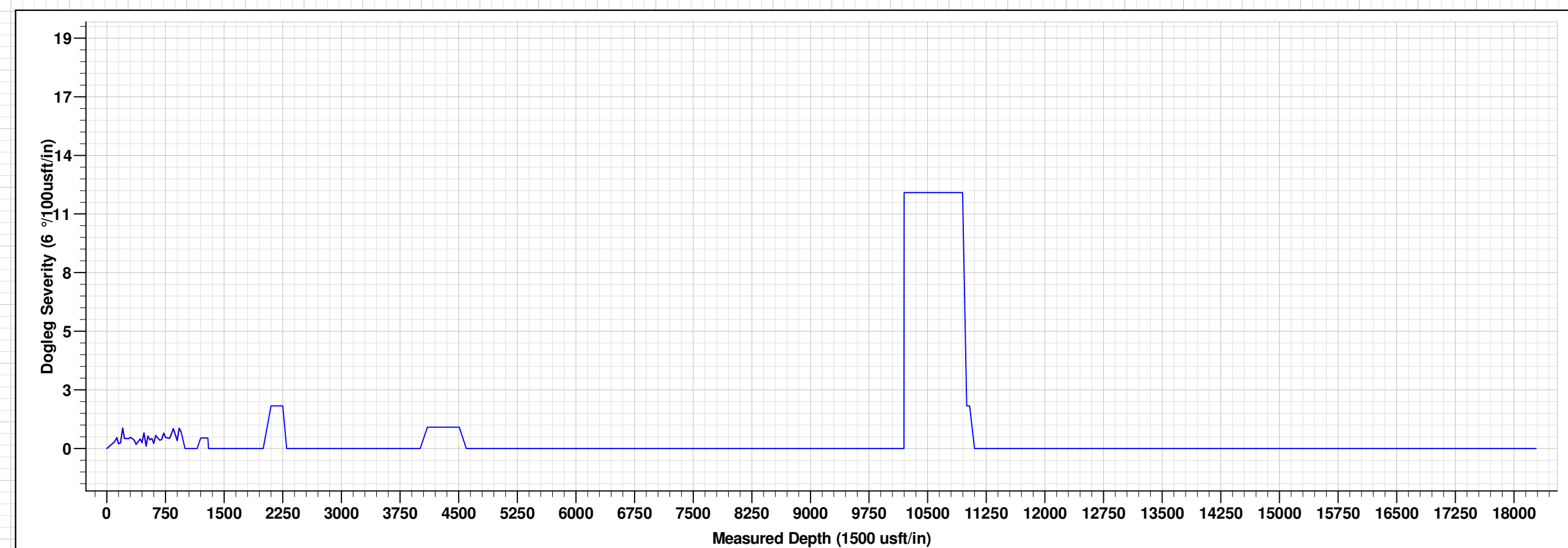
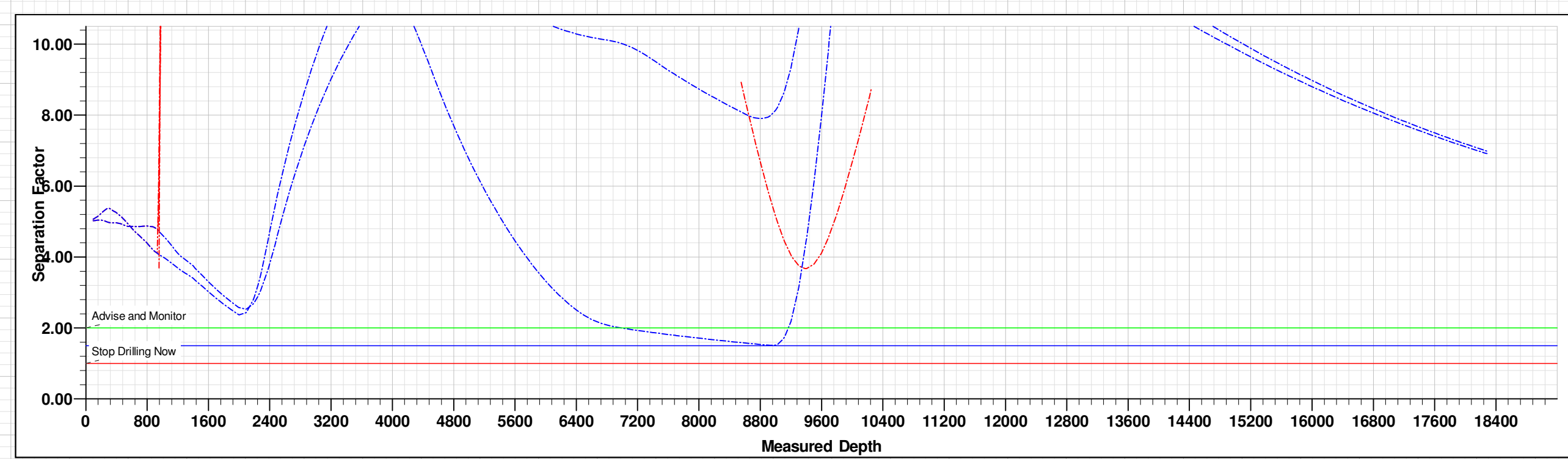
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
950.0	949.9	2.0	-11.1	TIE INTO GYRO SURVEYS
1,054.0	1,053.9	1.6	-12.3	SURFACE CP
1,154.0	1,153.9	1.2	-13.5	RETURN TO VERTICAL
1,294.0	1,293.9	0.9	-14.3	START HOLD @ 1294.0 MD
2,000.1	2,000.0	0.9	-14.3	START BUILD 2.00
2,250.1	2,249.7	-9.1	-9.9	START HOLD @ 2250.1 MD
4,007.7	4,000.6	-149.5	51.3	START DROP -1.00
4,507.8	4,500.0	-169.5	60.0	START HOLD @ 4507.8 MD
10,196.3	10,188.5	-169.5	60.0	START BUILD 12.00
10,945.7	10,666.0	307.0	43.1	START DLS 2.00 TFO 90.00
11,037.0	10,666.1	398.3	41.3	START HOLD @ 11037.0 MD
18,232.8	10,675.9	7,594.0	15.9	START HOLD @ 18232.8 MD
18,282.8	10,676.0	7,644.0	15.7	TD @ 18282.8 MD



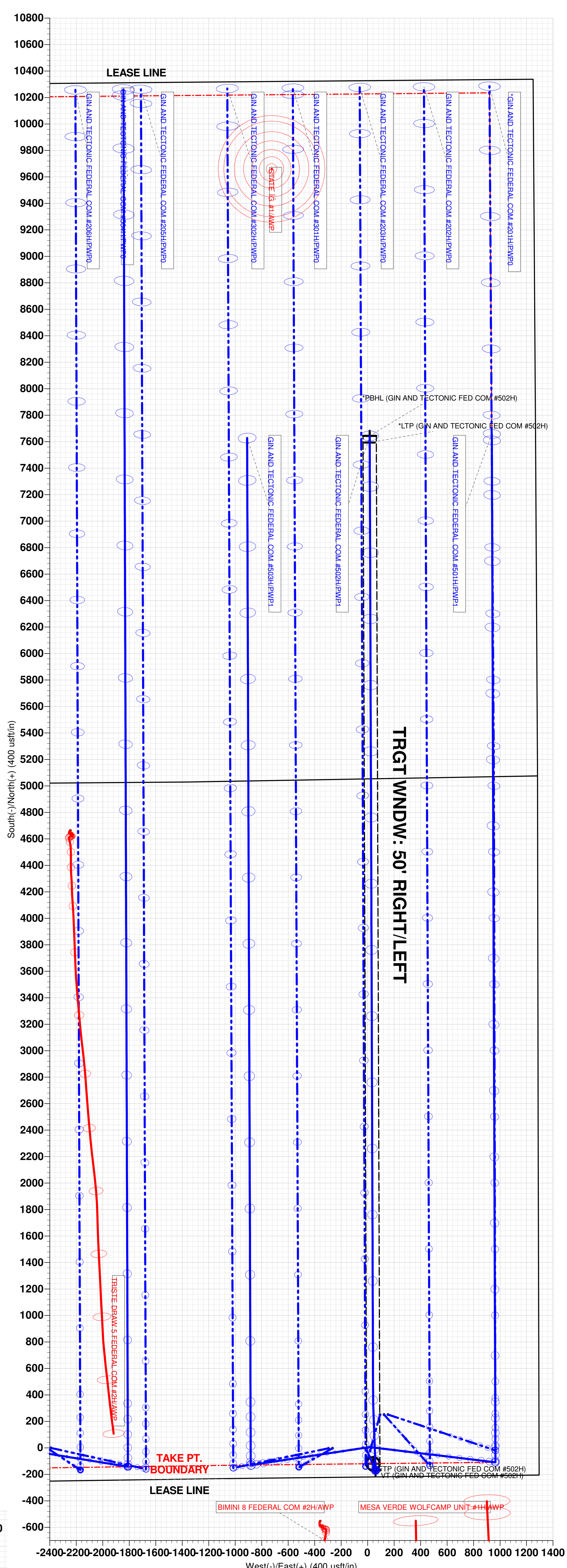
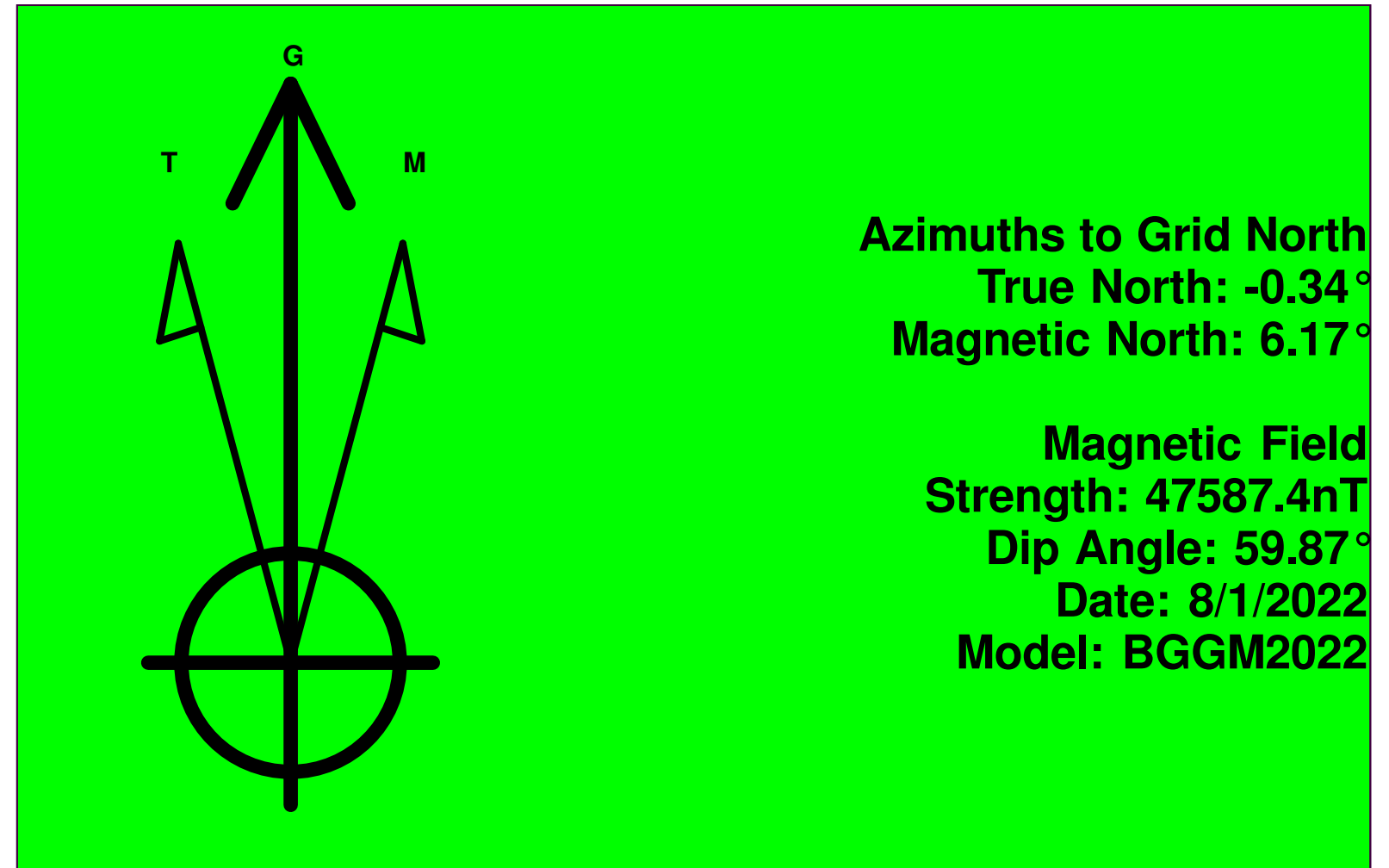
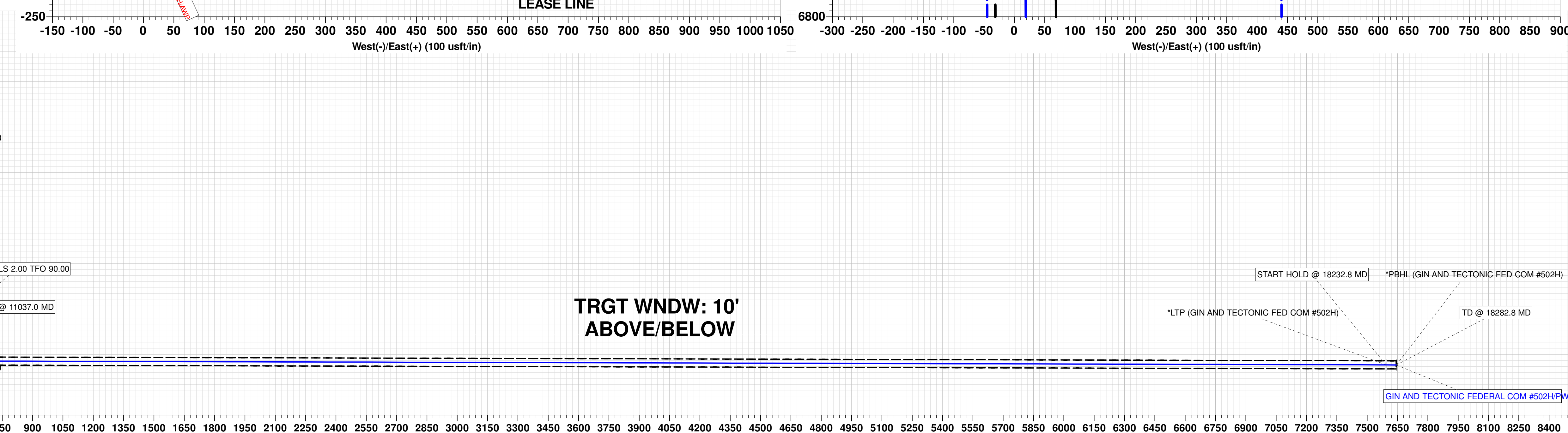
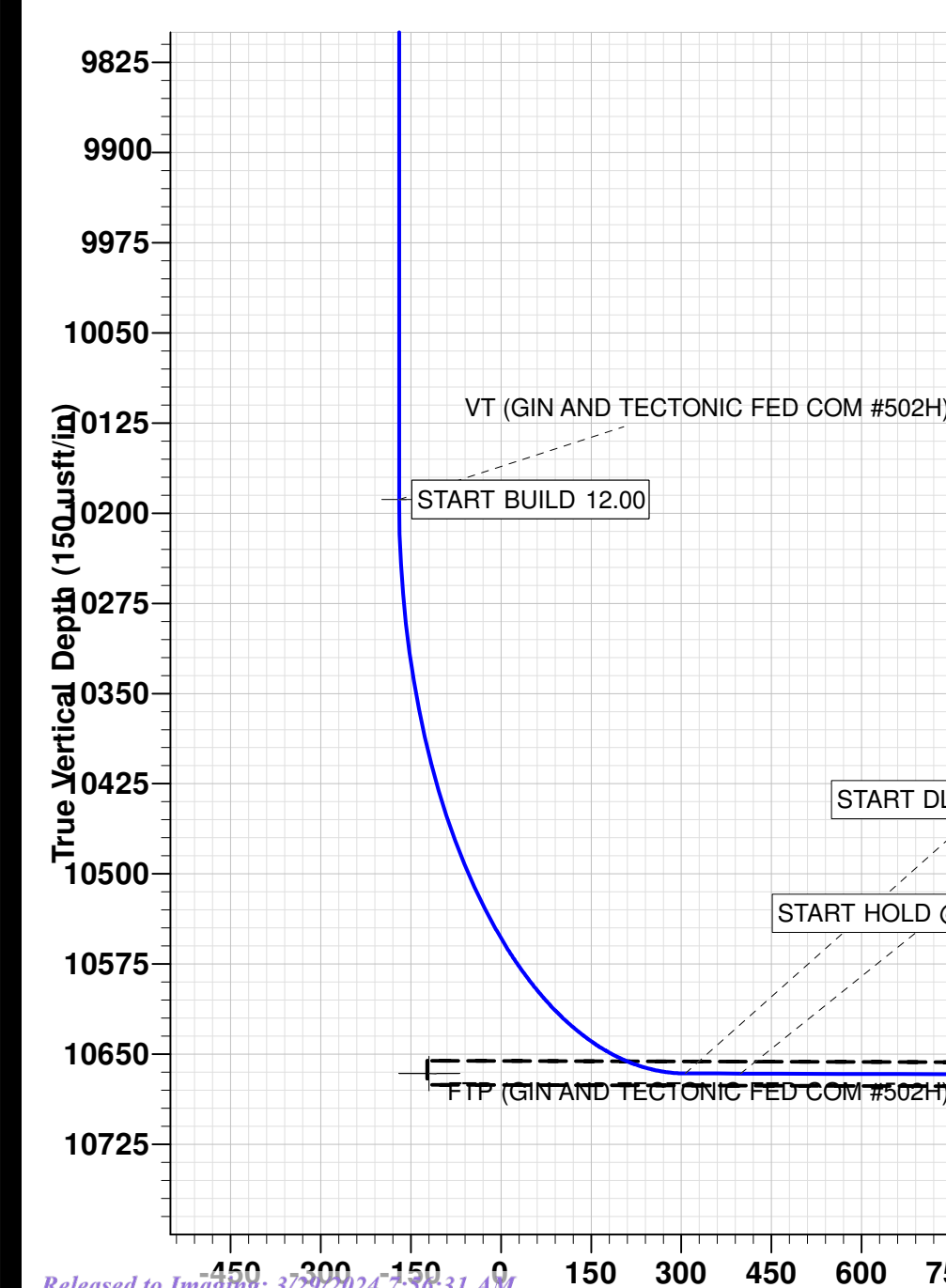
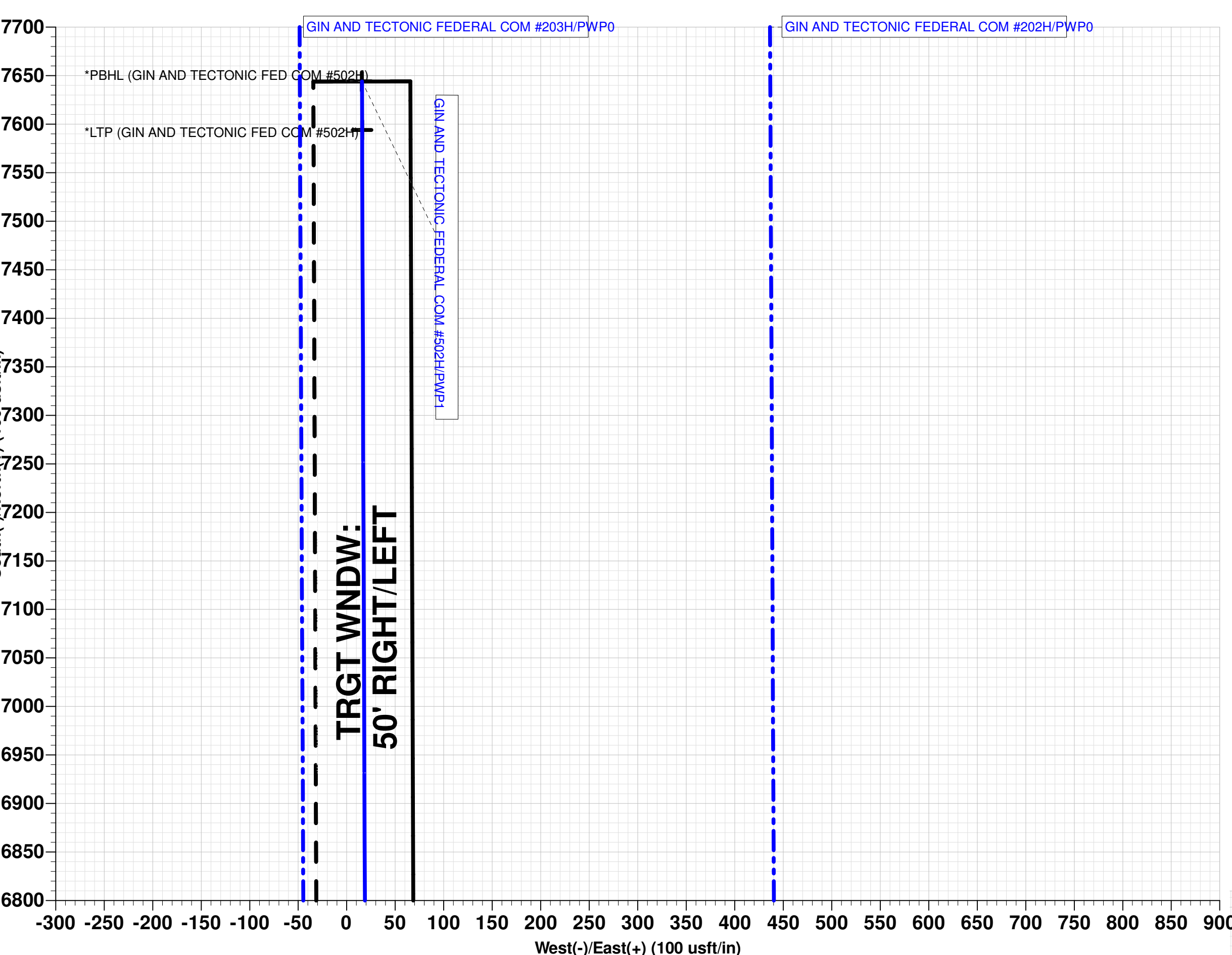
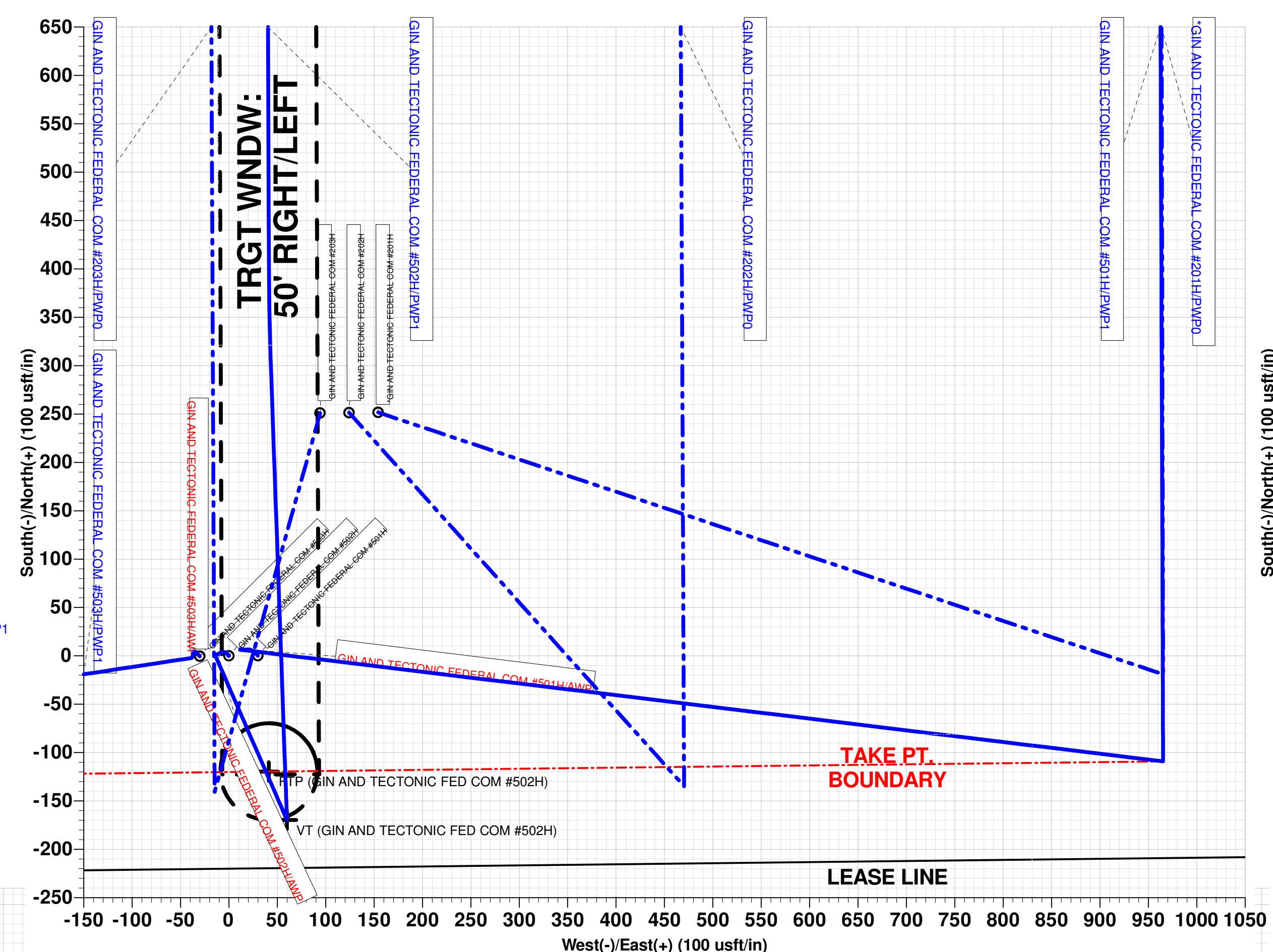
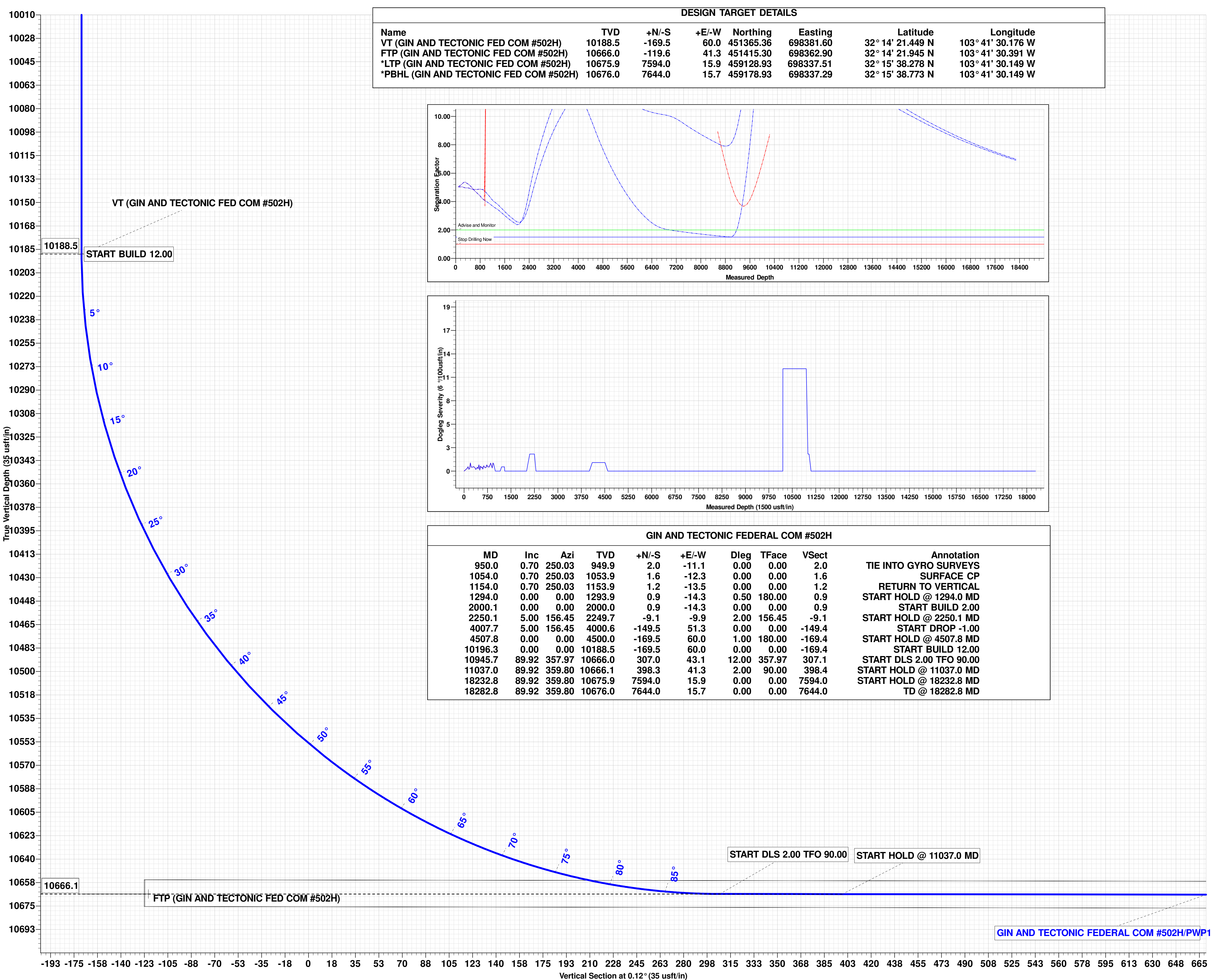
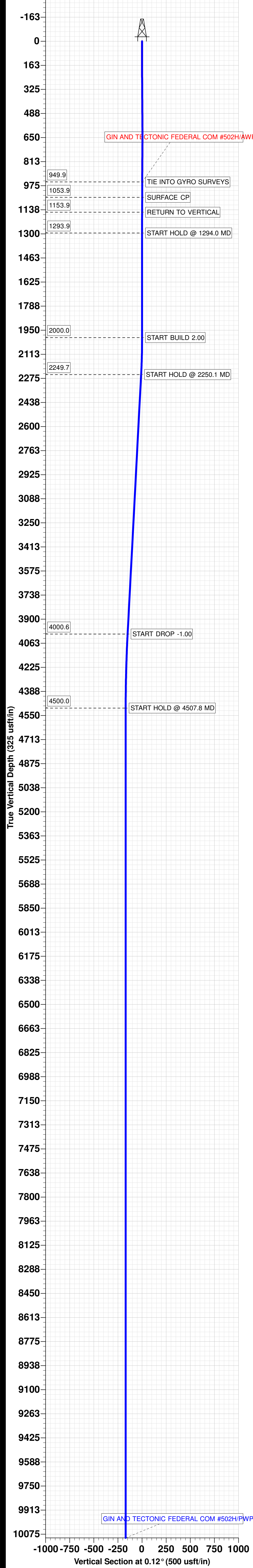
Project: BULLDOG PROSPECT (NM-E)
Site: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)
Well: GIN AND TECTONIC FEDERAL COM #502H
Wellbore: OWB
Design: PWP1
GL: 3640.8
RKB 31ft + GL 3640.8ft @ 3671.8usft

WELL DETAILS: GIN AND TECTONIC FEDERAL COM #502H				
+N-S	+E-W	North	Easting	Latitude
0.0	0.0	451534.90	698321.60	32° 14' 23.131 N
				103° 41' 30.863 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	North	Easting	Latitude
VT (GIN AND TECTONIC FED COM #502H)	10188.5	-169.5	60.0	451365.36	698381.60	32° 14' 21.449 N
FTP (GIN AND TECTONIC FED COM #502H)	10666.0	-119.6	41.3	451415.30	698362.90	32° 14' 21.945 N
*LTP (GIN AND TECTONIC FED COM #502H)	10675.9	7594.0	15.9	459128.93	698337.51	32° 15' 38.278 N
*PBHL (GIN AND TECTONIC FED COM #502H)	10676.0	7644.0	15.7	459178.93	698337.29	32° 15' 38.773 N



GIN AND TECTONIC FEDERAL COM #502H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Annotation
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	2.0	TIE INTO GYRO SURVEYS
1054.0	0.70	250.03	1053.9	1.6	-12.3	0.00	0.00	1.6	SURFACE CP
1154.0	0.70	250.03	1153.9	1.2	-13.5	0.00	0.00	1.2	RETURN TO VERTICAL
1294.0	0.00	0.00	1293.9	0.9	-14.3	0.50	180.00	0.9	START HOLD @ 1294.0 MD
2000.1	0.00	0.00	2000.0	0.9	-14.3	0.00	0.00	0.9	START BUILD 2.00
2250.1	5.00	156.45	2249.7	-9.1	-9.9	2.00	156.45	-9.1	START HOLD @ 2250.1 MD
4007.7	5.00	156.45	4006.6	-149.5	51.3	0.00	0.00	-149.4	START DROP -1.00
4507.8	0.00	0.00	4500.0	-169.5	60.0	1.00	180.00	-169.4	START HOLD @ 4507.8 MD
10196.3	0.00	0.00	10188.5	-169.5	60.0	0.00	0.00	-169.4	START BUILD 12.00
10945.7	89.92	357.97	10666.0	307.0	43.1	12.00	357.97	307.1	START DLS 2.00 TFO 90.00
11037.0	89.92	359.80	10666.1	398.3	41.3	2.00	90.00	398.4	START HOLD @ 11037.0 MD
18232.8	89.92	359.80	10675.9	7594.0	15.9	0.00	0.00	7594.0	START HOLD @ 18232.8 MD
18282.8	89.92	359.80	10676.0	7644.0	15.7	0.00	0.00	7644.0	TD @ 18282.8 MD



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 30-025-48429	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3640.8'

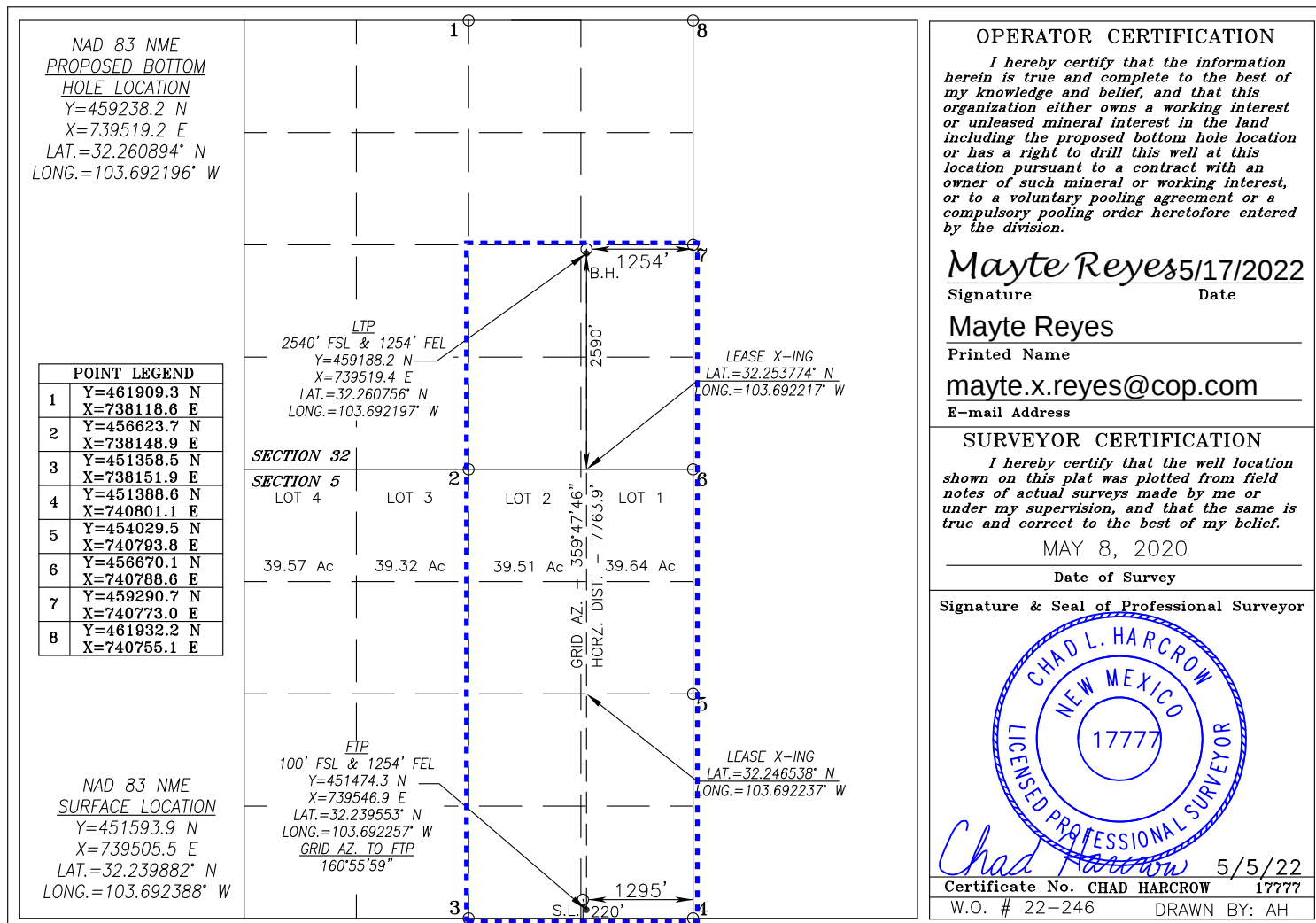
Surface Location

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	1295	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	1254	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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Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3640.8'

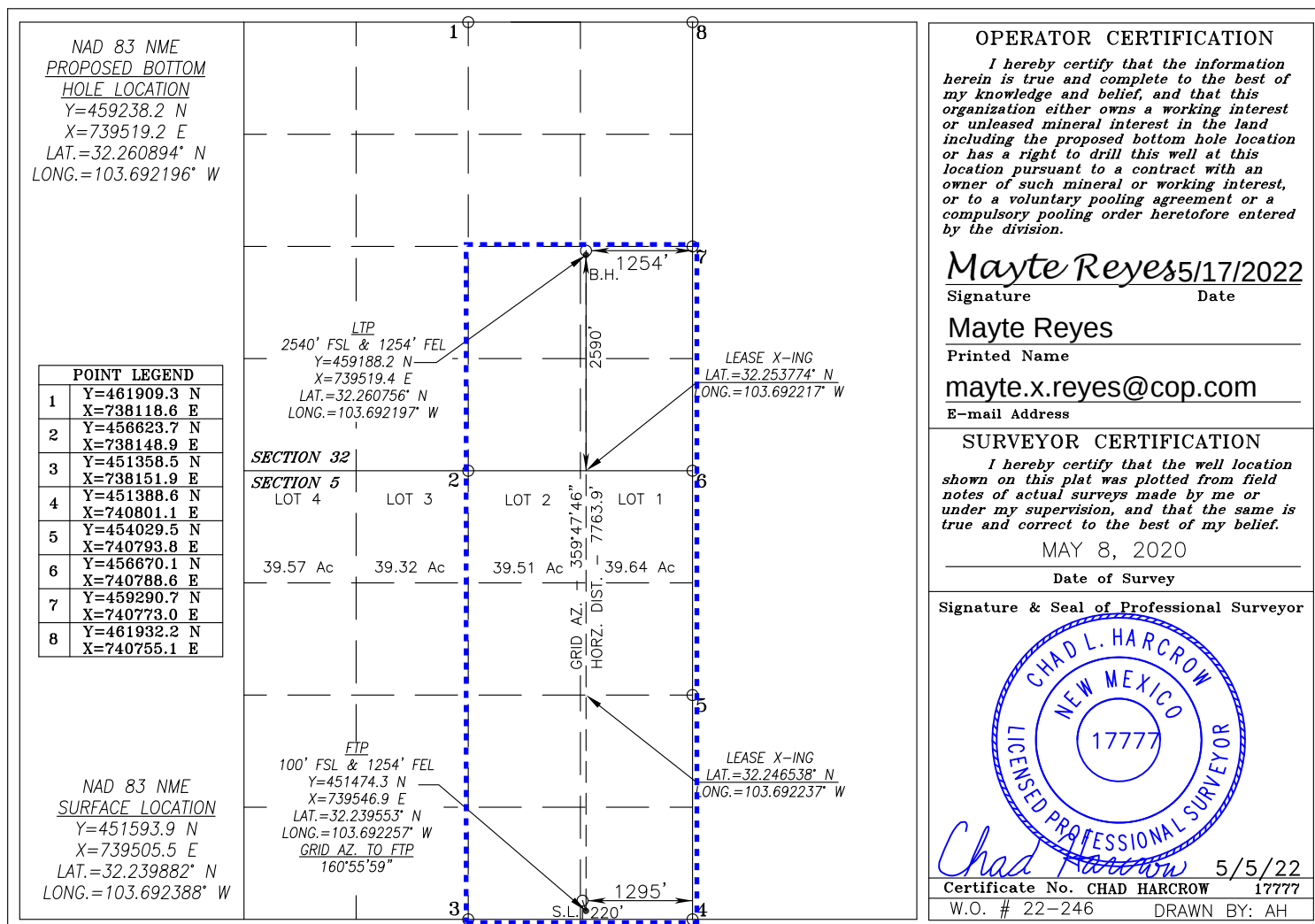
Surface Location

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	1295	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	1254	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 / -103.692388	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842900S1	Well Status: Producing Oil Well	Operator: COG OPERATING LLC

Notice of Intent

Sundry ID: 2690742

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/06/2022

Time Sundry Submitted: 09:34

Date proposed operation will begin: 09/06/2022

Procedure Description: COG Operating LLC respectfully requests approval for the following changes to the original approved APD. BHL Change From: 50' FNL & 1254' FEL Section 32. T23S. R32E. To: 2590' FSL & 1254' FEL Section 32.T23S. R32E Dedicated Acres From: 639.13 To: 479.13 MD: 18,282' Attached: C102. Directional Plan. AC Report.

NOI Attachments

Procedure Description

- GIN_AND_TECTONIC_FED_COM_502H_AC_RPT_20220906093311.pdf
- GIN_AND_TECTONIC_FED_COM_502H_Updated_Direct_Plan_20220906093258.pdf
- GIN_AND_TECTONIC_FED_COM_502H_C102_Nad83_20220906092947.pdf

Received by OCD: 3/26/2024 2:57:55 PM

Page 78 of 168

Well Name: GIN AND TECTONIC FEDERAL COM	Well Location: T24S / R32E / SEC 5 / SESE / 32.239882 / -103.692388	County or Parish/State: LEA / NM
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120906	Unit or CA Name:	Unit or CA Number:
US Well Number: 300254842900S1	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: SEP 06, 2022 09:33 AM

Name: COG OPERATING LLC

Title: Regulatory Analyst

Street Address: 925 N ELDRIDGE PARKWAY

City: HOUSTONState: TX

Phone: (281) 293-1000

Email address: MAYTE.X.REYES@CONOCOPHILLIPS.COM

Field

Representative Name: Gerald Herrera

Street Address: 2208 West Main Street

City: ArtesiaState: NMZip: 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
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. NMNM120906

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
COG OPERATING LLC

3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code)
(432) 683-7443

4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)
SEC 5/T24S/R32E/NMP

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. GIN AND TECTONIC FEDERAL CO

9. API Well No. 3002548429

10. Field and Pool or Exploratory Area
MESA VERDE/BONE SPRING

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 & 1254' FEL Section 32. T23S. R32E.

To: 2590' FSL & 1254' FEL Section 32.T23S. R32E

Dedicated Acres From: 639.13 To: 479.13

MD: 18,282'

Attached: C102. Directional Plan. AC Report.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
MAYTE REYES / Ph: (281) 293-1000

(Electronic Submission)
Signature

Title
Regulatory Analyst

Date
09/06/2022

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by
CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved

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.

Title
Petroleum Engineer

Office
CARLSBAD

Date
09/09/2022

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.

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 / 1295 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239882 / LONG: -103.692388 (TVD: 0 feet, MD: 0 feet)

PPP: SESE / 100 FSL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.239553 / LONG: -103.692257 (TVD: 10521 feet, MD: 10580 feet)

PPP: SENE / 2639 FNL / 1254 FEL / TWSP: 24S / RANGE: 32E / SECTION: 5 / LAT: 32.246538 / LONG: -103.692244 (TVD: 10667 feet, MD: 13150 feet)

BHL: NENE / 50 FNL / 1254 FEL / TWSP: 23S / RANGE: 32E / SECTION: 32 / LAT: 32.268132 / LONG: -103.692203 (TVD: 10675 feet, MD: 20870 feet)

CONFIDENTIAL

DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

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

GIN AND TECTONIC FEDERAL COM #502H

300254842900

OWB

PWP1

Anticollision Report

28 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
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	7/27/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1.0	950.0	GYRO-SURF (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
950.0	10,196.3	PWP1 (OWB)	MWD+IFR1	OWSG MWD + IFR1
10,196.3	18,282.8	PWP1 (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						
DOUBLE ABJ FED COM PROJECT						
MESA VERDE BONE SPRING UNIT #1H - OWB - AWP	9,383.8	19,366.0	486.9	354.4	3.675	CC, ES, SF
MESA VERDE BONE SPRING UNIT #24H - OWB - AWP						Out of range
MESA VERDE WOLFCAMP UNIT #1H - OWB - AWP						Out of range
MESA VERDE WOLFCAMP UNIT #4H - OWB - AWP						Out of range
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	457.5	454.3	294.1	288.1	48.625	CC, ES
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	9,120.0	9,131.2	921.5	866.4	16.720	SF
BIMINI 8 FEDERAL COM #2H - OWB - AWP	6,766.6	6,756.9	581.8	536.2	12.750	CC
BIMINI 8 FEDERAL COM #2H - OWB - AWP	7,505.0	7,491.3	583.8	533.0	11.498	ES
BIMINI 8 FEDERAL COM #2H - OWB - AWP	8,000.0	7,984.8	588.5	534.4	10.868	SF
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	469.1	463.5	279.0	272.9	46.068	CC, ES
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	8,800.0	8,802.7	413.2	361.0	7.907	SF
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	8,932.5	8,936.3	80.2	27.1	1.510	Advise and Monitor, CC, ES,
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	2,000.1	1,993.1	250.8	242.4	29.992	CC, ES
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	8,835.0	8,817.5	581.7	529.1	11.063	SF
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	2,000.1	1,992.5	280.8	272.4	33.582	CC, ES
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	6,935.0	6,829.4	995.9	955.4	24.604	SF
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	548.3	550.9	29.6	23.5	4.867	CC
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	551.0	553.6	29.6	23.5	4.867	ES
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	939.5	942.0	29.9	23.6	4.759	SF
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	1,995.2	1,997.4	26.5	16.2	2.582	CC
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	2,000.1	2,002.3	26.5	16.2	2.574	ES
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	2,090.0	2,091.4	27.6	16.7	2.531	SF
GIN AND TECTONIC FEDERAL COM #502H - OWB - A	1,294.0	950.0	344.0	341.3	126.114	CC, ES, SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - A	931.4	930.0	25.8	19.5	4.105	CC, ES, SF
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	1,262.6	1,261.5	24.2	17.4	3.591	CC
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	2,000.1	1,999.1	24.2	14.0	2.369	ES, SF
GIN AND TECTONIC FEDERAL COM #504H - OWB - P						Out of range
STATE IG #1 - OWB - AWP						Out of range

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
Offset Well - Wellbore - Design						
TRISTE DRAW 5 FEDERAL COM #2H - OWB - AWP						Out of range
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL COM 310H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 312H - OWB - PWP0						Out of range
MASTIFF FEDERAL COM 406H - OWB - PWP0						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
DOUBLE ABJ FED COM PROJECT						
MESA VERDE BONE SPRING UNIT #1H - OWB - AWP	18,282.8	19,366.0				Out of Range @TD
MESA VERDE BONE SPRING UNIT #24H - OWB - AWP	18,282.8	20,812.0				Out of Range @TD
MESA VERDE WOLFCAMP UNIT #1H - OWB - AWP	18,282.8	22,281.0				Out of Range @TD
MESA VERDE WOLFCAMP UNIT #4H - OWB - AWP	18,282.8	22,563.0				Out of Range @TD
GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)						
*GIN AND TECTONIC FEDERAL COM #201H - OWB - P	18,282.8	16,948.5				Out of Range @TD
BIMINI 8 FEDERAL COM #2H - OWB - AWP	18,282.8	8,137.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #202H - OWB - P	18,282.8	16,742.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #203H - OWB - P	18,282.8	17,016.5				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #205H - OWB - P	18,282.8	16,782.4				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #206H - OWB - P	18,282.8	17,031.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #301H - OWB - P	18,282.8	16,732.6				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #302H - OWB - P	18,282.8	17,055.6				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #501H - OWB - A	18,282.8	942.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #501H - OWB - P	18,282.8	18,149.3	933.9	800.2	6.984	
GIN AND TECTONIC FEDERAL COM #502H - OWB - A	18,282.8	950.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - A	18,282.8	930.0				Out of Range @TD
GIN AND TECTONIC FEDERAL COM #503H - OWB - P	18,282.8	18,120.0	937.8	802.2	6.916	
GIN AND TECTONIC FEDERAL COM #504H - OWB - P	18,282.8	18,222.5				Out of Range @TD
STATE IG #1 - OWB - AWP	18,282.8	10,679.4				Out of Range @TD
TRISTE DRAW 5 FEDERAL COM #2H - OWB - AWP	18,282.8	8,272.0				Out of Range @TD
MASTIFF FEDERAL PROJECT (BULLDOG 2432)						
MASTIFF FEDERAL COM 310H - OWB - PWP0	18,282.8	17,066.5				Out of Range @TD
MASTIFF FEDERAL COM 312H - OWB - PWP0	18,282.8	17,172.7				Out of Range @TD
MASTIFF FEDERAL COM 406H - OWB - PWP0	18,282.8	18,325.9				Out of Range @TD

Offset Design:	DOUBLE ABJ FED COM PROJECT - MESA VERDE BONE SPRING UNIT #1H - OWB - AWP												Offset Site Error:	0.0 usft
	Survey Program: 27-GYRO-NS, 959-MWD, 7001-GYRO-NS, 7465-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		(usft)	(usft)	(usft)		
8,550.0	8,542.2	19,366.0	9,294.4	27.8	168.9	141.37	-549.9	364.0		965.6	857.4	108.18	8.925	
8,600.0	8,592.2	19,366.0	9,294.4	28.0	168.9	141.37	-549.9	364.0		922.8	813.7	109.08	8.459	
8,645.0	8,637.2	19,366.0	9,294.4	28.2	168.9	141.37	-549.9	364.0		884.8	774.9	109.96	8.047	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: DOUBLE ABJ FED COM PROJECT - MESA VERDE BONE SPRING UNIT #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 27-GYRO-NS, 959-MWD, 7001-GYRO-NS, 7465-MWD											Offset Well Error:	3.0 usft
Rule Assigned:											Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
8,700.0	8,692.2	19,366.0	9,294.4	28.3	168.9	141.37	-549.9	364.0	839.5	728.3	111.16	7.552
8,740.0	8,732.2	19,366.0	9,294.4	28.5	168.9	141.37	-549.9	364.0	807.2	695.1	112.11	7.200
8,800.0	8,792.2	19,366.0	9,294.4	28.7	168.9	141.37	-549.9	364.0	760.2	646.5	113.69	6.687
8,835.0	8,827.2	19,366.0	9,294.4	28.8	168.9	141.37	-549.9	364.0	733.7	619.0	114.70	6.396
8,900.0	8,892.2	19,366.0	9,294.4	29.1	168.9	141.37	-549.9	364.0	686.4	569.7	116.76	5.879
8,930.0	8,922.2	19,366.0	9,294.4	29.2	168.9	141.37	-549.9	364.0	665.6	547.8	117.79	5.651
9,000.0	8,992.2	19,366.0	9,294.4	29.4	168.9	141.37	-549.9	364.0	620.0	499.6	120.36	5.151
9,025.0	9,017.2	19,366.0	9,294.4	29.5	168.9	141.37	-549.9	364.0	604.8	483.5	121.34	4.985
9,100.0	9,092.2	19,366.0	9,294.4	29.8	168.9	141.37	-549.9	364.0	563.6	439.2	124.36	4.532
9,120.0	9,112.2	19,366.0	9,294.4	29.8	168.9	141.37	-549.9	364.0	553.8	428.6	125.17	4.424
9,200.0	9,192.2	19,366.0	9,294.4	30.1	168.9	141.37	-549.9	364.0	520.5	392.2	128.27	4.057
9,215.0	9,207.2	19,366.0	9,294.4	30.2	168.9	141.37	-549.9	364.0	515.3	386.5	128.81	4.001
9,300.0	9,292.2	19,366.0	9,294.4	30.5	168.9	141.37	-549.9	364.0	494.1	362.8	131.29	3.763
9,310.0	9,302.2	19,366.0	9,294.4	30.5	168.9	141.37	-549.9	364.0	492.5	361.0	131.51	3.745
9,383.8	9,376.1	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	486.9	354.4	132.48	3.675 CC, ES, SF
9,400.0	9,392.2	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	487.2	354.6	132.54	3.676
9,405.0	9,397.2	19,366.0	9,294.4	30.8	168.9	141.37	-549.9	364.0	487.4	354.8	132.55	3.677
9,500.0	9,492.2	19,366.0	9,294.4	31.2	168.9	141.37	-549.9	364.0	500.6	368.9	131.69	3.801
9,595.0	9,587.2	19,366.0	9,294.4	31.5	168.9	141.37	-549.9	364.0	530.7	401.3	129.38	4.102
9,600.0	9,592.2	19,366.0	9,294.4	31.5	168.9	141.37	-549.9	364.0	532.7	403.5	129.23	4.122
9,690.0	9,682.2	19,366.0	9,294.4	31.8	168.9	141.37	-549.9	364.0	575.2	448.8	126.37	4.552
9,700.0	9,692.2	19,366.0	9,294.4	31.9	168.9	141.37	-549.9	364.0	580.6	454.5	126.04	4.606
9,785.0	9,777.2	19,366.0	9,294.4	32.2	168.9	141.37	-549.9	364.0	630.9	507.6	123.31	5.116
9,800.0	9,792.2	19,366.0	9,294.4	32.2	168.9	141.37	-549.9	364.0	640.5	517.7	122.84	5.214
9,880.0	9,872.2	19,366.0	9,294.4	32.5	168.9	141.37	-549.9	364.0	695.2	574.6	120.55	5.766
9,900.0	9,892.2	19,366.0	9,294.4	32.6	168.9	141.37	-549.9	364.0	709.6	589.6	120.03	5.912
9,975.0	9,967.2	19,366.0	9,294.4	32.8	168.9	141.37	-549.9	364.0	765.9	647.6	118.25	6.477
10,000.0	9,992.2	19,366.0	9,294.4	32.9	168.9	141.37	-549.9	364.0	785.3	667.6	117.72	6.671
10,070.0	10,062.2	19,366.0	9,294.4	33.2	168.9	141.37	-549.9	364.0	841.4	725.0	116.38	7.229
10,100.0	10,092.2	19,366.0	9,294.4	33.3	168.9	141.37	-549.9	364.0	866.0	750.1	115.88	7.473
10,165.0	10,157.2	19,366.0	9,294.4	33.4	168.9	141.37	-549.9	364.0	920.5	805.6	114.90	8.011
10,196.3	10,188.5	19,366.0	9,294.4	33.4	168.9	141.37	-549.9	364.0	947.2	832.7	114.49	8.273
10,200.0	10,192.2	19,366.0	9,294.4	33.4	168.9	142.95	-549.9	364.0	950.4	835.9	114.44	8.305
10,225.0	10,217.2	19,366.0	9,294.4	33.5	168.9	139.55	-549.9	364.0	972.3	858.2	114.09	8.522
10,250.0	10,242.1	19,366.0	9,294.4	33.5	168.9	135.38	-549.9	364.0	994.7	881.0	113.75	8.745

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0													Offset Site Error: 3.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	31.51	251.7	154.3	295.2					
1.0	1.0	0.0	0.0	3.0	3.0	31.51	251.7	154.3	295.2					
35.7	35.7	32.5	32.5	3.0	3.0	78.48	251.7	154.3	295.2	289.2	6.00	49.204		
95.0	95.0	91.8	91.8	3.0	3.0	78.52	251.7	154.3	295.2	289.2	6.00	49.194		
101.0	101.0	97.8	97.8	3.0	3.0	78.52	251.7	154.3	295.2	289.2	6.00	49.193		
117.2	117.2	114.0	114.0	3.0	3.0	90.00	251.7	154.3	295.2	289.2	6.00	49.188		
126.0	126.0	122.8	122.8	3.0	3.0	94.93	251.7	154.3	295.2	289.2	6.00	49.186		
151.0	151.0	147.8	147.8	3.0	3.0	87.34	251.7	154.3	295.2	289.2	6.00	49.177		
176.0	176.0	172.8	172.8	3.0	3.0	78.07	251.7	154.3	295.2	289.1	6.00	49.161		
190.0	190.0	186.8	186.8	3.0	3.0	70.35	251.7	154.3	295.1	289.1	6.00	49.148		
201.0	201.0	197.8	197.8	3.0	3.0	66.45	251.7	154.3	295.1	289.1	6.01	49.134		
226.0	226.0	222.8	222.8	3.0	3.0	56.60	251.7	154.3	295.0	288.9	6.01	49.094		
251.0	251.0	247.8	247.8	3.0	3.0	51.00	251.7	154.3	294.8	288.8	6.01	49.044		
276.0	276.0	272.8	272.8	3.0	3.0	60.99	251.7	154.3	294.6	288.6	6.01	48.990		
285.0	285.0	281.8	281.8	3.0	3.0	63.70	251.7	154.3	294.6	288.6	6.02	48.971		
301.0	301.0	297.8	297.8	3.0	3.0	67.91	251.7	154.3	294.5	288.5	6.02	48.937		
326.0	326.0	322.8	322.8	3.0	3.0	76.05	251.7	154.3	294.4	288.4	6.02	48.887		
351.0	351.0	347.8	347.8	3.0	3.0	81.90	251.7	154.3	294.3	288.3	6.03	48.840		
376.0	376.0	372.8	372.8	3.0	3.0	83.63	251.7	154.3	294.3	288.3	6.03	48.794		
380.0	380.0	376.8	376.8	3.0	3.0	82.88	251.7	154.3	294.3	288.2	6.03	48.787		
401.0	401.0	397.8	397.8	3.0	3.0	78.81	251.7	154.3	294.2	288.2	6.04	48.744		
426.0	426.0	422.8	422.8	3.0	3.0	83.23	251.7	154.3	294.2	288.1	6.04	48.690		
451.0	451.0	447.8	447.8	3.0	3.0	87.05	251.7	154.3	294.1	288.1	6.05	48.638		
457.5	457.5	454.3	454.3	3.0	3.0	90.00	251.7	154.3	294.1	288.1	6.05	48.625	CC, ES	
475.0	475.0	471.8	471.8	3.0	3.0	97.73	251.7	154.3	294.1	288.1	6.05	48.594		
476.0	476.0	472.8	472.8	3.0	3.0	98.16	251.7	154.3	294.1	288.1	6.05	48.593		
501.0	501.0	497.8	497.8	3.1	3.1	96.60	251.7	154.3	294.2	288.1	6.06	48.551		
526.0	526.0	522.8	522.8	3.1	3.1	100.63	251.7	154.3	294.3	288.2	6.07	48.509		
551.0	551.0	547.8	547.8	3.1	3.1	106.14	251.7	154.3	294.4	288.3	6.07	48.471		
570.0	570.0	566.8	566.8	3.1	3.1	110.95	251.7	154.3	294.5	288.4	6.08	48.446		
576.0	576.0	572.8	572.8	3.1	3.1	112.51	251.7	154.3	294.5	288.4	6.08	48.438		
601.0	601.0	597.8	597.8	3.1	3.1	115.87	251.7	154.3	294.7	288.6	6.09	48.408		
626.0	625.9	622.7	622.7	3.1	3.1	124.26	251.7	154.3	294.9	288.8	6.10	48.380		
651.0	650.9	647.7	647.7	3.1	3.1	120.95	251.7	154.3	295.1	289.0	6.10	48.350		
665.0	664.9	661.7	661.7	3.1	3.1	124.11	251.7	154.3	295.3	289.2	6.11	48.330		
676.0	675.9	672.7	672.7	3.1	3.1	126.46	251.7	154.3	295.4	289.2	6.11	48.316		
701.0	700.9	697.7	697.7	3.1	3.1	132.85	251.7	154.3	295.6	289.5	6.12	48.285		
726.0	725.9	722.7	722.7	3.1	3.1	143.17	251.7	154.3	295.9	289.8	6.13	48.259		
751.0	750.9	747.7	747.7	3.1	3.1	150.61	251.7	154.3	296.3	290.2	6.14	48.237		
760.0	759.9	756.7	756.7	3.1	3.1	148.39	251.7	154.3	296.4	290.3	6.15	48.229		
776.0	775.9	772.7	772.7	3.1	3.1	144.66	251.7	154.3	296.7	290.5	6.15	48.215		
801.0	800.9	797.7	797.7	3.1	3.2	148.72	251.7	154.3	297.1	290.9	6.16	48.192		
826.0	825.9	822.7	822.7	3.1	3.2	157.21	251.7	154.3	297.5	291.4	6.18	48.171		
851.0	850.9	847.7	847.7	3.1	3.2	145.66	251.7	154.3	298.0	291.8	6.19	48.145		
855.0	854.9	851.7	851.7	3.1	3.2	146.92	251.7	154.3	298.0	291.8	6.19	48.140		
876.0	875.9	872.7	872.7	3.2	3.2	153.52	251.7	154.3	298.4	292.2	6.20	48.115		
901.0	900.9	897.7	897.7	3.2	3.2	155.93	251.7	154.3	298.8	292.6	6.22	48.081		
926.0	925.9	922.7	922.7	3.2	3.2	149.32	251.7	154.3	299.2	293.0	6.23	48.033		
950.0	949.9	946.7	946.7	3.2	3.2	143.49	251.7	154.3	299.5	293.3	6.24	47.971		
1,000.0	999.9	996.7	996.7	3.2	3.2	143.56	251.7	154.3	300.0	293.7	6.27	47.849		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
1,045.0	1,044.9	1,041.7	1,041.7	3.2	3.3	143.63	251.7	154.3	300.4	294.1	6.30	47.707	
1,054.0	1,053.9	1,050.7	1,050.7	3.2	3.3	143.64	251.7	154.3	300.5	294.2	6.30	47.678	
1,100.0	1,099.9	1,096.7	1,096.7	3.2	3.3	143.70	251.7	154.3	301.0	294.6	6.34	47.456	
1,140.0	1,139.9	1,136.7	1,136.7	3.3	3.3	143.76	251.7	154.3	301.4	295.0	6.38	47.205	
1,154.0	1,153.9	1,150.7	1,150.7	3.3	3.3	143.78	251.7	154.3	301.5	295.1	6.40	47.113	
1,200.0	1,199.9	1,196.7	1,196.7	3.3	3.4	143.83	251.7	154.3	301.9	295.4	6.46	46.742	
1,235.0	1,234.9	1,231.7	1,231.7	3.3	3.4	143.86	251.7	154.3	302.1	295.6	6.52	46.361	
1,294.0	1,293.9	1,290.7	1,290.7	3.4	3.4	33.90	251.7	154.3	302.2	295.6	6.62	45.653	
1,300.0	1,299.9	1,296.7	1,296.7	3.4	3.4	33.90	251.7	154.3	302.2	295.6	6.63	45.583	
1,330.0	1,329.9	1,326.7	1,326.7	3.5	3.4	33.90	251.7	154.3	302.2	295.5	6.69	45.157	
1,400.0	1,399.9	1,396.7	1,396.7	3.6	3.5	33.90	251.7	154.3	302.2	295.4	6.85	44.147	
1,425.0	1,424.9	1,421.7	1,421.7	3.6	3.5	33.90	251.7	154.3	302.2	295.3	6.92	43.647	
1,500.0	1,499.9	1,496.7	1,496.7	3.8	3.5	33.90	251.7	154.3	302.2	295.0	7.16	42.209	
1,520.0	1,519.9	1,516.7	1,516.7	3.8	3.6	33.90	251.7	154.3	302.2	295.0	7.22	41.840	
1,600.0	1,599.9	1,596.7	1,596.7	4.0	3.6	33.90	251.7	154.3	302.2	294.7	7.49	40.335	
1,615.0	1,614.9	1,611.7	1,611.7	4.1	3.6	33.90	251.7	154.3	302.2	294.7	7.54	40.065	
1,700.0	1,699.9	1,696.7	1,696.7	4.3	3.7	33.90	251.7	154.3	302.2	294.4	7.84	38.545	
1,710.0	1,709.9	1,706.7	1,706.7	4.3	3.7	33.90	251.7	154.3	302.2	294.3	7.88	38.373	
1,800.0	1,799.9	1,796.7	1,796.7	4.6	3.8	33.90	251.7	154.3	302.2	294.0	8.20	36.850	
1,805.0	1,804.9	1,801.7	1,801.7	4.6	3.8	33.90	251.7	154.3	302.2	294.0	8.22	36.769	
1,900.0	1,899.9	1,896.7	1,896.7	4.9	3.9	33.90	251.7	154.3	302.2	293.6	8.57	35.254	
1,995.0	1,994.9	1,991.7	1,991.7	5.2	3.9	33.90	251.7	154.3	302.2	293.3	8.93	33.827	
2,000.1	2,000.0	1,996.8	1,996.8	5.2	3.9	33.90	251.7	154.3	302.2	293.2	8.95	33.753	
2,090.0	2,089.9	2,084.3	2,084.3	5.5	4.0	-122.52	251.3	155.5	303.3	294.1	9.24	32.840	
2,100.0	2,099.9	2,094.0	2,094.0	5.5	4.0	-122.52	251.2	155.8	303.6	294.3	9.26	32.777	
2,185.0	2,184.7	2,176.6	2,176.5	6.0	4.4	-122.40	250.0	159.5	306.9	297.2	9.73	31.548	
2,200.0	2,199.7	2,191.2	2,191.0	6.1	4.5	-122.38	249.7	160.3	307.7	297.9	9.81	31.375	
2,250.1	2,249.7	2,239.8	2,239.5	6.3	4.8	-122.27	248.5	163.8	310.8	300.8	9.99	31.104	
2,280.0	2,279.4	2,268.7	2,268.3	6.3	5.0	-122.21	247.7	166.2	312.9	302.8	10.09	31.012	
2,300.0	2,299.4	2,288.1	2,287.6	6.4	5.1	-122.14	247.1	168.0	314.4	304.2	10.15	30.960	
2,375.0	2,374.1	2,360.6	2,359.7	6.6	5.5	-121.68	244.5	175.8	320.2	309.7	10.43	30.698	
2,400.0	2,399.0	2,384.8	2,383.6	6.7	5.7	-121.46	243.5	178.8	322.2	311.7	10.52	30.623	
2,470.0	2,468.7	2,452.2	2,450.3	6.9	5.9	-120.68	240.4	188.1	328.3	317.5	10.81	30.369	
2,500.0	2,498.6	2,482.0	2,479.7	7.0	5.9	-120.30	238.9	192.5	331.1	320.1	10.94	30.253	
2,565.0	2,563.4	2,546.5	2,543.5	7.2	6.0	-119.48	235.8	202.1	337.0	325.8	11.25	29.970	
2,600.0	2,598.2	2,581.3	2,577.8	7.3	6.0	-119.05	234.0	207.2	340.3	328.9	11.41	29.816	
2,660.0	2,658.0	2,640.9	2,636.7	7.5	6.1	-118.33	231.1	216.1	345.9	334.2	11.71	29.529	
2,700.0	2,697.8	2,680.6	2,675.9	7.6	6.2	-117.86	229.1	222.0	349.7	337.7	11.92	29.336	
2,755.0	2,752.6	2,735.2	2,729.9	7.8	6.3	-117.24	226.4	230.1	354.9	342.7	12.21	29.065	
2,800.0	2,797.5	2,779.9	2,774.0	7.9	6.4	-116.74	224.2	236.7	359.2	346.7	12.45	28.845	
2,850.0	2,847.3	2,829.6	2,823.0	8.1	6.5	-116.21	221.7	244.1	364.0	351.3	12.73	28.599	
2,900.0	2,897.1	2,879.2	2,872.1	8.3	6.6	-115.68	219.3	251.4	368.8	355.8	13.01	28.357	
2,945.0	2,941.9	2,923.9	2,916.2	8.4	6.7	-115.22	217.1	258.1	373.2	360.0	13.26	28.139	
3,000.0	2,996.7	2,978.5	2,970.2	8.6	6.8	-114.67	214.4	266.2	378.6	365.0	13.58	27.877	
3,040.0	3,036.6	3,018.2	3,009.4	8.7	6.9	-114.28	212.4	272.1	382.5	368.7	13.82	27.690	
3,100.0	3,096.3	3,077.8	3,068.2	8.9	7.1	-113.72	209.4	280.9	388.5	374.3	14.17	27.412	
3,135.0	3,131.2	3,112.6	3,102.6	9.1	7.1	-113.39	207.7	286.1	392.0	377.6	14.38	27.254	
3,200.0	3,195.9	3,177.1	3,166.3	9.3	7.3	-112.81	204.5	295.7	398.5	383.7	14.78	26.965	
3,230.0	3,225.8	3,206.9	3,195.8	9.4	7.4	-112.54	203.0	300.1	401.5	386.5	14.96	26.836	
3,300.0	3,295.6	3,276.4	3,264.4	9.6	7.6	-111.94	199.6	310.4	408.5	393.1	15.39	26.537	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
3,325.0	3,320.5	3,301.3	3,288.9	9.7	7.6	-111.73	198.4	314.1	411.1	395.5	15.55	26.435	
3,400.0	3,395.2	3,375.7	3,362.5	10.0	7.8	-111.12	194.7	325.1	418.7	402.7	16.02	26.130	
3,420.0	3,415.1	3,395.6	3,382.1	10.0	7.9	-110.96	193.7	328.1	420.7	404.6	16.15	26.052	
3,500.0	3,494.8	3,475.0	3,460.6	10.3	8.1	-110.33	189.8	339.9	428.9	412.3	16.66	25.744	
3,515.0	3,509.7	3,489.9	3,475.3	10.3	8.1	-110.22	189.0	342.1	430.5	413.7	16.76	25.688	
3,600.0	3,594.4	3,574.3	3,558.7	10.6	8.4	-109.58	184.8	354.6	439.3	422.0	17.31	25.378	
3,610.0	3,604.4	3,584.3	3,568.5	10.7	8.4	-109.51	184.4	356.1	440.3	422.9	17.37	25.342	
3,700.0	3,694.0	3,673.7	3,656.7	11.0	8.7	-108.87	179.9	369.3	449.7	431.7	17.96	25.031	
3,705.0	3,699.0	3,678.6	3,661.6	11.0	8.7	-108.83	179.7	370.1	450.2	432.2	18.00	25.015	
3,800.0	3,793.7	3,773.0	3,754.8	11.3	9.0	-108.19	175.0	384.1	460.1	441.5	18.63	24.704	
3,895.0	3,888.3	3,867.3	3,848.0	11.7	9.2	-107.57	170.3	398.1	470.1	450.9	19.26	24.410	
3,900.0	3,893.3	3,872.3	3,852.9	11.7	9.3	-107.54	170.1	398.8	470.6	451.4	19.29	24.395	
3,990.0	3,982.9	3,961.6	3,941.2	12.0	9.5	-106.97	165.7	412.1	480.2	460.3	19.90	24.128	
4,007.7	4,000.6	3,979.3	3,958.6	12.1	9.6	-106.87	164.8	414.7	482.0	462.0	20.02	24.077	
4,085.0	4,077.6	4,056.0	4,034.3	12.3	9.8	-106.42	161.0	426.1	490.1	469.6	20.54	23.859	
4,100.0	4,092.6	4,070.9	4,049.1	12.4	9.9	-106.33	160.3	428.3	491.6	471.0	20.64	23.817	
4,180.0	4,172.4	4,150.2	4,127.5	12.7	10.1	-105.74	156.3	440.0	499.7	478.5	21.18	23.591	
4,200.0	4,192.4	4,170.1	4,147.1	12.7	10.2	-105.58	155.3	443.0	501.7	480.4	21.32	23.534	
4,275.0	4,267.3	4,244.4	4,220.5	13.0	10.4	-104.92	151.7	454.0	509.0	487.1	21.82	23.322	
4,300.0	4,292.3	4,269.2	4,245.0	13.1	10.5	-104.68	150.4	457.7	511.4	489.4	21.99	23.252	
4,370.0	4,362.2	4,338.6	4,313.5	13.3	10.7	-103.96	147.0	468.0	518.0	495.5	22.46	23.058	
4,400.0	4,392.2	4,368.2	4,342.8	13.4	10.8	-103.63	145.5	472.4	520.8	498.1	22.67	22.976	
4,465.0	4,457.2	4,432.5	4,406.3	13.6	11.0	-102.87	142.3	481.9	526.8	503.7	23.09	22.819	
4,507.8	4,500.0	4,474.8	4,448.0	13.8	11.2	54.12	140.2	488.2	530.8	507.4	23.36	22.717	
4,560.0	4,552.2	4,526.4	4,499.0	13.9	11.3	54.82	137.7	495.9	535.6	511.9	23.71	22.588	
4,600.0	4,592.2	4,565.9	4,538.0	14.1	11.5	55.35	135.7	501.7	539.4	515.4	23.98	22.494	
4,655.0	4,647.2	4,620.2	4,591.6	14.2	11.6	56.07	133.0	509.8	544.6	520.3	24.35	22.370	
4,700.0	4,692.2	4,664.6	4,635.5	14.4	11.8	56.65	130.8	516.4	549.0	524.3	24.65	22.273	
4,750.0	4,742.2	4,714.0	4,684.3	14.5	12.0	57.28	128.4	523.7	553.9	528.9	24.98	22.169	
4,800.0	4,792.2	4,763.4	4,733.1	14.7	12.1	57.90	126.0	531.0	558.9	533.5	25.32	22.070	
4,845.0	4,837.2	4,807.9	4,777.0	14.9	12.3	58.45	123.7	537.6	563.4	537.8	25.63	21.984	
4,900.0	4,892.2	4,862.2	4,830.6	15.0	12.4	59.11	121.1	545.7	569.0	543.0	26.00	21.884	
4,940.0	4,932.2	4,901.7	4,869.7	15.2	12.6	59.58	119.1	551.6	573.1	546.8	26.27	21.815	
5,000.0	4,992.2	4,961.0	4,928.2	15.4	12.8	60.27	116.2	560.3	579.4	552.7	26.68	21.715	
5,035.0	5,027.2	4,995.5	4,962.3	15.5	12.9	60.67	114.5	565.5	583.1	556.1	26.92	21.659	
5,100.0	5,092.2	5,059.7	5,025.7	15.7	13.1	61.40	111.3	575.0	590.0	562.6	27.36	21.560	
5,130.0	5,122.2	5,089.4	5,055.0	15.8	13.2	61.73	109.8	579.4	593.2	565.6	27.57	21.516	
5,200.0	5,192.2	5,158.5	5,123.3	16.1	13.5	62.48	106.4	589.7	600.8	572.8	28.05	21.419	
5,225.0	5,217.2	5,183.2	5,147.7	16.1	13.5	62.75	105.2	593.3	603.6	575.3	28.22	21.385	
5,300.0	5,292.2	5,257.3	5,220.9	16.4	13.8	63.53	101.5	604.3	611.9	583.1	28.74	21.290	
5,320.0	5,312.2	5,277.0	5,240.4	16.5	13.9	63.74	100.5	607.2	614.1	585.2	28.88	21.265	
5,400.0	5,392.2	5,356.0	5,318.4	16.7	14.1	64.54	96.6	619.0	623.1	593.7	29.43	21.172	
5,415.0	5,407.2	5,370.8	5,333.0	16.8	14.2	64.69	95.9	621.2	624.8	595.3	29.53	21.155	
5,500.0	5,492.2	5,454.8	5,416.0	17.1	14.5	65.51	91.7	633.6	634.5	604.4	30.12	21.065	
5,510.0	5,502.2	5,464.7	5,425.7	17.1	14.5	65.61	91.2	635.1	635.7	605.5	30.19	21.055	
5,600.0	5,592.2	5,553.6	5,513.5	17.4	14.8	66.45	86.8	648.3	646.1	615.3	30.82	20.967	
5,605.0	5,597.2	5,558.5	5,518.4	17.4	14.8	66.50	86.6	649.0	646.7	615.9	30.85	20.962	
5,700.0	5,692.2	5,652.3	5,611.1	17.7	15.2	67.36	81.9	662.9	657.9	626.4	31.51	20.877	
5,795.0	5,787.2	5,746.2	5,703.7	18.1	15.5	68.19	77.3	676.9	669.2	637.1	32.18	20.800	
5,800.0	5,792.2	5,751.1	5,708.6	18.1	15.5	68.24	77.0	677.6	669.8	637.6	32.21	20.796	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		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)			
5,890.0	5,882.2	5,840.0	5,796.4	18.4	15.8	69.00	72.6	690.8	680.7	647.9	32.84	20.728	
5,900.0	5,892.2	5,849.9	5,806.2	18.4	15.8	69.08	72.1	692.3	681.9	649.0	32.91	20.721	
5,985.0	5,977.2	5,933.8	5,889.1	18.7	16.1	69.78	68.0	704.7	692.3	658.8	33.50	20.663	
6,000.0	5,992.2	5,948.6	5,903.7	18.8	16.2	69.90	67.2	706.9	694.1	660.5	33.61	20.653	
6,080.0	6,072.2	6,027.7	5,981.8	19.0	16.5	70.53	63.3	718.6	704.0	669.8	34.17	20.603	
6,100.0	6,092.2	6,047.4	6,001.3	19.1	16.5	70.68	62.4	721.6	706.5	672.2	34.31	20.591	
6,175.0	6,167.2	6,121.5	6,074.4	19.4	16.8	71.26	58.7	732.6	715.9	681.0	34.84	20.549	
6,200.0	6,192.2	6,146.2	6,098.8	19.5	16.9	71.44	57.5	736.2	719.0	684.0	35.01	20.535	
6,270.0	6,262.2	6,215.3	6,167.1	19.7	17.1	71.96	54.0	746.5	727.8	692.3	35.50	20.499	
6,300.0	6,292.2	6,244.9	6,196.4	19.8	17.2	72.18	52.6	750.9	731.6	695.9	35.72	20.484	
6,365.0	6,357.2	6,309.1	6,259.8	20.0	17.5	72.64	49.4	760.4	739.8	703.7	36.17	20.453	
6,400.0	6,392.2	6,343.7	6,293.9	20.2	17.6	72.89	47.7	765.5	744.3	707.9	36.42	20.437	
6,460.0	6,452.2	6,403.0	6,352.5	20.4	17.8	73.30	44.7	774.3	752.0	715.2	36.84	20.411	
6,500.0	6,492.2	6,442.5	6,391.5	20.5	17.9	73.57	42.8	780.2	757.1	720.0	37.13	20.394	
6,555.0	6,547.2	6,496.8	6,445.1	20.7	18.1	73.94	40.1	788.2	764.2	726.7	37.51	20.373	
6,600.0	6,592.2	6,541.3	6,489.0	20.8	18.3	74.24	37.9	794.8	770.1	732.2	37.83	20.356	
6,650.0	6,642.2	6,590.6	6,537.8	21.0	18.5	74.56	35.4	802.2	776.6	738.4	38.18	20.338	
6,700.0	6,692.2	6,640.0	6,586.6	21.2	18.6	74.88	33.0	809.5	783.1	744.6	38.54	20.321	
6,745.0	6,737.2	6,684.5	6,630.5	21.3	18.8	75.16	30.8	816.1	789.0	750.2	38.86	20.306	
6,800.0	6,792.2	6,738.8	6,684.1	21.5	19.0	75.50	28.1	824.2	796.2	757.0	39.24	20.289	
6,840.0	6,832.2	6,778.3	6,723.2	21.7	19.1	75.74	26.2	830.0	801.5	762.0	39.53	20.277	
6,900.0	6,892.2	6,837.6	6,781.7	21.9	19.3	76.10	23.2	838.8	809.5	769.5	39.95	20.260	
6,935.0	6,927.2	6,872.1	6,815.8	22.0	19.5	76.30	21.5	843.9	814.1	773.9	40.20	20.251	
7,000.0	6,992.2	6,936.3	6,879.2	22.2	19.7	76.68	18.3	853.5	822.8	782.1	40.66	20.234	
7,030.0	7,022.2	6,966.0	6,908.5	22.3	19.8	76.85	16.9	857.9	826.8	785.9	40.87	20.227	
7,100.0	7,092.2	7,035.1	6,976.8	22.6	20.0	77.24	13.4	868.1	836.1	794.8	41.37	20.211	
7,125.0	7,117.2	7,059.8	7,001.2	22.7	20.1	77.38	12.2	871.8	839.5	798.0	41.55	20.205	
7,200.0	7,192.2	7,133.9	7,074.4	22.9	20.4	77.79	8.5	882.8	849.6	807.5	42.08	20.190	
7,220.0	7,212.2	7,153.6	7,093.9	23.0	20.5	77.89	7.6	885.7	852.3	810.1	42.22	20.186	
7,300.0	7,292.2	7,232.6	7,171.9	23.3	20.8	78.32	3.7	897.4	863.1	820.3	42.79	20.171	
7,315.0	7,307.2	7,248.7	7,187.8	23.3	20.8	78.40	2.9	899.8	865.2	822.3	42.91	20.165	
7,400.0	7,392.2	7,345.6	7,283.6	23.6	21.1	78.87	-1.6	913.3	876.0	832.4	43.58	20.100	
7,410.0	7,402.2	7,357.0	7,295.0	23.7	21.2	78.92	-2.1	914.8	877.2	833.5	43.66	20.090	
7,500.0	7,492.2	7,460.2	7,397.3	24.0	21.5	79.34	-6.3	927.2	887.2	842.8	44.37	19.994	
7,505.0	7,497.2	7,465.9	7,403.0	24.0	21.6	79.36	-6.5	927.8	887.7	843.3	44.41	19.988	
7,600.0	7,592.2	7,575.3	7,511.7	24.3	22.0	79.73	-10.2	939.0	896.7	851.5	45.15	19.860	
7,695.0	7,687.2	7,685.1	7,621.1	24.7	22.3	80.02	-13.3	948.2	904.1	858.2	45.88	19.706	
7,700.0	7,692.2	7,690.9	7,626.8	24.7	22.4	80.04	-13.5	948.7	904.4	858.5	45.92	19.697	
7,790.0	7,782.2	7,795.2	7,730.9	25.0	22.7	80.25	-15.7	955.5	909.9	863.3	46.59	19.528	
7,800.0	7,792.2	7,806.8	7,742.5	25.0	22.8	80.28	-16.0	956.2	910.4	863.7	46.67	19.508	
7,885.0	7,877.2	7,905.6	7,841.2	25.3	23.1	80.42	-17.5	960.8	914.1	866.8	47.30	19.326	
7,900.0	7,892.2	7,923.1	7,858.6	25.4	23.2	80.44	-17.7	961.4	914.6	867.2	47.41	19.293	
7,980.0	7,972.2	8,016.2	7,951.7	25.7	23.5	80.52	-18.6	964.0	916.7	868.7	47.99	19.103	
8,000.0	7,992.2	8,039.5	7,975.0	25.7	23.6	80.53	-18.7	964.5	917.1	868.9	48.13	19.053	
8,075.0	8,067.2	8,126.8	8,062.3	26.0	23.8	80.56	-19.0	965.3	917.7	869.1	48.66	18.858	
8,100.0	8,092.2	8,153.5	8,089.0	26.1	23.9	80.56	-19.0	965.3	917.7	868.9	48.83	18.793	
8,170.0	8,162.2	8,223.5	8,159.0	26.3	24.1	80.56	-19.0	965.3	917.7	868.4	49.30	18.616	
8,200.0	8,192.2	8,253.5	8,189.0	26.4	24.2	80.56	-19.0	965.3	917.7	868.2	49.50	18.540	
8,265.0	8,257.2	8,318.5	8,254.0	26.7	24.4	80.56	-19.0	965.3	917.7	867.8	49.94	18.378	
8,300.0	8,292.2	8,353.5	8,289.0	26.8	24.5	80.56	-19.0	965.3	917.7	867.6	50.17	18.292	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - *GIN AND TECTONIC FEDERAL COM #201H - OWB - PWP0												Offset Site Error:	3.0 usft
Survey Program: 0-Standard Keeper 104, 2000-MWD+IFR1+MS, 9007-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)			
8,360.0	8,352.2	8,413.5	8,349.0	27.0	24.7	80.56	-19.0	965.3	917.7	867.1	50.58	18.145	
8,400.0	8,392.2	8,453.5	8,389.0	27.1	24.8	80.56	-19.0	965.3	917.7	866.9	50.85	18.049	
8,455.0	8,447.2	8,508.5	8,444.0	27.3	25.0	80.56	-19.0	965.3	917.7	866.5	51.22	17.918	
8,500.0	8,492.2	8,553.5	8,489.0	27.5	25.2	80.56	-19.0	965.3	917.7	866.2	51.52	17.812	
8,550.0	8,542.2	8,603.5	8,539.0	27.7	25.3	80.56	-19.0	965.3	917.7	865.9	51.86	17.696	
8,600.0	8,592.2	8,653.5	8,589.0	27.8	25.5	80.56	-19.0	965.3	917.7	865.5	52.20	17.581	
8,645.0	8,637.2	8,698.5	8,634.0	28.0	25.6	80.56	-19.0	965.3	917.7	865.2	52.51	17.479	
8,700.0	8,692.2	8,753.5	8,689.0	28.2	25.8	80.56	-19.0	965.3	917.7	864.8	52.88	17.355	
8,740.0	8,732.2	8,793.5	8,729.0	28.3	25.9	80.56	-19.0	965.3	917.7	864.6	53.15	17.266	
8,800.0	8,792.2	8,853.5	8,789.0	28.5	26.1	80.56	-19.0	965.3	917.7	864.2	53.56	17.135	
8,835.0	8,827.2	8,888.5	8,824.0	28.7	26.2	80.56	-19.0	965.3	917.7	863.9	53.80	17.059	
8,900.0	8,892.2	8,953.5	8,889.0	28.9	26.3	80.56	-19.0	965.3	917.7	863.6	54.16	16.946	
8,930.0	8,922.2	8,983.5	8,919.0	29.0	26.4	80.56	-19.0	965.3	917.7	863.4	54.31	16.897	
8,931.0	8,923.2	8,984.5	8,920.0	29.0	26.4	80.56	-19.0	965.3	917.7	863.4	54.32	16.895	
9,000.0	8,992.2	9,042.4	8,977.9	29.2	26.4	80.48	-17.7	965.3	918.0	863.4	54.63	16.804	
9,025.0	9,017.2	9,061.3	8,996.7	29.3	26.4	80.37	-15.9	965.3	918.4	863.7	54.73	16.779	
9,100.0	9,092.2	9,116.8	9,051.3	29.6	26.5	79.79	-6.4	965.3	920.6	865.6	55.04	16.728	
9,120.0	9,112.2	9,131.2	9,065.3	29.7	26.5	79.57	-2.9	965.3	921.5	866.4	55.11	16.720 SF	
9,200.0	9,192.2	9,186.2	9,117.5	30.0	26.5	78.52	14.2	965.2	926.4	871.0	55.41	16.720	
9,215.0	9,207.2	9,196.0	9,126.6	30.0	26.5	78.30	17.9	965.2	927.7	872.2	55.46	16.727	
9,300.0	9,292.2	9,250.0	9,175.1	30.3	26.6	76.88	41.5	965.2	936.4	880.7	55.72	16.806	
9,310.0	9,302.2	9,254.2	9,178.8	30.3	26.6	76.75	43.6	965.1	937.6	881.9	55.74	16.822	
9,400.0	9,392.2	9,300.0	9,217.4	30.7	26.6	75.29	68.1	965.1	951.4	895.5	55.89	17.022	
9,405.0	9,397.2	9,305.4	9,221.9	30.7	26.6	75.10	71.3	965.1	952.3	896.4	55.91	17.033	
9,500.0	9,492.2	9,350.0	9,256.7	31.0	26.6	73.47	99.0	965.0	972.2	916.2	55.93	17.381	
9,595.0	9,587.2	9,387.9	9,284.3	31.3	26.7	71.97	125.0	965.0	997.8	942.0	55.79	17.884	
9,600.0	9,592.2	9,389.8	9,285.6	31.4	26.7	71.89	126.4	965.0	999.3	943.5	55.78	17.914	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD												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	-147.17	-554.1	-357.5	659.5				
1.0	1.0	0.0	0.0	3.0	3.0	-147.17	-554.1	-357.5	659.5				
4.5	4.5	1.7	1.7	3.0	3.0	-100.21	-554.1	-357.5	659.5				
95.0	95.0	89.3	89.3	3.0	3.0	-100.23	-554.3	-357.7	659.7	653.7	6.01	109.841	
101.0	101.0	95.1	95.1	3.0	3.0	-100.23	-554.3	-357.7	659.7	653.7	6.01	109.832	
126.0	126.0	119.6	119.6	3.0	3.0	-83.86	-554.4	-357.8	659.9	653.8	6.01	109.706	
151.0	151.0	144.2	144.2	3.0	3.1	-91.50	-554.5	-357.9	660.0	654.0	6.03	109.491	
176.0	176.0	168.9	168.8	3.0	3.1	-100.81	-554.6	-358.0	660.2	654.1	6.04	109.221	
190.0	190.0	182.6	182.6	3.0	3.1	-108.56	-554.6	-358.1	660.3	654.2	6.06	109.047	
201.0	201.0	193.5	193.5	3.0	3.1	-112.48	-554.7	-358.1	660.4	654.4	6.06	108.900	
226.0	226.0	217.9	217.9	3.0	3.2	-122.39	-554.8	-358.3	660.7	654.6	6.09	108.578	
251.0	251.0	242.2	242.2	3.0	3.2	-128.05	-555.0	-358.5	661.1	655.0	6.11	108.237	
276.0	276.0	266.5	266.5	3.0	3.3	-118.11	-555.1	-358.7	661.5	655.4	6.13	107.859	
285.0	285.0	275.2	275.2	3.0	3.3	-115.42	-555.2	-358.7	661.6	655.5	6.14	107.713	
301.0	301.0	290.8	290.8	3.0	3.3	-111.26	-555.3	-358.9	661.9	655.7	6.16	107.443	
326.0	326.0	316.0	316.0	3.0	3.4	-103.20	-555.5	-359.1	662.3	656.1	6.19	106.991	
351.0	351.0	341.8	341.8	3.0	3.4	-97.45	-555.6	-359.4	662.6	656.4	6.22	106.498	
376.0	376.0	367.6	367.6	3.0	3.5	-95.81	-555.8	-359.6	662.9	656.6	6.26	105.965	
380.0	380.0	371.7	371.7	3.0	3.5	-96.58	-555.8	-359.6	662.9	656.6	6.26	105.876	
401.0	401.0	393.4	393.4	3.0	3.5	-100.74	-555.9	-359.8	663.1	656.8	6.29	105.398	
426.0	426.0	418.0	418.0	3.0	3.6	-96.41	-556.0	-359.9	663.4	657.0	6.33	104.828	
451.0	451.0	442.2	442.2	3.0	3.6	-92.70	-556.1	-360.1	663.6	657.2	6.37	104.244	
475.0	475.0	465.4	465.4	3.0	3.7	-82.12	-556.2	-360.3	663.8	657.4	6.40	103.661	
476.0	476.0	466.4	466.4	3.0	3.7	-81.69	-556.2	-360.3	663.8	657.4	6.41	103.636	
501.0	501.0	490.6	490.5	3.1	3.7	-83.36	-556.4	-360.6	664.0	657.6	6.45	103.008	
526.0	526.0	515.6	515.6	3.1	3.8	-79.44	-556.6	-360.8	664.3	657.8	6.49	102.325	
551.0	551.0	541.2	541.1	3.1	3.9	-74.05	-556.8	-361.1	664.4	657.9	6.54	101.592	
570.0	570.0	560.6	560.6	3.1	3.9	-69.32	-556.9	-361.2	664.5	657.9	6.58	101.018	
576.0	576.0	566.7	566.7	3.1	3.9	-67.79	-557.0	-361.3	664.5	657.9	6.59	100.834	
601.0	601.0	592.3	592.3	3.1	4.0	-64.54	-557.1	-361.5	664.6	657.9	6.64	100.053	
626.0	625.9	617.4	617.4	3.1	4.1	-56.25	-557.3	-361.6	664.6	657.9	6.70	99.198	
637.6	637.5	629.0	629.0	3.1	4.1	-57.73	-557.3	-361.7	664.6	657.9	6.73	98.787	
651.0	650.9	642.4	642.4	3.1	4.1	-59.65	-557.4	-361.8	664.6	657.8	6.76	98.316	
665.0	664.9	656.4	656.3	3.1	4.2	-56.54	-557.5	-361.8	664.6	657.8	6.79	97.822	
676.0	675.9	667.3	667.3	3.1	4.2	-54.23	-557.6	-361.9	664.6	657.8	6.82	97.434	
701.0	700.9	692.3	692.3	3.1	4.2	-47.94	-557.8	-362.0	664.6	657.7	6.88	96.546	
726.0	725.9	717.7	717.7	3.1	4.3	-37.71	-558.0	-362.0	664.5	657.5	6.96	95.446	
751.0	750.9	743.3	743.3	3.1	4.4	-30.34	-558.3	-362.1	664.3	657.3	7.04	94.334	
760.0	759.9	752.5	752.5	3.1	4.4	-32.59	-558.3	-362.1	664.2	657.2	7.07	93.956	
776.0	775.9	768.9	768.9	3.1	4.4	-36.36	-558.4	-362.1	664.1	657.0	7.12	93.314	
801.0	800.9	794.5	794.5	3.1	4.5	-32.39	-558.6	-362.1	663.8	656.7	7.19	92.367	
826.0	825.9	819.3	819.3	3.1	4.6	-23.97	-558.8	-362.1	663.5	656.3	7.26	91.418	
851.0	850.9	844.0	844.0	3.1	4.6	-35.59	-558.9	-362.1	663.3	655.9	7.33	90.443	
855.0	854.9	848.0	847.9	3.1	4.6	-34.35	-559.0	-362.1	663.2	655.9	7.35	90.284	
876.0	875.9	868.7	868.6	3.2	4.7	-27.81	-559.1	-362.2	663.0	655.6	7.41	89.437	
901.0	900.9	893.3	893.3	3.2	4.7	-25.47	-559.3	-362.2	662.7	655.2	7.50	88.403	
926.0	925.9	917.9	917.9	3.2	4.8	-32.14	-559.5	-362.2	662.5	655.0	7.58	87.445	
950.0	949.9	941.4	941.4	3.2	4.9	-38.02	-559.7	-362.2	662.5	654.8	7.65	86.568	
986.7	986.6	977.4	977.4	3.2	5.0	-38.06	-560.1	-362.3	662.5	654.7	7.77	85.277	
1,000.0	999.9	990.5	990.5	3.2	5.0	-38.07	-560.2	-362.3	662.5	654.6	7.81	84.813	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 100-GYRO-NS, 7978-MWD												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,045.0	1,044.9	1,034.8	1,034.8	3.2	5.1	-38.12	-560.7	-362.3	662.5	654.5	7.96	83.259	
1,054.0	1,053.9	1,043.7	1,043.7	3.2	5.2	-38.13	-560.8	-362.4	662.5	654.5	7.99	82.954	
1,100.0	1,099.9	1,089.1	1,089.0	3.2	5.3	-38.18	-561.4	-362.4	662.6	654.5	8.15	81.323	
1,140.0	1,139.9	1,128.1	1,128.0	3.3	5.4	-38.22	-561.9	-362.5	662.7	654.4	8.29	79.909	
1,154.0	1,153.9	1,141.7	1,141.6	3.3	5.5	-38.24	-562.1	-362.6	662.8	654.4	8.34	79.425	
1,200.0	1,199.9	1,186.3	1,186.3	3.3	5.6	-38.29	-562.9	-362.7	663.1	654.6	8.52	77.807	
1,235.0	1,234.9	1,221.1	1,221.0	3.3	5.7	-38.31	-563.4	-362.9	663.5	654.9	8.67	76.512	
1,294.0	1,293.9	1,280.6	1,280.5	3.4	5.9	-148.32	-564.4	-363.2	664.4	655.4	8.93	74.364	
1,300.0	1,299.9	1,286.6	1,286.5	3.4	5.9	-148.32	-564.5	-363.2	664.5	655.5	8.96	74.156	
1,330.0	1,329.9	1,317.1	1,317.0	3.5	6.0	-148.33	-565.0	-363.3	664.9	655.8	9.10	73.031	
1,400.0	1,399.9	1,388.7	1,388.6	3.6	6.2	-148.37	-566.1	-363.4	665.9	656.5	9.45	70.446	
1,425.0	1,424.9	1,413.7	1,413.7	3.6	6.3	-148.40	-566.5	-363.4	666.2	656.6	9.60	69.401	
1,500.0	1,499.9	1,487.6	1,487.5	3.8	6.5	-148.47	-567.8	-363.2	667.2	657.2	10.04	66.463	
1,520.0	1,519.9	1,507.5	1,507.4	3.8	6.6	-148.49	-568.2	-363.1	667.5	657.4	10.16	65.719	
1,600.0	1,599.9	1,588.3	1,588.2	4.0	6.8	-148.59	-569.7	-362.7	668.6	658.0	10.65	62.785	
1,615.0	1,614.9	1,603.4	1,603.2	4.1	6.9	-148.61	-570.0	-362.6	668.8	658.1	10.74	62.266	
1,700.0	1,699.9	1,687.6	1,687.4	4.3	7.1	-148.71	-571.6	-362.3	670.0	658.7	11.27	59.455	
1,710.0	1,709.9	1,697.5	1,697.3	4.3	7.2	-148.72	-571.8	-362.2	670.1	658.8	11.33	59.141	
1,800.0	1,799.9	1,788.1	1,787.9	4.6	7.5	-148.82	-573.5	-361.9	671.4	659.5	11.90	56.402	
1,805.0	1,804.9	1,793.1	1,792.9	4.6	7.5	-148.82	-573.6	-361.9	671.5	659.5	11.94	56.256	
1,900.0	1,899.9	1,889.1	1,889.0	4.9	7.8	-148.91	-575.2	-361.6	672.7	660.2	12.55	53.598	
1,995.0	1,994.9	1,982.7	1,982.5	5.2	8.1	-149.00	-576.7	-361.4	673.9	660.8	13.16	51.199	
2,000.1	2,000.0	1,987.7	1,987.5	5.2	8.1	-149.00	-576.8	-361.4	674.0	660.8	13.20	51.075	
2,090.0	2,089.9	2,080.7	2,080.5	5.5	8.4	54.58	-578.2	-361.3	674.3	660.6	13.75	49.025	
2,100.0	2,099.9	2,091.2	2,091.0	5.5	8.5	54.60	-578.3	-361.3	674.2	660.4	13.82	48.792	
2,185.0	2,184.7	2,175.3	2,175.1	6.0	8.7	54.86	-579.3	-361.2	672.6	658.0	14.56	46.201	
2,200.0	2,199.7	2,190.0	2,189.8	6.1	8.8	54.93	-579.5	-361.1	672.1	657.4	14.69	45.745	
2,250.1	2,249.7	2,239.4	2,239.2	6.3	8.9	55.18	-580.2	-361.0	670.4	655.4	15.02	44.625	
2,280.0	2,279.4	2,268.8	2,268.6	6.3	9.0	55.33	-580.7	-360.9	669.3	654.1	15.20	44.020	
2,300.0	2,299.4	2,288.5	2,288.3	6.4	9.1	55.43	-581.0	-360.8	668.5	653.2	15.33	43.624	
2,375.0	2,374.1	2,362.8	2,362.5	6.6	9.4	55.81	-582.3	-360.5	665.8	650.0	15.79	42.154	
2,400.0	2,399.0	2,387.5	2,387.3	6.7	9.4	55.94	-582.8	-360.4	664.9	649.0	15.95	41.683	
2,470.0	2,468.7	2,456.2	2,455.9	6.9	9.7	56.29	-584.1	-360.2	662.5	646.1	16.41	40.376	
2,500.0	2,498.6	2,485.5	2,485.3	7.0	9.8	56.44	-584.7	-360.1	661.5	644.9	16.60	39.839	
2,565.0	2,563.4	2,551.2	2,550.9	7.2	10.0	56.77	-586.0	-359.8	659.4	642.4	17.04	38.701	
2,600.0	2,598.2	2,586.9	2,586.6	7.3	10.1	56.95	-586.8	-359.7	658.2	640.9	17.27	38.105	
2,660.0	2,658.0	2,648.0	2,647.7	7.5	10.3	57.26	-587.9	-359.3	656.1	638.4	17.68	37.115	
2,700.0	2,697.8	2,688.8	2,688.5	7.6	10.5	57.47	-588.6	-359.1	654.7	636.7	17.95	36.475	
2,755.0	2,752.6	2,744.9	2,744.6	7.8	10.6	57.76	-589.5	-358.6	652.6	634.3	18.32	35.624	
2,800.0	2,797.5	2,790.9	2,790.6	7.9	10.8	57.98	-590.3	-358.1	650.8	632.2	18.62	34.948	
2,850.0	2,847.3	2,840.9	2,840.6	8.1	11.0	58.21	-591.1	-357.4	648.8	629.8	18.96	34.227	
2,900.0	2,897.1	2,890.8	2,890.4	8.3	11.1	58.44	-592.0	-356.6	646.8	627.5	19.29	33.532	
2,945.0	2,941.9	2,938.2	2,937.8	8.4	11.3	58.66	-592.8	-355.8	645.0	625.4	19.59	32.915	
3,000.0	2,996.7	2,996.9	2,996.5	8.6	11.5	58.93	-593.5	-354.8	642.4	622.4	19.97	32.169	
3,040.0	3,036.6	3,038.9	3,038.5	8.7	11.6	59.14	-593.8	-353.9	640.4	620.1	20.24	31.646	
3,100.0	3,096.3	3,101.8	3,101.5	8.9	11.8	59.46	-594.0	-352.6	637.1	616.5	20.63	30.876	
3,135.0	3,131.2	3,138.1	3,137.7	9.1	11.9	59.65	-593.9	-351.8	635.1	614.2	20.86	30.438	
3,200.0	3,195.9	3,205.1	3,204.7	9.3	12.1	60.01	-593.7	-350.3	631.1	609.8	21.29	29.642	
3,230.0	3,225.8	3,234.8	3,234.3	9.4	12.2	60.17	-593.5	-349.6	629.3	607.8	21.49	29.287	
3,300.0	3,295.6	3,304.0	3,303.6	9.6	12.4	60.56	-593.1	-348.1	625.0	603.1	21.94	28.484	

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

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Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP													Offset Site Error:	3.0 usft	
Survey Program:		100-GYRO-NS, 7978-MWD				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)					
3,325.0	3,320.5	3,329.2	3,328.7	9.7	12.5	60.70	-593.0	-347.6	623.5	601.4	22.11	28.203			
3,400.0	3,395.2	3,404.5	3,404.0	10.0	12.8	61.16	-592.3	-346.1	618.9	596.3	22.60	27.384			
3,420.0	3,415.1	3,424.1	3,423.7	10.0	12.8	61.29	-592.1	-345.7	617.7	595.0	22.73	27.172			
3,500.0	3,494.8	3,500.0	3,499.5	10.3	13.1	61.80	-591.3	-344.7	613.0	589.7	23.26	26.357			
3,515.0	3,509.7	3,516.6	3,516.1	10.3	13.1	61.92	-591.1	-344.5	612.1	588.8	23.36	26.201			
3,600.0	3,594.4	3,596.2	3,595.8	10.6	13.4	62.50	-590.4	-344.0	607.7	583.8	23.92	25.403			
3,610.0	3,604.4	3,606.1	3,605.6	10.7	13.4	62.57	-590.3	-344.0	607.3	583.3	23.99	25.312			
3,700.0	3,694.0	3,697.6	3,697.1	11.0	13.8	63.27	-589.6	-343.7	603.0	578.3	24.61	24.499			
3,705.0	3,699.0	3,702.5	3,702.1	11.0	13.8	63.31	-589.5	-343.7	602.7	578.1	24.65	24.455			
3,800.0	3,793.7	3,792.9	3,792.4	11.3	14.1	64.03	-588.8	-343.7	598.4	573.2	25.29	23.667			
3,895.0	3,888.3	3,885.9	3,885.4	11.7	14.4	64.77	-588.5	-343.9	594.8	568.8	25.93	22.940			
3,900.0	3,893.3	3,890.8	3,890.3	11.7	14.4	64.81	-588.5	-343.9	594.6	568.6	25.96	22.903			
3,990.0	3,982.9	3,978.3	3,977.8	12.0	14.7	65.49	-588.5	-344.1	591.5	564.9	26.56	22.266			
4,007.7	4,000.6	3,995.6	3,995.1	12.1	14.7	65.62	-588.6	-344.2	590.9	564.2	26.68	22.146			
4,085.0	4,077.6	4,070.3	4,069.8	12.3	15.0	66.07	-589.4	-344.1	588.9	561.6	27.24	21.620			
4,100.0	4,092.6	4,084.8	4,084.3	12.4	15.1	66.14	-589.6	-344.0	588.6	561.2	27.34	21.523			
4,180.0	4,172.4	4,167.7	4,167.2	12.7	15.4	66.43	-591.3	-343.1	587.1	559.2	27.94	21.012			
4,200.0	4,192.4	4,188.8	4,188.3	12.7	15.5	66.49	-591.6	-342.8	586.7	558.6	28.09	20.886			
4,275.0	4,267.3	4,267.0	4,266.4	13.0	15.8	66.65	-592.7	-341.6	585.3	556.6	28.62	20.451			
4,300.0	4,292.3	4,293.0	4,292.5	13.1	15.8	66.68	-593.0	-341.1	584.8	556.0	28.79	20.311			
4,370.0	4,362.2	4,359.7	4,359.1	13.3	16.1	66.67	-594.1	-339.7	583.7	554.5	29.26	19.949			
4,400.0	4,392.2	4,388.0	4,387.4	13.4	16.2	66.64	-594.7	-339.1	583.5	554.1	29.46	19.807			
4,428.3	4,420.6	4,415.1	4,414.5	13.5	16.3	66.59	-595.5	-338.5	583.5	553.9	29.65	19.683			
4,465.0	4,457.2	4,450.9	4,450.3	13.6	16.4	66.51	-596.4	-337.8	583.6	553.7	29.88	19.527			
4,507.8	4,500.0	4,492.5	4,491.9	13.8	16.5	-137.16	-597.6	-337.0	583.9	553.7	30.16	19.356			
4,560.0	4,552.2	4,544.4	4,543.8	13.9	16.7	-137.31	-599.1	-336.2	584.4	553.8	30.52	19.147			
4,600.0	4,592.2	4,584.4	4,583.7	14.1	16.8	-137.41	-600.0	-335.7	584.7	554.0	30.79	18.990			
4,655.0	4,647.2	4,639.8	4,639.1	14.2	17.0	-137.52	-601.2	-335.3	585.3	554.1	31.17	18.777			
4,700.0	4,692.2	4,685.4	4,684.7	14.4	17.2	-137.58	-601.9	-335.0	585.7	554.2	31.48	18.605			
4,750.0	4,742.2	4,735.5	4,734.8	14.5	17.4	-137.64	-602.6	-334.9	586.1	554.2	31.82	18.417			
4,800.0	4,792.2	4,785.5	4,784.8	14.7	17.5	-137.69	-603.2	-334.8	586.5	554.3	32.17	18.232			
4,845.0	4,837.2	4,830.4	4,829.7	14.9	17.7	-137.73	-603.7	-334.7	586.8	554.3	32.48	18.070			
4,900.0	4,892.2	4,885.3	4,884.6	15.0	17.9	-137.78	-604.4	-334.6	587.3	554.4	32.85	17.875			
4,940.0	4,932.2	4,925.4	4,924.7	15.2	18.0	-137.82	-604.9	-334.6	587.6	554.5	33.13	17.737			
5,000.0	4,992.2	4,985.8	4,985.0	15.4	18.2	-137.89	-605.8	-334.4	588.1	554.5	33.54	17.532			
5,035.0	5,027.2	5,021.1	5,020.3	15.5	18.4	-137.93	-606.3	-334.2	588.3	554.5	33.79	17.414			
5,100.0	5,092.2	5,086.8	5,086.1	15.7	18.6	-138.03	-607.3	-333.7	588.7	554.5	34.23	17.197			
5,130.0	5,122.2	5,117.5	5,116.7	15.8	18.7	-138.08	-607.7	-333.4	588.9	554.5	34.44	17.098			
5,200.0	5,192.2	5,189.6	5,188.8	16.1	19.0	-138.18	-608.5	-332.8	589.1	554.2	34.93	16.866			
5,225.0	5,217.2	5,214.8	5,214.1	16.1	19.0	-138.21	-608.7	-332.6	589.1	554.0	35.10	16.784			
5,300.0	5,292.2	5,289.4	5,288.6	16.4	19.3	-138.27	-609.3	-332.1	589.2	553.6	35.61	16.545			
5,320.0	5,312.2	5,309.4	5,308.6	16.5	19.4	-138.29	-609.4	-332.0	589.2	553.5	35.75	16.482			
5,400.0	5,392.2	5,389.8	5,389.0	16.7	19.6	-138.34	-609.8	-331.7	589.3	553.0	36.30	16.235			
5,415.0	5,407.2	5,404.9	5,404.1	16.8	19.7	-138.35	-609.9	-331.6	589.3	552.9	36.40	16.189			
5,500.0	5,492.2	5,490.3	5,489.5	17.1	20.0	-138.40	-610.2	-331.3	589.3	552.3	36.98	15.935			
5,510.0	5,502.2	5,500.3	5,499.6	17.1	20.0	-138.40	-610.2	-331.2	589.3	552.3	37.05	15.905			
5,600.0	5,592.2	5,590.4	5,589.7	17.4	20.3	-138.46	-610.6	-330.8	589.3	551.6	37.67	15.645			
5,605.0	5,597.2	5,595.4	5,594.7	17.4	20.3	-138.46	-610.6	-330.8	589.3	551.6	37.70	15.631			
5,700.0	5,692.2	5,693.7	5,692.9	17.7	20.7	-138.55	-611.0	-329.9	589.0	550.6	38.36	15.356			
5,795.0	5,787.2	5,790.0	5,789.2	18.1	21.0	-138.66	-611.3	-328.6	588.3	549.3	39.00	15.084			

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

ConocoPhillips

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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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5,800.0	5,792.2	5,795.0	5,794.2	18.1	21.0	-138.67	-611.3	-328.5	588.3	549.3	39.04	15.070	
5,890.0	5,882.2	5,885.2	5,884.4	18.4	21.3	-138.76	-611.3	-327.3	587.5	547.9	39.65	14.819	
5,900.0	5,892.2	5,895.2	5,894.4	18.4	21.4	-138.77	-611.3	-327.2	587.5	547.7	39.72	14.791	
5,985.0	5,977.2	5,979.6	5,978.8	18.7	21.6	-138.83	-611.2	-326.3	586.8	546.5	40.29	14.563	
6,000.0	5,992.2	5,994.5	5,993.7	18.8	21.7	-138.84	-611.2	-326.1	586.7	546.3	40.39	14.524	
6,080.0	6,072.2	6,074.4	6,073.6	19.0	21.9	-138.88	-611.1	-325.4	586.1	545.2	40.94	14.317	
6,100.0	6,092.2	6,094.4	6,093.6	19.1	22.0	-138.89	-611.0	-325.3	586.0	544.9	41.07	14.266	
6,175.0	6,167.2	6,171.4	6,170.6	19.4	22.3	-138.94	-610.8	-324.4	585.3	543.7	41.59	14.074	
6,200.0	6,192.2	6,197.1	6,196.3	19.5	22.4	-138.96	-610.8	-324.1	585.0	543.3	41.76	14.009	
6,270.0	6,262.2	6,266.9	6,266.1	19.7	22.6	-139.04	-610.7	-322.9	584.2	542.0	42.24	13.832	
6,300.0	6,292.2	6,296.8	6,296.0	19.8	22.7	-139.08	-610.7	-322.4	583.9	541.4	42.44	13.757	
6,365.0	6,357.2	6,359.7	6,358.9	20.0	22.9	-139.14	-610.7	-321.5	583.2	540.4	42.88	13.602	
6,400.0	6,392.2	6,393.6	6,392.8	20.2	23.0	-139.17	-610.7	-321.2	583.0	539.9	43.12	13.522	
6,460.0	6,452.2	6,453.2	6,452.3	20.4	23.2	-139.21	-610.7	-320.6	582.7	539.2	43.53	13.387	
6,500.0	6,492.2	6,493.0	6,492.2	20.5	23.4	-139.24	-610.8	-320.3	582.5	538.7	43.80	13.299	
6,555.0	6,547.2	6,547.8	6,546.9	20.7	23.5	-139.29	-610.9	-319.8	582.3	538.1	44.18	13.181	
6,600.0	6,592.2	6,592.6	6,591.7	20.8	23.7	-139.33	-611.0	-319.4	582.1	537.6	44.48	13.085	
6,650.0	6,642.2	6,641.8	6,640.9	21.0	23.9	-139.37	-611.2	-318.9	581.9	537.1	44.83	12.981	
6,700.0	6,692.2	6,690.9	6,690.1	21.2	24.0	-139.42	-611.4	-318.5	581.8	536.7	45.17	12.881	
6,745.0	6,737.2	6,735.5	6,734.6	21.3	24.2	-139.46	-611.7	-318.1	581.8	536.3	45.48	12.793	
6,766.6	6,758.9	6,756.9	6,756.1	21.4	24.3	-139.49	-611.8	-318.0	581.8	536.2	45.63	12.750 CC	
6,800.0	6,792.2	6,790.0	6,789.2	21.5	24.4	-139.52	-612.1	-317.7	581.8	535.9	45.86	12.687	
6,840.0	6,832.2	6,829.9	6,829.0	21.7	24.5	-139.56	-612.4	-317.4	581.8	535.7	46.14	12.611	
6,900.0	6,892.2	6,889.8	6,888.9	21.9	24.7	-139.62	-612.8	-316.9	581.9	535.3	46.55	12.499	
6,935.0	6,927.2	6,924.8	6,923.9	22.0	24.8	-139.66	-613.1	-316.7	581.9	535.1	46.80	12.435	
7,000.0	6,992.2	6,989.8	6,989.0	22.2	25.1	-139.72	-613.5	-316.2	582.0	534.7	47.25	12.317	
7,030.0	7,022.2	7,019.7	7,018.8	22.3	25.2	-139.75	-613.7	-316.0	582.0	534.5	47.46	12.263	
7,100.0	7,092.2	7,089.0	7,088.1	22.6	25.4	-139.82	-614.3	-315.6	582.1	534.2	47.94	12.141	
7,125.0	7,117.2	7,113.8	7,112.9	22.7	25.5	-139.84	-614.5	-315.4	582.2	534.0	48.12	12.099	
7,200.0	7,192.2	7,188.1	7,187.3	22.9	25.8	-139.92	-615.1	-315.0	582.4	533.8	48.64	11.974	
7,220.0	7,212.2	7,208.1	7,207.2	23.0	25.8	-139.94	-615.3	-314.9	582.5	533.7	48.78	11.941	
7,300.0	7,292.2	7,288.5	7,287.7	23.3	26.1	-140.00	-616.0	-314.6	582.8	533.4	49.34	11.811	
7,315.0	7,307.2	7,303.6	7,302.7	23.3	26.2	-140.01	-616.1	-314.5	582.8	533.4	49.45	11.786	
7,400.0	7,392.2	7,387.4	7,386.6	23.6	26.5	-140.08	-616.7	-314.2	583.1	533.1	50.04	11.654	
7,410.0	7,402.2	7,397.3	7,396.4	23.7	26.5	-140.09	-616.8	-314.2	583.2	533.1	50.11	11.638	
7,500.0	7,492.2	7,486.3	7,485.4	24.0	26.8	-140.17	-617.8	-313.9	583.7	533.0	50.74	11.505	
7,505.0	7,497.2	7,491.3	7,490.4	24.0	26.8	-140.17	-617.8	-313.9	583.8	533.0	50.77	11.498 ES	
7,600.0	7,592.2	7,584.2	7,583.3	24.3	27.2	-140.24	-618.9	-313.9	584.6	533.1	51.43	11.366	
7,695.0	7,687.2	7,680.5	7,679.6	24.7	27.5	-140.31	-620.1	-313.9	585.5	533.4	52.11	11.237	
7,700.0	7,692.2	7,685.7	7,684.8	24.7	27.5	-140.31	-620.1	-313.9	585.6	533.4	52.14	11.230	
7,790.0	7,782.2	7,773.8	7,772.9	25.0	27.8	-140.38	-621.2	-313.9	586.4	533.6	52.77	11.112	
7,800.0	7,792.2	7,783.5	7,782.6	25.0	27.9	-140.38	-621.3	-313.9	586.5	533.7	52.84	11.100	
7,885.0	7,877.2	7,868.5	7,867.6	25.3	28.2	-140.48	-622.7	-313.9	587.5	534.1	53.44	10.995	
7,900.0	7,892.2	7,883.6	7,882.7	25.4	28.2	-140.49	-622.9	-313.8	587.7	534.2	53.54	10.976	
7,980.0	7,972.2	7,967.4	7,966.5	25.7	28.5	-140.58	-624.1	-313.6	588.4	534.3	54.06	10.883	
8,000.0	7,992.2	7,984.8	7,983.9	25.7	28.5	-140.60	-624.3	-313.5	588.5	534.4	54.15	10.868 SF	
8,075.0	8,067.2	8,026.7	8,025.8	26.0	28.5	-140.70	-625.9	-313.5	591.0	536.7	54.36	10.872	
8,100.0	8,092.2	8,042.0	8,041.0	26.1	28.5	-140.78	-627.4	-313.7	593.0	538.6	54.42	10.897	
8,170.0	8,162.2	8,073.0	8,071.6	26.3	28.5	-141.05	-632.3	-314.1	601.5	547.1	54.42	11.052	
8,200.0	8,192.2	8,083.1	8,081.4	26.4	28.6	-141.15	-634.3	-314.3	606.4	552.1	54.33	11.162	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - BIMINI 8 FEDERAL COM #2H - OWB - AWP											Offset Site Error:	3.0 usft
Survey Program:	100-GYRO-NS, 7978-MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
8,265.0	8,257.2	8,105.0	8,102.8	26.7	28.6	-141.42	-639.3	-314.8	619.8	565.8	54.01	11.476	
8,300.0	8,292.2	8,126.9	8,123.8	26.8	28.6	-141.72	-645.4	-315.5	628.4	574.4	53.97	11.644	
8,360.0	8,352.2	8,152.5	8,147.9	27.0	28.6	-142.14	-653.9	-316.5	645.7	592.1	53.63	12.041	
8,400.0	8,392.2	8,168.0	8,162.3	27.1	28.7	-142.41	-659.6	-317.2	658.8	605.5	53.33	12.352	
8,455.0	8,447.2	8,199.0	8,190.6	27.3	28.7	-142.99	-672.1	-318.9	678.6	625.5	53.10	12.779	
8,500.0	8,492.2	8,211.0	8,201.4	27.5	28.7	-143.21	-677.3	-319.7	696.4	643.8	52.60	13.239	
8,550.0	8,542.2	8,231.0	8,219.0	27.7	28.7	-143.57	-686.6	-321.6	718.1	665.9	52.18	13.761	
8,600.0	8,592.2	8,242.7	8,229.1	27.8	28.7	-143.78	-692.4	-322.9	741.5	689.9	51.55	14.384	
8,645.0	8,637.2	8,263.0	8,246.2	28.0	28.8	-144.15	-703.0	-325.5	764.1	712.9	51.24	14.912	
8,700.0	8,692.2	8,273.2	8,254.7	28.2	28.8	-144.33	-708.6	-326.9	793.3	742.8	50.47	15.719	
8,740.0	8,732.2	8,295.0	8,272.2	28.3	28.8	-144.71	-721.0	-330.3	815.8	765.5	50.32	16.214	
8,800.0	8,792.2	8,304.7	8,279.9	28.5	28.8	-144.88	-726.8	-331.9	850.7	801.3	49.46	17.200	
8,835.0	8,827.2	8,316.3	8,288.8	28.7	28.8	-145.10	-733.9	-333.7	872.0	822.8	49.15	17.742	
8,900.0	8,892.2	8,339.5	8,306.4	28.9	28.9	-145.55	-748.6	-337.2	912.8	864.1	48.64	18.766	
8,930.0	8,922.2	8,358.0	8,320.0	29.0	28.9	-145.95	-761.0	-339.6	932.1	883.5	48.63	19.169	
9,000.0	8,992.2	8,378.5	8,334.6	29.2	28.9	-146.43	-775.1	-341.8	978.2	930.2	48.01	20.374	
9,025.0	9,017.2	8,390.0	8,342.7	29.3	28.9	-146.71	-783.2	-342.9	995.0	947.1	47.91	20.767	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 8689-MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	26.31	251.4	124.3	280.5					
1.0	1.0	0.0	0.0	3.0	3.0	26.31	251.4	124.3	280.5					
35.7	35.7	30.1	30.1	3.0	3.0	73.28	251.4	124.3	280.4	274.4	6.00	46.740		
95.0	95.0	89.4	89.4	3.0	3.0	73.32	251.4	124.3	280.4	274.4	6.00	46.727		
101.0	101.0	95.4	95.4	3.0	3.0	73.32	251.4	124.3	280.4	274.4	6.00	46.725		
126.0	126.0	120.4	120.4	3.0	3.0	89.74	251.4	124.3	280.3	274.3	6.00	46.716		
151.0	151.0	145.4	145.4	3.0	3.0	82.14	251.4	124.3	280.3	274.3	6.00	46.706		
176.0	176.0	170.4	170.4	3.0	3.0	72.87	251.4	124.3	280.3	274.3	6.00	46.687		
190.0	190.0	184.4	184.4	3.0	3.0	65.15	251.4	124.3	280.3	274.3	6.00	46.672		
201.0	201.0	195.4	195.4	3.0	3.0	61.26	251.4	124.3	280.2	274.2	6.01	46.656		
226.0	226.0	220.4	220.4	3.0	3.0	51.41	251.4	124.3	280.1	274.1	6.01	46.612		
251.0	251.0	245.4	245.4	3.0	3.0	45.80	251.4	124.3	279.9	273.9	6.01	46.559		
276.0	276.0	270.4	270.4	3.0	3.0	55.80	251.4	124.3	279.7	273.7	6.02	46.500		
285.0	285.0	279.4	279.4	3.0	3.0	58.51	251.4	124.3	279.7	273.6	6.02	46.480		
301.0	301.0	295.4	295.4	3.0	3.0	62.71	251.4	124.3	279.6	273.5	6.02	46.443		
326.0	326.0	320.4	320.4	3.0	3.0	70.86	251.4	124.3	279.4	273.4	6.02	46.387		
351.0	351.0	345.4	345.4	3.0	3.0	76.71	251.4	124.3	279.3	273.3	6.03	46.334		
376.0	376.0	370.4	370.4	3.0	3.0	78.44	251.4	124.3	279.2	273.2	6.03	46.283		
380.0	380.0	374.4	374.4	3.0	3.0	77.70	251.4	124.3	279.2	273.2	6.03	46.274		
401.0	401.0	395.4	395.4	3.0	3.0	73.62	251.4	124.3	279.1	273.1	6.04	46.226		
426.0	426.0	420.4	420.4	3.0	3.0	78.05	251.4	124.3	279.0	273.0	6.04	46.165		
451.0	451.0	445.4	445.4	3.0	3.0	81.87	251.4	124.3	279.0	272.9	6.05	46.106		
469.1	469.1	463.5	463.5	3.0	3.0	90.00	251.4	124.3	279.0	272.9	6.06	46.068	CC, ES	
475.0	475.0	469.4	469.4	3.0	3.0	92.55	251.4	124.3	279.0	272.9	6.06	46.057		
476.0	476.0	470.4	470.4	3.0	3.0	92.98	251.4	124.3	279.0	272.9	6.06	46.055		
501.0	501.0	495.4	495.4	3.1	3.1	91.43	251.4	124.3	279.0	272.9	6.06	46.007		
526.0	526.0	520.4	520.4	3.1	3.1	95.47	251.4	124.3	279.0	272.9	6.07	45.958		
551.0	551.0	545.4	545.4	3.1	3.1	100.98	251.4	124.3	279.1	273.0	6.08	45.914		
570.0	570.0	564.4	564.4	3.1	3.1	105.80	251.4	124.3	279.1	273.1	6.08	45.884		
576.0	576.0	570.4	570.4	3.1	3.1	107.36	251.4	124.3	279.2	273.1	6.09	45.876		
601.0	601.0	595.4	595.4	3.1	3.1	110.73	251.4	124.3	279.3	273.2	6.09	45.840		
626.0	625.9	620.3	620.3	3.1	3.1	119.13	251.4	124.3	279.5	273.4	6.10	45.809		
651.0	650.9	645.3	645.3	3.1	3.1	115.82	251.4	124.3	279.7	273.6	6.11	45.775		
665.0	664.9	659.3	659.3	3.1	3.1	118.99	251.4	124.3	279.8	273.7	6.12	45.754		
676.0	675.9	670.3	670.3	3.1	3.1	121.34	251.4	124.3	279.9	273.8	6.12	45.738		
701.0	700.9	695.3	695.3	3.1	3.1	127.74	251.4	124.3	280.1	274.0	6.13	45.706		
726.0	725.9	720.3	720.3	3.1	3.1	138.06	251.4	124.3	280.4	274.3	6.14	45.679		
751.0	750.9	745.3	745.3	3.1	3.1	145.52	251.4	124.3	280.7	274.6	6.15	45.658		
760.0	759.9	754.3	754.3	3.1	3.1	143.29	251.4	124.3	280.9	274.7	6.15	45.651		
776.0	775.9	770.3	770.3	3.1	3.1	139.57	251.4	124.3	281.1	274.9	6.16	45.636		
801.0	800.9	795.3	795.3	3.1	3.2	143.64	251.4	124.3	281.5	275.3	6.17	45.614		
826.0	825.9	820.3	820.3	3.1	3.2	152.14	251.4	124.3	281.9	275.7	6.18	45.595		
851.0	850.9	845.3	845.3	3.1	3.2	140.60	251.4	124.3	282.3	276.1	6.20	45.571		
855.0	854.9	849.3	849.3	3.1	3.2	141.86	251.4	124.3	282.4	276.2	6.20	45.566		
876.0	875.9	870.3	870.3	3.2	3.2	148.47	251.4	124.3	282.7	276.5	6.21	45.542		
901.0	900.9	895.3	895.3	3.2	3.2	150.89	251.4	124.3	283.2	276.9	6.22	45.511		
926.0	925.9	920.3	920.3	3.2	3.2	144.29	251.4	124.3	283.5	277.3	6.24	45.466		
950.0	949.9	944.3	944.3	3.2	3.2	138.47	251.4	124.3	283.8	277.5	6.25	45.407		
1,000.0	999.9	994.3	994.3	3.2	3.2	138.55	251.4	124.3	284.2	277.9	6.28	45.287		
1,045.0	1,044.9	1,039.3	1,039.3	3.2	3.3	138.63	251.4	124.3	284.6	278.3	6.31	45.144		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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		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)			
1,054.0	1,053.9	1,048.3	1,048.3	3.2	3.3	138.64	251.4	124.3	284.7	278.4	6.31	45.115	
1,100.0	1,099.9	1,094.3	1,094.3	3.2	3.3	138.72	251.4	124.3	285.1	278.8	6.35	44.896	
1,140.0	1,139.9	1,134.3	1,134.3	3.3	3.3	138.78	251.4	124.3	285.5	279.1	6.39	44.650	
1,154.0	1,153.9	1,148.3	1,148.3	3.3	3.3	138.80	251.4	124.3	285.6	279.2	6.41	44.560	
1,200.0	1,199.9	1,194.3	1,194.3	3.3	3.3	138.87	251.4	124.3	286.0	279.5	6.47	44.201	
1,235.0	1,234.9	1,229.3	1,229.3	3.3	3.4	138.90	251.4	124.3	286.2	279.6	6.53	43.832	
1,294.0	1,293.9	1,288.3	1,288.3	3.4	3.4	28.95	251.4	124.3	286.3	279.6	6.64	43.147	
1,300.0	1,299.9	1,294.3	1,294.3	3.4	3.4	28.95	251.4	124.3	286.3	279.6	6.65	43.080	
1,330.0	1,329.9	1,324.3	1,324.3	3.5	3.4	28.95	251.4	124.3	286.3	279.6	6.71	42.675	
1,400.0	1,399.9	1,394.3	1,394.3	3.6	3.5	28.95	251.4	124.3	286.3	279.4	6.86	41.712	
1,425.0	1,424.9	1,419.3	1,419.3	3.6	3.5	28.95	251.4	124.3	286.3	279.3	6.94	41.243	
1,500.0	1,499.9	1,494.3	1,494.3	3.8	3.5	28.95	251.4	124.3	286.3	279.1	7.18	39.886	
1,520.0	1,519.9	1,514.3	1,514.3	3.8	3.6	28.95	251.4	124.3	286.3	279.0	7.24	39.537	
1,600.0	1,599.9	1,594.3	1,594.3	4.0	3.6	28.95	251.4	124.3	286.3	278.8	7.51	38.116	
1,615.0	1,614.9	1,609.3	1,609.3	4.1	3.6	28.95	251.4	124.3	286.3	278.7	7.56	37.861	
1,700.0	1,699.9	1,694.3	1,694.3	4.3	3.7	28.95	251.4	124.3	286.3	278.4	7.86	36.424	
1,710.0	1,709.9	1,704.3	1,704.3	4.3	3.7	28.95	251.4	124.3	286.3	278.4	7.90	36.261	
1,800.0	1,799.9	1,794.3	1,794.3	4.6	3.8	28.95	251.4	124.3	286.3	278.1	8.22	34.819	
1,805.0	1,804.9	1,799.3	1,799.3	4.6	3.8	28.95	251.4	124.3	286.3	278.0	8.24	34.742	
1,900.0	1,899.9	1,894.3	1,894.3	4.9	3.8	28.95	251.4	124.3	286.3	277.7	8.60	33.307	
1,995.0	1,994.9	1,989.3	1,989.3	5.2	3.9	28.95	251.4	124.3	286.3	277.3	8.96	31.955	
2,000.1	2,000.0	1,994.4	1,994.4	5.2	3.9	28.95	251.4	124.3	286.3	277.3	8.98	31.884	
2,090.0	2,089.9	2,087.1	2,087.1	5.5	4.1	-127.48	250.4	125.2	286.7	277.4	9.32	30.765	
2,100.0	2,099.9	2,097.5	2,097.5	5.5	4.1	-127.47	250.2	125.4	286.8	277.5	9.35	30.667	
2,185.0	2,184.7	2,185.4	2,185.2	6.0	4.7	-127.33	246.9	128.3	288.0	278.0	10.04	28.693	
2,200.0	2,199.7	2,200.9	2,200.7	6.1	4.8	-127.29	246.2	129.0	288.3	278.1	10.16	28.382	
2,250.1	2,249.7	2,252.7	2,252.3	6.3	5.1	-127.14	243.1	131.7	289.4	278.9	10.45	27.679	
2,280.0	2,279.4	2,283.5	2,283.1	6.3	5.3	-127.03	241.0	133.7	290.1	279.4	10.61	27.333	
2,300.0	2,299.4	2,304.1	2,303.5	6.4	5.4	-126.92	239.4	135.1	290.4	279.7	10.71	27.112	
2,375.0	2,374.1	2,379.0	2,378.0	6.6	5.6	-126.48	233.6	140.3	291.9	280.8	11.07	26.377	
2,400.0	2,399.0	2,404.0	2,402.9	6.7	5.7	-126.34	231.6	142.0	292.4	281.2	11.18	26.144	
2,470.0	2,468.7	2,474.0	2,472.5	6.9	5.8	-125.94	226.2	146.9	293.7	282.2	11.51	25.518	
2,500.0	2,498.6	2,503.9	2,502.3	7.0	5.8	-125.77	223.8	149.0	294.3	282.6	11.65	25.257	
2,565.0	2,563.4	2,568.9	2,566.9	7.2	5.9	-125.40	218.8	153.5	295.6	283.6	11.97	24.687	
2,600.0	2,598.2	2,603.9	2,601.7	7.3	6.0	-125.21	216.1	156.0	296.3	284.1	12.15	24.389	
2,660.0	2,658.0	2,663.8	2,661.3	7.5	6.1	-124.88	211.4	160.2	297.5	285.0	12.46	23.878	
2,700.0	2,697.8	2,703.8	2,701.0	7.6	6.2	-124.65	208.3	162.9	298.3	285.6	12.67	23.548	
2,755.0	2,752.6	2,758.8	2,755.7	7.8	6.3	-124.35	204.0	166.8	299.4	286.4	12.96	23.096	
2,800.0	2,797.5	2,803.7	2,800.4	7.9	6.4	-124.11	200.5	169.9	300.3	287.1	13.21	22.739	
2,850.0	2,847.3	2,853.7	2,850.1	8.1	6.5	-123.84	196.6	173.4	301.3	287.8	13.48	22.346	
2,900.0	2,897.1	2,903.7	2,899.8	8.3	6.6	-123.57	192.7	176.9	302.3	288.6	13.76	21.966	
2,945.0	2,941.9	2,948.7	2,944.6	8.4	6.7	-123.33	189.2	180.0	303.3	289.3	14.02	21.629	
3,000.0	2,996.7	3,003.6	2,999.2	8.6	6.8	-123.03	184.9	183.9	304.4	290.1	14.34	21.232	
3,040.0	3,036.6	3,043.6	3,039.0	8.7	6.9	-122.82	181.8	186.6	305.3	290.7	14.57	20.947	
3,100.0	3,096.3	3,103.6	3,098.6	8.9	7.0	-122.51	177.2	190.8	306.5	291.6	14.93	20.536	
3,135.0	3,131.2	3,138.5	3,133.4	9.1	7.1	-122.33	174.4	193.3	307.3	292.1	15.14	20.300	
3,200.0	3,195.9	3,203.5	3,198.0	9.3	7.3	-121.99	169.4	197.8	308.7	293.1	15.53	19.878	
3,230.0	3,225.8	3,233.5	3,227.8	9.4	7.4	-121.84	167.0	199.9	309.3	293.6	15.71	19.687	
3,300.0	3,295.6	3,303.4	3,297.4	9.6	7.6	-121.48	161.6	204.8	310.8	294.7	16.14	19.258	
3,325.0	3,320.5	3,328.4	3,322.2	9.7	7.6	-121.35	159.7	206.5	311.4	295.1	16.29	19.108	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,400.0	3,395.2	3,403.4	3,396.8	10.0	7.8	-120.98	153.8	211.7	313.0	296.2	16.76	18.673	
3,420.0	3,415.1	3,423.4	3,416.7	10.0	7.9	-120.88	152.3	213.1	313.4	296.5	16.89	18.560	
3,500.0	3,494.8	3,503.3	3,496.2	10.3	8.1	-120.48	146.0	218.7	315.2	297.8	17.39	18.123	
3,515.0	3,509.7	3,518.3	3,511.1	10.3	8.1	-120.41	144.9	219.8	315.5	298.0	17.49	18.043	
3,600.0	3,594.4	3,603.3	3,595.6	10.6	8.4	-119.99	138.3	225.7	317.4	299.4	18.03	17.604	
3,610.0	3,604.4	3,613.3	3,605.5	10.7	8.4	-119.94	137.5	226.4	317.6	299.6	18.10	17.554	
3,700.0	3,694.0	3,703.2	3,695.0	11.0	8.7	-119.51	130.5	232.7	319.7	301.0	18.68	17.116	
3,705.0	3,699.0	3,708.2	3,699.9	11.0	8.7	-119.48	130.1	233.0	319.8	301.1	18.71	17.093	
3,800.0	3,793.7	3,803.1	3,794.4	11.3	9.0	-119.03	122.7	239.6	321.9	302.6	19.33	16.657	
3,895.0	3,888.3	3,898.1	3,888.8	11.7	9.2	-118.58	115.3	246.3	324.1	304.2	19.95	16.245	
3,900.0	3,893.3	3,903.1	3,893.7	11.7	9.3	-118.56	114.9	246.6	324.2	304.3	19.98	16.224	
3,990.0	3,982.9	3,993.0	3,983.2	12.0	9.5	-118.14	107.9	252.9	326.3	305.7	20.58	15.853	
4,007.7	4,000.6	4,010.7	4,000.8	12.1	9.6	-118.06	106.5	254.1	326.7	306.0	20.70	15.782	
4,085.0	4,077.6	4,088.0	4,077.6	12.3	9.8	-117.64	100.5	259.5	328.3	307.1	21.21	15.476	
4,100.0	4,092.6	4,102.9	4,092.5	12.4	9.9	-117.54	99.4	260.5	328.5	307.2	21.31	15.416	
4,180.0	4,172.4	4,182.8	4,172.0	12.7	10.1	-116.91	93.1	266.1	329.6	307.8	21.83	15.095	
4,200.0	4,192.4	4,202.8	4,191.8	12.7	10.2	-116.72	91.6	267.5	329.8	307.8	21.96	15.015	
4,275.0	4,267.3	4,277.7	4,266.3	13.0	10.4	-115.93	85.8	272.7	330.3	307.8	22.45	14.711	
4,300.0	4,292.3	4,302.6	4,291.1	13.1	10.5	-115.63	83.8	274.5	330.3	307.7	22.61	14.609	
4,370.0	4,362.2	4,372.4	4,360.5	13.3	10.7	-114.70	78.4	279.3	330.4	307.3	23.06	14.327	
4,400.0	4,392.2	4,402.3	4,390.2	13.4	10.8	-114.26	76.1	281.4	330.3	307.0	23.25	14.206	
4,465.0	4,457.2	4,467.0	4,454.6	13.6	11.0	-113.23	71.0	285.9	330.0	306.3	23.64	13.959	
4,507.8	4,500.0	4,509.6	4,496.9	13.8	11.2	43.98	67.7	288.9	329.7	305.8	23.89	13.798	
4,560.0	4,552.2	4,561.5	4,548.6	13.9	11.3	44.92	63.7	292.5	329.3	305.1	24.21	13.601	
4,600.0	4,592.2	4,601.3	4,588.1	14.1	11.4	45.64	60.6	295.3	329.1	304.7	24.46	13.456	
4,655.0	4,647.2	4,656.0	4,642.5	14.2	11.6	46.64	56.3	299.1	328.9	304.1	24.80	13.264	
4,700.0	4,692.2	4,700.7	4,687.0	14.4	11.8	47.45	52.8	302.3	328.8	303.8	25.08	13.114	
4,737.7	4,730.0	4,738.3	4,724.4	14.5	11.9	48.13	49.9	304.9	328.8	303.5	25.31	12.991	
4,750.0	4,742.2	4,750.5	4,736.5	14.5	11.9	48.36	49.0	305.7	328.8	303.4	25.39	12.952	
4,800.0	4,792.2	4,800.2	4,786.0	14.7	12.1	49.26	45.1	309.2	328.9	303.2	25.70	12.798	
4,845.0	4,837.2	4,845.0	4,830.5	14.9	12.2	50.08	41.6	312.3	329.0	303.0	25.98	12.664	
4,900.0	4,892.2	4,899.7	4,884.9	15.0	12.4	51.07	37.3	316.1	329.2	302.9	26.32	12.507	
4,940.0	4,932.2	4,939.4	4,924.4	15.2	12.6	51.79	34.2	318.9	329.5	302.9	26.58	12.398	
5,000.0	4,992.2	4,999.1	4,983.8	15.4	12.8	52.87	29.6	323.1	330.0	303.0	26.95	12.241	
5,035.0	5,027.2	5,033.9	5,018.4	15.5	12.9	53.50	26.9	325.5	330.3	303.1	27.18	12.153	
5,100.0	5,092.2	5,098.6	5,082.7	15.7	13.1	54.67	21.9	330.0	331.0	303.4	27.59	11.997	
5,130.0	5,122.2	5,128.4	5,112.3	15.8	13.2	55.20	19.5	332.1	331.4	303.6	27.78	11.928	
5,200.0	5,192.2	5,198.0	5,181.6	16.1	13.4	56.45	14.1	336.9	332.3	304.1	28.23	11.774	
5,225.0	5,217.2	5,222.9	5,206.3	16.1	13.5	56.89	12.2	338.7	332.7	304.3	28.39	11.722	
5,300.0	5,292.2	5,297.5	5,280.5	16.4	13.8	58.21	6.4	343.9	334.0	305.2	28.87	11.571	
5,320.0	5,312.2	5,317.4	5,300.3	16.5	13.8	58.56	4.8	345.3	334.4	305.4	29.00	11.533	
5,400.0	5,392.2	5,396.9	5,379.4	16.7	14.1	59.96	-1.4	350.8	336.0	306.5	29.51	11.386	
5,415.0	5,407.2	5,411.8	5,394.2	16.8	14.2	60.22	-2.5	351.9	336.3	306.7	29.61	11.360	
5,500.0	5,492.2	5,496.4	5,478.3	17.1	14.4	61.68	-9.1	357.8	338.3	308.2	30.16	11.218	
5,510.0	5,502.2	5,506.3	5,488.2	17.1	14.5	61.86	-9.9	358.4	338.6	308.4	30.22	11.202	
5,600.0	5,592.2	5,595.8	5,577.2	17.4	14.8	63.38	-16.8	364.7	340.9	310.1	30.81	11.066	
5,605.0	5,597.2	5,600.8	5,582.2	17.4	14.8	63.47	-17.2	365.0	341.1	310.2	30.84	11.058	
5,700.0	5,692.2	5,695.3	5,676.1	17.7	15.1	65.06	-24.6	371.6	343.9	312.4	31.47	10.928	
5,795.0	5,787.2	5,789.7	5,770.1	18.1	15.4	66.62	-31.9	378.2	346.9	314.8	32.09	10.810	
5,800.0	5,792.2	5,794.7	5,775.0	18.1	15.5	66.70	-32.3	378.6	347.1	314.9	32.12	10.804	

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

ConocoPhillips

Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,890.0	5,882.2	5,884.2	5,864.0	18.4	15.8	68.15	-39.3	384.8	350.2	317.5	32.72	10.703	
5,900.0	5,892.2	5,894.2	5,873.9	18.4	15.8	68.31	-40.1	385.5	350.5	317.8	32.78	10.692	
5,985.0	5,977.2	5,978.7	5,958.0	18.7	16.1	69.66	-46.7	391.4	353.7	320.4	33.35	10.606	
6,000.0	5,992.2	5,993.6	5,972.8	18.8	16.1	69.89	-47.8	392.4	354.3	320.8	33.45	10.592	
6,080.0	6,072.2	6,073.2	6,052.0	19.0	16.4	71.13	-54.0	398.0	357.5	323.5	33.98	10.520	
6,100.0	6,092.2	6,093.1	6,071.8	19.1	16.5	71.44	-55.6	399.4	358.3	324.2	34.12	10.503	
6,175.0	6,167.2	6,167.7	6,145.9	19.4	16.7	72.57	-61.4	404.6	361.5	326.9	34.62	10.442	
6,200.0	6,192.2	6,192.5	6,170.7	19.5	16.8	72.95	-63.3	406.3	362.6	327.8	34.79	10.424	
6,270.0	6,262.2	6,262.1	6,239.9	19.7	17.1	73.98	-68.7	411.2	365.7	330.5	35.26	10.373	
6,300.0	6,292.2	6,292.0	6,269.6	19.8	17.2	74.42	-71.0	413.3	367.1	331.7	35.46	10.353	
6,365.0	6,357.2	6,356.6	6,333.9	20.0	17.4	75.36	-76.1	417.8	370.2	334.3	35.90	10.312	
6,400.0	6,392.2	6,391.4	6,368.5	20.2	17.5	75.86	-78.8	420.2	371.9	335.8	36.14	10.292	
6,460.0	6,452.2	6,451.1	6,427.8	20.4	17.7	76.70	-83.4	424.4	374.9	338.3	36.54	10.258	
6,500.0	6,492.2	6,490.9	6,467.4	20.5	17.9	77.26	-86.5	427.1	376.9	340.1	36.81	10.238	
6,555.0	6,547.2	6,545.6	6,521.8	20.7	18.1	78.01	-90.8	430.9	379.7	342.5	37.19	10.211	
6,600.0	6,592.2	6,590.3	6,566.3	20.8	18.2	78.62	-94.3	434.1	382.1	344.6	37.49	10.191	
6,650.0	6,642.2	6,640.1	6,615.7	21.0	18.4	79.29	-98.1	437.5	384.8	347.0	37.84	10.170	
6,700.0	6,692.2	6,689.8	6,665.2	21.2	18.6	79.95	-102.0	441.0	387.5	349.4	38.18	10.151	
6,745.0	6,737.2	6,734.5	6,709.7	21.3	18.7	80.53	-105.5	444.1	390.1	351.6	38.49	10.135	
6,800.0	6,792.2	6,789.2	6,764.1	21.5	18.9	81.24	-109.7	447.9	393.2	354.3	38.86	10.117	
6,840.0	6,832.2	6,829.8	6,804.4	21.7	19.1	81.75	-112.9	450.8	395.5	356.3	39.14	10.103	
6,900.0	6,892.2	6,891.9	6,866.3	21.9	19.3	82.46	-117.3	454.7	398.7	359.1	39.57	10.076	
6,935.0	6,927.2	6,928.2	6,902.5	22.0	19.4	82.84	-119.7	456.8	400.4	360.6	39.82	10.056	
7,000.0	6,992.2	6,995.8	6,969.8	22.2	19.6	83.45	-123.6	460.3	403.3	363.0	40.28	10.013	
7,030.0	7,022.2	7,027.0	7,000.9	22.3	19.8	83.70	-125.2	461.8	404.5	364.0	40.49	9.991	
7,100.0	7,092.2	7,099.9	7,073.7	22.6	20.0	84.21	-128.5	464.7	407.0	366.0	40.99	9.930	
7,125.0	7,117.2	7,125.9	7,099.7	22.7	20.1	84.36	-129.5	465.6	407.8	366.6	41.16	9.906	
7,200.0	7,192.2	7,204.2	7,177.9	22.9	20.4	84.74	-132.0	467.9	409.7	368.0	41.70	9.825	
7,220.0	7,212.2	7,225.1	7,198.7	23.0	20.4	84.82	-132.5	468.3	410.1	368.2	41.84	9.802	
7,300.0	7,292.2	7,308.6	7,282.3	23.3	20.7	85.05	-134.0	469.7	411.3	368.9	42.40	9.700	
7,315.0	7,307.2	7,324.3	7,298.0	23.3	20.8	85.08	-134.2	469.9	411.4	368.9	42.50	9.680	
7,400.0	7,392.2	7,413.0	7,386.6	23.6	21.0	85.15	-134.7	470.3	411.8	368.7	43.09	9.557	
7,410.0	7,402.2	7,423.0	7,396.6	23.7	21.1	85.15	-134.7	470.3	411.8	368.6	43.15	9.542	
7,500.0	7,492.2	7,513.0	7,486.6	24.0	21.4	85.15	-134.7	470.3	411.8	368.0	43.76	9.410	
7,505.0	7,497.2	7,518.0	7,491.6	24.0	21.4	85.15	-134.7	470.3	411.8	368.0	43.79	9.403	
7,600.0	7,592.2	7,613.0	7,586.6	24.3	21.7	85.15	-134.7	470.3	411.8	367.4	44.43	9.268	
7,695.0	7,687.2	7,708.0	7,681.6	24.7	22.0	85.15	-134.7	470.3	411.8	366.7	45.07	9.136	
7,700.0	7,692.2	7,713.0	7,686.6	24.7	22.0	85.15	-134.7	470.3	411.8	366.7	45.11	9.129	
7,790.0	7,782.2	7,803.0	7,776.6	25.0	22.3	85.15	-134.7	470.3	411.8	366.1	45.72	9.007	
7,800.0	7,792.2	7,813.0	7,786.6	25.0	22.3	85.15	-134.7	470.3	411.8	366.0	45.78	8.994	
7,885.0	7,877.2	7,898.0	7,871.6	25.3	22.5	85.15	-134.7	470.3	411.8	365.4	46.36	8.882	
7,900.0	7,892.2	7,913.0	7,886.6	25.4	22.6	85.15	-134.7	470.3	411.8	365.3	46.46	8.863	
7,980.0	7,972.2	7,993.0	7,966.6	25.7	22.8	85.15	-134.7	470.3	411.8	364.8	47.01	8.760	
8,000.0	7,992.2	8,013.0	7,986.6	25.7	22.9	85.15	-134.7	470.3	411.8	364.6	47.14	8.735	
8,075.0	8,067.2	8,088.0	8,061.6	26.0	23.1	85.15	-134.7	470.3	411.8	364.1	47.65	8.641	
8,100.0	8,092.2	8,113.0	8,086.6	26.1	23.2	85.15	-134.7	470.3	411.8	364.0	47.82	8.611	
8,170.0	8,162.2	8,183.0	8,156.6	26.3	23.4	85.15	-134.7	470.3	411.8	363.5	48.30	8.526	
8,200.0	8,192.2	8,213.0	8,186.6	26.4	23.5	85.15	-134.7	470.3	411.8	363.3	48.50	8.490	
8,265.0	8,257.2	8,278.0	8,251.6	26.7	23.7	85.15	-134.7	470.3	411.8	362.8	48.95	8.413	
8,300.0	8,292.2	8,313.0	8,286.6	26.8	23.9	85.15	-134.7	470.3	411.8	362.6	49.19	8.372	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)				
8,360.0	8,352.2	8,373.0	8,346.6	27.0	24.1	85.15	-134.7	470.3	411.8	362.2	49.60	8.303		
8,400.0	8,392.2	8,413.0	8,386.6	27.1	24.2	85.15	-134.7	470.3	411.8	361.9	49.87	8.257		
8,455.0	8,447.2	8,468.0	8,441.6	27.3	24.4	85.15	-134.7	470.3	411.8	361.5	50.25	8.195		
8,500.0	8,492.2	8,513.0	8,486.6	27.5	24.5	85.15	-134.7	470.3	411.8	361.2	50.56	8.145		
8,550.0	8,542.2	8,563.0	8,536.6	27.7	24.7	85.15	-134.7	470.3	411.8	360.9	50.90	8.090		
8,600.0	8,592.2	8,613.0	8,586.6	27.8	24.8	85.15	-134.7	470.3	411.8	360.5	51.24	8.036		
8,645.0	8,637.2	8,658.0	8,631.6	28.0	25.0	85.15	-134.7	470.3	411.8	360.2	51.55	7.988		
8,645.6	8,637.8	8,658.5	8,632.2	28.0	25.0	85.15	-134.7	470.3	411.8	360.2	51.55	7.988		
8,700.0	8,692.2	8,711.4	8,685.0	28.2	25.1	85.07	-134.2	470.3	411.8	360.0	51.87	7.940		
8,740.0	8,732.2	8,748.5	8,722.0	28.3	25.1	84.63	-131.0	470.3	412.1	360.1	52.02	7.922		
8,800.0	8,792.2	8,802.7	8,775.3	28.5	25.1	83.28	-121.2	470.2	413.2	361.0	52.27	7.907 SF		
8,835.0	8,827.2	8,833.1	8,804.6	28.7	25.2	82.16	-113.1	470.2	414.4	362.0	52.41	7.908		
8,900.0	8,892.2	8,886.4	8,854.4	28.9	25.2	79.62	-94.4	470.1	418.2	365.5	52.65	7.943		
8,930.0	8,922.2	8,909.4	8,875.3	29.0	25.2	78.31	-84.7	470.1	420.8	368.1	52.73	7.980		
9,000.0	8,992.2	8,959.0	8,918.4	29.2	25.3	75.09	-60.3	470.0	429.7	376.9	52.82	8.135		
9,025.0	9,017.2	8,975.0	8,931.8	29.3	25.3	73.94	-51.5	469.9	434.0	381.2	52.80	8.219		
9,100.0	9,092.2	9,019.9	8,967.6	29.6	25.3	70.51	-24.5	469.8	450.7	398.2	52.56	8.576		
9,120.0	9,112.2	9,030.7	8,975.9	29.7	25.3	69.64	-17.5	469.8	456.2	403.8	52.44	8.700		
9,200.0	9,192.2	9,070.1	9,004.6	30.0	25.3	66.38	9.6	469.7	482.8	431.0	51.74	9.330		
9,215.0	9,207.2	9,075.0	9,007.9	30.0	25.4	65.97	13.1	469.7	488.6	437.0	51.54	9.480		
9,300.0	9,292.2	9,111.5	9,032.1	30.3	25.4	62.85	40.5	469.6	525.9	475.5	50.49	10.417		
9,310.0	9,302.2	9,115.2	9,034.4	30.3	25.4	62.54	43.3	469.5	530.8	480.5	50.35	10.543		
9,400.0	9,392.2	9,150.0	9,055.2	30.7	25.4	59.55	71.2	469.4	579.1	530.0	49.11	11.793		
9,405.0	9,397.2	9,150.0	9,055.2	30.7	25.4	59.55	71.2	469.4	582.0	533.0	49.00	11.878		
9,500.0	9,492.2	9,175.0	9,068.9	31.0	25.4	57.41	92.1	469.3	640.7	593.2	47.53	13.479		
9,595.0	9,587.2	9,200.0	9,081.5	31.3	25.4	55.31	113.7	469.2	705.6	659.3	46.26	15.251		
9,600.0	9,592.2	9,200.0	9,081.5	31.4	25.4	55.31	113.7	469.2	709.1	663.0	46.18	15.358		
9,690.0	9,682.2	9,216.2	9,089.0	31.7	25.4	53.97	128.1	469.2	775.4	730.4	45.04	17.215		
9,700.0	9,692.2	9,225.0	9,092.9	31.7	25.4	53.25	136.0	469.1	783.1	738.0	45.07	17.377		
9,785.0	9,777.2	9,232.9	9,096.3	32.0	25.5	52.61	143.1	469.1	849.3	805.2	44.07	19.272		
9,800.0	9,792.2	9,235.3	9,097.3	32.1	25.5	52.42	145.3	469.1	861.2	817.3	43.93	19.605		
9,880.0	9,872.2	9,250.0	9,103.1	32.4	25.5	51.25	158.8	469.0	926.3	883.0	43.31	21.388		
9,900.0	9,892.2	9,250.0	9,103.1	32.4	25.5	51.25	158.8	469.0	942.9	899.7	43.11	21.869		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
0.0	0.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3				
1.0	1.0	0.0	0.0	3.0	3.0	20.58	251.1	94.3	268.3				
36.3	36.3	30.7	30.7	3.0	3.0	67.55	251.1	94.3	268.2	262.2	6.00	44.701	
95.0	95.0	89.4	89.4	3.0	3.0	67.59	251.1	94.3	268.1	262.1	6.00	44.685	
101.0	101.0	95.4	95.4	3.0	3.0	67.60	251.1	94.3	268.1	262.1	6.00	44.683	
126.0	126.0	120.4	120.4	3.0	3.0	84.01	251.1	94.3	268.1	262.1	6.00	44.671	
151.0	151.0	145.4	145.4	3.0	3.0	76.42	251.1	94.3	268.1	262.0	6.00	44.657	
176.0	176.0	170.4	170.4	3.0	3.0	67.15	251.1	94.3	268.0	262.0	6.00	44.636	
190.0	190.0	184.4	184.4	3.0	3.0	59.43	251.1	94.3	267.9	261.9	6.01	44.619	
201.0	201.0	195.4	195.4	3.0	3.0	55.53	251.1	94.3	267.9	261.9	6.01	44.601	
226.0	226.0	220.4	220.4	3.0	3.0	45.69	251.1	94.3	267.7	261.7	6.01	44.553	
251.0	251.0	245.4	245.4	3.0	3.0	40.08	251.1	94.3	267.5	261.5	6.01	44.495	
276.0	276.0	270.4	270.4	3.0	3.0	50.07	251.1	94.3	267.3	261.3	6.02	44.432	
285.0	285.0	279.4	279.4	3.0	3.0	52.78	251.1	94.3	267.3	261.2	6.02	44.410	
301.0	301.0	295.4	295.4	3.0	3.0	56.98	251.1	94.3	267.1	261.1	6.02	44.369	
326.0	326.0	320.4	320.4	3.0	3.0	65.13	251.1	94.3	267.0	261.0	6.03	44.307	
351.0	351.0	345.4	345.4	3.0	3.0	70.98	251.1	94.3	266.8	260.8	6.03	44.247	
376.0	376.0	370.4	370.4	3.0	3.0	72.72	251.1	94.3	266.7	260.7	6.04	44.188	
380.0	380.0	374.4	374.4	3.0	3.0	71.97	251.1	94.3	266.7	260.7	6.04	44.178	
401.0	401.0	395.4	395.4	3.0	3.0	67.90	251.1	94.3	266.6	260.6	6.04	44.124	
426.0	426.0	420.4	420.4	3.0	3.0	72.32	251.1	94.3	266.5	260.4	6.05	44.056	
451.0	451.0	445.4	445.4	3.0	3.0	76.15	251.1	94.3	266.4	260.3	6.05	43.989	
475.0	475.0	469.4	469.4	3.0	3.0	86.83	251.1	94.3	266.3	260.2	6.06	43.932	
476.0	476.0	470.4	470.4	3.0	3.0	87.26	251.1	94.3	266.3	260.2	6.06	43.930	
501.0	501.0	495.4	495.4	3.1	3.1	85.71	251.1	94.3	266.3	260.2	6.07	43.874	
526.0	526.0	520.4	520.4	3.1	3.1	89.76	251.1	94.3	266.3	260.2	6.08	43.817	
527.1	527.1	521.5	521.5	3.1	3.1	89.76	251.1	94.3	266.3	260.2	6.08	43.815	
551.0	551.0	545.4	545.4	3.1	3.1	95.28	251.1	94.3	266.3	260.2	6.08	43.765	
570.0	570.0	564.4	564.4	3.1	3.1	100.10	251.1	94.3	266.3	260.2	6.09	43.729	
576.0	576.0	570.4	570.4	3.1	3.1	101.66	251.1	94.3	266.3	260.2	6.09	43.719	
601.0	601.0	595.4	595.4	3.1	3.1	105.03	251.1	94.3	266.4	260.3	6.10	43.677	
626.0	625.9	620.3	620.3	3.1	3.1	113.44	251.1	94.3	266.6	260.5	6.11	43.640	
651.0	650.9	645.3	645.3	3.1	3.1	110.14	251.1	94.3	266.7	260.6	6.12	43.601	
665.0	664.9	659.3	659.3	3.1	3.1	113.31	251.1	94.3	266.8	260.7	6.12	43.577	
676.0	675.9	670.3	670.3	3.1	3.1	115.67	251.1	94.3	266.9	260.8	6.13	43.560	
701.0	700.9	695.3	695.3	3.1	3.1	122.08	251.1	94.3	267.1	260.9	6.14	43.523	
726.0	725.9	720.3	720.3	3.1	3.1	132.41	251.1	94.3	267.3	261.2	6.15	43.494	
751.0	750.9	745.3	745.3	3.1	3.1	139.87	251.1	94.3	267.6	261.5	6.16	43.472	
760.0	759.9	754.3	754.3	3.1	3.1	137.65	251.1	94.3	267.8	261.6	6.16	43.464	
776.0	775.9	770.3	770.3	3.1	3.1	133.94	251.1	94.3	268.0	261.8	6.17	43.449	
801.0	800.9	795.3	795.3	3.1	3.2	138.02	251.1	94.3	268.3	262.2	6.18	43.426	
826.0	825.9	820.3	820.3	3.1	3.2	146.52	251.1	94.3	268.7	262.5	6.19	43.407	
851.0	850.9	845.3	845.3	3.1	3.2	135.00	251.1	94.3	269.1	262.9	6.20	43.382	
855.0	854.9	849.3	849.3	3.1	3.2	136.26	251.1	94.3	269.2	263.0	6.21	43.377	
876.0	875.9	870.3	870.3	3.2	3.2	142.88	251.1	94.3	269.5	263.3	6.22	43.353	
901.0	900.9	895.3	895.3	3.2	3.2	145.31	251.1	94.3	269.9	263.7	6.23	43.323	
926.0	925.9	920.3	920.3	3.2	3.2	138.72	251.1	94.3	270.2	264.0	6.24	43.280	
950.0	949.9	944.3	944.3	3.2	3.2	132.91	251.1	94.3	270.5	264.2	6.26	43.222	
1,000.0	999.9	994.3	994.3	3.2	3.2	133.00	251.1	94.3	270.9	264.6	6.28	43.100	
1,045.0	1,044.9	1,039.3	1,039.3	3.2	3.3	133.09	251.1	94.3	271.3	264.9	6.31	42.954	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
1,054.0	1,053.9	1,048.3	1,048.3	3.2	3.3	133.10	251.1	94.3	271.3	265.0	6.32	42.924	
1,100.0	1,099.9	1,094.3	1,094.3	3.2	3.3	133.19	251.1	94.3	271.7	265.4	6.36	42.705	
1,140.0	1,139.9	1,134.3	1,134.3	3.3	3.3	133.27	251.1	94.3	272.0	265.6	6.41	42.462	
1,154.0	1,153.9	1,148.3	1,148.3	3.3	3.3	133.29	251.1	94.3	272.2	265.7	6.42	42.374	
1,200.0	1,199.9	1,194.3	1,194.3	3.3	3.3	133.37	251.1	94.3	272.5	266.0	6.48	42.022	
1,235.0	1,234.9	1,229.3	1,229.3	3.3	3.4	133.40	251.1	94.3	272.6	266.1	6.54	41.663	
1,294.0	1,293.9	1,288.3	1,288.3	3.4	3.4	23.46	251.1	94.3	272.8	266.1	6.65	40.997	
1,300.0	1,299.9	1,294.3	1,294.3	3.4	3.4	23.46	251.1	94.3	272.8	266.1	6.66	40.933	
1,330.0	1,329.9	1,324.3	1,324.3	3.5	3.4	23.46	251.1	94.3	272.8	266.0	6.73	40.547	
1,400.0	1,399.9	1,394.3	1,394.3	3.6	3.5	23.46	251.1	94.3	272.8	265.9	6.88	39.627	
1,425.0	1,424.9	1,419.3	1,419.3	3.6	3.5	23.46	251.1	94.3	272.8	265.8	6.96	39.188	
1,500.0	1,499.9	1,494.3	1,494.3	3.8	3.5	23.46	251.1	94.3	272.8	265.6	7.20	37.907	
1,520.0	1,519.9	1,514.3	1,514.3	3.8	3.6	23.46	251.1	94.3	272.8	265.5	7.26	37.577	
1,600.0	1,599.9	1,594.3	1,594.3	4.0	3.6	23.46	251.1	94.3	272.8	265.2	7.53	36.235	
1,615.0	1,614.9	1,609.3	1,609.3	4.1	3.6	23.46	251.1	94.3	272.8	265.2	7.58	35.993	
1,700.0	1,699.9	1,694.3	1,694.3	4.3	3.7	23.46	251.1	94.3	272.8	264.9	7.88	34.631	
1,710.0	1,709.9	1,704.3	1,704.3	4.3	3.7	23.46	251.1	94.3	272.8	264.8	7.91	34.476	
1,800.0	1,799.9	1,794.3	1,794.3	4.6	3.8	23.46	251.1	94.3	272.8	264.5	8.24	33.107	
1,805.0	1,804.9	1,799.3	1,799.3	4.6	3.8	23.46	251.1	94.3	272.8	264.5	8.26	33.034	
1,900.0	1,899.9	1,894.3	1,894.3	4.9	3.8	23.46	251.1	94.3	272.8	264.1	8.61	31.669	
1,995.0	1,994.9	1,989.3	1,989.3	5.2	3.9	23.46	251.1	94.3	272.8	263.8	8.98	30.382	
2,000.1	2,000.0	1,994.4	1,994.4	5.2	3.9	23.46	251.1	94.3	272.8	263.8	9.00	30.314	
2,090.0	2,089.9	2,093.0	2,093.0	5.5	4.1	-133.20	249.6	93.9	272.4	262.9	9.46	28.802	
2,100.0	2,099.9	2,104.1	2,104.1	5.5	4.1	-133.25	249.3	93.8	272.2	262.7	9.52	28.611	
2,185.0	2,184.7	2,197.8	2,197.7	6.0	4.7	-133.85	244.5	92.5	270.7	260.0	10.67	25.380	
2,200.0	2,199.7	2,214.4	2,214.2	6.1	4.8	-133.99	243.4	92.1	270.3	259.5	10.81	25.014	
2,250.1	2,249.7	2,267.8	2,267.4	6.3	4.9	-134.54	239.1	91.0	268.9	257.9	11.07	24.301	
2,280.0	2,279.4	2,297.6	2,297.1	6.3	4.9	-134.87	236.6	90.3	268.2	257.0	11.18	23.996	
2,300.0	2,299.4	2,317.5	2,317.0	6.4	4.9	-135.10	234.9	89.8	267.7	256.4	11.25	23.791	
2,375.0	2,374.1	2,392.4	2,391.6	6.6	5.0	-135.95	228.6	88.0	265.8	254.3	11.55	23.020	
2,400.0	2,399.0	2,417.4	2,416.4	6.7	5.0	-136.23	226.5	87.5	265.2	253.6	11.65	22.759	
2,470.0	2,468.7	2,487.3	2,486.0	6.9	5.1	-137.04	220.7	85.8	263.6	251.6	11.98	22.005	
2,500.0	2,498.6	2,517.2	2,515.9	7.0	5.2	-137.39	218.2	85.1	262.9	250.8	12.12	21.689	
2,565.0	2,563.4	2,582.1	2,580.5	7.2	5.3	-138.15	212.7	83.6	261.4	249.0	12.43	21.022	
2,600.0	2,598.2	2,617.0	2,615.3	7.3	5.4	-138.57	209.8	82.8	260.6	248.0	12.61	20.673	
2,660.0	2,658.0	2,676.9	2,675.0	7.5	5.5	-139.28	204.8	81.4	259.3	246.4	12.91	20.091	
2,700.0	2,697.8	2,716.9	2,714.8	7.6	5.5	-139.76	201.4	80.5	258.5	245.4	13.11	19.714	
2,755.0	2,752.6	2,771.8	2,769.5	7.8	5.7	-140.43	196.8	79.2	257.4	244.0	13.40	19.210	
2,800.0	2,797.5	2,816.7	2,814.2	7.9	5.8	-140.98	193.0	78.1	256.5	242.9	13.64	18.811	
2,850.0	2,847.3	2,866.6	2,863.9	8.1	5.9	-141.60	188.8	77.0	255.5	241.6	13.90	18.381	
2,900.0	2,897.1	2,916.5	2,913.7	8.3	6.0	-142.22	184.6	75.8	254.6	240.4	14.17	17.965	
2,945.0	2,941.9	2,961.4	2,958.4	8.4	6.1	-142.78	180.9	74.7	253.8	239.4	14.42	17.602	
3,000.0	2,996.7	3,016.4	3,013.1	8.6	6.2	-143.47	176.3	73.5	252.8	238.1	14.72	17.175	
3,040.0	3,036.6	3,056.3	3,052.9	8.7	6.3	-143.98	172.9	72.5	252.2	237.2	14.95	16.872	
3,100.0	3,096.3	3,116.2	3,112.6	8.9	6.5	-144.74	167.9	71.1	251.2	235.9	15.28	16.437	
3,135.0	3,131.2	3,151.1	3,147.4	9.1	6.6	-145.19	164.9	70.3	250.6	235.2	15.48	16.190	
3,200.0	3,195.9	3,216.0	3,212.0	9.3	6.7	-146.02	159.5	68.8	249.7	233.8	15.85	15.749	
3,230.0	3,225.8	3,246.0	3,241.9	9.4	6.8	-146.41	157.0	68.1	249.2	233.2	16.03	15.552	
3,300.0	3,295.6	3,315.8	3,311.5	9.6	7.0	-147.33	151.1	66.5	248.3	231.8	16.43	15.109	
3,325.0	3,320.5	3,340.8	3,336.3	9.7	7.1	-147.65	149.0	65.9	247.9	231.4	16.58	14.955	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,400.0	3,395.2	3,415.7	3,410.9	10.0	7.3	-148.64	142.7	64.1	247.0	230.0	17.02	14.513	
3,420.0	3,415.1	3,435.6	3,430.8	10.0	7.4	-148.91	141.0	63.7	246.8	229.6	17.14	14.399	
3,500.0	3,494.8	3,515.5	3,510.4	10.3	7.6	-149.97	134.3	61.8	245.9	228.2	17.61	13.960	
3,515.0	3,509.7	3,530.5	3,525.3	10.3	7.6	-150.17	133.1	61.4	245.7	228.0	17.70	13.880	
3,600.0	3,594.4	3,615.3	3,609.8	10.6	7.9	-151.31	126.0	59.5	244.9	226.6	18.21	13.445	
3,610.0	3,604.4	3,625.3	3,619.8	10.7	7.9	-151.44	125.1	59.2	244.8	226.5	18.27	13.395	
3,700.0	3,694.0	3,715.2	3,709.3	11.0	8.2	-152.66	117.6	57.1	244.0	225.2	18.82	12.966	
3,705.0	3,699.0	3,720.2	3,714.2	11.0	8.2	-152.73	117.2	57.0	244.0	225.1	18.85	12.943	
3,800.0	3,793.7	3,815.0	3,808.7	11.3	8.5	-154.02	109.2	54.8	243.3	223.8	19.43	12.522	
3,895.0	3,888.3	3,909.8	3,903.2	11.7	8.8	-155.31	101.2	52.6	242.7	222.7	20.01	12.128	
3,900.0	3,893.3	3,914.8	3,908.2	11.7	8.8	-155.38	100.8	52.5	242.7	222.6	20.04	12.108	
3,990.0	3,982.9	4,004.7	3,997.7	12.0	9.1	-156.62	93.3	50.4	242.3	221.7	20.60	11.759	
4,007.7	4,000.6	4,022.4	4,015.3	12.1	9.1	-156.86	91.8	49.9	242.2	221.5	20.71	11.693	
4,085.0	4,077.6	4,099.5	4,092.2	12.3	9.4	-157.87	85.3	48.1	241.5	220.3	21.19	11.393	
4,100.0	4,092.6	4,114.5	4,107.1	12.4	9.4	-158.06	84.1	47.8	241.2	219.9	21.29	11.332	
4,180.0	4,172.4	4,194.4	4,186.7	12.7	9.7	-159.00	77.3	45.9	239.3	217.5	21.79	10.985	
4,200.0	4,192.4	4,214.3	4,206.5	12.7	9.8	-159.23	75.7	45.5	238.7	216.8	21.91	10.893	
4,275.0	4,267.3	4,289.2	4,281.1	13.0	10.0	-160.02	69.4	43.7	235.8	213.4	22.39	10.533	
4,300.0	4,292.3	4,314.2	4,306.0	13.1	10.1	-160.27	67.3	43.1	234.7	212.1	22.55	10.407	
4,370.0	4,362.2	4,384.0	4,375.6	13.3	10.3	-160.93	61.4	41.5	230.9	207.9	23.00	10.041	
4,400.0	4,392.2	4,413.9	4,405.4	13.4	10.4	-161.20	58.9	40.8	229.1	205.9	23.19	9.878	
4,465.0	4,457.2	4,478.7	4,469.9	13.6	10.6	-161.76	53.5	39.3	224.6	201.0	23.59	9.520	
4,507.8	4,500.0	4,521.3	4,512.4	13.8	10.8	-5.65	49.9	38.3	221.2	197.4	23.85	9.275	
4,560.0	4,552.2	4,573.4	4,564.2	13.9	11.0	-6.09	45.5	37.1	217.0	192.8	24.18	8.975	
4,600.0	4,592.2	4,613.2	4,603.9	14.1	11.1	-6.43	42.2	36.1	213.8	189.3	24.43	8.751	
4,655.0	4,647.2	4,668.0	4,658.5	14.2	11.3	-6.92	37.6	34.8	209.3	184.5	24.77	8.451	
4,700.0	4,692.2	4,712.8	4,703.2	14.4	11.4	-7.34	33.8	33.8	205.7	180.6	25.05	8.212	
4,750.0	4,742.2	4,762.7	4,752.8	14.5	11.6	-7.82	29.6	32.6	201.7	176.3	25.36	7.952	
4,800.0	4,792.2	4,812.5	4,802.4	14.7	11.8	-8.32	25.4	31.5	197.7	172.0	25.67	7.700	
4,845.0	4,837.2	4,857.3	4,847.1	14.9	11.9	-8.79	21.7	30.4	194.1	168.2	25.96	7.478	
4,900.0	4,892.2	4,912.1	4,901.6	15.0	12.1	-9.39	17.1	29.1	189.7	163.4	26.30	7.214	
4,940.0	4,932.2	4,951.9	4,941.3	15.2	12.2	-9.84	13.7	28.2	186.6	160.0	26.55	7.027	
5,000.0	4,992.2	5,011.7	5,000.9	15.4	12.4	-10.55	8.7	26.8	181.9	154.9	26.93	6.754	
5,035.0	5,027.2	5,046.6	5,035.6	15.5	12.6	-10.98	5.8	26.0	179.1	152.0	27.15	6.598	
5,100.0	5,092.2	5,111.3	5,100.1	15.7	12.8	-11.81	0.4	24.5	174.1	146.5	27.56	6.317	
5,130.0	5,122.2	5,141.2	5,129.9	15.8	12.9	-12.21	-2.2	23.8	171.8	144.0	27.75	6.191	
5,200.0	5,192.2	5,210.9	5,199.4	16.1	13.1	-13.19	-8.0	22.2	166.4	138.2	28.19	5.903	
5,225.0	5,217.2	5,235.9	5,224.2	16.1	13.2	-13.55	-10.1	21.6	164.5	136.1	28.34	5.803	
5,300.0	5,292.2	5,310.6	5,298.6	16.4	13.5	-14.70	-16.4	19.8	158.8	130.0	28.81	5.511	
5,320.0	5,312.2	5,330.5	5,318.4	16.5	13.5	-15.02	-18.0	19.4	157.3	128.4	28.94	5.435	
5,400.0	5,392.2	5,410.2	5,397.8	16.7	13.8	-16.36	-24.7	17.5	151.3	121.9	29.44	5.140	
5,415.0	5,407.2	5,425.1	5,412.7	16.8	13.9	-16.62	-26.0	17.1	150.2	120.7	29.54	5.086	
5,500.0	5,492.2	5,509.8	5,497.1	17.1	14.2	-18.19	-33.1	15.2	144.0	113.9	30.07	4.789	
5,510.0	5,502.2	5,519.8	5,507.0	17.1	14.2	-18.38	-33.9	14.9	143.3	113.1	30.13	4.755	
5,600.0	5,592.2	5,609.4	5,596.3	17.4	14.5	-20.22	-41.5	12.8	136.8	106.1	30.69	4.458	
5,605.0	5,597.2	5,614.4	5,601.3	17.4	14.5	-20.32	-41.9	12.7	136.5	105.7	30.73	4.442	
5,700.0	5,692.2	5,709.0	5,695.6	17.7	14.9	-22.46	-49.8	10.5	129.8	98.5	31.32	4.146	
5,795.0	5,787.2	5,803.7	5,789.8	18.1	15.2	-24.83	-57.8	8.3	123.4	91.5	31.91	3.867	
5,800.0	5,792.2	5,808.7	5,794.8	18.1	15.2	-24.96	-58.2	8.2	123.1	91.1	31.95	3.853	
5,890.0	5,882.2	5,898.3	5,884.1	18.4	15.5	-27.44	-65.7	6.1	117.2	84.7	32.51	3.606	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,900.0	5,892.2	5,908.3	5,894.0	18.4	15.6	-27.74	-66.6	5.9	116.6	84.0	32.57	3.579	
5,985.0	5,977.2	5,993.0	5,978.4	18.7	15.9	-30.35	-73.7	3.9	111.3	78.2	33.11	3.362	
6,000.0	5,992.2	6,007.9	5,993.3	18.8	15.9	-30.83	-74.9	3.5	110.4	77.2	33.20	3.325	
6,080.0	6,072.2	6,087.6	6,072.7	19.0	16.2	-33.57	-81.6	1.7	105.7	72.0	33.71	3.135	
6,100.0	6,092.2	6,107.5	6,092.5	19.1	16.3	-34.29	-83.3	1.2	104.6	70.7	33.84	3.090	
6,175.0	6,167.2	6,182.2	6,167.0	19.4	16.5	-37.13	-89.6	-0.6	100.5	66.1	34.32	2.927	
6,200.0	6,192.2	6,207.1	6,191.8	19.5	16.6	-38.13	-91.7	-1.1	99.1	64.7	34.48	2.875	
6,270.0	6,262.2	6,276.9	6,261.2	19.7	16.9	-41.07	-97.5	-2.8	95.6	60.7	34.94	2.737	
6,300.0	6,292.2	6,306.8	6,291.0	19.8	17.0	-42.39	-100.0	-3.5	94.2	59.1	35.14	2.681	
6,365.0	6,357.2	6,371.5	6,355.5	20.0	17.2	-45.40	-105.5	-5.0	91.3	55.8	35.58	2.567	
6,400.0	6,392.2	6,406.4	6,390.2	20.2	17.3	-47.09	-108.4	-5.8	89.9	54.1	35.82	2.510	
6,460.0	6,452.2	6,466.2	6,449.8	20.4	17.5	-50.12	-113.4	-7.2	87.6	51.4	36.24	2.417	
6,500.0	6,492.2	6,506.0	6,489.5	20.5	17.7	-52.22	-116.7	-8.1	86.2	49.7	36.53	2.360	
6,555.0	6,547.2	6,560.7	6,544.0	20.7	17.9	-55.18	-121.3	-9.4	84.5	47.6	36.93	2.289	
6,600.0	6,592.2	6,605.3	6,588.5	20.8	18.0	-57.47	-124.7	-10.3	83.4	46.2	37.26	2.239	
6,650.0	6,642.2	6,655.0	6,638.0	21.0	18.2	-59.81	-128.1	-11.3	82.5	44.8	37.64	2.191	
6,700.0	6,692.2	6,704.7	6,687.7	21.2	18.3	-61.91	-131.1	-12.1	81.7	43.7	38.01	2.150	
6,745.0	6,737.2	6,749.5	6,732.4	21.3	18.5	-63.58	-133.4	-12.8	81.2	42.9	38.35	2.119	
6,800.0	6,792.2	6,804.4	6,787.2	21.5	18.7	-65.30	-135.8	-13.4	80.8	42.1	38.76	2.085	
6,840.0	6,832.2	6,844.2	6,827.0	21.7	18.8	-66.34	-137.2	-13.8	80.6	41.5	39.06	2.063	
6,900.0	6,892.2	6,904.1	6,886.9	21.9	19.0	-67.54	-138.8	-14.3	80.4	40.9	39.50	2.035	
6,935.0	6,927.2	6,939.0	6,921.8	22.0	19.2	-68.03	-139.5	-14.5	80.3	40.5	39.75	2.020	
7,000.0	6,992.2	7,003.9	6,986.7	22.2	19.4	-68.55	-140.2	-14.7	80.2	40.0	40.21	1.995 Advise and Monitor	
7,030.0	7,022.2	7,033.9	7,016.6	22.3	19.5	-68.62	-140.3	-14.7	80.2	39.8	40.41	1.985 Advise and Monitor	
7,054.2	7,046.4	7,058.1	7,040.8	22.4	19.6	-68.62	-140.3	-14.7	80.2	39.6	40.57	1.977 Advise and Monitor	
7,100.0	7,092.2	7,103.9	7,086.6	22.6	19.7	-68.62	-140.3	-14.7	80.2	39.3	40.87	1.962 Advise and Monitor	
7,125.0	7,117.2	7,128.9	7,111.6	22.7	19.8	-68.62	-140.3	-14.7	80.2	39.2	41.03	1.955 Advise and Monitor	
7,200.0	7,192.2	7,203.9	7,186.6	22.9	20.0	-68.62	-140.3	-14.7	80.2	38.7	41.52	1.931 Advise and Monitor	
7,220.0	7,212.2	7,223.9	7,206.6	23.0	20.1	-68.62	-140.3	-14.7	80.2	38.5	41.65	1.925 Advise and Monitor	
7,300.0	7,292.2	7,303.9	7,286.6	23.3	20.3	-68.62	-140.3	-14.7	80.2	38.0	42.18	1.901 Advise and Monitor	
7,315.0	7,307.2	7,318.9	7,301.6	23.3	20.4	-68.62	-140.3	-14.7	80.2	37.9	42.28	1.897 Advise and Monitor	
7,400.0	7,392.2	7,403.9	7,386.6	23.6	20.6	-68.62	-140.3	-14.7	80.2	37.4	42.84	1.872 Advise and Monitor	
7,410.0	7,402.2	7,413.9	7,396.6	23.7	20.7	-68.62	-140.3	-14.7	80.2	37.3	42.90	1.869 Advise and Monitor	
7,500.0	7,492.2	7,503.9	7,486.6	24.0	20.9	-68.62	-140.3	-14.7	80.2	36.7	43.50	1.844 Advise and Monitor	
7,505.0	7,497.2	7,508.9	7,491.6	24.0	21.0	-68.62	-140.3	-14.7	80.2	36.7	43.53	1.842 Advise and Monitor	
7,600.0	7,592.2	7,603.9	7,586.6	24.3	21.3	-68.62	-140.3	-14.7	80.2	36.0	44.16	1.816 Advise and Monitor	
7,695.0	7,687.2	7,698.9	7,681.6	24.7	21.6	-68.62	-140.3	-14.7	80.2	35.4	44.79	1.790 Advise and Monitor	
7,700.0	7,692.2	7,703.9	7,686.6	24.7	21.6	-68.62	-140.3	-14.7	80.2	35.4	44.82	1.789 Advise and Monitor	
7,790.0	7,782.2	7,793.9	7,776.6	25.0	21.9	-68.62	-140.3	-14.7	80.2	34.8	45.42	1.766 Advise and Monitor	
7,800.0	7,792.2	7,803.9	7,786.6	25.0	21.9	-68.62	-140.3	-14.7	80.2	34.7	45.49	1.763 Advise and Monitor	
7,885.0	7,877.2	7,888.9	7,871.6	25.3	22.2	-68.62	-140.3	-14.7	80.2	34.1	46.06	1.741 Advise and Monitor	
7,900.0	7,892.2	7,903.9	7,886.6	25.4	22.2	-68.62	-140.3	-14.7	80.2	34.0	46.16	1.737 Advise and Monitor	
7,980.0	7,972.2	7,983.9	7,966.6	25.7	22.5	-68.62	-140.3	-14.7	80.2	33.5	46.69	1.718 Advise and Monitor	
8,000.0	7,992.2	8,003.9	7,986.6	25.7	22.5	-68.62	-140.3	-14.7	80.2	33.4	46.83	1.713 Advise and Monitor	
8,075.0	8,067.2	8,078.9	8,061.6	26.0	22.8	-68.62	-140.3	-14.7	80.2	32.9	47.33	1.694 Advise and Monitor	
8,100.0	8,092.2	8,103.9	8,086.6	26.1	22.9	-68.62	-140.3	-14.7	80.2	32.7	47.50	1.688 Advise and Monitor	
8,170.0	8,162.2	8,173.9	8,156.6	26.3	23.1	-68.62	-140.3	-14.7	80.2	32.2	47.97	1.672 Advise and Monitor	
8,200.0	8,192.2	8,203.9	8,186.6	26.4	23.2	-68.62	-140.3	-14.7	80.2	32.0	48.17	1.665 Advise and Monitor	
8,265.0	8,257.2	8,268.9	8,251.6	26.7	23.4	-68.62	-140.3	-14.7	80.2	31.6	48.61	1.650 Advise and Monitor	
8,300.0	8,292.2	8,303.9	8,286.6	26.8	23.5	-68.62	-140.3	-14.7	80.2	31.4	48.84	1.642 Advise and Monitor	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 3.0 usft		
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Ellipses	Minimum Separation	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
8,360.0	8,352.2	8,363.9	8,346.6	27.0	23.7	-68.62	-140.3	-14.7	80.2	31.0	49.25	1.628	Advise and Monitor	
8,400.0	8,392.2	8,403.9	8,386.6	27.1	23.9	-68.62	-140.3	-14.7	80.2	30.7	49.52	1.620	Advise and Monitor	
8,455.0	8,447.2	8,458.9	8,441.6	27.3	24.0	-68.62	-140.3	-14.7	80.2	30.3	49.89	1.608	Advise and Monitor	
8,500.0	8,492.2	8,503.9	8,486.6	27.5	24.2	-68.62	-140.3	-14.7	80.2	30.0	50.19	1.598	Advise and Monitor	
8,550.0	8,542.2	8,553.9	8,536.6	27.7	24.3	-68.62	-140.3	-14.7	80.2	29.7	50.53	1.587	Advise and Monitor	
8,600.0	8,592.2	8,603.9	8,586.6	27.8	24.5	-68.62	-140.3	-14.7	80.2	29.3	50.87	1.577	Advise and Monitor	
8,645.0	8,637.2	8,648.9	8,631.6	28.0	24.7	-68.62	-140.3	-14.7	80.2	29.0	51.17	1.567	Advise and Monitor	
8,700.0	8,692.2	8,703.9	8,686.6	28.2	24.8	-68.62	-140.3	-14.7	80.2	28.7	51.55	1.556	Advise and Monitor	
8,740.0	8,732.2	8,743.9	8,726.6	28.3	25.0	-68.62	-140.3	-14.7	80.2	28.4	51.82	1.548	Advise and Monitor	
8,800.0	8,792.2	8,803.9	8,786.6	28.5	25.2	-68.62	-140.3	-14.7	80.2	28.0	52.23	1.536	Advise and Monitor	
8,835.0	8,827.2	8,838.9	8,821.6	28.7	25.3	-68.62	-140.3	-14.7	80.2	27.7	52.46	1.529	Advise and Monitor	
8,900.0	8,892.2	8,903.9	8,886.6	28.9	25.5	-68.62	-140.3	-14.7	80.2	27.3	52.91	1.516	Advise and Monitor	
8,930.0	8,922.2	8,933.9	8,916.6	29.0	25.6	-68.62	-140.3	-14.7	80.2	27.1	53.11	1.510	Advise and Monitor	
8,932.5	8,924.7	8,936.3	8,919.1	29.0	25.6	-68.62	-140.3	-14.7	80.2	27.1	53.13	1.510	Advise and Monitor, CC, ES, SF	
9,000.0	8,992.2	9,001.2	8,983.9	29.2	25.7	-67.44	-138.5	-14.7	80.9	27.5	53.41	1.515	Advise and Monitor	
9,025.0	9,017.2	9,025.0	9,007.5	29.3	25.7	-65.73	-135.9	-14.7	82.0	28.6	53.43	1.536	Advise and Monitor	
9,100.0	9,092.2	9,092.0	9,073.1	29.6	25.7	-57.61	-122.1	-14.8	89.6	36.4	53.14	1.685	Advise and Monitor	
9,120.0	9,112.2	9,109.3	9,089.6	29.7	25.7	-54.96	-117.1	-14.8	92.9	39.9	52.97	1.754	Advise and Monitor	
9,200.0	9,192.2	9,175.0	9,150.5	30.0	25.8	-44.23	-92.6	-14.9	113.3	61.4	51.89	2.183		
9,215.0	9,207.2	9,185.4	9,159.8	30.0	25.8	-42.57	-88.0	-14.9	118.4	66.9	51.50	2.298		
9,300.0	9,292.2	9,244.5	9,210.7	30.3	25.8	-33.91	-57.9	-15.0	154.5	104.9	49.59	3.115		
9,310.0	9,302.2	9,250.0	9,215.2	30.3	25.8	-33.19	-54.8	-15.0	159.5	110.2	49.26	3.237		
9,400.0	9,392.2	9,300.0	9,254.7	30.7	25.8	-27.34	-24.1	-15.2	210.3	163.2	47.00	4.473		
9,405.0	9,397.2	9,305.9	9,259.1	30.7	25.8	-26.74	-20.3	-15.2	213.3	166.1	47.19	4.521		
9,500.0	9,492.2	9,350.0	9,290.7	31.0	25.8	-22.71	10.5	-15.3	276.5	231.3	45.19	6.118		
9,595.0	9,587.2	9,389.6	9,316.6	31.3	25.9	-19.77	40.4	-15.5	346.4	302.6	43.80	7.909		
9,600.0	9,592.2	9,391.4	9,317.7	31.4	25.9	-19.65	41.8	-15.5	350.3	306.5	43.73	8.009		
9,690.0	9,682.2	9,425.0	9,337.6	31.7	25.9	-17.58	69.0	-15.6	421.4	378.6	42.82	9.841		
9,700.0	9,692.2	9,425.0	9,337.6	31.7	25.9	-17.58	69.0	-15.6	429.5	386.9	42.56	10.091		
9,785.0	9,777.2	9,450.0	9,351.0	32.0	25.9	-16.26	90.0	-15.7	500.0	458.1	41.83	11.951		
9,800.0	9,792.2	9,450.0	9,351.0	32.1	25.9	-16.26	90.0	-15.7	512.7	471.1	41.56	12.335		
9,880.0	9,872.2	9,475.0	9,363.4	32.4	25.9	-15.08	111.7	-15.8	581.4	540.2	41.25	14.096		
9,900.0	9,892.2	9,475.0	9,363.4	32.4	25.9	-15.08	111.7	-15.8	598.8	557.8	40.99	14.610		
9,975.0	9,967.2	9,489.4	9,370.0	32.7	25.9	-14.46	124.5	-15.8	665.0	624.4	40.61	16.375		
10,000.0	9,992.2	9,500.0	9,374.6	32.8	25.9	-14.03	134.1	-15.9	687.4	646.7	40.68	16.897		
10,070.0	10,062.2	9,500.0	9,374.6	33.0	25.9	-14.03	134.1	-15.9	750.4	710.2	40.14	18.694		
10,100.0	10,092.2	9,510.6	9,379.1	33.1	25.9	-13.62	143.7	-15.9	777.5	737.3	40.20	19.339		
10,165.0	10,157.2	9,525.0	9,384.7	33.3	25.9	-13.10	156.9	-16.0	837.0	796.9	40.12	20.860		
10,196.3	10,188.5	9,525.0	9,384.7	33.3	25.9	-13.10	156.9	-16.0	865.8	825.8	39.96	21.665		
10,200.0	10,192.2	9,525.0	9,384.7	33.3	25.9	-10.87	156.9	-16.0	869.2	829.2	39.94	21.760		
10,225.0	10,217.2	9,525.0	9,384.7	33.3	25.9	-9.68	156.9	-16.0	892.0	852.2	39.82	22.401		
10,250.0	10,242.1	9,525.0	9,384.7	33.3	25.9	-8.72	156.9	-16.0	914.3	874.7	39.69	23.038		
10,260.0	10,252.0	9,534.1	9,388.0	33.3	25.9	-8.21	165.4	-16.0	923.0	883.2	39.80	23.194		
10,275.0	10,266.9	9,536.6	9,388.9	33.3	25.9	-7.73	167.7	-16.0	936.0	896.3	39.75	23.546		
10,300.0	10,291.4	9,541.0	9,390.5	33.3	25.9	-7.03	171.8	-16.0	957.3	917.6	39.68	24.124		
10,325.0	10,315.7	9,550.0	9,393.5	33.4	25.9	-6.40	180.3	-16.1	978.0	938.3	39.68	24.649		
10,350.0	10,339.6	9,550.0	9,393.5	33.4	25.9	-5.97	180.3	-16.1	998.0	958.5	39.52	25.253		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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		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	
0.0	0.0	0.0	0.0	3.0	3.0	-90.65	-3.0	-265.0	265.1					
1.0	1.0	0.0	0.0	3.0	3.0	-90.65	-3.0	-265.0	265.1					
38.2	38.2	31.3	31.3	3.0	3.0	-43.69	-3.0	-265.0	265.0	259.0	6.00	44.165		
95.0	95.0	88.1	88.1	3.0	3.0	-43.73	-3.0	-265.0	264.8	258.8	6.00	44.138		
101.0	101.0	94.1	94.1	3.0	3.0	-43.73	-3.0	-265.0	264.8	258.8	6.00	44.134		
126.0	126.0	119.1	119.1	3.0	3.0	-27.37	-3.0	-265.0	264.7	258.7	6.00	44.108		
151.0	151.0	144.1	144.1	3.0	3.0	-35.02	-3.0	-265.0	264.5	258.5	6.00	44.076		
176.0	176.0	169.1	169.1	3.0	3.0	-44.34	-3.0	-265.0	264.4	258.4	6.00	44.044		
190.0	190.0	183.1	183.1	3.0	3.0	-52.10	-3.0	-265.0	264.3	258.3	6.00	44.025		
201.0	201.0	194.1	194.1	3.0	3.0	-56.04	-3.0	-265.0	264.3	258.3	6.00	44.009		
226.0	226.0	219.1	219.1	3.0	3.0	-65.98	-3.0	-265.0	264.1	258.1	6.01	43.976		
251.0	251.0	244.1	244.1	3.0	3.0	-71.68	-3.0	-265.0	264.1	258.0	6.01	43.947		
276.0	276.0	269.1	269.1	3.0	3.0	-61.79	-3.0	-265.0	263.9	257.9	6.01	43.912		
285.0	285.0	278.1	278.1	3.0	3.0	-59.12	-3.0	-265.0	263.9	257.9	6.01	43.897		
301.0	301.0	294.1	294.1	3.0	3.0	-54.99	-3.0	-265.0	263.8	257.8	6.01	43.867		
326.0	326.0	319.1	319.1	3.0	3.0	-46.97	-3.0	-265.0	263.6	257.5	6.02	43.809		
351.0	351.0	344.1	344.1	3.0	3.0	-41.24	-3.0	-265.0	263.3	257.3	6.02	43.741		
376.0	376.0	369.1	369.1	3.0	3.0	-39.64	-3.0	-265.0	263.0	257.0	6.02	43.665		
380.0	380.0	373.1	373.1	3.0	3.0	-40.41	-3.0	-265.0	263.0	256.9	6.02	43.652		
401.0	401.0	394.1	394.1	3.0	3.0	-44.59	-3.0	-265.0	262.7	256.7	6.03	43.588		
426.0	426.0	419.1	419.1	3.0	3.0	-40.30	-3.0	-265.0	262.4	256.4	6.03	43.508		
451.0	451.0	444.1	444.1	3.0	3.0	-36.62	-3.0	-265.0	262.1	256.1	6.04	43.419		
475.0	475.0	468.1	468.1	3.0	3.0	-26.06	-3.0	-265.0	261.8	255.7	6.04	43.327		
476.0	476.0	469.1	469.1	3.0	3.0	-25.63	-3.0	-265.0	261.8	255.7	6.04	43.323		
501.0	501.0	494.1	494.1	3.1	3.1	-27.31	-3.0	-265.0	261.4	255.3	6.05	43.219		
526.0	526.0	519.1	519.1	3.1	3.1	-23.40	-3.0	-265.0	261.0	254.9	6.05	43.108		
551.0	551.0	544.1	544.1	3.1	3.1	-18.02	-3.0	-265.0	260.6	254.5	6.06	42.988		
570.0	570.0	563.1	563.1	3.1	3.1	-13.29	-3.0	-265.0	260.2	254.2	6.07	42.893		
576.0	576.0	569.1	569.1	3.1	3.1	-11.75	-3.0	-265.0	260.1	254.1	6.07	42.863		
601.0	601.0	594.1	594.1	3.1	3.1	-8.49	-3.0	-265.0	259.7	253.6	6.08	42.734		
626.0	625.9	619.0	619.0	3.1	3.1	-0.18	-3.0	-265.0	259.2	253.2	6.09	42.604		
651.0	650.9	644.0	644.0	3.1	3.1	-3.56	-3.0	-265.0	258.8	252.8	6.09	42.476		
665.0	664.9	658.0	658.0	3.1	3.1	-0.43	-3.0	-265.0	258.6	252.5	6.10	42.404		
676.0	675.9	669.0	669.0	3.1	3.1	1.89	-3.0	-265.0	258.5	252.4	6.10	42.347		
701.0	700.9	694.0	694.0	3.1	3.1	8.23	-3.0	-265.0	258.1	251.9	6.11	42.214		
726.0	725.9	719.0	719.0	3.1	3.1	18.51	-3.0	-265.0	257.6	251.5	6.12	42.079		
751.0	750.9	744.0	744.0	3.1	3.1	25.95	-3.0	-265.0	257.2	251.1	6.13	41.943		
760.0	759.9	753.0	753.0	3.1	3.1	23.72	-3.0	-265.0	257.1	251.0	6.14	41.894		
776.0	775.9	769.0	769.0	3.1	3.1	19.99	-3.0	-265.0	256.8	250.7	6.14	41.803		
801.0	800.9	794.0	794.0	3.1	3.2	24.04	-3.0	-265.0	256.4	250.2	6.15	41.656		
826.0	825.9	819.0	819.0	3.1	3.2	32.53	-3.0	-265.0	255.9	249.8	6.17	41.509		
851.0	850.9	844.0	844.0	3.1	3.2	20.99	-3.0	-265.0	255.5	249.3	6.18	41.360		
855.0	854.9	848.0	848.0	3.1	3.2	22.25	-3.0	-265.0	255.4	249.2	6.18	41.335		
876.0	875.9	869.0	869.0	3.2	3.2	28.85	-3.0	-265.0	255.0	248.8	6.19	41.206		
901.0	900.9	894.0	894.0	3.2	3.2	31.28	-3.0	-265.0	254.6	248.4	6.20	41.057		
926.0	925.9	919.0	919.0	3.2	3.2	24.67	-3.0	-265.0	254.2	248.0	6.21	40.914		
950.0	949.9	943.0	943.0	3.2	3.2	18.84	-3.0	-265.0	253.9	247.7	6.23	40.782		
1,000.0	999.9	993.0	993.0	3.2	3.2	18.88	-3.0	-265.0	253.4	247.1	6.25	40.557		
1,045.0	1,044.9	1,038.0	1,038.0	3.2	3.3	18.92	-3.0	-265.0	252.8	246.6	6.27	40.330		
1,054.0	1,053.9	1,047.0	1,047.0	3.2	3.3	18.93	-3.0	-265.0	252.7	246.5	6.27	40.285		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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 Between Centres		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)			
1,100.0	1,099.9	1,093.0	1,093.0	3.2	3.3	18.97	-3.0	-265.0	252.2	245.9	6.30	40.002	
1,140.0	1,139.9	1,133.0	1,133.0	3.3	3.3	19.01	-3.0	-265.0	251.7	245.4	6.34	39.706	
1,154.0	1,153.9	1,147.0	1,147.0	3.3	3.3	19.02	-3.0	-265.0	251.6	245.2	6.35	39.600	
1,200.0	1,199.9	1,193.0	1,193.0	3.3	3.3	19.05	-3.0	-265.0	251.1	244.7	6.40	39.227	
1,235.0	1,234.9	1,228.0	1,228.0	3.3	3.4	19.07	-3.0	-265.0	250.9	244.5	6.44	38.944	
1,294.0	1,293.9	1,287.0	1,287.0	3.4	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.52	38.486	
1,300.0	1,299.9	1,293.0	1,293.0	3.4	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.52	38.439	
1,330.0	1,329.9	1,323.0	1,323.0	3.5	3.4	-90.89	-3.0	-265.0	250.8	244.2	6.57	38.158	
1,400.0	1,399.9	1,393.0	1,393.0	3.6	3.5	-90.89	-3.0	-265.0	250.8	244.1	6.69	37.482	
1,425.0	1,424.9	1,418.0	1,418.0	3.6	3.5	-90.89	-3.0	-265.0	250.8	244.0	6.75	37.172	
1,500.0	1,499.9	1,493.0	1,493.0	3.8	3.5	-90.89	-3.0	-265.0	250.8	243.8	6.92	36.223	
1,520.0	1,519.9	1,513.0	1,513.0	3.8	3.6	-90.89	-3.0	-265.0	250.8	243.8	6.97	35.967	
1,600.0	1,599.9	1,593.0	1,593.0	4.0	3.6	-90.89	-3.0	-265.0	250.8	243.6	7.18	34.936	
1,615.0	1,614.9	1,608.0	1,608.0	4.1	3.6	-90.89	-3.0	-265.0	250.8	243.5	7.22	34.743	
1,700.0	1,699.9	1,693.0	1,693.0	4.3	3.7	-90.89	-3.0	-265.0	250.8	243.3	7.45	33.651	
1,710.0	1,709.9	1,703.0	1,703.0	4.3	3.7	-90.89	-3.0	-265.0	250.8	243.3	7.48	33.524	
1,800.0	1,799.9	1,793.0	1,793.0	4.6	3.8	-90.89	-3.0	-265.0	250.8	243.0	7.74	32.391	
1,805.0	1,804.9	1,798.0	1,798.0	4.6	3.8	-90.89	-3.0	-265.0	250.8	243.0	7.76	32.329	
1,900.0	1,899.9	1,893.0	1,893.0	4.9	3.8	-90.89	-3.0	-265.0	250.8	242.7	8.05	31.169	
1,995.0	1,994.9	1,988.0	1,988.0	5.2	3.9	-90.89	-3.0	-265.0	250.8	242.4	8.34	30.051	
2,000.1	2,000.0	1,993.1	1,993.1	5.2	3.9	-90.89	-3.0	-265.0	250.8	242.4	8.36	29.992 CC, ES	
2,090.0	2,089.9	2,077.0	2,077.0	5.5	4.0	112.79	-3.5	-265.9	252.3	243.5	8.77	28.768	
2,100.0	2,099.9	2,086.3	2,086.3	5.5	4.0	112.82	-3.6	-266.1	252.7	243.9	8.82	28.652	
2,185.0	2,184.7	2,165.0	2,164.9	6.0	4.2	113.17	-5.3	-269.1	257.6	248.1	9.52	27.051	
2,200.0	2,199.7	2,178.8	2,178.7	6.1	4.2	113.24	-5.7	-269.9	258.8	249.1	9.67	26.763	
2,250.1	2,249.7	2,227.1	2,226.8	6.3	4.5	113.57	-7.3	-272.7	263.3	253.3	10.06	26.179	
2,280.0	2,279.4	2,256.8	2,256.5	6.3	4.5	113.87	-8.4	-274.5	266.2	255.9	10.24	26.006	
2,300.0	2,299.4	2,276.6	2,276.3	6.4	4.6	114.06	-9.0	-275.7	268.1	257.7	10.36	25.890	
2,375.0	2,374.1	2,351.2	2,350.7	6.6	4.7	114.76	-11.6	-280.3	275.3	264.6	10.72	25.687	
2,400.0	2,399.0	2,376.1	2,375.5	6.7	4.8	114.98	-12.4	-281.8	277.7	266.9	10.83	25.656	
2,470.0	2,468.7	2,445.7	2,444.9	6.9	4.9	115.59	-14.8	-286.0	284.5	273.4	11.14	25.536	
2,500.0	2,498.6	2,475.5	2,474.7	7.0	4.9	115.84	-15.8	-287.8	287.4	276.2	11.28	25.481	
2,565.0	2,563.4	2,540.2	2,539.2	7.2	5.0	116.37	-18.0	-291.8	293.8	282.2	11.59	25.342	
2,600.0	2,598.2	2,575.0	2,573.9	7.3	5.1	116.64	-19.2	-293.9	297.2	285.5	11.76	25.264	
2,660.0	2,658.0	2,634.6	2,633.4	7.5	5.2	117.10	-21.3	-297.5	303.1	291.0	12.07	25.117	
2,700.0	2,697.8	2,674.4	2,673.1	7.6	5.3	117.40	-22.6	-299.9	307.0	294.8	12.27	25.017	
2,755.0	2,752.6	2,729.1	2,727.6	7.8	5.4	117.79	-24.5	-303.3	312.5	299.9	12.56	24.871	
2,800.0	2,797.5	2,773.8	2,772.3	7.9	5.5	118.10	-26.0	-306.0	316.9	304.1	12.80	24.750	
2,850.0	2,847.3	2,823.5	2,821.9	8.1	5.6	118.44	-27.7	-309.0	321.9	308.8	13.08	24.612	
2,900.0	2,897.1	2,873.3	2,871.5	8.3	5.7	118.77	-29.4	-312.0	326.8	313.5	13.36	24.472	
2,945.0	2,941.9	2,918.0	2,916.1	8.4	5.9	119.05	-30.9	-314.8	331.3	317.7	13.61	24.345	
3,000.0	2,996.7	2,972.7	2,970.7	8.6	6.0	119.39	-32.8	-318.1	336.8	322.9	13.92	24.189	
3,040.0	3,036.6	3,012.5	3,010.3	8.7	6.1	119.63	-34.2	-320.5	340.8	326.6	14.15	24.076	
3,100.0	3,096.3	3,072.1	3,069.9	8.9	6.3	119.98	-36.2	-324.1	346.8	332.3	14.51	23.907	
3,135.0	3,131.2	3,106.9	3,104.6	9.1	6.3	120.18	-37.4	-326.3	350.3	335.6	14.71	23.809	
3,200.0	3,195.9	3,171.6	3,169.1	9.3	6.5	120.53	-39.6	-330.2	356.8	341.7	15.10	23.627	
3,230.0	3,225.8	3,201.4	3,198.8	9.4	6.6	120.69	-40.6	-332.0	359.8	344.6	15.28	23.545	
3,300.0	3,295.6	3,271.0	3,268.2	9.6	6.8	121.06	-43.0	-336.2	366.9	351.2	15.71	23.354	
3,325.0	3,320.5	3,295.9	3,293.0	9.7	6.9	121.19	-43.8	-337.7	369.4	353.5	15.86	23.287	
3,400.0	3,395.2	3,370.5	3,367.4	10.0	7.1	121.56	-46.4	-342.3	377.0	360.6	16.33	23.089	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,420.0	3,415.1	3,390.3	3,387.3	10.0	7.1	121.65	-47.1	-343.5	379.0	362.5	16.45	23.037	
3,500.0	3,494.8	3,469.9	3,466.6	10.3	7.4	122.03	-49.8	-348.3	387.1	370.1	16.95	22.831	
3,515.0	3,509.7	3,484.8	3,481.5	10.3	7.4	122.09	-50.3	-349.2	388.6	371.6	17.05	22.793	
3,600.0	3,594.4	3,569.3	3,565.8	10.6	7.7	122.47	-53.2	-354.4	397.2	379.6	17.59	22.583	
3,610.0	3,604.4	3,579.3	3,575.8	10.7	7.7	122.52	-53.5	-355.0	398.2	380.6	17.65	22.559	
3,700.0	3,694.0	3,668.8	3,665.0	11.0	8.0	122.90	-56.6	-360.4	407.4	389.2	18.23	22.345	
3,705.0	3,699.0	3,673.7	3,670.0	11.0	8.0	122.92	-56.7	-360.7	407.9	389.6	18.26	22.333	
3,800.0	3,793.7	3,768.2	3,764.2	11.3	8.3	123.30	-60.0	-366.5	417.6	398.7	18.88	22.117	
3,895.0	3,888.3	3,862.7	3,858.5	11.7	8.6	123.67	-63.2	-372.2	427.3	407.8	19.50	21.909	
3,900.0	3,893.3	3,867.6	3,863.4	11.7	8.6	123.69	-63.3	-372.5	427.8	408.3	19.54	21.898	
3,990.0	3,982.9	3,957.1	3,952.7	12.0	8.9	124.02	-66.4	-378.0	437.0	416.9	20.13	21.709	
4,007.7	4,000.6	3,974.8	3,970.3	12.1	8.9	124.08	-67.0	-379.0	438.8	418.6	20.25	21.673	
4,085.0	4,077.6	4,051.6	4,047.0	12.3	9.2	124.36	-69.6	-383.7	446.4	425.7	20.76	21.505	
4,100.0	4,092.6	4,066.6	4,061.9	12.4	9.2	124.40	-70.1	-384.6	447.8	427.0	20.86	21.469	
4,180.0	4,172.4	4,146.3	4,141.3	12.7	9.5	124.54	-72.9	-389.5	455.0	433.6	21.39	21.268	
4,200.0	4,192.4	4,166.2	4,161.2	12.7	9.6	124.55	-73.5	-390.7	456.7	435.2	21.53	21.214	
4,275.0	4,267.3	4,240.9	4,235.8	13.0	9.8	124.54	-76.1	-395.2	462.7	440.6	22.03	21.002	
4,300.0	4,292.3	4,265.9	4,260.7	13.1	9.9	124.52	-76.9	-396.8	464.6	442.4	22.20	20.927	
4,370.0	4,362.2	4,335.7	4,330.3	13.3	10.1	124.38	-79.3	-401.0	469.5	446.8	22.67	20.709	
4,400.0	4,392.2	4,365.6	4,360.2	13.4	10.2	124.30	-80.3	-402.8	471.4	448.6	22.87	20.611	
4,465.0	4,457.2	4,430.4	4,424.8	13.6	10.4	124.07	-82.6	-406.8	475.4	452.1	23.31	20.398	
4,507.8	4,500.0	4,473.1	4,467.4	13.8	10.6	-79.67	-84.0	-409.4	477.8	454.2	23.59	20.252	
4,560.0	4,552.2	4,525.2	4,519.4	13.9	10.8	-79.95	-85.8	-412.5	480.6	456.7	23.94	20.075	
4,600.0	4,592.2	4,565.1	4,559.2	14.1	10.9	-80.16	-87.2	-415.0	482.8	458.6	24.21	19.943	
4,655.0	4,647.2	4,620.0	4,613.9	14.2	11.1	-80.45	-89.0	-418.3	485.7	461.2	24.58	19.765	
4,700.0	4,692.2	4,664.9	4,658.7	14.4	11.2	-80.68	-90.6	-421.0	488.2	463.3	24.88	19.623	
4,750.0	4,742.2	4,714.7	4,708.5	14.5	11.4	-80.93	-92.3	-424.1	490.9	465.7	25.21	19.470	
4,800.0	4,792.2	4,764.6	4,758.2	14.7	11.6	-81.18	-94.0	-427.1	493.7	468.1	25.55	19.320	
4,845.0	4,837.2	4,809.5	4,803.0	14.9	11.7	-81.41	-95.5	-429.8	496.1	470.3	25.86	19.188	
4,900.0	4,892.2	4,864.4	4,857.7	15.0	11.9	-81.68	-97.4	-433.2	499.2	473.0	26.23	19.031	
4,940.0	4,932.2	4,904.3	4,897.5	15.2	12.0	-81.87	-98.7	-435.6	501.4	474.9	26.50	18.920	
5,000.0	4,992.2	4,964.1	4,957.2	15.4	12.2	-82.16	-100.8	-439.2	504.7	477.8	26.91	18.757	
5,035.0	5,027.2	4,999.1	4,992.1	15.5	12.4	-82.32	-102.0	-441.4	506.7	479.5	27.15	18.664	
5,100.0	5,092.2	5,063.9	5,056.8	15.7	12.6	-82.63	-104.2	-445.3	510.3	482.7	27.59	18.496	
5,130.0	5,122.2	5,093.8	5,086.6	15.8	12.7	-82.77	-105.2	-447.1	512.0	484.2	27.80	18.420	
5,200.0	5,192.2	5,163.7	5,156.3	16.1	12.9	-83.09	-107.6	-451.4	515.9	487.7	28.27	18.248	
5,225.0	5,217.2	5,188.6	5,181.2	16.1	13.0	-83.21	-108.4	-452.9	517.3	488.9	28.45	18.187	
5,300.0	5,292.2	5,263.4	5,255.8	16.4	13.3	-83.55	-111.0	-457.4	521.6	492.6	28.96	18.011	
5,320.0	5,312.2	5,283.4	5,275.7	16.5	13.3	-83.63	-111.7	-458.7	522.7	493.6	29.10	17.965	
5,400.0	5,392.2	5,363.2	5,355.3	16.7	13.6	-83.99	-114.4	-463.5	527.3	497.6	29.65	17.785	
5,415.0	5,407.2	5,378.1	5,370.2	16.8	13.7	-84.05	-114.9	-464.4	528.1	498.4	29.75	17.752	
5,500.0	5,492.2	5,462.9	5,454.8	17.1	14.0	-84.42	-117.8	-469.6	533.0	502.6	30.34	17.569	
5,510.0	5,502.2	5,472.9	5,464.8	17.1	14.0	-84.46	-118.1	-470.2	533.5	503.1	30.40	17.548	
5,600.0	5,592.2	5,562.7	5,554.3	17.4	14.3	-84.85	-121.2	-475.6	538.7	507.7	31.03	17.363	
5,605.0	5,597.2	5,567.7	5,559.3	17.4	14.3	-84.87	-121.4	-475.9	539.0	507.9	31.06	17.353	
5,700.0	5,692.2	5,662.4	5,653.8	17.7	14.7	-85.26	-124.6	-481.7	544.5	512.8	31.72	17.167	
5,795.0	5,787.2	5,757.2	5,748.4	18.1	15.0	-85.65	-127.9	-487.5	550.0	517.6	32.38	16.988	
5,800.0	5,792.2	5,762.2	5,753.4	18.1	15.0	-85.67	-128.0	-487.8	550.3	517.9	32.41	16.978	
5,890.0	5,882.2	5,852.0	5,842.9	18.4	15.3	-86.02	-131.1	-493.2	555.5	522.5	33.04	16.816	
5,900.0	5,892.2	5,861.9	5,852.9	18.4	15.4	-86.06	-131.4	-493.8	556.1	523.0	33.11	16.798	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,985.0	5,977.2	5,946.7	5,937.5	18.7	15.7	-86.40	-134.3	-499.0	561.1	527.4	33.70	16.651	
6,000.0	5,992.2	5,961.7	5,952.4	18.8	15.7	-86.45	-134.8	-499.9	562.0	528.2	33.80	16.626	
6,080.0	6,072.2	6,041.5	6,032.0	19.0	16.0	-86.76	-137.6	-504.8	566.7	532.3	34.36	16.494	
6,100.0	6,092.2	6,061.5	6,051.9	19.1	16.1	-86.84	-138.2	-506.0	567.8	533.3	34.49	16.462	
6,175.0	6,167.2	6,140.9	6,131.2	19.4	16.3	-87.12	-140.8	-510.6	572.1	537.0	35.03	16.330	
6,200.0	6,192.2	6,168.2	6,158.4	19.5	16.4	-87.20	-141.6	-512.0	573.3	538.1	35.21	16.281	
6,270.0	6,262.2	6,244.6	6,234.8	19.7	16.7	-87.40	-143.4	-515.2	576.2	540.4	35.73	16.128	
6,300.0	6,292.2	6,277.4	6,267.5	19.8	16.8	-87.47	-144.0	-516.3	577.2	541.2	35.95	16.057	
6,365.0	6,357.2	6,348.5	6,338.5	20.0	17.0	-87.58	-145.1	-518.2	578.8	542.4	36.42	15.893	
6,400.0	6,392.2	6,386.8	6,376.8	20.2	17.2	-87.62	-145.5	-518.9	579.4	542.8	36.68	15.799	
6,460.0	6,452.2	6,452.4	6,442.5	20.4	17.4	-87.66	-145.9	-519.5	580.0	542.9	37.09	15.637	
6,500.0	6,492.2	6,495.3	6,485.3	20.5	17.5	-87.66	-145.9	-519.6	580.1	542.8	37.36	15.526	
6,555.0	6,547.2	6,550.3	6,540.3	20.7	17.7	-87.66	-145.9	-519.6	580.1	542.4	37.72	15.379	
6,600.0	6,592.2	6,595.3	6,585.3	20.8	17.8	-87.66	-145.9	-519.6	580.1	542.1	38.01	15.260	
6,650.0	6,642.2	6,645.3	6,635.3	21.0	18.0	-87.66	-145.9	-519.6	580.1	541.8	38.34	15.129	
6,700.0	6,692.2	6,695.3	6,685.3	21.2	18.1	-87.66	-145.9	-519.6	580.1	541.4	38.68	15.000	
6,745.0	6,737.2	6,740.3	6,730.3	21.3	18.3	-87.66	-145.9	-519.6	580.1	541.1	38.97	14.885	
6,800.0	6,792.2	6,795.3	6,785.3	21.5	18.4	-87.66	-145.9	-519.6	580.1	540.8	39.34	14.747	
6,840.0	6,832.2	6,835.3	6,825.3	21.7	18.6	-87.66	-145.9	-519.6	580.1	540.5	39.60	14.648	
6,900.0	6,892.2	6,895.3	6,885.3	21.9	18.8	-87.66	-145.9	-519.6	580.1	540.1	40.00	14.502	
6,935.0	6,927.2	6,930.3	6,920.3	22.0	18.9	-87.66	-145.9	-519.6	580.1	539.9	40.23	14.418	
7,000.0	6,992.2	6,995.3	6,985.3	22.2	19.1	-87.66	-145.9	-519.6	580.1	539.4	40.67	14.265	
7,030.0	7,022.2	7,025.3	7,015.3	22.3	19.2	-87.66	-145.9	-519.6	580.1	539.2	40.87	14.195	
7,100.0	7,092.2	7,095.3	7,085.3	22.6	19.4	-87.66	-145.9	-519.6	580.1	538.8	41.34	14.034	
7,125.0	7,117.2	7,120.3	7,110.3	22.7	19.5	-87.66	-145.9	-519.6	580.1	538.6	41.50	13.978	
7,200.0	7,192.2	7,195.3	7,185.3	22.9	19.7	-87.66	-145.9	-519.6	580.1	538.1	42.01	13.810	
7,220.0	7,212.2	7,215.3	7,205.3	23.0	19.8	-87.66	-145.9	-519.6	580.1	538.0	42.14	13.766	
7,300.0	7,292.2	7,295.3	7,285.3	23.3	20.0	-87.66	-145.9	-519.6	580.1	537.4	42.68	13.593	
7,315.0	7,307.2	7,310.3	7,300.3	23.3	20.1	-87.66	-145.9	-519.6	580.1	537.3	42.78	13.561	
7,400.0	7,392.2	7,395.3	7,385.3	23.6	20.3	-87.66	-145.9	-519.6	580.1	536.8	43.35	13.382	
7,410.0	7,402.2	7,405.3	7,395.3	23.7	20.4	-87.66	-145.9	-519.6	580.1	536.7	43.42	13.361	
7,500.0	7,492.2	7,495.3	7,485.3	24.0	20.7	-87.66	-145.9	-519.6	580.1	536.1	44.02	13.177	
7,505.0	7,497.2	7,500.3	7,490.3	24.0	20.7	-87.66	-145.9	-519.6	580.1	536.1	44.06	13.167	
7,600.0	7,592.2	7,595.3	7,585.3	24.3	21.0	-87.66	-145.9	-519.6	580.1	535.4	44.70	12.978	
7,695.0	7,687.2	7,690.3	7,680.3	24.7	21.3	-87.66	-145.9	-519.6	580.1	534.8	45.34	12.794	
7,700.0	7,692.2	7,695.3	7,685.3	24.7	21.3	-87.66	-145.9	-519.6	580.1	534.7	45.38	12.785	
7,790.0	7,782.2	7,785.3	7,775.3	25.0	21.6	-87.66	-145.9	-519.6	580.1	534.1	45.99	12.615	
7,800.0	7,792.2	7,795.3	7,785.3	25.0	21.6	-87.66	-145.9	-519.6	580.1	534.1	46.05	12.596	
7,885.0	7,877.2	7,880.3	7,870.3	25.3	21.9	-87.66	-145.9	-519.6	580.1	533.5	46.63	12.440	
7,900.0	7,892.2	7,895.3	7,885.3	25.4	22.0	-87.66	-145.9	-519.6	580.1	533.4	46.73	12.413	
7,980.0	7,972.2	7,975.3	7,965.3	25.7	22.2	-87.66	-145.9	-519.6	580.1	532.8	47.28	12.270	
8,000.0	7,992.2	7,995.3	7,985.3	25.7	22.3	-87.66	-145.9	-519.6	580.1	532.7	47.41	12.235	
8,075.0	8,067.2	8,070.3	8,060.3	26.0	22.5	-87.66	-145.9	-519.6	580.1	532.2	47.92	12.105	
8,100.0	8,092.2	8,095.3	8,085.3	26.1	22.6	-87.66	-145.9	-519.6	580.1	532.0	48.10	12.062	
8,170.0	8,162.2	8,165.3	8,155.3	26.3	22.9	-87.66	-145.9	-519.6	580.1	531.5	48.57	11.943	
8,200.0	8,192.2	8,195.3	8,185.3	26.4	22.9	-87.66	-145.9	-519.6	580.1	531.3	48.78	11.893	
8,265.0	8,257.2	8,260.3	8,250.3	26.7	23.2	-87.66	-145.9	-519.6	580.1	530.9	49.22	11.786	
8,300.0	8,292.2	8,295.3	8,285.3	26.8	23.3	-87.66	-145.9	-519.6	580.1	530.7	49.46	11.729	
8,360.0	8,352.2	8,355.3	8,345.3	27.0	23.5	-87.66	-145.9	-519.6	580.1	530.2	49.87	11.632	
8,400.0	8,392.2	8,395.3	8,385.3	27.1	23.6	-87.66	-145.9	-519.6	580.1	530.0	50.15	11.569	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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
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	
8,455.0	8,447.2	8,450.3	8,440.3	27.3	23.8	-87.66	-145.9	-519.6	580.1	529.6	50.52	11.482	
8,500.0	8,492.2	8,495.3	8,485.3	27.5	23.9	-87.66	-145.9	-519.6	580.1	529.3	50.83	11.413	
8,550.0	8,542.2	8,545.3	8,535.3	27.7	24.1	-87.66	-145.9	-519.6	580.1	528.9	51.17	11.336	
8,600.0	8,592.2	8,595.3	8,585.3	27.8	24.3	-87.66	-145.9	-519.6	580.1	528.6	51.52	11.261	
8,645.0	8,637.2	8,640.3	8,630.3	28.0	24.4	-87.66	-145.9	-519.6	580.1	528.3	51.83	11.194	
8,646.9	8,639.1	8,642.2	8,632.2	28.0	24.4	-87.66	-145.9	-519.6	580.1	528.3	51.84	11.191	
8,700.0	8,692.2	8,694.1	8,684.1	28.2	24.5	-87.62	-145.4	-519.6	580.1	528.0	52.13	11.129	
8,740.0	8,732.2	8,731.7	8,721.6	28.3	24.5	-87.30	-142.2	-519.6	580.3	528.0	52.27	11.102	
8,800.0	8,792.2	8,786.7	8,775.6	28.5	24.5	-86.33	-132.3	-519.7	581.0	528.5	52.47	11.073	
8,835.0	8,827.2	8,817.5	8,805.3	28.7	24.5	-85.51	-124.1	-519.7	581.7	529.1	52.58	11.063 SF	
8,900.0	8,892.2	8,871.4	8,855.7	28.9	24.5	-83.66	-105.1	-519.8	584.1	531.4	52.76	11.071	
8,930.0	8,922.2	8,894.6	8,876.7	29.0	24.5	-82.69	-95.2	-519.9	585.9	533.0	52.83	11.090	
9,000.0	8,992.2	8,944.6	8,920.2	29.2	24.6	-80.30	-70.4	-520.0	592.0	539.0	52.93	11.184	
9,025.0	9,017.2	8,961.1	8,933.9	29.3	24.6	-79.43	-61.3	-520.0	594.9	542.0	52.94	11.238	
9,100.0	9,092.2	9,005.9	8,969.5	29.6	24.6	-76.86	-34.1	-520.1	606.9	554.0	52.85	11.483	
9,120.0	9,112.2	9,016.9	8,977.8	29.7	24.6	-76.20	-27.0	-520.1	610.9	558.1	52.79	11.571	
9,200.0	9,192.2	9,056.4	9,006.4	30.0	24.6	-73.68	0.3	-520.3	630.5	578.1	52.43	12.027	
9,215.0	9,207.2	9,063.2	9,011.1	30.0	24.6	-73.24	5.2	-520.3	634.9	582.6	52.33	12.132	
9,300.0	9,292.2	9,100.0	9,035.2	30.3	24.6	-70.76	33.0	-520.4	663.7	612.0	51.68	12.842	
9,310.0	9,302.2	9,100.0	9,035.2	30.3	24.6	-70.76	33.0	-520.4	667.5	616.0	51.54	12.951	
9,400.0	9,392.2	9,131.9	9,054.3	30.7	24.6	-68.54	58.6	-520.5	706.1	655.5	50.62	13.949	
9,405.0	9,397.2	9,133.5	9,055.2	30.7	24.6	-68.44	59.9	-520.5	708.5	657.9	50.57	14.011	
9,500.0	9,492.2	9,160.2	9,069.8	31.0	24.6	-66.55	82.3	-520.6	757.1	707.7	49.45	15.311	
9,595.0	9,587.2	9,182.9	9,081.1	31.3	24.6	-64.95	101.9	-520.7	812.5	764.2	48.31	16.818	
9,600.0	9,592.2	9,184.0	9,081.6	31.4	24.6	-64.87	102.8	-520.7	815.5	767.3	48.25	16.902	
9,690.0	9,682.2	9,200.0	9,089.1	31.7	24.6	-63.74	117.0	-520.8	873.6	826.4	47.19	18.511	
9,700.0	9,692.2	9,200.0	9,089.1	31.7	24.6	-63.74	117.0	-520.8	880.3	833.2	47.06	18.707	
9,785.0	9,777.2	9,225.0	9,099.7	32.0	24.6	-61.97	139.7	-520.9	939.5	893.2	46.30	20.290	
9,800.0	9,792.2	9,225.0	9,099.7	32.1	24.6	-61.97	139.7	-520.9	950.3	904.2	46.13	20.602	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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								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	-90.66	-3.4	-295.0	295.1						
1.0	1.0	0.0	0.0	3.0	3.0	-90.66	-3.4	-295.0	295.1						
38.5	38.5	31.0	31.0	3.0	3.0	-43.71	-3.4	-295.0	295.0	289.0	6.00	49.165			
95.0	95.0	87.5	87.5	3.0	3.0	-43.73	-3.4	-295.0	294.8	288.8	6.00	49.138			
101.0	101.0	93.5	93.5	3.0	3.0	-43.74	-3.4	-295.0	294.8	288.8	6.00	49.134			
126.0	126.0	118.5	118.5	3.0	3.0	-27.38	-3.4	-295.0	294.7	288.7	6.00	49.107			
151.0	151.0	143.5	143.5	3.0	3.0	-35.02	-3.4	-295.0	294.5	288.5	6.00	49.074			
176.0	176.0	168.5	168.5	3.0	3.0	-44.34	-3.4	-295.0	294.4	288.4	6.00	49.041			
190.0	190.0	182.5	182.5	3.0	3.0	-52.10	-3.4	-295.0	294.3	288.3	6.00	49.022			
201.0	201.0	193.5	193.5	3.0	3.0	-56.04	-3.4	-295.0	294.3	288.3	6.00	49.006			
226.0	226.0	218.5	218.5	3.0	3.0	-65.97	-3.4	-295.0	294.2	288.1	6.01	48.971			
251.0	251.0	243.5	243.5	3.0	3.0	-71.67	-3.4	-295.0	294.1	288.0	6.01	48.940			
276.0	276.0	268.5	268.5	3.0	3.0	-61.77	-3.4	-295.0	293.9	287.9	6.01	48.904			
285.0	285.0	277.5	277.5	3.0	3.0	-59.10	-3.4	-295.0	293.9	287.9	6.01	48.888			
301.0	301.0	293.5	293.5	3.0	3.0	-54.96	-3.4	-295.0	293.8	287.8	6.01	48.856			
326.0	326.0	318.5	318.5	3.0	3.0	-46.94	-3.4	-295.0	293.6	287.5	6.02	48.796			
351.0	351.0	343.5	343.5	3.0	3.0	-41.21	-3.4	-295.0	293.3	287.3	6.02	48.725			
376.0	376.0	368.5	368.5	3.0	3.0	-39.60	-3.4	-295.0	293.0	287.0	6.02	48.646			
380.0	380.0	372.5	372.5	3.0	3.0	-40.36	-3.4	-295.0	293.0	286.9	6.02	48.633			
401.0	401.0	393.5	393.5	3.0	3.0	-44.54	-3.4	-295.0	292.7	286.7	6.03	48.566			
426.0	426.0	418.5	418.5	3.0	3.0	-40.25	-3.4	-295.0	292.4	286.4	6.03	48.481			
451.0	451.0	443.5	443.5	3.0	3.0	-36.56	-3.4	-295.0	292.1	286.1	6.04	48.389			
475.0	475.0	467.5	467.5	3.0	3.0	-25.99	-3.4	-295.0	291.8	285.7	6.04	48.292			
476.0	476.0	468.5	468.5	3.0	3.0	-25.57	-3.4	-295.0	291.8	285.7	6.04	48.288			
501.0	501.0	493.5	493.5	3.1	3.1	-27.24	-3.4	-295.0	291.4	285.3	6.05	48.179			
526.0	526.0	518.5	518.5	3.1	3.1	-23.33	-3.4	-295.0	291.0	284.9	6.05	48.063			
551.0	551.0	543.5	543.5	3.1	3.1	-17.94	-3.4	-295.0	290.6	284.5	6.06	47.937			
570.0	570.0	562.5	562.5	3.1	3.1	-13.21	-3.4	-295.0	290.2	284.2	6.07	47.838			
576.0	576.0	568.5	568.5	3.1	3.1	-11.67	-3.4	-295.0	290.1	284.1	6.07	47.806			
601.0	601.0	593.5	593.5	3.1	3.1	-8.41	-3.4	-295.0	289.7	283.6	6.08	47.671			
626.0	625.9	618.4	618.4	3.1	3.1	-0.09	-3.4	-295.0	289.2	283.2	6.09	47.533			
651.0	650.9	643.4	643.4	3.1	3.1	-3.48	-3.4	-295.0	288.8	282.8	6.09	47.398			
665.0	664.9	657.4	657.4	3.1	3.1	-0.35	-3.4	-295.0	288.6	282.5	6.10	47.323			
676.0	675.9	668.4	668.4	3.1	3.1	1.97	-3.4	-295.0	288.5	282.4	6.10	47.262			
701.0	700.9	693.4	693.4	3.1	3.1	8.31	-3.4	-295.0	288.1	281.9	6.11	47.122			
726.0	725.9	718.4	718.4	3.1	3.1	18.59	-3.4	-295.0	287.6	281.5	6.12	46.979			
751.0	750.9	743.4	743.4	3.1	3.1	26.03	-3.4	-295.0	287.2	281.1	6.13	46.835			
760.0	759.9	752.4	752.4	3.1	3.1	23.80	-3.4	-295.0	287.1	281.0	6.14	46.783			
776.0	775.9	768.4	768.4	3.1	3.1	20.06	-3.4	-295.0	286.8	280.7	6.14	46.686			
801.0	800.9	793.4	793.4	3.1	3.1	24.11	-3.4	-295.0	286.4	280.2	6.15	46.530			
826.0	825.9	818.4	818.4	3.1	3.2	32.60	-3.4	-295.0	285.9	279.8	6.17	46.375			
851.0	850.9	843.4	843.4	3.1	3.2	21.05	-3.4	-295.0	285.5	279.3	6.18	46.216			
855.0	854.9	847.4	847.4	3.1	3.2	22.30	-3.4	-295.0	285.4	279.2	6.18	46.190			
876.0	875.9	868.4	868.4	3.2	3.2	28.90	-3.4	-295.0	285.0	278.8	6.19	46.053			
901.0	900.9	893.4	893.4	3.2	3.2	31.32	-3.4	-295.0	284.6	278.4	6.20	45.895			
926.0	925.9	918.4	918.4	3.2	3.2	24.71	-3.4	-295.0	284.2	278.0	6.21	45.742			
950.0	949.9	942.4	942.4	3.2	3.2	18.88	-3.4	-295.0	283.9	277.7	6.23	45.600			
1,000.0	999.9	992.4	992.4	3.2	3.2	18.92	-3.4	-295.0	283.4	277.1	6.25	45.360			
1,045.0	1,044.9	1,037.4	1,037.4	3.2	3.3	18.95	-3.4	-295.0	282.8	276.6	6.27	45.117			
1,054.0	1,053.9	1,046.4	1,046.4	3.2	3.3	18.96	-3.4	-295.0	282.7	276.5	6.27	45.067			

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
1,100.0	1,099.9	1,092.4	1,092.4	3.2	3.3	19.00	-3.4	-295.0	282.2	275.9	6.30	44.761	
1,140.0	1,139.9	1,132.4	1,132.4	3.3	3.3	19.03	-3.4	-295.0	281.7	275.4	6.34	44.439	
1,154.0	1,153.9	1,146.4	1,146.4	3.3	3.3	19.04	-3.4	-295.0	281.6	275.2	6.35	44.324	
1,200.0	1,199.9	1,192.4	1,192.4	3.3	3.3	19.07	-3.4	-295.0	281.1	274.7	6.40	43.914	
1,235.0	1,234.9	1,227.4	1,227.4	3.3	3.4	19.09	-3.4	-295.0	280.9	274.5	6.44	43.601	
1,294.0	1,293.9	1,286.4	1,286.4	3.4	3.4	-90.87	-3.4	-295.0	280.8	274.3	6.52	43.092	
1,300.0	1,299.9	1,292.4	1,292.4	3.4	3.4	-90.87	-3.4	-295.0	280.8	274.2	6.52	43.038	
1,330.0	1,329.9	1,322.4	1,322.4	3.5	3.4	-90.87	-3.4	-295.0	280.8	274.2	6.57	42.725	
1,400.0	1,399.9	1,392.4	1,392.4	3.6	3.5	-90.87	-3.4	-295.0	280.8	274.1	6.69	41.967	
1,425.0	1,424.9	1,417.4	1,417.4	3.6	3.5	-90.87	-3.4	-295.0	280.8	274.0	6.75	41.620	
1,500.0	1,499.9	1,492.4	1,492.4	3.8	3.5	-90.87	-3.4	-295.0	280.8	273.8	6.92	40.557	
1,520.0	1,519.9	1,512.4	1,512.4	3.8	3.6	-90.87	-3.4	-295.0	280.8	273.8	6.97	40.271	
1,600.0	1,599.9	1,592.4	1,592.4	4.0	3.6	-90.87	-3.4	-295.0	280.8	273.6	7.18	39.116	
1,615.0	1,614.9	1,607.4	1,607.4	4.1	3.6	-90.87	-3.4	-295.0	280.8	273.5	7.22	38.900	
1,700.0	1,699.9	1,692.4	1,692.4	4.3	3.7	-90.87	-3.4	-295.0	280.8	273.3	7.45	37.678	
1,710.0	1,709.9	1,702.4	1,702.4	4.3	3.7	-90.87	-3.4	-295.0	280.8	273.3	7.48	37.536	
1,800.0	1,799.9	1,792.4	1,792.4	4.6	3.8	-90.87	-3.4	-295.0	280.8	273.0	7.74	36.267	
1,805.0	1,804.9	1,797.4	1,797.4	4.6	3.8	-90.87	-3.4	-295.0	280.8	273.0	7.76	36.198	
1,900.0	1,899.9	1,892.4	1,892.4	4.9	3.8	-90.87	-3.4	-295.0	280.8	272.7	8.05	34.899	
1,995.0	1,994.9	1,987.4	1,987.4	5.2	3.9	-90.87	-3.4	-295.0	280.8	272.4	8.34	33.648	
2,000.1	2,000.0	1,992.5	1,992.5	5.2	3.9	-90.87	-3.4	-295.0	280.8	272.4	8.36	33.582 CC, ES	
2,090.0	2,089.9	2,075.1	2,075.1	5.5	4.0	112.85	-3.6	-296.0	282.4	273.6	8.77	32.186	
2,100.0	2,099.9	2,084.2	2,084.2	5.5	4.0	112.88	-3.6	-296.2	282.8	274.0	8.82	32.051	
2,185.0	2,184.7	2,161.4	2,161.4	6.0	4.0	113.37	-4.3	-299.5	288.0	278.5	9.53	30.226	
2,200.0	2,199.7	2,175.0	2,174.9	6.1	4.1	113.48	-4.5	-300.2	289.3	279.6	9.68	29.888	
2,250.1	2,249.7	2,220.3	2,220.1	6.3	4.4	113.90	-5.1	-303.3	294.2	284.1	10.15	28.983	
2,280.0	2,279.4	2,247.2	2,246.9	6.3	4.6	114.23	-5.6	-305.4	297.7	287.3	10.41	28.604	
2,300.0	2,299.4	2,265.2	2,264.8	6.4	4.7	114.44	-5.9	-307.0	300.1	289.6	10.58	28.366	
2,375.0	2,374.1	2,332.4	2,331.7	6.6	5.2	115.14	-7.3	-313.9	310.5	299.3	11.22	27.674	
2,400.0	2,399.0	2,354.7	2,353.8	6.7	5.3	115.35	-7.8	-316.5	314.3	302.9	11.42	27.518	
2,470.0	2,468.7	2,418.8	2,417.3	6.9	5.7	115.89	-9.6	-324.9	326.0	314.1	11.96	27.270	
2,500.0	2,498.6	2,448.3	2,446.5	7.0	5.7	116.11	-10.4	-328.9	331.2	319.1	12.13	27.300	
2,565.0	2,563.4	2,512.3	2,509.9	7.2	5.9	116.58	-12.2	-337.6	342.5	330.0	12.50	27.393	
2,600.0	2,598.2	2,546.7	2,544.0	7.3	6.0	116.82	-13.1	-342.3	348.6	335.9	12.66	27.531	
2,660.0	2,658.0	2,605.7	2,602.4	7.5	6.1	117.22	-14.8	-350.4	359.0	346.0	12.93	27.753	
2,700.0	2,697.8	2,645.1	2,641.4	7.6	6.1	117.47	-15.9	-355.7	365.9	352.8	13.12	27.881	
2,755.0	2,752.6	2,699.2	2,695.0	7.8	6.2	117.80	-17.4	-363.1	375.5	362.1	13.39	28.046	
2,800.0	2,797.5	2,743.5	2,738.9	7.9	6.3	118.05	-18.7	-369.1	383.3	369.7	13.61	28.162	
2,850.0	2,847.3	2,792.7	2,787.6	8.1	6.4	118.33	-20.0	-375.8	392.1	378.2	13.86	28.281	
2,900.0	2,897.1	2,841.9	2,836.3	8.3	6.5	118.59	-21.4	-382.5	400.8	386.7	14.12	28.384	
2,945.0	2,941.9	2,886.2	2,880.1	8.4	6.6	118.81	-22.7	-388.6	408.7	394.3	14.36	28.468	
3,000.0	2,996.7	2,940.3	2,933.7	8.6	6.7	119.08	-24.2	-396.0	418.3	403.6	14.65	28.555	
3,040.0	3,036.6	2,979.7	2,972.7	8.7	6.8	119.26	-25.3	-401.3	425.3	410.4	14.86	28.612	
3,100.0	3,096.3	3,038.7	3,031.2	8.9	7.0	119.53	-27.0	-409.4	435.8	420.6	15.19	28.684	
3,135.0	3,131.2	3,073.1	3,065.3	9.1	7.0	119.68	-27.9	-414.1	441.9	426.5	15.39	28.721	
3,200.0	3,195.9	3,137.1	3,128.6	9.3	7.2	119.94	-29.7	-422.8	453.3	437.6	15.75	28.778	
3,230.0	3,225.8	3,166.6	3,157.9	9.4	7.3	120.06	-30.5	-426.8	458.6	442.7	15.92	28.800	
3,300.0	3,295.6	3,235.5	3,226.1	9.6	7.5	120.33	-32.5	-436.2	470.9	454.6	16.33	28.842	
3,325.0	3,320.5	3,260.1	3,250.4	9.7	7.5	120.42	-33.2	-439.5	475.3	458.8	16.47	28.853	
3,400.0	3,395.2	3,333.9	3,323.5	10.0	7.7	120.68	-35.2	-449.6	488.5	471.5	16.91	28.881	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
3,420.0	3,415.1	3,353.6	3,343.0	10.0	7.8	120.75	-35.8	-452.3	492.0	474.9	17.03	28.886	
3,500.0	3,494.8	3,432.3	3,421.0	10.3	8.0	121.02	-38.0	-463.0	506.0	488.5	17.51	28.900	
3,515.0	3,509.7	3,447.1	3,435.6	10.3	8.0	121.06	-38.4	-465.0	508.7	491.1	17.60	28.901	
3,600.0	3,594.4	3,530.7	3,518.4	10.6	8.3	121.33	-40.8	-476.4	523.7	505.5	18.12	28.903	
3,610.0	3,604.4	3,540.5	3,528.1	10.7	8.3	121.35	-41.0	-477.8	525.4	507.2	18.18	28.902	
3,700.0	3,694.0	3,629.1	3,615.8	11.0	8.5	121.61	-43.5	-489.8	541.3	522.5	18.73	28.892	
3,705.0	3,699.0	3,634.0	3,620.7	11.0	8.6	121.63	-43.7	-490.5	542.2	523.4	18.77	28.891	
3,800.0	3,793.7	3,727.5	3,713.3	11.3	8.8	121.89	-46.3	-503.3	558.9	539.5	19.36	28.870	
3,895.0	3,888.3	3,821.0	3,805.8	11.7	9.1	122.13	-48.9	-516.0	575.7	555.7	19.96	28.841	
3,900.0	3,893.3	3,825.9	3,810.7	11.7	9.1	122.14	-49.1	-516.7	576.6	556.6	19.99	28.839	
3,990.0	3,982.9	3,914.5	3,898.4	12.0	9.4	122.36	-51.5	-528.7	592.4	571.9	20.57	28.805	
4,007.7	4,000.6	3,931.9	3,915.7	12.1	9.4	122.40	-52.0	-531.1	595.6	574.9	20.68	28.797	
4,085.0	4,077.6	4,008.0	3,991.0	12.3	9.7	122.65	-54.2	-541.5	608.9	587.8	21.18	28.752	
4,100.0	4,092.6	4,022.8	4,005.7	12.4	9.7	122.68	-54.6	-543.5	611.5	590.2	21.28	28.740	
4,180.0	4,172.4	4,101.7	4,083.8	12.7	10.0	122.82	-56.8	-554.3	624.6	602.8	21.79	28.660	
4,200.0	4,192.4	4,121.4	4,103.4	12.7	10.0	122.84	-57.3	-557.0	627.8	605.9	21.93	28.635	
4,275.0	4,267.3	4,195.5	4,176.7	13.0	10.3	122.87	-59.4	-567.1	639.5	617.1	22.41	28.530	
4,300.0	4,292.3	4,220.2	4,201.2	13.1	10.4	122.86	-60.1	-570.4	643.2	620.7	22.58	28.490	
4,370.0	4,362.2	4,289.5	4,269.8	13.3	10.6	122.80	-62.1	-579.9	653.5	630.4	23.04	28.367	
4,400.0	4,392.2	4,319.1	4,299.2	13.4	10.7	122.75	-62.9	-583.9	657.7	634.5	23.23	28.310	
4,465.0	4,457.2	4,383.5	4,362.9	13.6	10.9	122.61	-64.7	-592.7	666.6	643.0	23.65	28.182	
4,507.8	4,500.0	4,425.8	4,404.8	13.8	11.0	-81.05	-65.9	-598.5	672.3	648.4	23.93	28.092	
4,560.0	4,552.2	4,477.5	4,456.0	13.9	11.2	-81.27	-67.3	-605.5	679.1	654.8	24.27	27.980	
4,600.0	4,592.2	4,517.2	4,495.2	14.1	11.3	-81.43	-68.5	-610.9	684.3	659.8	24.53	27.896	
4,655.0	4,647.2	4,571.6	4,549.2	14.2	11.5	-81.65	-70.0	-618.3	691.5	666.7	24.89	27.782	
4,700.0	4,692.2	4,616.2	4,593.3	14.4	11.6	-81.83	-71.2	-624.4	697.4	672.3	25.19	27.690	
4,750.0	4,742.2	4,665.7	4,642.3	14.5	11.8	-82.02	-72.6	-631.1	704.0	678.5	25.52	27.590	
4,800.0	4,792.2	4,715.2	4,691.4	14.7	12.0	-82.21	-74.0	-637.9	710.6	684.7	25.85	27.492	
4,845.0	4,837.2	4,759.8	4,735.5	14.9	12.1	-82.37	-75.3	-644.0	716.5	690.3	26.14	27.404	
4,900.0	4,892.2	4,814.2	4,789.4	15.0	12.3	-82.57	-76.8	-651.4	723.7	697.2	26.51	27.300	
4,940.0	4,932.2	4,853.8	4,828.7	15.2	12.4	-82.72	-77.9	-656.8	729.0	702.2	26.78	27.225	
5,000.0	4,992.2	4,913.3	4,887.5	15.4	12.6	-82.93	-79.6	-664.9	736.9	709.7	27.18	27.116	
5,035.0	5,027.2	4,947.9	4,921.8	15.5	12.8	-83.05	-80.5	-669.6	741.5	714.1	27.41	27.053	
5,100.0	5,092.2	5,012.3	4,985.6	15.7	13.0	-83.27	-82.4	-678.4	750.1	722.3	27.85	26.939	
5,130.0	5,122.2	5,042.0	5,015.0	15.8	13.1	-83.37	-83.2	-682.4	754.1	726.0	28.05	26.887	
5,200.0	5,192.2	5,111.3	5,083.6	16.1	13.3	-83.60	-85.1	-691.9	763.3	734.8	28.52	26.768	
5,225.0	5,217.2	5,136.1	5,108.1	16.1	13.4	-83.68	-85.8	-695.3	766.7	738.0	28.69	26.726	
5,300.0	5,292.2	5,210.3	5,181.7	16.4	13.7	-83.91	-87.9	-705.4	776.6	747.4	29.19	26.603	
5,320.0	5,312.2	5,230.1	5,201.3	16.5	13.7	-83.98	-88.5	-708.1	779.3	749.9	29.33	26.571	
5,400.0	5,392.2	5,309.4	5,279.8	16.7	14.0	-84.22	-90.7	-718.9	789.9	760.0	29.87	26.445	
5,415.0	5,407.2	5,324.2	5,294.5	16.8	14.1	-84.27	-91.1	-720.9	791.9	761.9	29.97	26.421	
5,500.0	5,492.2	5,408.4	5,377.8	17.1	14.3	-84.52	-93.5	-732.4	803.2	772.6	30.55	26.292	
5,510.0	5,502.2	5,418.3	5,387.6	17.1	14.4	-84.55	-93.8	-733.7	804.5	773.9	30.62	26.277	
5,600.0	5,592.2	5,507.4	5,475.9	17.4	14.7	-84.80	-96.3	-745.9	816.5	785.3	31.23	26.145	
5,605.0	5,597.2	5,512.4	5,480.8	17.4	14.7	-84.82	-96.4	-746.6	817.2	785.9	31.26	26.138	
5,700.0	5,692.2	5,606.4	5,573.9	17.7	15.0	-85.08	-99.0	-759.4	829.8	797.9	31.91	26.003	
5,795.0	5,787.2	5,700.5	5,667.1	18.1	15.4	-85.34	-101.7	-772.2	842.5	810.0	32.56	25.873	
5,800.0	5,792.2	5,705.5	5,672.0	18.1	15.4	-85.35	-101.8	-772.9	843.2	810.6	32.60	25.866	
5,890.0	5,882.2	5,794.6	5,760.3	18.4	15.7	-85.59	-104.3	-785.0	855.2	822.0	33.22	25.747	
5,900.0	5,892.2	5,804.5	5,770.1	18.4	15.7	-85.61	-104.6	-786.4	856.6	823.3	33.29	25.734	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	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)			
5,985.0	5,977.2	5,888.7	5,853.4	18.7	16.0	-85.83	-107.0	-797.9	868.0	834.1	33.87	25.626	
6,000.0	5,992.2	5,903.5	5,868.1	18.8	16.1	-85.87	-107.4	-799.9	870.0	836.0	33.97	25.607	
6,080.0	6,072.2	5,982.7	5,946.6	19.0	16.4	-86.06	-109.6	-810.7	880.7	846.2	34.53	25.508	
6,100.0	6,092.2	6,002.6	5,966.2	19.1	16.4	-86.11	-110.2	-813.4	883.4	848.7	34.66	25.484	
6,175.0	6,167.2	6,076.8	6,039.7	19.4	16.7	-86.29	-112.2	-823.5	893.5	858.3	35.18	25.394	
6,200.0	6,192.2	6,101.6	6,064.3	19.5	16.8	-86.35	-112.9	-826.9	896.8	861.5	35.36	25.365	
6,270.0	6,262.2	6,170.9	6,132.9	19.7	17.0	-86.51	-114.9	-836.3	906.2	870.4	35.84	25.284	
6,300.0	6,292.2	6,200.6	6,162.3	19.8	17.1	-86.58	-115.7	-840.4	910.3	874.2	36.05	25.250	
6,365.0	6,357.2	6,265.0	6,226.1	20.0	17.4	-86.73	-117.5	-849.2	919.0	882.5	36.50	25.178	
6,400.0	6,392.2	6,299.6	6,260.4	20.2	17.5	-86.80	-118.5	-853.9	923.7	887.0	36.74	25.139	
6,460.0	6,452.2	6,359.1	6,319.2	20.4	17.7	-86.93	-120.2	-862.0	931.8	894.6	37.16	25.074	
6,500.0	6,492.2	6,398.7	6,358.4	20.5	17.8	-87.02	-121.3	-867.4	937.2	899.7	37.44	25.032	
6,555.0	6,547.2	6,453.1	6,412.4	20.7	18.0	-87.14	-122.8	-874.8	944.6	906.8	37.82	24.974	
6,600.0	6,592.2	6,497.7	6,456.5	20.8	18.2	-87.23	-124.1	-880.9	950.7	912.5	38.14	24.928	
6,650.0	6,642.2	6,547.2	6,505.5	21.0	18.4	-87.34	-125.4	-887.6	957.4	918.9	38.48	24.878	
6,700.0	6,692.2	6,596.7	6,554.6	21.2	18.5	-87.44	-126.8	-894.4	964.2	925.3	38.83	24.828	
6,745.0	6,737.2	6,641.3	6,598.7	21.3	18.7	-87.53	-128.1	-900.4	970.2	931.1	39.15	24.784	
6,800.0	6,792.2	6,695.7	6,652.6	21.5	18.9	-87.64	-129.6	-907.9	977.7	938.1	39.53	24.731	
6,840.0	6,832.2	6,735.4	6,691.9	21.7	19.0	-87.72	-130.7	-913.3	983.1	943.3	39.81	24.693	
6,900.0	6,892.2	6,794.8	6,750.7	21.9	19.3	-87.83	-132.4	-921.4	991.2	950.9	40.23	24.636	
6,935.0	6,927.2	6,829.4	6,785.0	22.0	19.4	-87.90	-133.4	-926.1	995.9	955.4	40.48	24.604 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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	2.1	2.1	3.0	3.0	89.43	0.3	30.0	30.0				
1.0	1.0	3.1	3.1	3.0	3.0	89.43	0.3	30.0	30.0				
4.2	4.2	6.3	6.3	3.0	3.0	136.39	0.3	30.0	30.0				
95.0	95.0	97.1	97.1	3.0	3.0	136.49	0.4	30.0	30.1	24.1	6.00	5.023	
101.0	101.0	103.1	103.1	3.0	3.0	136.51	0.4	30.0	30.2	24.2	6.00	5.026	
126.0	126.0	128.3	128.3	3.0	3.0	152.90	0.5	29.9	30.2	24.2	6.00	5.031	
151.0	151.0	153.1	153.1	3.0	3.0	145.20	0.6	29.8	30.3	24.3	6.00	5.040	
176.0	176.0	178.3	178.3	3.0	3.0	135.80	0.8	29.7	30.3	24.3	6.00	5.043	
190.0	190.0	192.3	192.3	3.0	3.0	128.03	0.9	29.6	30.3	24.3	6.01	5.040	
193.5	193.5	195.8	195.8	3.0	3.0	126.62	0.9	29.6	30.3	24.3	6.01	5.040	
201.0	201.0	203.3	203.3	3.0	3.0	124.11	1.0	29.5	30.3	24.3	6.01	5.040	
226.0	226.0	228.3	228.3	3.0	3.0	114.21	1.2	29.4	30.2	24.2	6.01	5.032	
251.0	251.0	253.4	253.4	3.0	3.0	108.59	1.4	29.1	30.1	24.1	6.01	5.012	
276.0	276.0	278.4	278.4	3.0	3.0	118.54	1.7	28.9	30.0	24.0	6.01	4.990	
285.0	285.0	287.4	287.4	3.0	3.0	121.21	1.8	28.8	30.0	24.0	6.01	4.984	
301.0	301.0	303.4	303.4	3.0	3.0	125.37	2.0	28.7	29.9	23.9	6.02	4.975	
326.0	326.0	328.4	328.4	3.0	3.0	133.47	2.2	28.4	29.9	23.9	6.02	4.966	
334.6	334.6	337.0	337.0	3.0	3.0	135.53	2.3	28.3	29.9	23.9	6.02	4.964	
351.0	351.0	353.4	353.4	3.0	3.0	139.25	2.5	28.1	29.9	23.9	6.03	4.963	
376.0	376.0	378.4	378.4	3.0	3.0	140.87	2.7	27.9	30.0	23.9	6.03	4.967	
380.0	380.0	382.4	382.4	3.0	3.0	140.10	2.8	27.9	30.0	23.9	6.03	4.968	
401.0	401.0	403.5	403.5	3.0	3.0	135.97	3.0	27.6	30.0	23.9	6.04	4.963	
426.0	426.0	428.5	428.5	3.0	3.0	140.31	3.3	27.3	29.9	23.9	6.04	4.952	
451.0	451.0	453.6	453.5	3.0	3.0	143.87	3.6	26.9	29.9	23.8	6.05	4.939	
475.0	475.0	477.7	477.6	3.0	3.0	154.14	4.0	26.5	29.8	23.7	6.05	4.921	
476.0	476.0	478.7	478.6	3.0	3.0	154.55	4.0	26.5	29.8	23.7	6.06	4.921	
501.0	501.0	503.7	503.6	3.1	3.1	152.54	4.3	26.0	29.7	23.6	6.06	4.898	
526.0	526.0	528.7	528.6	3.1	3.1	156.16	4.7	25.5	29.6	23.5	6.07	4.878	
548.3	548.2	550.9	550.8	3.1	3.1	160.72	5.0	25.1	29.6	23.5	6.08	4.867 CC	
551.0	551.0	553.6	553.6	3.1	3.1	161.29	5.0	25.0	29.6	23.5	6.08	4.867 ES	
570.0	570.0	572.6	572.5	3.1	3.1	165.84	5.2	24.7	29.6	23.5	6.09	4.863	
576.0	576.0	578.6	578.5	3.1	3.1	167.32	5.2	24.6	29.6	23.5	6.09	4.863	
601.0	601.0	603.6	603.5	3.1	3.1	170.31	5.4	24.2	29.7	23.6	6.10	4.862	
626.0	625.9	628.6	628.5	3.1	3.1	178.27	5.7	23.8	29.7	23.6	6.11	4.862	
651.0	650.9	653.5	653.5	3.1	3.1	174.55	5.8	23.4	29.7	23.6	6.12	4.859	
665.0	664.9	667.5	667.4	3.1	3.1	177.52	5.9	23.2	29.8	23.6	6.13	4.857	
676.0	675.9	678.5	678.4	3.1	3.1	179.71	6.0	23.1	29.8	23.7	6.13	4.857	
701.0	700.9	703.5	703.4	3.1	3.1	-174.32	6.1	22.8	29.9	23.7	6.15	4.861	
726.0	725.9	728.5	728.4	3.1	3.1	-164.50	6.3	22.4	30.0	23.8	6.16	4.866	
751.0	750.9	753.5	753.4	3.1	3.1	-157.63	6.4	22.1	30.1	23.9	6.17	4.870	
760.0	759.9	762.5	762.4	3.1	3.1	-160.07	6.4	22.0	30.1	23.9	6.18	4.871	
776.0	775.9	778.6	778.5	3.1	3.1	-164.13	6.4	21.7	30.1	24.0	6.19	4.872	
801.0	800.9	803.6	803.5	3.1	3.1	-160.59	6.5	21.3	30.2	24.0	6.20	4.873	
826.0	825.9	828.6	828.5	3.1	3.2	-152.68	6.5	20.9	30.2	24.0	6.21	4.867	
851.0	850.9	853.6	853.5	3.1	3.2	-164.76	6.6	20.5	30.3	24.1	6.23	4.861	
855.0	854.9	857.6	857.5	3.1	3.2	-163.59	6.6	20.4	30.3	24.1	6.23	4.861	
876.0	875.9	878.7	878.6	3.2	3.2	-157.40	6.6	20.0	30.3	24.1	6.24	4.852	
901.0	900.9	903.8	903.7	3.2	3.2	-155.51	6.6	19.5	30.2	24.0	6.26	4.829	
926.0	925.9	928.8	928.7	3.2	3.2	-162.56	6.5	18.9	30.1	23.8	6.28	4.789	
939.5	939.4	942.0	941.9	3.2	3.2	-165.70	6.5	18.6	29.9	23.6	6.29	4.759 SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - AWP												Offset Site Error: 3.0 usft		
Survey Program: 1-Standard Keeper 104		Reference Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
950.0	949.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	31.7	25.7	6.00	5.283		
1,000.0	999.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	67.5	63.1	4.42	15.279		
1,045.0	1,044.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	109.6	105.6	4.00	27.427		
1,054.0	1,053.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	118.3	114.4	3.96	29.889		
1,100.0	1,099.9	942.0	941.9	3.2	3.2	-168.59	6.5	18.6	163.2	159.4	3.85	42.387		
1,140.0	1,139.9	942.0	941.9	3.3	3.2	-168.59	6.5	18.6	202.7	198.9	3.82	53.083		
1,154.0	1,153.9	942.0	941.9	3.3	3.2	-168.59	6.5	18.6	216.6	212.7	3.81	56.789		
1,200.0	1,199.9	942.0	941.9	3.3	3.2	-168.94	6.5	18.6	262.2	258.4	3.81	68.827		
1,235.0	1,234.9	942.0	941.9	3.3	3.2	-169.24	6.5	18.6	297.0	293.1	3.81	77.841		
1,294.0	1,293.9	942.0	941.9	3.4	3.2	80.26	6.5	18.6	355.7	351.8	3.83	92.779		
1,300.0	1,299.9	942.0	941.9	3.4	3.2	80.26	6.5	18.6	361.6	357.8	3.84	94.294		
1,330.0	1,329.9	942.0	941.9	3.5	3.2	80.26	6.5	18.6	391.5	387.7	3.85	101.715		
1,400.0	1,399.9	942.0	941.9	3.6	3.2	80.26	6.5	18.6	461.3	457.4	3.89	118.717		
1,425.0	1,424.9	942.0	941.9	3.6	3.2	80.26	6.5	18.6	486.2	482.3	3.90	124.653		
1,500.0	1,499.9	942.0	941.9	3.8	3.2	80.26	6.5	18.6	561.1	557.1	3.95	142.138		
1,520.0	1,519.9	942.0	941.9	3.8	3.2	80.26	6.5	18.6	581.1	577.1	3.96	146.694		
1,600.0	1,599.9	942.0	941.9	4.0	3.2	80.26	6.5	18.6	660.9	656.9	4.02	164.576		
1,615.0	1,614.9	942.0	941.9	4.1	3.2	80.26	6.5	18.6	675.9	671.9	4.03	167.848		
1,700.0	1,699.9	942.0	941.9	4.3	3.2	80.26	6.5	18.6	760.8	756.7	4.09	186.035		
1,710.0	1,709.9	942.0	941.9	4.3	3.2	80.26	6.5	18.6	770.8	766.7	4.10	188.120		
1,800.0	1,799.9	942.0	941.9	4.6	3.2	80.26	6.5	18.6	860.7	856.6	4.17	206.523		
1,805.0	1,804.9	942.0	941.9	4.6	3.2	80.26	6.5	18.6	865.7	861.6	4.17	207.518		
1,900.0	1,899.9	942.0	941.9	4.9	3.2	80.26	6.5	18.6	960.7	956.4	4.25	226.054		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program:		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	2.1	2.1	3.0	3.0	89.43	0.3	30.0	30.0					
1.0	1.0	3.1	3.1	3.0	3.0	89.43	0.3	30.0	30.0					
4.2	4.2	6.3	6.3	3.0	3.0	136.39	0.3	30.0	30.0					
95.0	95.0	97.1	97.1	3.0	3.0	136.49	0.4	30.0	30.1	24.1	6.00	5.023		
101.0	101.0	103.1	103.1	3.0	3.0	136.51	0.4	30.0	30.2	24.2	6.00	5.026		
126.0	126.0	128.3	128.3	3.0	3.0	152.90	0.5	29.9	30.2	24.2	6.00	5.031		
151.0	151.0	153.1	153.1	3.0	3.0	145.20	0.6	29.8	30.3	24.3	6.00	5.040		
176.0	176.0	178.3	178.3	3.0	3.0	135.80	0.8	29.7	30.3	24.3	6.00	5.043		
190.0	190.0	192.3	192.3	3.0	3.0	128.03	0.9	29.6	30.3	24.3	6.01	5.040		
193.5	193.5	195.8	195.8	3.0	3.0	126.62	0.9	29.6	30.3	24.3	6.01	5.040		
201.0	201.0	203.3	203.3	3.0	3.0	124.11	1.0	29.5	30.3	24.3	6.01	5.040		
226.0	226.0	228.3	228.3	3.0	3.0	114.21	1.2	29.4	30.2	24.2	6.01	5.032		
251.0	251.0	253.4	253.4	3.0	3.0	108.59	1.4	29.1	30.1	24.1	6.01	5.012		
276.0	276.0	278.4	278.4	3.0	3.0	118.54	1.7	28.9	30.0	24.0	6.01	4.990		
285.0	285.0	287.4	287.4	3.0	3.0	121.21	1.8	28.8	30.0	24.0	6.01	4.984		
301.0	301.0	303.4	303.4	3.0	3.0	125.37	2.0	28.7	29.9	23.9	6.02	4.975		
326.0	326.0	328.4	328.4	3.0	3.0	133.47	2.2	28.4	29.9	23.9	6.02	4.966		
334.6	334.6	337.0	337.0	3.0	3.0	135.53	2.3	28.3	29.9	23.9	6.02	4.964		
351.0	351.0	353.4	353.4	3.0	3.0	139.25	2.5	28.1	29.9	23.9	6.03	4.963		
376.0	376.0	378.4	378.4	3.0	3.0	140.87	2.7	27.9	30.0	23.9	6.03	4.967		
380.0	380.0	382.4	382.4	3.0	3.0	140.10	2.8	27.9	30.0	23.9	6.03	4.968		
401.0	401.0	403.5	403.5	3.0	3.0	135.97	3.0	27.6	30.0	23.9	6.04	4.963		
426.0	426.0	428.5	428.5	3.0	3.0	140.31	3.3	27.3	29.9	23.9	6.04	4.952		
451.0	451.0	453.6	453.5	3.0	3.0	143.87	3.6	26.9	29.9	23.8	6.05	4.939		
475.0	475.0	477.7	477.6	3.0	3.0	154.14	4.0	26.5	29.8	23.7	6.05	4.921		
476.0	476.0	478.7	478.6	3.0	3.0	154.55	4.0	26.5	29.8	23.7	6.06	4.921		
501.0	501.0	503.7	503.6	3.1	3.1	152.54	4.3	26.0	29.7	23.6	6.06	4.898		
526.0	526.0	528.7	528.6	3.1	3.1	156.16	4.7	25.5	29.6	23.5	6.07	4.878		
548.3	548.2	550.9	550.8	3.1	3.1	160.72	5.0	25.1	29.6	23.5	6.08	4.867		
551.0	551.0	553.6	553.6	3.1	3.1	161.29	5.0	25.0	29.6	23.5	6.08	4.867		
570.0	570.0	572.6	572.5	3.1	3.1	165.84	5.2	24.7	29.6	23.5	6.09	4.863		
576.0	576.0	578.6	578.5	3.1	3.1	167.32	5.2	24.6	29.6	23.5	6.09	4.863		
601.0	601.0	603.6	603.5	3.1	3.1	170.31	5.4	24.2	29.7	23.6	6.10	4.862		
626.0	625.9	628.6	628.5	3.1	3.1	178.27	5.7	23.8	29.7	23.6	6.11	4.862		
651.0	650.9	653.5	653.5	3.1	3.1	174.55	5.8	23.4	29.7	23.6	6.12	4.859		
665.0	664.9	667.5	667.4	3.1	3.1	177.52	5.9	23.2	29.8	23.6	6.13	4.857		
676.0	675.9	678.5	678.4	3.1	3.1	179.71	6.0	23.1	29.8	23.7	6.13	4.857		
701.0	700.9	703.5	703.4	3.1	3.1	-174.32	6.1	22.8	29.9	23.7	6.15	4.861		
726.0	725.9	728.5	728.4	3.1	3.1	-164.50	6.3	22.4	30.0	23.8	6.16	4.866		
751.0	750.9	753.5	753.4	3.1	3.1	-157.63	6.4	22.1	30.1	23.9	6.17	4.870		
760.0	759.9	762.5	762.4	3.1	3.1	-160.07	6.4	22.0	30.1	23.9	6.18	4.871		
776.0	775.9	778.6	778.5	3.1	3.1	-164.13	6.4	21.7	30.1	24.0	6.19	4.872		
801.0	800.9	803.6	803.5	3.1	3.1	-160.59	6.5	21.3	30.2	24.0	6.20	4.873		
826.0	825.9	828.6	828.5	3.1	3.2	-152.68	6.5	20.9	30.2	24.0	6.21	4.867		
851.0	850.9	853.6	853.5	3.1	3.2	-164.76	6.6	20.5	30.3	24.1	6.23	4.861		
855.0	854.9	857.6	857.5	3.1	3.2	-163.59	6.6	20.4	30.3	24.1	6.23	4.861		
876.0	875.9	878.7	878.6	3.2	3.2	-157.40	6.6	20.0	30.3	24.1	6.24	4.852		
901.0	900.9	903.8	903.7	3.2	3.2	-155.51	6.6	19.5	30.2	24.0	6.26	4.829		
926.0	925.9	928.8	928.7	3.2	3.2	-162.56	6.5	18.9	30.1	23.8	6.28	4.789		
950.0	949.9	952.8	952.7	3.2	3.2	-168.71	6.5	18.3	29.8	23.5	6.29	4.735		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS							Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,000.0	999.9	1,002.8	1,002.7	3.2	3.2	-169.26	6.5	17.1	29.2	22.9	6.32	4.620		
1,045.0	1,044.9	1,047.8	1,047.7	3.2	3.2	-169.77	6.5	16.0	28.6	22.3	6.34	4.514		
1,054.0	1,053.9	1,056.8	1,056.7	3.2	3.2	-169.88	6.5	15.8	28.5	22.2	6.35	4.492		
1,100.0	1,099.9	1,102.8	1,102.7	3.2	3.3	-170.43	6.4	14.6	27.9	21.6	6.39	4.374		
1,140.0	1,139.9	1,142.8	1,142.6	3.3	3.3	-170.93	6.4	13.7	27.5	21.0	6.44	4.262		
1,154.0	1,153.9	1,156.8	1,156.6	3.3	3.3	-171.11	6.4	13.3	27.3	20.8	6.46	4.223		
1,200.0	1,199.9	1,202.6	1,202.4	3.3	3.3	-171.60	6.4	12.4	26.8	20.3	6.54	4.105		
1,235.0	1,234.9	1,237.4	1,237.2	3.3	3.4	-171.85	6.4	11.9	26.6	20.0	6.61	4.028		
1,294.0	1,293.9	1,296.2	1,296.0	3.4	3.4	78.03	6.4	11.7	26.5	19.8	6.74	3.931		
1,300.0	1,299.9	1,302.2	1,302.0	3.4	3.4	78.03	6.4	11.7	26.5	19.8	6.76	3.923		
1,330.0	1,329.9	1,332.2	1,332.0	3.5	3.5	78.03	6.4	11.7	26.5	19.7	6.85	3.872		
1,400.0	1,399.9	1,402.2	1,402.0	3.6	3.6	78.03	6.4	11.7	26.5	19.4	7.07	3.750		
1,425.0	1,424.9	1,427.2	1,427.0	3.6	3.6	78.03	6.4	11.7	26.5	19.3	7.19	3.689		
1,500.0	1,499.9	1,502.2	1,502.0	3.8	3.8	78.03	6.4	11.7	26.5	19.0	7.53	3.520		
1,520.0	1,519.9	1,522.2	1,522.0	3.8	3.8	78.03	6.4	11.7	26.5	18.9	7.63	3.476		
1,600.0	1,599.9	1,602.2	1,602.0	4.0	4.0	78.03	6.4	11.7	26.5	18.5	8.03	3.300		
1,615.0	1,614.9	1,617.2	1,617.0	4.1	4.1	78.03	6.4	11.7	26.5	18.4	8.11	3.268		
1,700.0	1,699.9	1,702.2	1,702.0	4.3	4.3	78.03	6.4	11.7	26.5	17.9	8.57	3.095		
1,710.0	1,709.9	1,712.2	1,712.0	4.3	4.4	78.03	6.4	11.7	26.5	17.9	8.62	3.075		
1,800.0	1,799.9	1,802.2	1,802.0	4.6	4.6	78.03	6.4	11.7	26.5	17.4	9.12	2.906		
1,805.0	1,804.9	1,807.2	1,807.0	4.6	4.6	78.03	6.4	11.7	26.5	17.4	9.15	2.897		
1,900.0	1,899.9	1,902.2	1,902.0	4.9	4.9	78.03	6.4	11.7	26.5	16.8	9.70	2.733		
1,995.0	1,994.9	1,997.2	1,997.0	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.27	2.582		
1,995.2	1,995.1	1,997.4	1,997.2	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.27	2.582 CC		
2,000.1	2,000.0	2,002.3	2,002.1	5.2	5.2	78.03	6.4	11.7	26.5	16.2	10.30	2.574 ES		
2,090.0	2,089.9	2,091.4	2,091.1	5.5	5.6	-80.27	6.2	13.1	27.6	16.7	10.92	2.531 SF		
2,100.0	2,099.9	2,101.3	2,101.0	5.5	5.6	-80.69	6.2	13.4	27.9	16.9	10.99	2.538		
2,185.0	2,184.7	2,185.4	2,185.0	6.0	6.1	-85.41	5.7	17.6	31.3	19.6	11.67	2.679		
2,200.0	2,199.7	2,200.0	2,199.6	6.1	6.2	-86.38	5.5	18.6	32.1	20.3	11.79	2.723		
2,250.1	2,249.7	2,249.7	2,249.1	6.3	6.5	-89.76	5.1	22.4	35.4	23.3	12.17	2.912		
2,280.0	2,279.4	2,279.1	2,278.4	6.3	6.7	-91.58	4.8	25.1	37.8	25.4	12.37	3.058		
2,300.0	2,299.4	2,298.8	2,298.0	6.4	6.8	-92.54	4.5	27.1	39.6	27.1	12.50	3.167		
2,375.0	2,374.1	2,372.4	2,371.2	6.6	7.3	-94.62	3.5	35.6	47.2	34.2	13.00	3.635		
2,400.0	2,399.0	2,396.9	2,395.5	6.7	7.5	-94.88	3.1	38.9	50.2	37.0	13.16	3.811		
2,470.0	2,468.7	2,465.3	2,463.0	6.9	7.8	-94.85	1.9	49.1	59.2	45.6	13.60	4.355		
2,500.0	2,498.6	2,494.8	2,492.2	7.0	7.9	-94.61	1.3	53.9	63.5	49.7	13.78	4.607		
2,565.0	2,563.4	2,559.1	2,555.6	7.2	8.0	-94.16	0.0	64.4	72.7	58.6	14.16	5.136		
2,600.0	2,598.2	2,593.8	2,589.8	7.3	8.1	-93.96	-0.7	70.1	77.7	63.3	14.36	5.409		
2,660.0	2,658.0	2,653.2	2,648.4	7.5	8.3	-93.67	-1.9	79.8	86.2	71.5	14.72	5.858		
2,700.0	2,697.8	2,692.8	2,687.4	7.6	8.4	-93.51	-2.6	86.3	91.9	77.0	14.96	6.145		
2,755.0	2,752.6	2,747.2	2,741.1	7.8	8.5	-93.32	-3.7	95.2	99.7	84.4	15.29	6.523		
2,800.0	2,797.5	2,791.7	2,785.0	7.9	8.7	-93.18	-4.6	102.5	106.1	90.6	15.56	6.820		
2,850.0	2,847.3	2,841.2	2,833.8	8.1	8.8	-93.05	-5.6	110.7	113.2	97.4	15.87	7.136		
2,900.0	2,897.1	2,890.7	2,882.7	8.3	8.9	-92.93	-6.6	118.8	120.4	104.2	16.18	7.439		
2,945.0	2,941.9	2,935.3	2,926.6	8.4	9.1	-92.84	-7.5	126.1	126.8	110.3	16.46	7.702		
3,000.0	2,996.7	2,989.7	2,980.3	8.6	9.2	-92.73	-8.5	135.0	134.6	117.8	16.80	8.009		
3,040.0	3,036.6	3,029.3	3,019.3	8.7	9.4	-92.67	-9.3	141.5	140.3	123.2	17.06	8.224		
3,100.0	3,096.3	3,088.7	3,077.9	8.9	9.5	-92.58	-10.5	151.2	148.8	131.4	17.44	8.534		
3,135.0	3,131.2	3,123.3	3,112.1	9.1	9.7	-92.53	-11.2	156.9	153.8	136.1	17.66	8.708		
3,200.0	3,195.9	3,187.7	3,175.5	9.3	9.9	-92.44	-12.5	167.4	163.0	145.0	18.08	9.018		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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	3,225.8	3,217.4	3,204.8	9.4	9.9	-92.41	-13.0	172.3	167.3	149.0	18.27	9.156	
3,300.0	3,295.6	3,286.7	3,273.2	9.6	10.2	-92.33	-14.4	183.6	177.3	158.5	18.73	9.465	
3,325.0	3,320.5	3,311.4	3,297.6	9.7	10.2	-92.31	-14.9	187.7	180.8	161.9	18.89	9.571	
3,400.0	3,395.2	3,385.6	3,370.8	10.0	10.5	-92.24	-16.4	199.9	191.5	172.1	19.38	9.879	
3,420.0	3,415.1	3,405.4	3,390.3	10.0	10.5	-92.22	-16.8	203.1	194.3	174.8	19.52	9.958	
3,500.0	3,494.8	3,484.6	3,468.4	10.3	10.8	-92.16	-18.3	216.1	205.7	185.7	20.05	10.262	
3,515.0	3,509.7	3,499.5	3,483.1	10.3	10.8	-92.15	-18.6	218.5	207.9	187.7	20.15	10.318	
3,600.0	3,594.4	3,583.6	3,566.0	10.6	11.1	-92.09	-20.3	232.3	220.0	199.2	20.71	10.619	
3,610.0	3,604.4	3,593.5	3,575.8	10.7	11.2	-92.08	-20.5	233.9	221.4	200.6	20.78	10.653	
3,700.0	3,694.0	3,682.6	3,663.7	11.0	11.4	-92.02	-22.3	248.5	234.2	212.8	21.39	10.950	
3,705.0	3,699.0	3,687.5	3,668.5	11.0	11.5	-92.02	-22.4	249.3	234.9	213.5	21.42	10.966	
3,800.0	3,793.7	3,781.6	3,761.3	11.3	11.8	-91.97	-24.2	264.7	248.4	226.4	22.06	11.260	
3,895.0	3,888.3	3,875.6	3,854.0	11.7	12.1	-91.92	-26.1	280.1	261.9	239.2	22.71	11.534	
3,900.0	3,893.3	3,880.6	3,858.9	11.7	12.1	-91.92	-26.2	281.0	262.6	239.9	22.74	11.548	
3,990.0	3,982.9	3,969.6	3,946.8	12.0	12.4	-91.88	-28.0	295.6	275.5	252.1	23.36	11.791	
4,007.7	4,000.6	3,987.2	3,964.1	12.1	12.5	-91.87	-28.3	298.4	278.0	254.5	23.48	11.837	
4,085.0	4,077.6	4,063.7	4,039.5	12.3	12.7	-91.85	-29.8	311.0	289.0	264.9	24.01	12.033	
4,100.0	4,092.6	4,078.5	4,054.2	12.4	12.8	-91.82	-30.1	313.4	291.1	267.0	24.12	12.070	
4,180.0	4,172.4	4,157.7	4,132.2	12.7	13.1	-91.56	-31.7	326.4	302.4	277.8	24.67	12.260	
4,200.0	4,192.4	4,177.5	4,151.8	12.7	13.1	-91.47	-32.1	329.6	305.2	280.4	24.80	12.306	
4,275.0	4,267.3	4,251.7	4,224.9	13.0	13.4	-91.02	-33.6	341.8	315.9	290.5	25.32	12.475	
4,300.0	4,292.3	4,276.4	4,249.3	13.1	13.5	-90.84	-34.0	345.8	319.4	293.9	25.49	12.530	
4,370.0	4,362.2	4,345.6	4,317.5	13.3	13.7	-90.26	-35.4	357.2	329.4	303.4	25.97	12.680	
4,400.0	4,392.2	4,375.2	4,346.8	13.4	13.8	-89.97	-36.0	362.0	333.6	307.4	26.18	12.744	
4,465.0	4,457.2	4,439.4	4,410.1	13.6	14.0	-89.30	-37.3	372.5	342.9	316.3	26.61	12.886	
4,507.8	4,500.0	4,481.6	4,451.7	13.8	14.2	67.64	-38.1	379.4	349.1	322.2	26.90	12.979	
4,560.0	4,552.2	4,533.1	4,502.5	13.9	14.4	68.31	-39.1	387.9	356.7	329.4	27.25	13.088	
4,600.0	4,592.2	4,572.5	4,541.4	14.1	14.5	68.81	-39.9	394.4	362.5	335.0	27.52	13.171	
4,655.0	4,647.2	4,626.8	4,594.9	14.2	14.7	69.47	-41.0	403.2	370.5	342.6	27.90	13.283	
4,700.0	4,692.2	4,671.2	4,638.7	14.4	14.8	69.99	-41.9	410.5	377.2	349.0	28.20	13.374	
4,750.0	4,742.2	4,720.5	4,687.3	14.5	15.0	70.54	-42.9	418.6	384.6	356.0	28.54	13.473	
4,800.0	4,792.2	4,769.8	4,735.9	14.7	15.2	71.08	-43.8	426.7	392.0	363.1	28.89	13.570	
4,845.0	4,837.2	4,814.2	4,779.7	14.9	15.4	71.54	-44.7	433.9	398.7	369.5	29.19	13.657	
4,900.0	4,892.2	4,868.4	4,833.2	15.0	15.5	72.09	-45.8	442.8	407.0	377.4	29.57	13.762	
4,940.0	4,932.2	4,907.9	4,872.1	15.2	15.7	72.47	-46.6	449.3	413.0	383.1	29.85	13.836	
5,000.0	4,992.2	4,967.0	4,930.5	15.4	15.9	73.02	-47.7	459.0	422.0	391.8	30.26	13.947	
5,035.0	5,027.2	5,001.6	4,964.5	15.5	16.0	73.34	-48.4	464.7	427.3	396.8	30.50	14.011	
5,100.0	5,092.2	5,065.7	5,027.8	15.7	16.3	73.90	-49.7	475.2	437.2	406.3	30.95	14.127	
5,130.0	5,122.2	5,095.3	5,057.0	15.8	16.4	74.15	-50.3	480.0	441.8	410.6	31.16	14.180	
5,200.0	5,192.2	5,164.3	5,125.0	16.1	16.6	74.71	-51.7	491.3	452.5	420.8	31.64	14.301	
5,225.0	5,217.2	5,189.0	5,149.4	16.1	16.7	74.91	-52.1	495.4	456.3	424.5	31.81	14.344	
5,300.0	5,292.2	5,262.9	5,222.3	16.4	17.0	75.48	-53.6	507.5	467.8	435.5	32.33	14.470	
5,320.0	5,312.2	5,282.7	5,241.8	16.5	17.0	75.62	-54.0	510.7	470.9	438.4	32.47	14.503	
5,400.0	5,392.2	5,361.6	5,319.6	16.7	17.3	76.19	-55.6	523.6	483.3	450.2	33.02	14.634	
5,415.0	5,407.2	5,376.4	5,334.2	16.8	17.4	76.29	-55.9	526.1	485.6	452.5	33.13	14.658	
5,500.0	5,492.2	5,460.2	5,416.9	17.1	17.7	76.86	-57.5	539.8	498.8	465.0	33.72	14.792	
5,510.0	5,502.2	5,470.0	5,426.6	17.1	17.7	76.92	-57.7	541.4	500.3	466.5	33.79	14.808	
5,600.0	5,592.2	5,558.8	5,514.1	17.4	18.0	77.49	-59.5	556.0	514.3	479.9	34.41	14.945	
5,605.0	5,597.2	5,563.7	5,519.0	17.4	18.1	77.52	-59.6	556.8	515.1	480.7	34.45	14.953	
5,700.0	5,692.2	5,657.4	5,611.4	17.7	18.4	78.08	-61.4	572.1	529.9	494.8	35.11	15.094	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program:		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,795.0	5,787.2	5,751.1	5,703.8	18.1	18.7	78.61	-63.3	587.5	544.8	509.1	35.77	15.230		
5,800.0	5,792.2	5,756.1	5,708.7	18.1	18.8	78.64	-63.4	588.3	545.6	509.8	35.81	15.237		
5,890.0	5,882.2	5,844.8	5,796.2	18.4	19.1	79.11	-65.1	602.8	559.8	523.3	36.44	15.362		
5,900.0	5,892.2	5,854.7	5,806.0	18.4	19.1	79.17	-65.3	604.5	561.3	524.8	36.51	15.376		
5,985.0	5,977.2	5,938.5	5,888.7	18.7	19.4	79.59	-67.0	618.2	574.7	537.6	37.10	15.490		
6,000.0	5,992.2	5,953.3	5,903.2	18.8	19.5	79.66	-67.3	620.6	577.1	539.9	37.21	15.510		
6,080.0	6,072.2	6,032.2	5,981.1	19.0	19.8	80.04	-68.9	633.5	589.7	552.0	37.77	15.615		
6,100.0	6,092.2	6,052.0	6,000.5	19.1	19.9	80.14	-69.2	636.8	592.9	555.0	37.91	15.640		
6,175.0	6,167.2	6,125.9	6,073.5	19.4	20.1	80.47	-70.7	648.9	604.8	566.3	38.43	15.735		
6,200.0	6,192.2	6,150.6	6,097.8	19.5	20.2	80.58	-71.2	652.9	608.7	570.1	38.61	15.766		
6,270.0	6,262.2	6,219.6	6,165.9	19.7	20.5	80.88	-72.6	664.3	619.8	580.7	39.10	15.852		
6,300.0	6,292.2	6,249.2	6,195.1	19.8	20.6	81.01	-73.2	669.1	624.6	585.3	39.31	15.888		
6,365.0	6,357.2	6,313.3	6,258.3	20.0	20.8	81.27	-74.4	679.6	635.0	595.2	39.77	15.966		
6,400.0	6,392.2	6,347.8	6,292.4	20.2	21.0	81.41	-75.1	685.3	640.5	600.5	40.02	16.007		
6,460.0	6,452.2	6,407.0	6,350.7	20.4	21.2	81.65	-76.3	695.0	650.1	609.6	40.44	16.076		
6,500.0	6,492.2	6,446.5	6,389.6	20.5	21.3	81.80	-77.1	701.4	656.5	615.7	40.72	16.121		
6,555.0	6,547.2	6,500.7	6,443.1	20.7	21.5	82.00	-78.1	710.3	665.2	624.1	41.11	16.183		
6,600.0	6,592.2	6,545.1	6,486.9	20.8	21.7	82.16	-79.0	717.6	672.4	631.0	41.43	16.232		
6,650.0	6,642.2	6,594.4	6,535.5	21.0	21.9	82.34	-80.0	725.7	680.4	638.6	41.78	16.286		
6,700.0	6,692.2	6,643.7	6,584.2	21.2	22.1	82.51	-81.0	733.7	688.4	646.3	42.13	16.340		
6,745.0	6,737.2	6,688.1	6,628.0	21.3	22.2	82.66	-81.9	741.0	695.6	653.2	42.45	16.387		
6,800.0	6,792.2	6,742.4	6,681.5	21.5	22.4	82.85	-82.9	749.9	704.4	661.6	42.84	16.444		
6,840.0	6,832.2	6,781.8	6,720.4	21.7	22.6	82.97	-83.7	756.4	710.8	667.7	43.12	16.485		
6,900.0	6,892.2	6,841.0	6,778.7	21.9	22.8	83.16	-84.9	766.1	720.5	676.9	43.54	16.545		
6,935.0	6,927.2	6,875.5	6,812.8	22.0	22.9	83.27	-85.6	771.7	726.1	682.3	43.79	16.580		
7,000.0	6,992.2	6,939.6	6,876.0	22.2	23.2	83.47	-86.8	782.2	736.5	692.3	44.25	16.644		
7,030.0	7,022.2	6,969.2	6,905.2	22.3	23.3	83.56	-87.4	787.1	741.3	696.9	44.46	16.672		
7,100.0	7,092.2	7,038.2	6,973.3	22.6	23.5	83.76	-88.8	798.4	752.6	707.6	44.96	16.739		
7,125.0	7,117.2	7,062.9	6,997.6	22.7	23.6	83.83	-89.3	802.4	756.6	711.5	45.14	16.762		
7,200.0	7,192.2	7,136.9	7,070.6	22.9	23.9	84.04	-90.8	814.6	768.7	723.0	45.67	16.831		
7,220.0	7,212.2	7,156.6	7,090.0	23.0	24.0	84.09	-91.2	817.8	771.9	726.1	45.81	16.850		
7,300.0	7,292.2	7,235.5	7,167.8	23.3	24.3	84.31	-92.7	830.7	784.8	738.4	46.38	16.921		
7,315.0	7,307.2	7,250.3	7,182.4	23.3	24.3	84.35	-93.0	833.1	787.2	740.7	46.49	16.935		
7,400.0	7,392.2	7,334.1	7,265.1	23.6	24.6	84.57	-94.7	846.9	800.9	753.8	47.09	17.009		
7,410.0	7,402.2	7,344.0	7,274.8	23.7	24.7	84.59	-94.9	848.5	802.5	755.4	47.16	17.017		
7,500.0	7,492.2	7,432.8	7,362.4	24.0	25.0	84.81	-96.6	863.0	817.1	769.3	47.80	17.093		
7,505.0	7,497.2	7,437.7	7,367.2	24.0	25.0	84.82	-96.7	863.8	817.9	770.0	47.84	17.098		
7,600.0	7,592.2	7,531.4	7,459.7	24.3	25.4	85.05	-98.6	879.2	833.2	784.7	48.51	17.176		
7,695.0	7,687.2	7,632.6	7,559.5	24.7	25.8	85.28	-100.6	895.6	848.4	799.2	49.24	17.230		
7,700.0	7,692.2	7,638.4	7,565.2	24.7	25.8	85.29	-100.7	896.5	849.2	799.9	49.28	17.231		
7,790.0	7,782.2	7,742.7	7,668.4	25.0	26.2	85.50	-102.5	911.6	862.0	812.0	50.02	17.234		
7,800.0	7,792.2	7,754.3	7,679.9	25.0	26.2	85.52	-102.7	913.2	863.4	813.3	50.10	17.233		
7,885.0	7,877.2	7,853.4	7,778.2	25.3	26.6	85.68	-104.2	925.6	873.9	823.1	50.79	17.207		
7,900.0	7,892.2	7,870.9	7,795.6	25.4	26.6	85.71	-104.4	927.6	875.6	824.7	50.91	17.200		
7,980.0	7,972.2	7,964.5	7,888.7	25.7	27.0	85.84	-105.6	937.5	884.0	832.5	51.55	17.150		
8,000.0	7,992.2	7,988.0	7,912.1	25.7	27.1	85.86	-105.9	939.8	885.9	834.2	51.70	17.135		
8,075.0	8,067.2	8,076.2	7,999.9	26.0	27.4	85.96	-106.8	947.4	892.3	840.0	52.29	17.066		
8,100.0	8,092.2	8,105.6	8,029.2	26.1	27.5	85.99	-107.1	949.6	894.2	841.7	52.48	17.040		
8,170.0	8,162.2	8,188.1	8,111.6	26.3	27.8	86.05	-107.8	955.1	898.8	845.8	53.01	16.955		
8,200.0	8,192.2	8,223.5	8,146.9	26.4	27.9	86.08	-108.0	957.1	900.5	847.2	53.24	16.915		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program:		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Depth	Vertical Reference	Measured Depth	Vertical Offset	Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
8,265.0	8,257.2	8,300.3	8,223.7	26.7	28.2	86.12	-108.4	960.7	903.5	849.8	53.72	16.819		
8,300.0	8,292.2	8,341.7	8,265.0	26.8	28.3	86.14	-108.6	962.2	904.7	850.8	53.97	16.763		
8,360.0	8,352.2	8,412.7	8,336.0	27.0	28.6	86.16	-108.9	964.1	906.3	851.9	54.41	16.658		
8,400.0	8,392.2	8,460.1	8,383.3	27.1	28.7	86.17	-108.9	964.9	907.0	852.3	54.69	16.583		
8,455.0	8,447.2	8,525.2	8,448.5	27.3	28.9	86.17	-109.0	965.3	907.3	852.3	55.04	16.486		
8,500.0	8,492.2	8,571.1	8,494.3	27.5	28.9	86.17	-109.0	965.3	907.3	852.1	55.20	16.436		
8,550.0	8,542.2	8,621.1	8,544.3	27.7	28.9	86.17	-109.0	965.3	907.3	851.9	55.38	16.383		
8,600.0	8,592.2	8,671.1	8,594.3	27.8	28.9	86.17	-109.0	965.3	907.3	851.8	55.56	16.329		
8,645.0	8,637.2	8,716.1	8,639.3	28.0	28.9	86.17	-109.0	965.3	907.3	851.6	55.73	16.281		
8,700.0	8,692.2	8,771.1	8,694.3	28.2	28.9	86.17	-109.0	965.3	907.3	851.4	55.93	16.221		
8,740.0	8,732.2	8,811.1	8,734.3	28.3	28.9	86.17	-109.0	965.3	907.3	851.2	56.08	16.178		
8,800.0	8,792.2	8,871.1	8,794.3	28.5	28.9	86.17	-109.0	965.3	907.3	851.0	56.31	16.113		
8,835.0	8,827.2	8,906.1	8,829.3	28.7	29.0	86.17	-109.0	965.3	907.3	850.9	56.44	16.075		
8,900.0	8,892.2	8,971.1	8,894.3	28.9	29.0	86.17	-109.0	965.3	907.3	850.6	56.69	16.005		
8,930.0	8,922.2	9,001.1	8,924.3	29.0	29.0	86.17	-109.0	965.3	907.3	850.5	56.80	15.973		
9,000.0	8,992.2	9,071.1	8,994.3	29.2	29.0	86.17	-109.0	965.3	907.3	850.2	57.07	15.897		
9,025.0	9,017.2	9,096.1	9,019.3	29.3	29.0	86.17	-109.0	965.3	907.3	850.2	57.17	15.871		
9,100.0	9,092.2	9,171.1	9,094.3	29.6	29.0	86.17	-109.0	965.3	907.3	849.9	57.46	15.790		
9,120.0	9,112.2	9,191.1	9,114.3	29.7	29.0	86.17	-109.0	965.3	907.3	849.8	57.54	15.768		
9,200.0	9,192.2	9,271.1	9,194.3	30.0	29.1	86.17	-109.0	965.3	907.3	849.5	57.86	15.682		
9,215.0	9,207.2	9,286.1	9,209.3	30.0	29.1	86.17	-109.0	965.3	907.3	849.4	57.92	15.666		
9,300.0	9,292.2	9,371.1	9,294.3	30.3	29.1	86.17	-109.0	965.3	907.3	849.1	58.25	15.575		
9,310.0	9,302.2	9,381.1	9,304.3	30.3	29.1	86.17	-109.0	965.3	907.3	849.0	58.29	15.564		
9,400.0	9,392.2	9,471.1	9,394.3	30.7	29.1	86.17	-109.0	965.3	907.3	848.7	58.66	15.468		
9,405.0	9,397.2	9,476.1	9,399.3	30.7	29.1	86.17	-109.0	965.3	907.3	848.6	58.68	15.463		
9,500.0	9,492.2	9,571.1	9,494.3	31.0	29.2	86.17	-109.0	965.3	907.3	848.3	59.06	15.362		
9,595.0	9,587.2	9,666.1	9,589.3	31.3	29.2	86.17	-109.0	965.3	907.3	847.9	59.46	15.261		
9,600.0	9,592.2	9,671.1	9,594.3	31.4	29.2	86.17	-109.0	965.3	907.3	847.8	59.48	15.255		
9,690.0	9,682.2	9,761.1	9,684.3	31.7	29.3	86.17	-109.0	965.3	907.3	847.5	59.85	15.160		
9,700.0	9,692.2	9,771.1	9,694.3	31.7	29.3	86.17	-109.0	965.3	907.3	847.4	59.89	15.149		
9,785.0	9,777.2	9,856.1	9,779.3	32.0	29.3	86.17	-109.0	965.3	907.3	847.1	60.25	15.059		
9,800.0	9,792.2	9,871.1	9,794.3	32.1	29.4	86.17	-109.0	965.3	907.3	847.0	60.31	15.044		
9,880.0	9,872.2	9,951.1	9,874.3	32.4	29.4	86.17	-109.0	965.3	907.3	846.7	60.65	14.959		
9,900.0	9,892.2	9,971.1	9,894.3	32.4	29.4	86.17	-109.0	965.3	907.3	846.6	60.74	14.938		
9,975.0	9,967.2	10,046.1	9,969.3	32.7	29.5	86.17	-109.0	965.3	907.3	846.3	61.06	14.860		
10,000.0	9,992.2	10,071.1	9,994.3	32.8	29.5	86.17	-109.0	965.3	907.3	846.2	61.17	14.833		
10,001.8	9,994.0	10,072.9	9,996.1	32.8	29.5	86.17	-109.0	965.3	907.3	846.1	61.17	14.832		
10,070.0	10,062.2	10,138.8	10,062.1	33.0	29.5	86.15	-108.6	965.3	907.3	845.9	61.47	14.760		
10,100.0	10,092.2	10,165.5	10,088.7	33.1	29.6	86.04	-106.9	965.3	907.5	845.9	61.61	14.730		
10,165.0	10,157.2	10,222.1	10,144.6	33.3	29.6	85.49	-98.2	965.3	908.2	846.4	61.80	14.696		
10,196.3	10,188.5	10,250.0	10,171.7	33.3	29.7	85.07	-91.5	965.2	908.8	846.9	61.89	14.684		
10,200.0	10,192.2	10,250.0	10,171.7	33.3	29.7	87.09	-91.5	965.2	908.9	847.0	61.90	14.684		
10,225.0	10,217.2	10,272.1	10,192.8	33.3	29.7	86.66	-85.0	965.2	909.5	847.6	61.93	14.687		
10,250.0	10,242.1	10,292.6	10,212.1	33.3	29.7	86.25	-78.2	965.2	910.2	848.2	61.95	14.691		
10,260.0	10,252.0	10,300.0	10,219.0	33.3	29.7	86.11	-75.5	965.2	910.4	848.5	61.96	14.693		
10,275.0	10,266.9	10,312.8	10,230.9	33.3	29.8	85.86	-70.7	965.2	910.9	848.9	61.98	14.697		
10,300.0	10,291.4	10,332.9	10,249.2	33.3	29.8	85.48	-62.4	965.1	911.7	849.7	62.00	14.703		
10,325.0	10,315.7	10,352.9	10,267.0	33.4	29.8	85.10	-53.4	965.1	912.5	850.5	62.03	14.712		
10,350.0	10,339.6	10,375.0	10,286.3	33.4	29.8	84.71	-42.6	965.1	913.4	851.3	62.05	14.721		
10,355.0	10,344.3	10,375.0	10,286.3	33.4	29.8	84.69	-42.6	965.1	913.6	851.5	62.05	14.723		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
10,375.0	10,363.1	10,392.4	10,301.2	33.4	29.9	84.39	-33.5	965.0	914.3	852.2	62.06	14.731	
10,400.0	10,386.1	10,412.0	10,317.4	33.4	29.9	84.05	-22.6	965.0	915.2	853.1	62.08	14.743	
10,425.0	10,408.6	10,431.5	10,333.1	33.4	29.9	83.72	-11.1	965.0	916.2	854.1	62.09	14.755	
10,450.0	10,430.5	10,450.0	10,347.6	33.4	29.9	83.41	0.5	964.9	917.2	855.0	62.10	14.768	
10,475.0	10,451.7	10,470.1	10,362.9	33.4	30.0	83.11	13.6	964.9	918.1	856.0	62.11	14.782	
10,500.0	10,472.2	10,489.4	10,376.9	33.4	30.0	82.82	26.7	964.8	919.1	857.0	62.12	14.796	
10,525.0	10,491.9	10,508.5	10,390.3	33.4	30.0	82.55	40.4	964.8	920.1	858.0	62.13	14.810	
10,545.0	10,507.1	10,525.0	10,401.5	33.5	30.0	82.34	52.6	964.7	920.9	858.8	62.13	14.821	
10,550.0	10,510.8	10,525.0	10,401.5	33.5	30.0	82.32	52.6	964.7	921.1	859.0	62.13	14.826	
10,575.0	10,528.8	10,546.5	10,415.4	33.5	30.0	82.07	69.0	964.7	922.1	859.9	62.14	14.839	
10,600.0	10,545.8	10,565.5	10,426.9	33.5	30.1	81.85	84.0	964.6	923.0	860.9	62.14	14.854	
10,625.0	10,561.9	10,584.4	10,437.9	33.5	30.1	81.65	99.4	964.6	923.9	861.8	62.14	14.868	
10,640.0	10,571.1	10,595.7	10,444.2	33.5	30.1	81.54	108.9	964.5	924.5	862.3	62.15	14.876	
10,650.0	10,577.0	10,603.3	10,448.2	33.5	30.1	81.47	115.2	964.5	924.9	862.7	62.15	14.881	
10,675.0	10,591.0	10,625.0	10,459.3	33.5	30.1	81.30	133.9	964.4	925.7	863.6	62.16	14.892	
10,700.0	10,603.9	10,640.9	10,466.9	33.5	30.1	81.16	147.9	964.4	926.6	864.4	62.16	14.906	
10,725.0	10,615.6	10,659.7	10,475.3	33.5	30.1	81.04	164.7	964.3	927.4	865.2	62.17	14.916	
10,735.0	10,620.0	10,667.2	10,478.4	33.5	30.1	80.99	171.6	964.3	927.7	865.5	62.18	14.920	
10,750.0	10,626.2	10,678.5	10,482.9	33.5	30.2	80.93	181.9	964.3	928.2	866.0	62.19	14.926	
10,775.0	10,635.6	10,700.0	10,490.9	33.6	30.2	80.84	201.9	964.2	928.9	866.7	62.21	14.933	
10,800.0	10,643.8	10,716.0	10,496.2	33.6	30.2	80.78	217.0	964.2	929.6	867.4	62.22	14.942	
10,825.0	10,650.7	10,734.8	10,501.8	33.6	30.2	80.73	234.9	964.1	930.3	868.1	62.24	14.947	
10,830.0	10,651.9	10,738.6	10,502.9	33.6	30.2	80.72	238.5	964.1	930.4	868.2	62.24	14.948	
10,850.0	10,656.3	10,753.6	10,506.7	33.6	30.2	80.71	253.1	964.0	930.9	868.6	62.26	14.952	
10,875.0	10,660.7	10,775.0	10,511.4	33.6	30.2	80.71	273.9	964.0	931.5	869.2	62.29	14.954	
10,900.0	10,663.8	10,791.3	10,514.4	33.6	30.2	80.71	289.9	963.9	932.0	869.7	62.32	14.956	
10,925.0	10,665.5	10,810.2	10,517.1	33.6	30.2	80.75	308.6	963.8	932.5	870.1	62.35	14.956	
10,945.7	10,666.0	10,825.0	10,518.8	33.6	30.3	80.79	323.3	963.8	932.8	870.5	62.38	14.955	
11,000.0	10,666.1	10,867.2	10,520.9	33.6	30.3	80.92	365.5	963.6	933.6	871.2	62.46	14.948	
11,020.0	10,666.1	10,886.5	10,520.9	33.6	30.3	80.93	384.8	963.6	933.8	871.3	62.49	14.944	
11,037.0	10,666.1	10,903.5	10,520.9	33.6	30.3	80.93	401.8	963.5	933.9	871.3	62.52	14.938	
11,100.0	10,666.2	10,966.5	10,521.0	33.6	30.3	80.93	464.8	963.3	933.9	871.2	62.64	14.910	
11,115.0	10,666.2	10,981.5	10,521.1	33.7	30.3	80.93	479.8	963.2	933.9	871.2	62.67	14.902	
11,200.0	10,666.3	11,066.5	10,521.2	33.7	30.4	80.93	564.8	962.9	933.9	871.0	62.86	14.857	
11,210.0	10,666.4	11,076.5	10,521.2	33.7	30.4	80.93	574.8	962.9	933.9	871.0	62.88	14.851	
11,300.0	10,666.5	11,166.5	10,521.3	33.7	30.5	80.93	664.8	962.6	933.9	870.7	63.12	14.796	
11,305.0	10,666.5	11,171.5	10,521.3	33.7	30.5	80.93	669.8	962.6	933.9	870.7	63.13	14.792	
11,400.0	10,666.6	11,266.5	10,521.4	33.8	30.6	80.93	764.8	962.2	933.9	870.5	63.41	14.726	
11,495.0	10,666.7	11,361.5	10,521.6	33.9	30.7	80.93	859.8	961.9	933.9	870.1	63.73	14.653	
11,500.0	10,666.8	11,366.5	10,521.6	33.9	30.7	80.93	864.8	961.9	933.9	870.1	63.75	14.650	
11,590.0	10,666.9	11,456.5	10,521.7	34.0	30.8	80.93	954.8	961.6	933.9	869.8	64.08	14.574	
11,600.0	10,666.9	11,466.5	10,521.7	34.0	30.8	80.93	964.8	961.5	933.9	869.8	64.11	14.566	
11,685.0	10,667.0	11,551.5	10,521.8	34.1	31.0	80.93	1,049.8	961.2	933.9	869.4	64.46	14.489	
11,700.0	10,667.0	11,566.5	10,521.9	34.2	31.0	80.93	1,064.8	961.2	933.9	869.4	64.52	14.475	
11,780.0	10,667.1	11,646.5	10,522.0	34.3	31.2	80.93	1,144.8	960.9	933.9	869.0	64.86	14.397	
11,800.0	10,667.2	11,666.5	10,522.0	34.3	31.2	80.93	1,164.8	960.8	933.9	868.9	64.95	14.378	
11,875.0	10,667.3	11,741.5	10,522.1	34.5	31.4	80.93	1,239.8	960.5	933.9	868.6	65.30	14.301	
11,900.0	10,667.3	11,766.5	10,522.1	34.5	31.4	80.93	1,264.8	960.5	933.9	868.4	65.42	14.275	
11,970.0	10,667.4	11,836.5	10,522.2	34.7	31.6	80.93	1,334.8	960.2	933.9	868.1	65.77	14.199	
12,000.0	10,667.4	11,866.5	10,522.3	34.8	31.6	80.93	1,364.8	960.1	933.9	867.9	65.92	14.166	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
12,065.0	10,667.5	11,931.5	10,522.4	34.9	31.8	80.93	1,429.8	959.9	933.9	867.6	66.27	14.093	
12,100.0	10,667.6	11,966.5	10,522.4	35.0	31.9	80.93	1,464.8	959.8	933.9	867.4	66.45	14.053	
12,160.0	10,667.7	12,026.5	10,522.5	35.1	32.1	80.93	1,524.8	959.5	933.9	867.1	66.79	13.982	
12,200.0	10,667.7	12,066.5	10,522.5	35.2	32.2	80.93	1,564.8	959.4	933.9	866.9	67.02	13.935	
12,255.0	10,667.8	12,121.5	10,522.6	35.4	32.3	80.93	1,619.8	959.2	933.9	866.5	67.34	13.868	
12,300.0	10,667.8	12,166.5	10,522.7	35.5	32.4	80.93	1,664.8	959.0	933.9	866.3	67.61	13.813	
12,350.0	10,667.9	12,216.5	10,522.7	35.7	32.6	80.93	1,714.7	958.9	933.9	866.0	67.92	13.750	
12,400.0	10,668.0	12,266.5	10,522.8	35.8	32.8	80.93	1,764.7	958.7	933.9	865.6	68.23	13.686	
12,445.0	10,668.0	12,311.5	10,522.9	36.0	32.9	80.93	1,809.7	958.5	933.9	865.4	68.52	13.629	
12,500.0	10,668.1	12,366.5	10,523.0	36.1	33.1	80.93	1,864.7	958.3	933.9	865.0	68.88	13.557	
12,540.0	10,668.2	12,406.5	10,523.0	36.2	33.2	80.93	1,904.7	958.2	933.9	864.7	69.15	13.505	
12,600.0	10,668.3	12,466.5	10,523.1	36.4	33.4	80.93	1,964.7	958.0	933.9	864.3	69.56	13.425	
12,635.0	10,668.3	12,501.5	10,523.1	36.6	33.5	80.93	1,999.7	957.9	933.9	864.1	69.81	13.378	
12,700.0	10,668.4	12,566.5	10,523.2	36.8	33.8	80.93	2,064.7	957.6	933.9	863.6	70.27	13.290	
12,730.0	10,668.4	12,596.5	10,523.3	36.9	33.9	80.93	2,094.7	957.5	933.9	863.4	70.49	13.249	
12,800.0	10,668.5	12,666.5	10,523.4	37.1	34.1	80.93	2,164.7	957.3	933.9	862.9	71.00	13.153	
12,825.0	10,668.6	12,691.5	10,523.4	37.2	34.2	80.93	2,189.7	957.2	933.9	862.7	71.19	13.119	
12,900.0	10,668.7	12,766.5	10,523.5	37.5	34.5	80.93	2,264.7	956.9	933.9	862.1	71.76	13.015	
12,920.0	10,668.7	12,786.5	10,523.5	37.6	34.6	80.93	2,284.7	956.9	933.9	862.0	71.91	12.987	
13,000.0	10,668.8	12,866.5	10,523.6	37.9	34.9	80.93	2,364.7	956.6	933.9	861.3	72.54	12.874	
13,015.0	10,668.8	12,881.5	10,523.7	37.9	35.0	80.93	2,379.7	956.5	933.9	861.2	72.66	12.853	
13,100.0	10,668.9	12,966.5	10,523.8	38.2	35.3	80.93	2,464.7	956.2	933.9	860.5	73.34	12.733	
13,110.0	10,668.9	12,976.5	10,523.8	38.3	35.3	80.93	2,474.7	956.2	933.9	860.5	73.42	12.719	
13,200.0	10,669.1	13,066.5	10,523.9	38.6	35.7	80.93	2,564.7	955.9	933.9	859.7	74.17	12.591	
13,205.0	10,669.1	13,071.5	10,523.9	38.7	35.7	80.93	2,569.7	955.9	933.9	859.7	74.21	12.584	
13,300.0	10,669.2	13,166.5	10,524.0	39.0	36.2	80.93	2,664.7	955.5	933.9	858.9	75.02	12.448	
13,395.0	10,669.3	13,261.5	10,524.2	39.4	36.6	80.93	2,759.7	955.2	933.9	858.0	75.85	12.313	
13,400.0	10,669.3	13,266.5	10,524.2	39.5	36.6	80.93	2,764.7	955.2	933.9	858.0	75.89	12.305	
13,490.0	10,669.5	13,356.5	10,524.3	39.9	37.0	80.93	2,854.7	954.9	933.9	857.2	76.69	12.177	
13,500.0	10,669.5	13,366.5	10,524.3	39.9	37.0	80.93	2,864.7	954.8	933.9	857.1	76.78	12.163	
13,585.0	10,669.6	13,451.5	10,524.4	40.3	37.4	80.93	2,949.7	954.5	933.9	856.3	77.56	12.041	
13,600.0	10,669.6	13,466.5	10,524.5	40.3	37.5	80.93	2,964.7	954.5	933.9	856.2	77.70	12.020	
13,680.0	10,669.7	13,546.5	10,524.6	40.7	37.9	80.93	3,044.7	954.2	933.9	855.4	78.44	11.906	
13,700.0	10,669.8	13,566.5	10,524.6	40.8	38.0	80.93	3,064.7	954.1	933.9	855.3	78.63	11.877	
13,775.0	10,669.9	13,641.5	10,524.7	41.1	38.3	80.93	3,139.7	953.9	933.9	854.5	79.34	11.771	
13,800.0	10,669.9	13,666.5	10,524.7	41.2	38.5	80.93	3,164.7	953.8	933.9	854.3	79.58	11.736	
13,870.0	10,670.0	13,736.5	10,524.8	41.6	38.8	80.93	3,234.7	953.5	933.9	853.6	80.25	11.637	
13,900.0	10,670.0	13,766.5	10,524.9	41.7	39.0	80.93	3,264.7	953.4	933.9	853.3	80.54	11.595	
13,965.0	10,670.1	13,831.5	10,525.0	42.0	39.3	80.93	3,329.7	953.2	933.9	852.7	81.18	11.503	
14,000.0	10,670.2	13,866.5	10,525.0	42.2	39.5	80.93	3,364.7	953.1	933.9	852.4	81.53	11.455	
14,060.0	10,670.2	13,926.5	10,525.1	42.5	39.8	80.93	3,424.7	952.8	933.9	851.8	82.13	11.371	
14,100.0	10,670.3	13,966.5	10,525.1	42.7	40.0	80.93	3,464.7	952.7	933.9	851.4	82.53	11.316	
14,155.0	10,670.4	14,021.5	10,525.2	42.9	40.2	80.93	3,519.7	952.5	933.9	850.8	83.09	11.240	
14,200.0	10,670.4	14,066.5	10,525.3	43.2	40.5	80.93	3,564.7	952.4	933.9	850.3	83.55	11.178	
14,250.0	10,670.5	14,116.5	10,525.4	43.4	40.7	80.93	3,614.7	952.2	933.9	849.8	84.06	11.109	
14,300.0	10,670.6	14,166.5	10,525.4	43.7	41.0	80.93	3,664.7	952.0	933.9	849.3	84.58	11.041	
14,345.0	10,670.6	14,211.5	10,525.5	43.9	41.2	80.93	3,709.7	951.8	933.9	848.8	85.05	10.980	
14,400.0	10,670.7	14,266.5	10,525.6	44.2	41.5	80.93	3,764.7	951.7	933.9	848.3	85.63	10.906	
14,440.0	10,670.8	14,306.5	10,525.6	44.4	41.8	80.93	3,804.7	951.5	933.9	847.8	86.05	10.853	
14,500.0	10,670.8	14,366.5	10,525.7	44.7	42.1	80.93	3,864.7	951.3	933.9	847.2	86.69	10.773	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program: Reference		1-Standard Keeper 104, 942-MWD+IFR1, 8531-MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,535.0	10,670.9	14,401.5	10,525.7	44.9	42.3	80.93	3,899.7	951.2	933.9	846.8	87.07	10.726		
14,600.0	10,671.0	14,466.5	10,525.8	45.2	42.6	80.93	3,964.7	950.9	933.9	846.1	87.77	10.641		
14,630.0	10,671.0	14,496.5	10,525.9	45.4	42.8	80.93	3,994.7	950.8	933.9	845.8	88.09	10.601		
14,700.0	10,671.1	14,566.5	10,526.0	45.7	43.2	80.93	4,064.7	950.6	933.9	845.0	88.86	10.510		
14,725.0	10,671.2	14,591.5	10,526.0	45.9	43.3	80.93	4,089.7	950.5	933.9	844.8	89.13	10.478		
14,800.0	10,671.3	14,666.5	10,526.1	46.3	43.7	80.93	4,164.7	950.2	933.9	843.9	89.96	10.381		
14,820.0	10,671.3	14,686.5	10,526.1	46.4	43.8	80.93	4,184.7	950.2	933.9	843.7	90.18	10.356		
14,900.0	10,671.4	14,766.5	10,526.2	46.8	44.3	80.93	4,264.7	949.9	933.9	842.8	91.07	10.254		
14,915.0	10,671.4	14,781.5	10,526.3	46.9	44.4	80.93	4,279.7	949.8	933.9	842.7	91.24	10.235		
15,000.0	10,671.5	14,866.5	10,526.4	47.4	44.9	80.93	4,364.7	949.5	933.9	841.7	92.20	10.129		
15,010.0	10,671.5	14,876.5	10,526.4	47.4	44.9	80.93	4,374.7	949.5	933.9	841.6	92.31	10.117		
15,100.0	10,671.7	14,966.5	10,526.5	47.9	45.5	80.93	4,464.7	949.2	933.9	840.6	93.34	10.005		
15,105.0	10,671.7	14,971.5	10,526.5	48.0	45.5	80.93	4,469.7	949.2	933.9	840.5	93.40	9.999		
15,200.0	10,671.8	15,066.5	10,526.7	48.5	46.0	80.93	4,564.7	948.8	933.9	839.4	94.49	9.884		
15,295.0	10,671.9	15,161.5	10,526.8	49.0	46.6	80.93	4,659.7	948.5	933.9	838.3	95.59	9.770		
15,300.0	10,671.9	15,166.5	10,526.8	49.1	46.6	80.93	4,664.7	948.5	933.9	838.2	95.65	9.764		
15,390.0	10,672.1	15,256.5	10,526.9	49.6	47.2	80.93	4,754.7	948.2	933.9	837.2	96.70	9.658		
15,400.0	10,672.1	15,266.5	10,526.9	49.6	47.2	80.93	4,764.7	948.1	933.9	837.1	96.82	9.646		
15,485.0	10,672.2	15,351.5	10,527.0	50.1	47.7	80.93	4,849.7	947.8	933.9	836.1	97.82	9.547		
15,500.0	10,672.2	15,366.5	10,527.1	50.2	47.8	80.93	4,864.7	947.8	933.9	835.9	98.00	9.530		
15,580.0	10,672.3	15,446.5	10,527.2	50.7	48.3	80.93	4,944.7	947.5	933.9	834.9	98.95	9.438		
15,600.0	10,672.3	15,466.5	10,527.2	50.8	48.4	80.93	4,964.7	947.4	933.9	834.7	99.19	9.415		
15,675.0	10,672.4	15,541.5	10,527.3	51.2	48.9	80.93	5,039.7	947.2	933.9	833.8	100.09	9.331		
15,700.0	10,672.5	15,566.5	10,527.3	51.4	49.0	80.93	5,064.7	947.1	933.9	833.5	100.39	9.303		
15,770.0	10,672.6	15,636.5	10,527.4	51.8	49.5	80.93	5,134.7	946.8	933.9	832.7	101.23	9.225		
15,800.0	10,672.6	15,666.5	10,527.5	52.0	49.6	80.93	5,164.7	946.7	933.9	832.3	101.59	9.192		
15,865.0	10,672.7	15,731.5	10,527.6	52.3	50.0	80.93	5,229.7	946.5	933.9	831.5	102.39	9.121		
15,900.0	10,672.8	15,766.5	10,527.6	52.6	50.3	80.93	5,264.7	946.4	933.9	831.1	102.81	9.084		
15,960.0	10,672.8	15,826.5	10,527.7	52.9	50.6	80.93	5,324.7	946.2	933.9	830.4	103.55	9.019		
16,000.0	10,672.9	15,866.5	10,527.8	53.2	50.9	80.93	5,364.7	946.0	933.9	829.9	104.04	8.977		
16,055.0	10,673.0	15,921.5	10,527.8	53.5	51.2	80.93	5,419.7	945.8	933.9	829.2	104.71	8.919		
16,100.0	10,673.0	15,966.5	10,527.9	53.8	51.5	80.93	5,464.7	945.7	933.9	828.6	105.27	8.872		
16,150.0	10,673.1	16,016.5	10,528.0	54.1	51.8	80.93	5,514.7	945.5	933.9	828.0	105.89	8.820		
16,200.0	10,673.2	16,066.5	10,528.0	54.4	52.1	80.93	5,564.7	945.3	933.9	827.4	106.51	8.768		
16,245.0	10,673.2	16,111.5	10,528.1	54.6	52.4	80.93	5,609.7	945.1	933.9	826.8	107.07	8.722		
16,300.0	10,673.3	16,166.5	10,528.2	55.0	52.8	80.93	5,664.7	945.0	933.9	826.1	107.76	8.667		
16,340.0	10,673.4	16,206.5	10,528.2	55.2	53.0	80.93	5,704.7	944.8	933.9	825.6	108.26	8.627		
16,400.0	10,673.4	16,266.5	10,528.3	55.6	53.4	80.93	5,764.7	944.6	933.9	824.9	109.01	8.567		
16,435.0	10,673.5	16,301.5	10,528.3	55.8	53.6	80.93	5,799.7	944.5	933.9	824.5	109.45	8.532		
16,500.0	10,673.6	16,366.5	10,528.4	56.2	54.0	80.93	5,864.7	944.3	933.9	823.6	110.28	8.469		
16,530.0	10,673.6	16,396.5	10,528.5	56.4	54.2	80.93	5,894.7	944.1	933.9	823.3	110.66	8.440		
16,600.0	10,673.7	16,466.5	10,528.6	56.8	54.7	80.93	5,964.7	943.9	933.9	822.4	111.54	8.373		
16,625.0	10,673.7	16,491.5	10,528.6	57.0	54.8	80.93	5,989.7	943.8	933.9	822.0	111.86	8.349		
16,700.0	10,673.8	16,566.5	10,528.7	57.5	55.3	80.93	6,064.7	943.5	933.9	821.1	112.82	8.278		
16,720.0	10,673.9	16,586.5	10,528.7	57.6	55.4	80.93	6,084.7	943.5	933.9	820.8	113.08	8.259		
16,800.0	10,674.0	16,666.5	10,528.8	58.1	56.0	80.93	6,164.7	943.2	933.9	819.8	114.10	8.185		
16,815.0	10,674.0	16,681.5	10,528.9	58.2	56.1	80.93	6,179.7	943.1	933.9	819.6	114.29	8.171		
16,900.0	10,674.1	16,766.5	10,529.0	58.7	56.6	80.93	6,264.7	942.8	933.9	818.5	115.39	8.094		
16,910.0	10,674.1	16,776.5	10,529.0	58.8	56.7	80.93	6,274.7	942.8	933.9	818.4	115.52	8.085		
17,000.0	10,674.3	16,866.5	10,529.1	59.4	57.3	80.93	6,364.7	942.5	933.9	817.2	116.68	8.004		

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

ConocoPhillips

Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #501H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 942-MWD+IFR1, 8531-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)			
17,005.0	10,674.3	16,871.5	10,529.1	59.4	57.3	80.93	6,369.7	942.5	933.9	817.2	116.75	7.999	
17,100.0	10,674.4	16,966.5	10,529.3	60.0	57.9	80.93	6,464.7	942.1	933.9	815.9	117.98	7.916	
17,195.0	10,674.5	17,061.5	10,529.4	60.6	58.5	80.93	6,559.7	941.8	933.9	814.7	119.22	7.833	
17,200.0	10,674.5	17,066.5	10,529.4	60.6	58.6	80.93	6,564.7	941.8	933.9	814.6	119.29	7.829	
17,290.0	10,674.6	17,156.5	10,529.5	61.2	59.2	80.93	6,654.7	941.5	933.9	813.4	120.47	7.752	
17,300.0	10,674.7	17,166.5	10,529.5	61.3	59.2	80.93	6,664.7	941.4	933.9	813.3	120.60	7.744	
17,385.0	10,674.8	17,251.5	10,529.7	61.8	59.8	80.93	6,749.7	941.1	933.9	812.2	121.72	7.673	
17,400.0	10,674.8	17,266.5	10,529.7	61.9	59.9	80.93	6,764.7	941.1	933.9	812.0	121.91	7.661	
17,480.0	10,674.9	17,346.5	10,529.8	62.5	60.4	80.93	6,844.7	940.8	933.9	810.9	122.97	7.595	
17,500.0	10,674.9	17,366.5	10,529.8	62.6	60.6	80.93	6,864.7	940.7	933.9	810.7	123.23	7.578	
17,575.0	10,675.0	17,441.5	10,529.9	63.1	61.1	80.93	6,939.7	940.5	933.9	809.7	124.23	7.518	
17,600.0	10,675.1	17,466.5	10,529.9	63.2	61.2	80.93	6,964.7	940.4	933.9	809.4	124.56	7.498	
17,670.0	10,675.2	17,536.5	10,530.0	63.7	61.7	80.93	7,034.7	940.1	933.9	808.4	125.49	7.442	
17,700.0	10,675.2	17,566.5	10,530.1	63.9	61.9	80.93	7,064.7	940.0	933.9	808.0	125.89	7.419	
17,765.0	10,675.3	17,631.5	10,530.2	64.3	62.3	80.93	7,129.7	939.8	933.9	807.2	126.76	7.368	
17,800.0	10,675.3	17,666.5	10,530.2	64.6	62.6	80.93	7,164.7	939.7	933.9	806.7	127.22	7.341	
17,860.0	10,675.4	17,726.5	10,530.3	65.0	63.0	80.93	7,224.7	939.5	933.9	805.9	128.03	7.295	
17,900.0	10,675.5	17,766.5	10,530.4	65.2	63.3	80.93	7,264.7	939.3	933.9	805.4	128.56	7.264	
17,955.0	10,675.6	17,821.5	10,530.4	65.6	63.6	80.93	7,319.7	939.1	933.9	804.6	129.30	7.223	
18,000.0	10,675.6	17,866.5	10,530.5	65.9	63.9	80.93	7,364.7	939.0	933.9	804.0	129.90	7.189	
18,050.0	10,675.7	17,916.5	10,530.6	66.2	64.3	80.93	7,414.7	938.8	933.9	803.3	130.58	7.152	
18,100.0	10,675.8	17,966.5	10,530.6	66.5	64.6	80.93	7,464.7	938.6	933.9	802.7	131.25	7.116	
18,145.0	10,675.8	18,011.5	10,530.7	66.8	64.9	80.93	7,509.7	938.5	933.9	802.1	131.86	7.083	
18,200.0	10,675.9	18,066.5	10,530.8	67.2	65.3	80.93	7,564.7	938.3	933.9	801.3	132.60	7.043	
18,232.8	10,675.9	18,099.3	10,530.8	67.4	65.5	80.93	7,597.5	938.1	933.9	800.9	133.04	7.020	
18,240.0	10,675.9	18,106.5	10,530.8	67.5	65.6	80.93	7,604.7	938.1	933.9	800.8	133.14	7.015	
18,282.8	10,676.0	18,149.3	10,530.9	67.8	65.9	80.93	7,647.5	938.0	933.9	800.2	133.72	6.984	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #502H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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)			
954.5	954.3	950.0	949.9	0.0	1.0	0.00	2.0	-11.1	4.5	3.2	1.21	3.693	
1,000.0	999.9	950.0	949.9	0.0	1.0	0.00	2.0	-11.1	50.0	47.4	2.56	19.531	
1,045.0	1,044.9	950.0	949.9	0.1	1.0	0.00	2.0	-11.1	95.0	92.4	2.58	36.772	
1,054.0	1,053.9	950.0	949.9	0.1	1.0	0.00	2.0	-11.1	104.0	101.4	2.59	40.183	
1,100.0	1,099.9	950.0	949.9	0.2	1.0	0.00	2.0	-11.1	150.0	147.4	2.61	57.404	
1,140.0	1,139.9	950.0	949.9	0.3	1.0	0.00	2.0	-11.1	190.0	187.4	2.64	72.090	
1,154.0	1,153.9	950.0	949.9	0.3	1.0	0.00	2.0	-11.1	204.0	201.4	2.64	77.171	
1,200.0	1,199.9	950.0	949.9	0.4	1.0	180.00	2.0	-11.1	250.0	247.3	2.67	93.623	
1,235.0	1,234.9	950.0	949.9	0.5	1.0	-180.00	2.0	-11.1	285.0	282.3	2.69	105.884	
1,294.0	1,293.9	950.0	949.9	0.7	1.0	70.03	2.0	-11.1	344.0	341.3	2.73	126.114	CC, ES, SF
1,300.0	1,299.9	950.0	949.9	0.7	1.0	70.03	2.0	-11.1	350.0	347.3	2.73	128.142	
1,330.0	1,329.9	950.0	949.9	0.8	1.0	70.03	2.0	-11.1	380.0	377.2	2.75	138.132	
1,400.0	1,399.9	950.0	949.9	1.1	1.0	70.03	2.0	-11.1	450.0	447.2	2.80	160.898	
1,425.0	1,424.9	950.0	949.9	1.2	1.0	70.03	2.0	-11.1	475.0	472.2	2.81	168.791	
1,500.0	1,499.9	950.0	949.9	1.7	1.0	70.03	2.0	-11.1	550.0	547.1	2.87	191.900	
1,520.0	1,519.9	950.0	949.9	1.7	1.0	70.03	2.0	-11.1	570.0	567.1	2.88	197.871	
1,600.0	1,599.9	950.0	949.9	2.1	1.0	70.03	2.0	-11.1	650.0	647.1	2.94	221.161	
1,615.0	1,614.9	950.0	949.9	2.2	1.0	70.03	2.0	-11.1	665.0	662.0	2.95	225.384	
1,700.0	1,699.9	950.0	949.9	2.6	1.0	70.03	2.0	-11.1	750.0	747.0	3.02	248.709	
1,710.0	1,709.9	950.0	949.9	2.6	1.0	70.03	2.0	-11.1	760.0	757.0	3.02	251.358	
1,800.0	1,799.9	950.0	949.9	3.0	1.0	70.03	2.0	-11.1	850.0	846.9	3.10	274.586	
1,805.0	1,804.9	950.0	949.9	3.0	1.0	70.03	2.0	-11.1	855.0	851.9	3.10	275.830	
1,900.0	1,899.9	950.0	949.9	3.3	1.0	70.03	2.0	-11.1	950.0	946.8	3.18	298.843	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - AWP													Offset Site Error: 3.0 usft	
Survey Program: 1-Standard Keeper 104		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0					
1.0	1.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0					
95.0	95.0	93.6	93.6	3.0	3.0	-43.04	0.2	-30.6	30.4	24.4	6.00	5.067		
101.0	101.0	99.6	99.6	3.0	3.0	-42.94	0.2	-30.7	30.5	24.5	6.00	5.076		
126.0	126.0	124.7	124.6	3.0	3.0	-26.02	0.6	-31.0	30.6	24.6	6.00	5.106		
151.0	151.0	149.5	149.5	3.0	3.0	-33.09	1.0	-31.3	30.8	24.8	6.00	5.137		
176.0	176.0	174.5	174.4	3.0	3.0	-41.94	1.4	-31.7	31.1	25.1	6.00	5.184		
190.0	190.0	188.5	188.4	3.0	3.0	-49.46	1.6	-32.0	31.3	25.3	6.01	5.213		
201.0	201.0	199.5	199.4	3.0	3.0	-53.23	1.7	-32.2	31.4	25.4	6.01	5.234		
226.0	226.0	224.5	224.4	3.0	3.0	-62.83	2.1	-32.6	31.7	25.7	6.01	5.283		
251.0	251.0	249.6	249.5	3.0	3.0	-68.26	2.5	-33.0	32.0	26.0	6.01	5.330		
276.0	276.0	274.6	274.5	3.0	3.0	-58.19	2.9	-33.3	32.3	26.3	6.02	5.365		
285.0	285.0	283.7	283.6	3.0	3.0	-55.48	3.0	-33.4	32.3	26.3	6.02	5.374		
301.0	301.0	299.8	299.8	3.0	3.0	-51.34	3.1	-33.6	32.4	26.3	6.02	5.375		
326.0	326.0	325.0	324.9	3.0	3.0	-43.41	3.3	-33.7	32.2	26.2	6.02	5.349		
351.0	351.0	349.9	349.8	3.0	3.0	-37.83	3.4	-33.8	32.0	26.0	6.03	5.314		
376.0	376.0	374.9	374.8	3.0	3.0	-36.40	3.5	-33.9	31.9	25.8	6.03	5.281		
380.0	380.0	378.9	378.8	3.0	3.0	-37.19	3.6	-33.9	31.8	25.8	6.03	5.275		
401.0	401.0	400.0	399.9	3.0	3.0	-41.52	3.7	-34.0	31.7	25.6	6.04	5.243		
426.0	426.0	424.9	424.8	3.0	3.0	-37.42	3.8	-34.1	31.4	25.4	6.05	5.200		
451.0	451.0	449.9	449.8	3.0	3.0	-33.89	3.9	-34.2	31.2	25.2	6.05	5.159		
475.0	475.0	473.9	473.9	3.0	3.0	-23.39	4.0	-34.3	31.0	24.9	6.06	5.111		
476.0	476.0	474.9	474.9	3.0	3.0	-22.97	4.0	-34.3	31.0	24.9	6.06	5.109		
501.0	501.0	499.9	499.9	3.1	3.1	-24.71	4.1	-34.3	30.6	24.6	6.07	5.051		
526.0	526.0	524.9	524.8	3.1	3.1	-20.94	4.2	-34.4	30.3	24.2	6.08	4.991		
551.0	551.0	549.8	549.8	3.1	3.1	-15.69	4.3	-34.5	30.0	23.9	6.08	4.931		
570.0	570.0	568.8	568.8	3.1	3.1	-11.06	4.3	-34.6	29.8	23.7	6.09	4.888		
576.0	576.0	574.8	574.8	3.1	3.1	-9.56	4.3	-34.7	29.7	23.6	6.10	4.874		
601.0	601.0	599.9	599.8	3.1	3.1	-6.41	4.3	-34.8	29.4	23.3	6.11	4.812		
626.0	625.9	624.9	624.8	3.1	3.1	1.87	4.3	-34.9	29.1	22.9	6.12	4.749		
651.0	650.9	649.8	649.8	3.1	3.1	-1.54	4.3	-35.0	28.8	22.7	6.13	4.697		
665.0	664.9	663.8	663.8	3.1	3.1	1.56	4.3	-35.1	28.7	22.5	6.14	4.670		
676.0	675.9	674.8	674.8	3.1	3.1	3.87	4.2	-35.2	28.6	22.4	6.15	4.647		
701.0	700.9	699.8	699.8	3.1	3.1	10.20	4.2	-35.3	28.3	22.1	6.16	4.594		
726.0	725.9	724.8	724.7	3.1	3.1	20.51	4.1	-35.5	28.1	21.9	6.17	4.544		
751.0	750.9	749.8	749.7	3.1	3.1	28.05	4.0	-35.7	27.8	21.6	6.19	4.498		
760.0	759.9	758.8	758.8	3.1	3.1	25.86	4.0	-35.7	27.8	21.6	6.19	4.481		
776.0	775.9	774.8	774.8	3.1	3.1	22.12	3.8	-35.8	27.6	21.4	6.20	4.446		
801.0	800.9	799.8	799.8	3.1	3.1	26.16	3.7	-36.0	27.3	21.0	6.22	4.384		
826.0	825.9	824.8	824.8	3.1	3.1	34.76	3.5	-36.1	26.9	20.7	6.23	4.324		
851.0	850.9	849.8	849.8	3.1	3.1	23.24	3.3	-36.2	26.6	20.4	6.25	4.266		
855.0	854.9	853.8	853.8	3.1	3.1	24.48	3.2	-36.2	26.6	20.3	6.25	4.256		
876.0	875.9	874.8	874.7	3.2	3.1	31.06	3.1	-36.4	26.3	20.1	6.26	4.208		
901.0	900.9	899.8	899.7	3.2	3.1	33.45	2.8	-36.5	26.1	19.8	6.28	4.157		
926.0	925.9	924.8	924.8	3.2	3.1	26.59	2.5	-36.7	25.9	19.6	6.29	4.113		
931.4	931.3	930.0	929.9	3.2	3.1	25.40	2.4	-36.7	25.8	19.5	6.29	4.105 CC, ES, SF		
950.0	949.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	31.9	26.6	5.22	6.104		
1,000.0	999.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	73.4	69.3	4.09	17.946		
1,045.0	1,044.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	116.6	112.7	3.83	30.444		
1,054.0	1,053.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	125.4	121.5	3.81	32.931		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - AWP												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104												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)			
1,100.0	1,099.9	930.0	929.9	3.2	3.1	20.68	2.4	-36.7	170.6	166.9	3.75	45.484	
1,140.0	1,139.9	930.0	929.9	3.3	3.1	20.68	2.4	-36.7	210.3	206.5	3.74	56.192	
1,154.0	1,153.9	930.0	929.9	3.3	3.1	20.68	2.4	-36.7	224.2	220.4	3.74	59.900	
1,200.0	1,199.9	930.0	929.9	3.3	3.1	21.49	2.4	-36.7	269.9	266.2	3.75	71.920	
1,235.0	1,234.9	930.0	929.9	3.3	3.1	22.25	2.4	-36.7	304.8	301.0	3.77	80.905	
1,294.0	1,293.9	930.0	929.9	3.4	3.1	-86.07	2.4	-36.7	363.6	359.8	3.80	95.797	
1,300.0	1,299.9	930.0	929.9	3.4	3.1	-86.07	2.4	-36.7	369.6	365.8	3.80	97.280	
1,330.0	1,329.9	930.0	929.9	3.5	3.1	-86.07	2.4	-36.7	399.6	395.8	3.82	104.691	
1,400.0	1,399.9	930.0	929.9	3.6	3.1	-86.07	2.4	-36.7	469.5	465.6	3.86	121.679	
1,425.0	1,424.9	930.0	929.9	3.6	3.1	-86.07	2.4	-36.7	494.5	490.6	3.87	127.613	
1,500.0	1,499.9	930.0	929.9	3.8	3.1	-86.07	2.4	-36.7	569.4	565.5	3.92	145.096	
1,520.0	1,519.9	930.0	929.9	3.8	3.1	-86.07	2.4	-36.7	589.4	585.4	3.94	149.651	
1,600.0	1,599.9	930.0	929.9	4.0	3.1	-86.07	2.4	-36.7	669.3	665.3	4.00	167.534	
1,615.0	1,614.9	930.0	929.9	4.1	3.1	-86.07	2.4	-36.7	684.3	680.3	4.01	170.806	
1,700.0	1,699.9	930.0	929.9	4.3	3.1	-86.07	2.4	-36.7	769.3	765.2	4.07	188.993	
1,710.0	1,709.9	930.0	929.9	4.3	3.1	-86.07	2.4	-36.7	779.3	775.2	4.08	191.078	
1,800.0	1,799.9	930.0	929.9	4.6	3.1	-86.07	2.4	-36.7	869.2	865.1	4.15	209.480	
1,805.0	1,804.9	930.0	929.9	4.6	3.1	-86.07	2.4	-36.7	874.2	870.1	4.15	210.475	
1,900.0	1,899.9	930.0	929.9	4.9	3.1	-86.07	2.4	-36.7	969.2	965.0	4.23	229.007	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0				
1.0	1.0	0.0	0.0	3.0	3.0	-90.76	-0.4	-30.0	30.0				
95.0	95.0	93.6	93.6	3.0	3.0	-43.04	0.2	-30.6	30.4	24.4	6.00	5.067	
101.0	101.0	99.6	99.6	3.0	3.0	-42.94	0.2	-30.7	30.5	24.5	6.00	5.076	
126.0	126.0	124.7	124.6	3.0	3.0	-26.02	0.6	-31.0	30.6	24.6	6.00	5.106	
151.0	151.0	149.5	149.5	3.0	3.0	-33.09	1.0	-31.3	30.8	24.8	6.00	5.137	
176.0	176.0	174.5	174.4	3.0	3.0	-41.94	1.4	-31.7	31.1	25.1	6.00	5.184	
190.0	190.0	188.5	188.4	3.0	3.0	-49.46	1.6	-32.0	31.3	25.3	6.01	5.213	
201.0	201.0	199.5	199.4	3.0	3.0	-53.23	1.7	-32.2	31.4	25.4	6.01	5.234	
226.0	226.0	224.5	224.4	3.0	3.0	-62.83	2.1	-32.6	31.7	25.7	6.01	5.283	
251.0	251.0	249.6	249.5	3.0	3.0	-68.26	2.5	-33.0	32.0	26.0	6.01	5.330	
276.0	276.0	274.6	274.5	3.0	3.0	-58.19	2.9	-33.3	32.3	26.3	6.02	5.365	
285.0	285.0	283.7	283.6	3.0	3.0	-55.48	3.0	-33.4	32.3	26.3	6.02	5.374	
301.0	301.0	299.8	299.8	3.0	3.0	-51.34	3.1	-33.6	32.4	26.3	6.02	5.375	
326.0	326.0	325.0	324.9	3.0	3.0	-43.41	3.3	-33.7	32.2	26.2	6.02	5.349	
351.0	351.0	349.9	349.8	3.0	3.0	-37.83	3.4	-33.8	32.0	26.0	6.03	5.314	
376.0	376.0	374.9	374.8	3.0	3.0	-36.40	3.5	-33.9	31.9	25.8	6.03	5.281	
380.0	380.0	378.9	378.8	3.0	3.0	-37.19	3.6	-33.9	31.8	25.8	6.03	5.275	
401.0	401.0	400.0	399.9	3.0	3.0	-41.52	3.7	-34.0	31.7	25.6	6.04	5.243	
426.0	426.0	424.9	424.8	3.0	3.0	-37.42	3.8	-34.1	31.4	25.4	6.05	5.200	
451.0	451.0	449.9	449.8	3.0	3.0	-33.89	3.9	-34.2	31.2	25.2	6.05	5.159	
475.0	475.0	473.9	473.9	3.0	3.0	-23.39	4.0	-34.3	31.0	24.9	6.06	5.111	
476.0	476.0	474.9	474.9	3.0	3.0	-22.97	4.0	-34.3	31.0	24.9	6.06	5.109	
501.0	501.0	499.9	499.9	3.1	3.1	-24.71	4.1	-34.3	30.6	24.6	6.07	5.051	
526.0	526.0	524.9	524.8	3.1	3.1	-20.94	4.2	-34.4	30.3	24.2	6.08	4.991	
551.0	551.0	549.8	549.8	3.1	3.1	-15.69	4.3	-34.5	30.0	23.9	6.08	4.931	
570.0	570.0	568.8	568.8	3.1	3.1	-11.06	4.3	-34.6	29.8	23.7	6.09	4.888	
576.0	576.0	574.8	574.8	3.1	3.1	-9.56	4.3	-34.7	29.7	23.6	6.10	4.874	
601.0	601.0	599.9	599.8	3.1	3.1	-6.41	4.3	-34.8	29.4	23.3	6.11	4.812	
626.0	625.9	624.9	624.8	3.1	3.1	1.87	4.3	-34.9	29.1	22.9	6.12	4.749	
651.0	650.9	649.8	649.8	3.1	3.1	-1.54	4.3	-35.0	28.8	22.7	6.13	4.697	
665.0	664.9	663.8	663.8	3.1	3.1	1.56	4.3	-35.1	28.7	22.5	6.14	4.670	
676.0	675.9	674.8	674.8	3.1	3.1	3.87	4.2	-35.2	28.6	22.4	6.15	4.647	
701.0	700.9	699.8	699.8	3.1	3.1	10.20	4.2	-35.3	28.3	22.1	6.16	4.594	
726.0	725.9	724.8	724.7	3.1	3.1	20.51	4.1	-35.5	28.1	21.9	6.17	4.544	
751.0	750.9	749.8	749.7	3.1	3.1	28.05	4.0	-35.7	27.8	21.6	6.19	4.498	
760.0	759.9	758.8	758.8	3.1	3.1	25.86	4.0	-35.7	27.8	21.6	6.19	4.481	
776.0	775.9	774.8	774.8	3.1	3.1	22.12	3.8	-35.8	27.6	21.4	6.20	4.446	
801.0	800.9	799.8	799.8	3.1	3.1	26.16	3.7	-36.0	27.3	21.0	6.22	4.384	
826.0	825.9	824.8	824.8	3.1	3.1	34.76	3.5	-36.1	26.9	20.7	6.23	4.324	
851.0	850.9	849.8	849.8	3.1	3.1	23.24	3.3	-36.2	26.6	20.4	6.25	4.266	
855.0	854.9	853.8	853.8	3.1	3.1	24.48	3.2	-36.2	26.6	20.3	6.25	4.256	
876.0	875.9	874.8	874.7	3.2	3.1	31.06	3.1	-36.4	26.3	20.1	6.26	4.208	
901.0	900.9	899.8	899.7	3.2	3.1	33.45	2.8	-36.5	26.1	19.8	6.28	4.157	
926.0	925.9	924.8	924.8	3.2	3.1	26.59	2.5	-36.7	25.9	19.6	6.29	4.113	
950.0	949.9	948.8	948.8	3.2	3.1	20.26	2.2	-36.8	25.7	19.4	6.30	4.076	
1,000.0	999.9	998.8	998.8	3.2	3.2	19.12	1.4	-37.1	25.4	19.0	6.33	4.011	
1,045.0	1,044.9	1,043.8	1,043.7	3.2	3.2	18.07	0.8	-37.3	25.1	18.7	6.36	3.945	
1,054.0	1,053.9	1,052.8	1,052.7	3.2	3.2	17.86	0.7	-37.3	25.0	18.7	6.37	3.932	
1,100.0	1,099.9	1,098.8	1,098.7	3.2	3.2	16.75	0.0	-37.6	24.8	18.4	6.42	3.861	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
1,140.0	1,139.9	1,138.8	1,138.7	3.3	3.2	15.78	-0.6	-37.8	24.5	18.1	6.47	3.791	
1,154.0	1,153.9	1,152.8	1,152.7	3.3	3.2	15.43	-0.8	-37.8	24.5	18.0	6.49	3.767	
1,200.0	1,199.9	1,198.9	1,198.8	3.3	3.3	14.38	-1.3	-38.1	24.3	17.7	6.58	3.690	
1,235.0	1,234.9	1,233.9	1,233.8	3.3	3.3	13.77	-1.7	-38.2	24.2	17.5	6.66	3.632	
1,262.6	1,262.4	1,261.5	1,261.4	3.4	3.4	13.40	-1.9	-38.2	24.2	17.4	6.73	3.591 CC	
1,294.0	1,293.9	1,292.9	1,292.8	3.4	3.4	-96.86	-2.0	-38.3	24.2	17.4	6.82	3.549	
1,300.0	1,299.9	1,298.9	1,298.8	3.4	3.4	-96.90	-2.0	-38.3	24.2	17.4	6.84	3.541	
1,330.0	1,329.9	1,329.0	1,328.9	3.5	3.5	-96.99	-2.1	-38.3	24.2	17.3	6.92	3.502	
1,400.0	1,399.9	1,399.0	1,398.9	3.6	3.6	-96.99	-2.1	-38.3	24.2	17.1	7.13	3.400	
1,425.0	1,424.9	1,424.0	1,423.9	3.6	3.6	-96.99	-2.1	-38.3	24.2	17.0	7.23	3.352	
1,500.0	1,499.9	1,499.0	1,498.9	3.8	3.8	-96.99	-2.1	-38.3	24.2	16.7	7.55	3.210	
1,520.0	1,519.9	1,519.0	1,518.9	3.8	3.8	-96.99	-2.1	-38.3	24.2	16.6	7.64	3.171	
1,600.0	1,599.9	1,599.0	1,598.9	4.0	4.1	-96.99	-2.1	-38.3	24.2	16.2	8.03	3.018	
1,615.0	1,614.9	1,614.0	1,613.9	4.1	4.1	-96.99	-2.1	-38.3	24.2	16.1	8.10	2.990	
1,700.0	1,699.9	1,699.0	1,698.9	4.3	4.3	-96.99	-2.1	-38.3	24.2	15.7	8.54	2.837	
1,710.0	1,709.9	1,709.0	1,708.9	4.3	4.4	-96.99	-2.1	-38.3	24.2	15.6	8.59	2.819	
1,800.0	1,799.9	1,799.0	1,798.9	4.6	4.6	-96.99	-2.1	-38.3	24.2	15.1	9.08	2.668	
1,805.0	1,804.9	1,804.0	1,803.9	4.6	4.6	-96.99	-2.1	-38.3	24.2	15.1	9.11	2.660	
1,900.0	1,899.9	1,899.0	1,898.9	4.9	4.9	-96.99	-2.1	-38.3	24.2	14.6	9.64	2.512	
1,995.0	1,994.9	1,994.0	1,993.9	5.2	5.2	-96.99	-2.1	-38.3	24.2	14.0	10.20	2.376	
2,000.1	2,000.0	1,999.1	1,999.0	5.2	5.2	-96.99	-2.1	-38.3	24.2	14.0	10.23	2.369 ES, SF	
2,090.0	2,089.9	2,088.2	2,088.1	5.5	5.5	109.38	-2.3	-39.7	26.0	15.3	10.71	2.430	
2,100.0	2,099.9	2,098.1	2,098.0	5.5	5.5	109.99	-2.3	-40.0	26.5	15.7	10.77	2.458	
2,185.0	2,184.7	2,182.0	2,181.7	6.0	6.0	116.23	-2.9	-44.0	32.2	20.7	11.54	2.794	
2,200.0	2,199.7	2,196.7	2,196.5	6.1	6.1	117.40	-3.1	-45.0	33.7	22.0	11.69	2.881	
2,250.1	2,249.7	2,245.9	2,245.5	6.3	6.5	121.11	-3.6	-48.7	39.3	27.2	12.14	3.242	
2,280.0	2,279.4	2,275.0	2,274.5	6.3	6.7	123.01	-4.0	-51.4	43.3	30.9	12.40	3.492	
2,300.0	2,299.4	2,294.5	2,293.9	6.4	6.8	124.04	-4.3	-53.3	46.2	33.6	12.58	3.668	
2,375.0	2,374.1	2,367.6	2,366.5	6.6	7.1	126.54	-5.6	-61.5	58.0	44.9	13.02	4.451	
2,400.0	2,399.0	2,392.3	2,391.0	6.7	7.1	127.10	-6.0	-64.5	62.1	48.9	13.16	4.719	
2,470.0	2,468.7	2,461.3	2,459.5	6.9	7.3	128.35	-7.3	-72.8	73.7	60.1	13.54	5.440	
2,500.0	2,498.6	2,490.9	2,488.9	7.0	7.4	128.77	-7.8	-76.4	78.6	64.9	13.70	5.737	
2,565.0	2,563.4	2,555.0	2,552.5	7.2	7.6	129.52	-9.0	-84.1	89.4	75.3	14.09	6.347	
2,600.0	2,598.2	2,589.5	2,586.7	7.3	7.7	129.86	-9.6	-88.3	95.2	80.9	14.29	6.663	
2,660.0	2,658.0	2,648.7	2,645.5	7.5	7.9	130.35	-10.7	-95.4	105.2	90.5	14.64	7.181	
2,700.0	2,697.8	2,688.1	2,684.6	7.6	8.0	130.62	-11.4	-100.2	111.8	96.9	14.89	7.510	
2,755.0	2,752.6	2,742.3	2,738.4	7.8	8.1	130.96	-12.4	-106.7	120.9	105.7	15.22	7.944	
2,800.0	2,797.5	2,786.7	2,782.5	7.9	8.3	131.19	-13.2	-112.1	128.4	112.9	15.50	8.284	
2,850.0	2,847.3	2,836.0	2,831.4	8.1	8.4	131.42	-14.1	-118.0	136.7	120.9	15.81	8.647	
2,900.0	2,897.1	2,885.3	2,880.3	8.3	8.6	131.63	-15.0	-123.9	145.0	128.9	16.13	8.995	
2,945.0	2,941.9	2,929.7	2,924.4	8.4	8.7	131.79	-15.9	-129.3	152.5	136.1	16.41	9.295	
3,000.0	2,996.7	2,983.9	2,978.2	8.6	8.9	131.98	-16.9	-135.8	161.7	144.9	16.76	9.647	
3,040.0	3,036.6	3,023.3	3,017.4	8.7	9.0	132.09	-17.6	-140.6	168.3	151.3	17.01	9.893	
3,100.0	3,096.3	3,082.5	3,076.1	8.9	9.2	132.26	-18.7	-147.7	178.3	160.9	17.40	10.248	
3,135.0	3,131.2	3,117.0	3,110.3	9.1	9.3	132.34	-19.3	-151.9	184.1	166.5	17.63	10.447	
3,200.0	3,195.9	3,181.1	3,173.9	9.3	9.5	132.49	-20.5	-159.6	194.9	176.9	18.05	10.802	
3,230.0	3,225.8	3,210.7	3,203.3	9.4	9.6	132.55	-21.0	-163.2	199.9	181.7	18.24	10.960	
3,300.0	3,295.6	3,279.7	3,271.8	9.6	9.8	132.69	-22.3	-171.5	211.6	192.9	18.70	11.314	
3,325.0	3,320.5	3,304.4	3,296.3	9.7	9.9	132.73	-22.7	-174.4	215.8	196.9	18.87	11.436	
3,400.0	3,395.2	3,378.3	3,369.7	10.0	10.2	132.86	-24.1	-183.4	228.2	208.9	19.36	11.788	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program:		1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
3,420.0	3,415.1	3,398.0	3,389.3	10.0	10.2	132.89	-24.4	-185.7	231.6	212.1	19.49	11.878		
3,500.0	3,494.8	3,476.9	3,467.5	10.3	10.5	133.00	-25.9	-195.2	244.9	224.9	20.03	12.228		
3,515.0	3,509.7	3,491.7	3,482.2	10.3	10.6	133.02	-26.1	-197.0	247.4	227.3	20.13	12.291		
3,600.0	3,594.4	3,575.5	3,565.4	10.6	10.8	133.13	-27.7	-207.1	261.5	240.8	20.70	12.637		
3,610.0	3,604.4	3,585.4	3,575.2	10.7	10.9	133.14	-27.8	-208.3	263.2	242.4	20.76	12.676		
3,700.0	3,694.0	3,674.1	3,663.3	11.0	11.2	133.24	-29.5	-219.0	278.2	256.8	21.37	13.017		
3,705.0	3,699.0	3,679.1	3,668.2	11.0	11.2	133.25	-29.6	-219.6	279.0	257.6	21.40	13.036		
3,800.0	3,793.7	3,772.7	3,761.1	11.3	11.5	133.34	-31.3	-230.9	294.8	272.8	22.05	13.373		
3,895.0	3,888.3	3,866.4	3,854.1	11.7	11.8	133.43	-33.0	-242.2	310.6	288.0	22.69	13.689		
3,900.0	3,893.3	3,871.3	3,859.0	11.7	11.9	133.43	-33.1	-242.8	311.5	288.8	22.73	13.705		
3,990.0	3,982.9	3,960.1	3,947.1	12.0	12.2	133.50	-34.7	-253.5	326.5	303.1	23.34	13.986		
4,007.7	4,000.6	3,977.6	3,964.5	12.1	12.2	133.52	-35.0	-255.6	329.4	306.0	23.46	14.040		
4,085.0	4,077.6	4,053.8	4,040.1	12.3	12.5	133.60	-36.4	-264.8	341.9	317.9	23.99	14.251		
4,100.0	4,092.6	4,068.6	4,054.8	12.4	12.5	133.60	-36.7	-266.5	344.3	320.2	24.10	14.288		
4,180.0	4,172.4	4,147.7	4,133.3	12.7	12.8	133.53	-38.1	-276.1	356.3	331.7	24.65	14.459		
4,200.0	4,192.4	4,167.5	4,153.0	12.7	12.9	133.49	-38.5	-278.5	359.2	334.5	24.78	14.495		
4,275.0	4,267.3	4,241.7	4,226.7	13.0	13.2	133.28	-39.8	-287.4	369.7	344.4	25.30	14.613		
4,300.0	4,292.3	4,266.5	4,251.2	13.1	13.2	133.19	-40.3	-290.4	373.0	347.6	25.47	14.645		
4,370.0	4,362.2	4,335.9	4,320.1	13.3	13.5	132.88	-41.6	-298.8	382.0	356.0	25.95	14.718		
4,400.0	4,392.2	4,365.6	4,349.6	13.4	13.6	132.72	-42.1	-302.3	385.7	359.5	26.16	14.742		
4,465.0	4,457.2	4,430.1	4,413.6	13.6	13.8	132.33	-43.3	-310.1	393.3	366.7	26.60	14.783		
4,507.8	4,500.0	4,472.5	4,455.7	13.8	14.0	-71.51	-44.1	-315.2	398.0	371.1	26.89	14.799		
4,560.0	4,552.2	4,524.4	4,507.2	13.9	14.2	-71.92	-45.0	-321.5	403.7	376.4	27.25	14.816		
4,600.0	4,592.2	4,564.1	4,546.6	14.1	14.3	-72.23	-45.7	-326.3	408.1	380.5	27.52	14.829		
4,655.0	4,647.2	4,618.7	4,600.8	14.2	14.5	-72.64	-46.7	-332.8	414.1	386.2	27.89	14.846		
4,700.0	4,692.2	4,663.4	4,645.1	14.4	14.6	-72.97	-47.5	-338.2	419.0	390.8	28.20	14.860		
4,750.0	4,742.2	4,713.0	4,694.4	14.5	14.8	-73.32	-48.5	-344.2	424.5	396.0	28.54	14.876		
4,800.0	4,792.2	4,762.6	4,743.6	14.7	15.0	-73.67	-49.4	-350.2	430.1	401.2	28.88	14.892		
4,845.0	4,837.2	4,807.3	4,788.0	14.9	15.2	-73.97	-50.2	-355.6	435.1	405.9	29.19	14.905		
4,900.0	4,892.2	4,861.9	4,842.2	15.0	15.4	-74.34	-51.2	-362.1	441.2	411.6	29.56	14.922		
4,940.0	4,932.2	4,901.6	4,881.6	15.2	15.5	-74.59	-51.9	-366.9	445.6	415.8	29.84	14.934		
5,000.0	4,992.2	4,961.1	4,940.7	15.4	15.7	-74.97	-53.0	-374.1	452.3	422.1	30.25	14.952		
5,035.0	5,027.2	4,995.9	4,975.2	15.5	15.8	-75.19	-53.6	-378.3	456.2	425.7	30.49	14.963		
5,100.0	5,092.2	5,060.4	5,039.2	15.7	16.1	-75.58	-54.8	-386.1	463.5	432.6	30.94	14.982		
5,130.0	5,122.2	5,090.1	5,068.7	15.8	16.2	-75.75	-55.3	-389.7	466.9	435.7	31.14	14.991		
5,200.0	5,192.2	5,159.6	5,137.7	16.1	16.4	-76.15	-56.6	-398.0	474.8	443.1	31.63	15.011		
5,225.0	5,217.2	5,184.4	5,162.3	16.1	16.5	-76.29	-57.1	-401.0	477.6	445.8	31.80	15.018		
5,300.0	5,292.2	5,258.9	5,236.2	16.4	16.8	-76.70	-58.4	-410.0	486.1	453.8	32.32	15.040		
5,320.0	5,312.2	5,278.7	5,255.9	16.5	16.9	-76.81	-58.8	-412.4	488.3	455.9	32.46	15.046		
5,400.0	5,392.2	5,358.1	5,334.7	16.7	17.2	-77.22	-60.2	-422.0	497.4	464.4	33.01	15.068		
5,415.0	5,407.2	5,373.0	5,349.5	16.8	17.2	-77.30	-60.5	-423.7	499.1	466.0	33.12	15.072		
5,500.0	5,492.2	5,457.4	5,433.2	17.1	17.5	-77.72	-62.1	-433.9	508.8	475.1	33.70	15.095		
5,510.0	5,502.2	5,467.3	5,443.1	17.1	17.6	-77.77	-62.2	-435.1	509.9	476.2	33.77	15.098		
5,600.0	5,592.2	5,556.6	5,531.8	17.4	17.9	-78.20	-63.9	-445.9	520.2	485.8	34.40	15.122		
5,605.0	5,597.2	5,561.6	5,536.7	17.4	17.9	-78.23	-64.0	-446.5	520.8	486.3	34.43	15.124		
5,700.0	5,692.2	5,655.9	5,630.3	17.7	18.2	-78.66	-65.7	-457.8	531.7	496.6	35.10	15.149		
5,795.0	5,787.2	5,750.2	5,723.9	18.1	18.6	-79.08	-67.4	-469.2	542.6	506.8	35.76	15.173		
5,800.0	5,792.2	5,755.1	5,728.8	18.1	18.6	-79.10	-67.5	-469.8	543.1	507.3	35.79	15.174		
5,890.0	5,882.2	5,844.5	5,817.4	18.4	18.9	-79.48	-69.1	-480.6	553.5	517.1	36.42	15.197		
5,900.0	5,892.2	5,854.4	5,827.3	18.4	19.0	-79.52	-69.3	-481.8	554.7	518.2	36.49	15.199		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
5,985.0	5,977.2	5,938.8	5,911.0	18.7	19.3	-79.86	-70.9	-491.9	564.5	527.4	37.09	15.220	
6,000.0	5,992.2	5,953.7	5,925.8	18.8	19.3	-79.92	-71.1	-493.7	566.2	529.0	37.19	15.224	
6,080.0	6,072.2	6,033.1	6,004.6	19.0	19.6	-80.23	-72.6	-503.3	575.4	537.7	37.75	15.243	
6,100.0	6,092.2	6,052.9	6,024.3	19.1	19.7	-80.31	-72.9	-505.7	577.8	539.9	37.89	15.248	
6,175.0	6,167.2	6,127.4	6,098.2	19.4	20.0	-80.59	-74.3	-514.7	586.5	548.0	38.42	15.265	
6,200.0	6,192.2	6,152.2	6,122.8	19.5	20.1	-80.68	-74.8	-517.6	589.4	550.8	38.59	15.271	
6,270.0	6,262.2	6,221.6	6,191.8	19.7	20.3	-80.93	-76.0	-526.0	597.5	558.4	39.08	15.287	
6,300.0	6,292.2	6,251.4	6,221.4	19.8	20.4	-81.04	-76.6	-529.6	601.0	561.7	39.29	15.294	
6,365.0	6,357.2	6,315.9	6,285.4	20.0	20.7	-81.26	-77.7	-537.4	608.5	568.8	39.75	15.309	
6,400.0	6,392.2	6,350.7	6,319.9	20.2	20.8	-81.38	-78.4	-541.6	612.6	572.6	40.00	15.316	
6,460.0	6,452.2	6,410.2	6,379.0	20.4	21.0	-81.58	-79.5	-548.7	619.6	579.2	40.42	15.329	
6,500.0	6,492.2	6,449.9	6,418.4	20.5	21.1	-81.72	-80.2	-553.5	624.3	583.6	40.70	15.338	
6,555.0	6,547.2	6,504.5	6,472.6	20.7	21.3	-81.89	-81.2	-560.1	630.7	589.6	41.09	15.350	
6,600.0	6,592.2	6,549.2	6,516.9	20.8	21.5	-82.03	-82.0	-565.5	635.9	594.5	41.40	15.359	
6,650.0	6,642.2	6,598.8	6,566.2	21.0	21.7	-82.19	-82.9	-571.5	641.8	600.0	41.76	15.370	
6,700.0	6,692.2	6,648.4	6,615.4	21.2	21.9	-82.34	-83.8	-577.5	647.6	605.5	42.11	15.380	
6,745.0	6,737.2	6,693.1	6,659.7	21.3	22.0	-82.48	-84.6	-582.8	652.9	610.5	42.43	15.389	
6,800.0	6,792.2	6,747.7	6,713.9	21.5	22.2	-82.64	-85.6	-589.4	659.4	616.5	42.81	15.400	
6,840.0	6,832.2	6,787.4	6,753.3	21.7	22.4	-82.75	-86.4	-594.2	664.1	621.0	43.10	15.408	
6,900.0	6,892.2	6,846.9	6,812.4	21.9	22.6	-82.93	-87.5	-601.4	671.1	627.6	43.52	15.420	
6,935.0	6,927.2	6,881.7	6,846.9	22.0	22.7	-83.02	-88.1	-605.6	675.2	631.4	43.77	15.427	
7,000.0	6,992.2	6,946.2	6,911.0	22.2	23.0	-83.20	-89.3	-613.3	682.8	638.6	44.23	15.439	
7,030.0	7,022.2	6,976.0	6,940.5	22.3	23.1	-83.28	-89.8	-616.9	686.4	641.9	44.44	15.445	
7,100.0	7,092.2	7,045.5	7,009.5	22.6	23.3	-83.47	-91.1	-625.3	694.6	649.7	44.93	15.458	
7,125.0	7,117.2	7,070.3	7,034.1	22.7	23.4	-83.53	-91.5	-628.3	697.6	652.4	45.11	15.463	
7,200.0	7,192.2	7,144.7	7,108.0	22.9	23.7	-83.73	-92.9	-637.3	706.4	660.7	45.64	15.477	
7,220.0	7,212.2	7,164.6	7,127.7	23.0	23.8	-83.78	-93.3	-639.7	708.7	663.0	45.78	15.480	
7,300.0	7,292.2	7,244.0	7,206.5	23.3	24.1	-83.98	-94.7	-649.2	718.2	671.8	46.35	15.495	
7,315.0	7,307.2	7,258.9	7,221.3	23.3	24.1	-84.01	-95.0	-651.0	720.0	673.5	46.46	15.497	
7,400.0	7,392.2	7,343.2	7,305.0	23.6	24.4	-84.22	-96.5	-661.2	730.0	682.9	47.06	15.512	
7,410.0	7,402.2	7,353.1	7,314.9	23.7	24.5	-84.24	-96.7	-662.4	731.2	684.0	47.13	15.514	
7,500.0	7,492.2	7,442.5	7,403.5	24.0	24.8	-84.45	-98.3	-673.2	741.8	694.0	47.77	15.529	
7,505.0	7,497.2	7,447.4	7,408.5	24.0	24.8	-84.46	-98.4	-673.7	742.4	694.6	47.80	15.530	
7,600.0	7,592.2	7,541.7	7,502.0	24.3	25.2	-84.68	-100.2	-685.1	753.6	705.2	48.48	15.546	
7,695.0	7,687.2	7,636.0	7,595.6	24.7	25.5	-84.89	-101.9	-696.5	764.9	715.7	49.15	15.562	
7,700.0	7,692.2	7,641.0	7,600.6	24.7	25.5	-84.90	-102.0	-697.1	765.5	716.3	49.19	15.562	
7,790.0	7,782.2	7,730.3	7,689.2	25.0	25.9	-85.09	-103.6	-707.8	776.1	726.3	49.83	15.577	
7,800.0	7,792.2	7,740.2	7,699.1	25.0	25.9	-85.11	-103.8	-709.0	777.3	727.4	49.90	15.578	
7,885.0	7,877.2	7,824.6	7,782.8	25.3	26.2	-85.29	-105.3	-719.2	787.4	736.9	50.50	15.592	
7,900.0	7,892.2	7,839.5	7,797.6	25.4	26.3	-85.32	-105.6	-721.0	789.2	738.6	50.61	15.594	
7,980.0	7,972.2	7,918.9	7,876.4	25.7	26.6	-85.48	-107.0	-730.6	798.7	747.5	51.18	15.606	
8,000.0	7,992.2	7,938.7	7,896.1	25.7	26.6	-85.52	-107.4	-733.0	801.1	749.7	51.32	15.609	
8,075.0	8,067.2	8,013.2	7,970.0	26.0	26.9	-85.67	-108.8	-741.9	810.0	758.1	51.85	15.620	
8,100.0	8,092.2	8,038.0	7,994.6	26.1	27.0	-85.71	-109.2	-744.9	812.9	760.9	52.03	15.624	
8,170.0	8,162.2	8,107.5	8,063.6	26.3	27.3	-85.85	-110.5	-753.3	821.3	768.7	52.53	15.634	
8,200.0	8,192.2	8,137.3	8,093.1	26.4	27.4	-85.90	-111.0	-756.9	824.8	772.1	52.74	15.639	
8,265.0	8,257.2	8,201.8	8,157.2	26.7	27.6	-86.02	-112.2	-764.7	832.6	779.4	53.21	15.648	
8,300.0	8,292.2	8,236.5	8,191.6	26.8	27.7	-86.09	-112.8	-768.8	836.7	783.3	53.46	15.653	
8,360.0	8,352.2	8,296.1	8,250.7	27.0	28.0	-86.20	-113.9	-776.0	843.9	790.0	53.88	15.661	
8,400.0	8,392.2	8,335.8	8,290.2	27.1	28.1	-86.27	-114.7	-780.8	848.6	794.5	54.17	15.667	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS												Offset Well Error:	3.0 usft
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	
8,455.0	8,447.2	8,390.3	8,344.3	27.3	28.3	-86.36	-115.7	-787.4	855.2	800.6	54.56	15.674	
8,500.0	8,492.2	8,435.0	8,388.7	27.5	28.5	-86.44	-116.5	-792.8	860.6	805.7	54.88	15.681	
8,550.0	8,542.2	8,484.6	8,437.9	27.7	28.7	-86.52	-117.4	-798.8	866.5	811.3	55.24	15.687	
8,600.0	8,592.2	8,534.3	8,487.2	27.8	28.9	-86.61	-118.3	-804.7	872.5	816.9	55.59	15.694	
8,645.0	8,637.2	8,578.9	8,531.5	28.0	29.0	-86.68	-119.1	-810.1	877.8	821.9	55.91	15.700	
8,700.0	8,692.2	8,633.5	8,585.7	28.2	29.2	-86.77	-120.1	-816.7	884.4	828.1	56.31	15.707	
8,740.0	8,732.2	8,673.2	8,625.1	28.3	29.4	-86.84	-120.8	-821.5	889.2	832.6	56.59	15.712	
8,800.0	8,792.2	8,732.8	8,684.2	28.5	29.6	-86.93	-121.9	-828.7	896.3	839.3	57.02	15.720	
8,835.0	8,827.2	8,767.5	8,718.7	28.7	29.7	-86.99	-122.6	-832.8	900.5	843.3	57.27	15.724	
8,900.0	8,892.2	8,832.4	8,783.1	28.9	30.0	-87.09	-123.7	-840.7	908.3	850.6	57.73	15.732	
8,930.0	8,922.2	8,867.7	8,818.1	29.0	30.1	-87.14	-124.4	-844.8	911.8	853.8	57.98	15.725	
9,000.0	8,992.2	8,950.2	8,900.2	29.2	30.4	-87.25	-125.7	-853.6	919.2	860.6	58.56	15.697	
9,025.0	9,017.2	8,979.8	8,929.6	29.3	30.5	-87.29	-126.1	-856.5	921.6	862.8	58.76	15.683	
9,100.0	9,092.2	9,068.5	9,018.0	29.6	30.8	-87.38	-127.3	-864.2	928.1	868.7	59.37	15.632	
9,120.0	9,112.2	9,092.2	9,041.6	29.7	30.9	-87.41	-127.6	-866.1	929.6	870.1	59.53	15.615	
9,200.0	9,192.2	9,187.2	9,136.4	30.0	31.2	-87.48	-128.6	-872.5	935.0	874.8	60.17	15.539	
9,215.0	9,207.2	9,205.0	9,154.2	30.0	31.3	-87.50	-128.7	-873.5	935.8	875.5	60.29	15.523	
9,300.0	9,292.2	9,306.2	9,255.2	30.3	31.7	-87.55	-129.4	-878.3	939.8	878.9	60.94	15.421	
9,310.0	9,302.2	9,318.1	9,267.1	30.3	31.7	-87.56	-129.5	-878.7	940.2	879.2	61.02	15.408	
9,400.0	9,392.2	9,425.4	9,374.3	30.7	32.1	-87.59	-130.0	-881.7	942.6	880.9	61.70	15.278	
9,405.0	9,397.2	9,431.3	9,380.3	30.7	32.1	-87.59	-130.0	-881.8	942.7	881.0	61.74	15.270	
9,500.0	9,492.2	9,542.3	9,491.2	31.0	32.5	-87.60	-130.1	-882.6	943.4	881.0	62.42	15.113	
9,595.0	9,587.2	9,637.3	9,586.2	31.3	32.8	-87.60	-130.1	-882.6	943.4	880.4	63.07	14.959	
9,600.0	9,592.2	9,642.3	9,591.2	31.4	32.8	-87.60	-130.1	-882.6	943.4	880.3	63.10	14.951	
9,690.0	9,682.2	9,732.3	9,681.2	31.7	33.1	-87.60	-130.1	-882.6	943.4	879.7	63.71	14.807	
9,700.0	9,692.2	9,742.3	9,691.2	31.7	33.1	-87.60	-130.1	-882.6	943.4	879.6	63.78	14.791	
9,785.0	9,777.2	9,827.3	9,776.2	32.0	33.4	-87.60	-130.1	-882.6	943.4	879.1	64.36	14.658	
9,800.0	9,792.2	9,842.3	9,791.2	32.1	33.5	-87.60	-130.1	-882.6	943.4	879.0	64.46	14.635	
9,880.0	9,872.2	9,922.3	9,871.2	32.4	33.7	-87.60	-130.1	-882.6	943.4	878.4	65.01	14.512	
9,900.0	9,892.2	9,942.3	9,891.2	32.4	33.8	-87.60	-130.1	-882.6	943.4	878.3	65.15	14.482	
9,975.0	9,967.2	10,017.3	9,966.2	32.7	34.0	-87.60	-130.1	-882.6	943.4	877.8	65.63	14.375	
10,000.0	9,992.2	10,042.3	9,991.2	32.8	34.0	-87.60	-130.1	-882.6	943.4	877.7	65.76	14.346	
10,000.4	9,992.6	10,042.7	9,991.6	32.8	34.0	-87.60	-130.1	-882.6	943.4	877.7	65.76	14.346	
10,070.0	10,062.2	10,110.4	10,059.3	33.0	34.1	-87.58	-129.6	-882.6	943.4	877.4	66.09	14.274	
10,100.0	10,092.2	10,137.8	10,086.6	33.1	34.1	-87.46	-127.7	-882.6	943.6	877.3	66.21	14.251	
10,165.0	10,157.2	10,195.8	10,143.9	33.3	34.1	-86.89	-118.3	-882.6	944.1	877.8	66.34	14.230	
10,196.3	10,188.5	10,222.7	10,170.0	33.3	34.1	-86.48	-111.6	-882.7	944.6	878.2	66.41	14.223	
10,200.0	10,192.2	10,225.0	10,172.2	33.3	34.1	-84.41	-111.0	-882.7	944.7	878.3	66.41	14.224	
10,225.0	10,217.2	10,246.9	10,193.0	33.3	34.1	-83.99	-104.3	-882.7	945.1	878.7	66.42	14.229	
10,250.0	10,242.1	10,267.8	10,212.6	33.3	34.1	-83.61	-97.2	-882.7	945.6	879.2	66.43	14.236	
10,260.0	10,252.0	10,275.0	10,219.3	33.3	34.1	-83.47	-94.5	-882.7	945.8	879.3	66.43	14.234	
10,275.0	10,266.9	10,288.4	10,231.7	33.3	34.1	-83.24	-89.2	-882.7	946.0	879.6	66.44	14.239	
10,300.0	10,291.4	10,308.9	10,250.2	33.3	34.1	-82.89	-80.5	-882.8	946.4	880.0	66.44	14.244	
10,325.0	10,315.7	10,329.2	10,268.2	33.4	34.2	-82.55	-71.1	-882.8	946.8	880.4	66.45	14.249	
10,350.0	10,339.6	10,350.0	10,286.2	33.4	34.2	-82.22	-60.7	-882.8	947.2	880.7	66.45	14.254	
10,355.0	10,344.3	10,353.4	10,289.1	33.4	34.2	-82.17	-58.9	-882.9	947.3	880.8	66.45	14.255	
10,375.0	10,363.1	10,369.4	10,302.6	33.4	34.2	-81.93	-50.3	-882.9	947.5	881.1	66.45	14.259	
10,400.0	10,386.1	10,389.3	10,318.9	33.4	34.2	-81.65	-39.0	-882.9	947.8	881.4	66.45	14.263	
10,425.0	10,408.6	10,409.1	10,334.7	33.4	34.2	-81.39	-27.0	-883.0	948.1	881.6	66.45	14.268	
10,450.0	10,430.5	10,428.7	10,349.8	33.4	34.2	-81.14	-14.5	-883.0	948.3	881.8	66.44	14.272	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error:	3.0 usft
Survey Program:		1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,475.0	10,451.7	10,450.0	10,365.6	33.4	34.2	-80.90	-0.3	-883.1	948.4	882.0	66.44	14.275		
10,500.0	10,472.2	10,467.7	10,378.3	33.4	34.2	-80.72	12.1	-883.1	948.5	882.1	66.43	14.278		
10,525.0	10,491.9	10,487.0	10,391.6	33.4	34.2	-80.54	26.1	-883.2	948.5	882.1	66.42	14.281		
10,545.0	10,507.1	10,500.0	10,400.2	33.5	34.2	-80.43	35.9	-883.2	948.5	882.1	66.41	14.283		
10,550.0	10,510.8	10,506.3	10,404.3	33.5	34.2	-80.38	40.6	-883.2	948.5	882.1	66.41	14.282		
10,551.9	10,512.2	10,507.7	10,405.2	33.5	34.2	-80.37	41.8	-883.2	948.5	882.1	66.41	14.282		
10,575.0	10,528.8	10,525.0	10,416.0	33.5	34.2	-80.24	55.2	-883.3	948.4	882.0	66.40	14.283		
10,600.0	10,545.8	10,544.6	10,427.7	33.5	34.2	-80.12	71.0	-883.3	948.3	881.9	66.39	14.282		
10,625.0	10,561.9	10,563.7	10,438.4	33.5	34.2	-80.03	86.7	-883.4	948.1	881.7	66.39	14.281		
10,640.0	10,571.1	10,575.0	10,444.5	33.5	34.2	-79.98	96.3	-883.4	947.9	881.5	66.38	14.279		
10,650.0	10,577.0	10,582.7	10,448.5	33.5	34.2	-79.96	102.9	-883.4	947.8	881.4	66.38	14.278		
10,675.0	10,591.0	10,600.0	10,457.0	33.5	34.2	-79.91	117.9	-883.5	947.4	881.1	66.37	14.274		
10,700.0	10,603.9	10,620.6	10,466.6	33.5	34.2	-79.88	136.2	-883.5	947.0	880.6	66.37	14.268		
10,725.0	10,615.6	10,639.5	10,474.6	33.5	34.2	-79.87	153.3	-883.6	946.5	880.2	66.37	14.261		
10,735.0	10,620.0	10,650.0	10,478.7	33.5	34.2	-79.87	162.9	-883.6	946.3	879.9	66.38	14.256		
10,750.0	10,626.2	10,658.4	10,481.9	33.5	34.2	-79.89	170.7	-883.7	946.0	879.6	66.38	14.252		
10,775.0	10,635.6	10,675.0	10,487.8	33.6	34.2	-79.93	186.2	-883.7	945.4	879.0	66.38	14.242		
10,800.0	10,643.8	10,696.1	10,494.5	33.6	34.2	-79.99	206.3	-883.8	944.7	878.3	66.39	14.228		
10,825.0	10,650.7	10,715.0	10,499.7	33.6	34.2	-80.07	224.4	-883.9	943.9	877.5	66.41	14.214		
10,830.0	10,651.9	10,718.8	10,500.7	33.6	34.2	-80.09	228.0	-883.9	943.7	877.3	66.41	14.211		
10,850.0	10,656.3	10,733.9	10,504.2	33.6	34.2	-80.18	242.7	-883.9	943.1	876.7	66.42	14.198		
10,875.0	10,660.7	10,750.0	10,507.5	33.6	34.2	-80.30	258.5	-884.0	942.2	875.8	66.44	14.181		
10,900.0	10,663.8	10,771.6	10,511.0	33.6	34.2	-80.45	279.8	-884.0	941.3	874.8	66.47	14.160		
10,925.0	10,665.5	10,790.5	10,513.3	33.6	34.2	-80.62	298.6	-884.1	940.3	873.8	66.50	14.139		
10,945.7	10,666.0	10,806.2	10,514.6	33.6	34.2	-80.78	314.2	-884.2	939.4	872.9	66.53	14.120		
11,000.0	10,666.1	10,850.3	10,515.8	33.6	34.2	-80.84	358.2	-884.3	938.0	871.4	66.61	14.082		
11,020.0	10,666.1	10,870.3	10,515.8	33.6	34.2	-80.84	378.2	-884.4	937.8	871.2	66.64	14.072		
11,037.0	10,666.1	10,887.3	10,515.9	33.6	34.2	-80.84	395.3	-884.5	937.7	871.1	66.67	14.066		
11,100.0	10,666.2	10,950.3	10,516.0	33.6	34.2	-80.84	458.2	-884.7	937.7	871.0	66.78	14.042		
11,115.0	10,666.2	10,965.3	10,516.0	33.7	34.2	-80.84	473.2	-884.7	937.7	870.9	66.81	14.036		
11,200.0	10,666.3	11,050.3	10,516.1	33.7	34.2	-80.84	558.2	-885.0	937.7	870.8	66.99	13.998		
11,210.0	10,666.4	11,060.3	10,516.1	33.7	34.2	-80.84	568.2	-885.1	937.7	870.7	67.01	13.993		
11,300.0	10,666.5	11,150.3	10,516.2	33.7	34.3	-80.84	658.2	-885.4	937.7	870.5	67.24	13.947		
11,305.0	10,666.5	11,155.3	10,516.2	33.7	34.3	-80.84	663.2	-885.4	937.7	870.5	67.25	13.944		
11,400.0	10,666.6	11,250.3	10,516.4	33.8	34.3	-80.84	758.2	-885.7	937.7	870.2	67.51	13.889		
11,495.0	10,666.7	11,345.3	10,516.5	33.9	34.4	-80.84	853.2	-886.1	937.7	869.9	67.81	13.829		
11,500.0	10,666.8	11,350.3	10,516.5	33.9	34.4	-80.84	858.2	-886.1	937.7	869.9	67.83	13.825		
11,590.0	10,666.9	11,440.3	10,516.6	34.0	34.6	-80.84	948.2	-886.4	937.7	869.6	68.14	13.763		
11,600.0	10,666.9	11,450.3	10,516.6	34.0	34.6	-80.84	958.2	-886.4	937.7	869.6	68.17	13.755		
11,685.0	10,667.0	11,535.3	10,516.8	34.1	34.7	-80.84	1,043.2	-886.7	937.7	869.2	68.49	13.691		
11,700.0	10,667.0	11,550.3	10,516.8	34.2	34.8	-80.84	1,058.2	-886.8	937.7	869.2	68.55	13.680		
11,780.0	10,667.1	11,630.3	10,516.9	34.3	34.9	-80.84	1,138.2	-887.1	937.7	868.9	68.88	13.615		
11,800.0	10,667.2	11,650.3	10,516.9	34.3	35.0	-80.84	1,158.2	-887.1	937.7	868.8	68.96	13.598		
11,875.0	10,667.3	11,725.3	10,517.0	34.5	35.1	-80.84	1,233.2	-887.4	937.7	868.5	69.29	13.534		
11,900.0	10,667.3	11,750.3	10,517.1	34.5	35.2	-80.84	1,258.2	-887.5	937.7	868.3	69.40	13.512		
11,970.0	10,667.4	11,820.3	10,517.1	34.7	35.3	-80.84	1,328.2	-887.7	937.7	868.0	69.73	13.448		
12,000.0	10,667.4	11,850.3	10,517.2	34.8	35.4	-80.84	1,358.2	-887.9	937.7	867.9	69.87	13.421		
12,065.0	10,667.5	11,915.3	10,517.3	34.9	35.6	-80.84	1,423.2	-888.1	937.7	867.5	70.20	13.359		
12,100.0	10,667.6	11,950.3	10,517.3	35.0	35.7	-80.84	1,458.2	-888.2	937.7	867.4	70.37	13.325		
12,160.0	10,667.7	12,010.3	10,517.4	35.1	35.8	-80.84	1,518.2	-888.4	937.7	867.0	70.69	13.265		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1													Offset Site Error: 3.0 usft	
Survey Program:		1-Standard Keeper 104, 930-MWD+IFR1, 10089-MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		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	
12,200.0	10,667.7	12,050.3	10,517.5	35.2	35.9	-80.84	1,558.2	-888.6	937.7	866.8	70.91	13.225		
12,255.0	10,667.8	12,105.3	10,517.5	35.4	36.1	-80.84	1,613.2	-888.8	937.7	866.5	71.21	13.169		
12,300.0	10,667.8	12,150.3	10,517.6	35.5	36.2	-80.84	1,658.2	-888.9	937.7	866.3	71.47	13.122		
12,350.0	10,667.9	12,200.3	10,517.7	35.7	36.4	-80.84	1,708.2	-889.1	937.7	866.0	71.76	13.068		
12,400.0	10,668.0	12,250.3	10,517.7	35.8	36.5	-80.84	1,758.2	-889.3	937.7	865.7	72.05	13.014		
12,445.0	10,668.0	12,295.3	10,517.8	36.0	36.6	-80.84	1,803.2	-889.4	937.7	865.4	72.33	12.965		
12,500.0	10,668.1	12,350.3	10,517.9	36.1	36.8	-80.84	1,858.2	-889.6	937.7	865.1	72.67	12.904		
12,540.0	10,668.2	12,390.3	10,517.9	36.2	36.9	-80.84	1,898.2	-889.8	937.7	864.8	72.92	12.859		
12,600.0	10,668.3	12,450.3	10,518.0	36.4	37.1	-80.84	1,958.2	-890.0	937.7	864.4	73.31	12.791		
12,635.0	10,668.3	12,485.3	10,518.1	36.6	37.2	-80.84	1,993.2	-890.1	937.7	864.2	73.54	12.751		
12,700.0	10,668.4	12,550.3	10,518.2	36.8	37.5	-80.84	2,058.2	-890.3	937.7	863.8	73.98	12.675		
12,730.0	10,668.4	12,580.3	10,518.2	36.9	37.6	-80.84	2,088.2	-890.4	937.7	863.5	74.19	12.640		
12,800.0	10,668.5	12,650.3	10,518.3	37.1	37.8	-80.84	2,158.2	-890.7	937.7	863.1	74.67	12.558		
12,825.0	10,668.6	12,675.3	10,518.3	37.2	37.9	-80.84	2,183.2	-890.8	937.7	862.9	74.85	12.528		
12,900.0	10,668.7	12,750.3	10,518.4	37.5	38.2	-80.84	2,258.2	-891.0	937.7	862.3	75.39	12.438		
12,920.0	10,668.7	12,770.3	10,518.5	37.6	38.2	-80.84	2,278.2	-891.1	937.7	862.2	75.54	12.414		
13,000.0	10,668.8	12,850.3	10,518.6	37.9	38.5	-80.84	2,358.2	-891.4	937.7	861.6	76.14	12.317		
13,015.0	10,668.8	12,865.3	10,518.6	37.9	38.6	-80.84	2,373.2	-891.4	937.7	861.5	76.25	12.298		
13,100.0	10,668.9	12,950.3	10,518.7	38.2	38.9	-80.84	2,458.2	-891.7	937.7	860.8	76.90	12.194		
13,110.0	10,668.9	12,960.3	10,518.7	38.3	39.0	-80.84	2,468.2	-891.8	937.7	860.8	76.98	12.182		
13,200.0	10,669.1	13,050.3	10,518.8	38.6	39.3	-80.84	2,558.2	-892.1	937.7	860.0	77.69	12.070		
13,205.0	10,669.1	13,055.3	10,518.8	38.7	39.3	-80.84	2,563.2	-892.1	937.7	860.0	77.73	12.064		
13,300.0	10,669.2	13,150.3	10,519.0	39.0	39.7	-80.84	2,658.2	-892.4	937.7	859.2	78.50	11.946		
13,395.0	10,669.3	13,245.3	10,519.1	39.4	40.1	-80.84	2,753.2	-892.8	937.7	858.4	79.29	11.827		
13,400.0	10,669.3	13,250.3	10,519.1	39.5	40.1	-80.84	2,758.2	-892.8	937.7	858.4	79.33	11.820		
13,490.0	10,669.5	13,340.3	10,519.2	39.9	40.5	-80.84	2,848.2	-893.1	937.7	857.6	80.10	11.707		
13,500.0	10,669.5	13,350.3	10,519.2	39.9	40.5	-80.84	2,858.2	-893.1	937.7	857.5	80.18	11.695		
13,585.0	10,669.6	13,435.3	10,519.4	40.3	40.9	-80.84	2,943.2	-893.4	937.7	856.8	80.92	11.588		
13,600.0	10,669.6	13,450.3	10,519.4	40.3	41.0	-80.84	2,958.2	-893.5	937.7	856.7	81.06	11.569		
13,680.0	10,669.7	13,530.3	10,519.5	40.7	41.3	-80.84	3,038.2	-893.8	937.7	856.0	81.77	11.468		
13,700.0	10,669.8	13,550.3	10,519.5	40.8	41.4	-80.84	3,058.2	-893.9	937.7	855.8	81.95	11.443		
13,775.0	10,669.9	13,625.3	10,519.6	41.1	41.8	-80.84	3,133.2	-894.1	937.7	855.1	82.63	11.349		
13,800.0	10,669.9	13,650.3	10,519.7	41.2	41.9	-80.84	3,158.2	-894.2	937.7	854.9	82.86	11.317		
13,870.0	10,670.0	13,720.3	10,519.8	41.6	42.2	-80.84	3,228.2	-894.5	937.7	854.2	83.51	11.230		
13,900.0	10,670.0	13,750.3	10,519.8	41.7	42.3	-80.84	3,258.2	-894.6	937.7	853.9	83.79	11.192		
13,965.0	10,670.1	13,815.3	10,519.9	42.0	42.6	-80.84	3,323.2	-894.8	937.7	853.3	84.40	11.111		
14,000.0	10,670.2	13,850.3	10,519.9	42.2	42.8	-80.84	3,358.2	-894.9	937.7	853.0	84.73	11.067		
14,060.0	10,670.2	13,910.3	10,520.0	42.5	43.1	-80.84	3,418.2	-895.1	937.7	852.4	85.31	10.992		
14,100.0	10,670.3	13,950.3	10,520.1	42.7	43.3	-80.84	3,458.2	-895.3	937.7	852.0	85.69	10.943		
14,155.0	10,670.4	14,005.3	10,520.1	42.9	43.5	-80.84	3,513.2	-895.5	937.7	851.5	86.23	10.875		
14,200.0	10,670.4	14,050.3	10,520.2	43.2	43.8	-80.84	3,558.2	-895.6	937.7	851.1	86.67	10.819		
14,250.0	10,670.5	14,100.3	10,520.3	43.4	44.0	-80.84	3,608.2	-895.8	937.7	850.6	87.17	10.758		
14,300.0	10,670.6	14,150.3	10,520.3	43.7	44.3	-80.84	3,658.2	-896.0	937.7	850.1	87.67	10.696		
14,345.0	10,670.6	14,195.3	10,520.4	43.9	44.5	-80.84	3,703.2	-896.1	937.7	849.6	88.12	10.642		
14,400.0	10,670.7	14,250.3	10,520.5	44.2	44.8	-80.84	3,758.2	-896.3	937.7	849.0	88.68	10.575		
14,440.0	10,670.8	14,290.3	10,520.5	44.4	45.0	-80.84	3,798.2	-896.5	937.7	848.6	89.08	10.526		
14,500.0	10,670.8	14,350.3	10,520.6	44.7	45.3	-80.84	3,858.2	-896.7	937.7	848.0	89.70	10.454		
14,535.0	10,670.9	14,385.3	10,520.7	44.9	45.4	-80.84	3,893.2	-896.8	937.7	847.7	90.06	10.412		
14,600.0	10,671.0	14,450.3	10,520.8	45.2	45.8	-80.84	3,958.2	-897.0	937.7	847.0	90.74	10.334		
14,630.0	10,671.0	14,480.3	10,520.8	45.4	45.9	-80.84	3,988.2	-897.1	937.7	846.7	91.05	10.298		

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H -												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
14,700.0	10,671.1	14,550.3	10,520.9	45.7	46.3	-80.84	4,058.2	-897.4	937.7	845.9	91.79	10.216	
14,725.0	10,671.2	14,575.3	10,520.9	45.9	46.4	-80.84	4,083.2	-897.5	937.7	845.7	92.06	10.186	
14,800.0	10,671.3	14,650.3	10,521.0	46.3	46.8	-80.84	4,158.2	-897.7	937.7	844.9	92.86	10.098	
14,820.0	10,671.3	14,670.3	10,521.1	46.4	46.9	-80.84	4,178.2	-897.8	937.7	844.6	93.07	10.075	
14,900.0	10,671.4	14,750.3	10,521.2	46.8	47.4	-80.84	4,258.2	-898.1	937.7	843.8	93.94	9.982	
14,915.0	10,671.4	14,765.3	10,521.2	46.9	47.5	-80.84	4,273.2	-898.1	937.7	843.6	94.10	9.965	
15,000.0	10,671.5	14,850.3	10,521.3	47.4	47.9	-80.84	4,358.2	-898.4	937.7	842.7	95.03	9.868	
15,010.0	10,671.5	14,860.3	10,521.3	47.4	48.0	-80.84	4,368.2	-898.5	937.7	842.6	95.14	9.856	
15,100.0	10,671.7	14,950.3	10,521.4	47.9	48.5	-80.84	4,458.2	-898.8	937.7	841.6	96.13	9.755	
15,105.0	10,671.7	14,955.3	10,521.5	48.0	48.5	-80.84	4,463.2	-898.8	937.7	841.5	96.19	9.749	
15,200.0	10,671.8	15,050.3	10,521.6	48.5	49.0	-80.84	4,558.2	-899.1	937.7	840.5	97.25	9.643	
15,295.0	10,671.9	15,145.3	10,521.7	49.0	49.5	-80.84	4,653.2	-899.5	937.7	839.4	98.31	9.538	
15,300.0	10,671.9	15,150.3	10,521.7	49.1	49.6	-80.84	4,658.2	-899.5	937.7	839.3	98.37	9.532	
15,390.0	10,672.1	15,240.3	10,521.8	49.6	50.1	-80.84	4,748.2	-899.8	937.7	838.3	99.39	9.434	
15,400.0	10,672.1	15,250.3	10,521.9	49.6	50.1	-80.84	4,758.2	-899.9	937.7	838.2	99.51	9.424	
15,485.0	10,672.2	15,335.3	10,522.0	50.1	50.6	-80.84	4,843.2	-900.2	937.7	837.2	100.48	9.332	
15,500.0	10,672.2	15,350.3	10,522.0	50.2	50.7	-80.84	4,858.2	-900.2	937.7	837.1	100.65	9.316	
15,580.0	10,672.3	15,430.3	10,522.1	50.7	51.2	-80.84	4,938.2	-900.5	937.7	836.1	101.58	9.231	
15,600.0	10,672.3	15,450.3	10,522.1	50.8	51.3	-80.84	4,958.2	-900.6	937.7	835.9	101.81	9.210	
15,675.0	10,672.4	15,525.3	10,522.2	51.2	51.7	-80.84	5,033.2	-900.8	937.7	835.0	102.69	9.132	
15,700.0	10,672.5	15,550.3	10,522.3	51.4	51.9	-80.84	5,058.2	-900.9	937.7	834.7	102.98	9.106	
15,770.0	10,672.6	15,620.3	10,522.4	51.8	52.3	-80.84	5,128.2	-901.2	937.7	833.9	103.80	9.034	
15,800.0	10,672.6	15,650.3	10,522.4	52.0	52.4	-80.84	5,158.2	-901.3	937.7	833.6	104.15	9.003	
15,865.0	10,672.7	15,715.3	10,522.5	52.3	52.8	-80.84	5,223.2	-901.5	937.7	832.8	104.92	8.937	
15,900.0	10,672.8	15,750.3	10,522.5	52.6	53.0	-80.84	5,258.2	-901.6	937.7	832.4	105.34	8.902	
15,960.0	10,672.8	15,810.3	10,522.6	52.9	53.4	-80.84	5,318.2	-901.8	937.7	831.7	106.06	8.842	
16,000.0	10,672.9	15,850.3	10,522.7	53.2	53.6	-80.84	5,358.2	-902.0	937.7	831.2	106.53	8.802	
16,055.0	10,673.0	15,905.3	10,522.8	53.5	54.0	-80.84	5,413.2	-902.2	937.7	830.5	107.19	8.748	
16,100.0	10,673.0	15,950.3	10,522.8	53.8	54.2	-80.84	5,458.2	-902.3	937.7	830.0	107.74	8.704	
16,150.0	10,673.1	16,000.3	10,522.9	54.1	54.5	-80.84	5,508.2	-902.5	937.7	829.4	108.34	8.655	
16,200.0	10,673.2	16,050.3	10,523.0	54.4	54.8	-80.84	5,558.2	-902.7	937.7	828.8	108.95	8.607	
16,245.0	10,673.2	16,095.3	10,523.0	54.6	55.1	-80.84	5,603.2	-902.8	937.7	828.2	109.49	8.564	
16,300.0	10,673.3	16,150.3	10,523.1	55.0	55.4	-80.84	5,658.2	-903.0	937.7	827.5	110.17	8.512	
16,340.0	10,673.4	16,190.3	10,523.1	55.2	55.7	-80.84	5,698.2	-903.2	937.7	827.1	110.66	8.474	
16,400.0	10,673.4	16,250.3	10,523.2	55.6	56.0	-80.84	5,758.2	-903.4	937.7	826.3	111.39	8.418	
16,435.0	10,673.5	16,285.3	10,523.3	55.8	56.3	-80.84	5,793.2	-903.5	937.7	825.9	111.82	8.386	
16,500.0	10,673.6	16,350.3	10,523.4	56.2	56.7	-80.84	5,858.2	-903.7	937.7	825.1	112.63	8.326	
16,530.0	10,673.6	16,380.3	10,523.4	56.4	56.8	-80.84	5,888.2	-903.8	937.7	824.7	113.00	8.298	
16,600.0	10,673.7	16,450.3	10,523.5	56.8	57.3	-80.84	5,958.2	-904.1	937.7	823.8	113.87	8.235	
16,625.0	10,673.7	16,475.3	10,523.5	57.0	57.4	-80.84	5,983.2	-904.2	937.7	823.5	114.18	8.213	
16,700.0	10,673.8	16,550.3	10,523.6	57.5	57.9	-80.84	6,058.2	-904.4	937.7	822.6	115.12	8.146	
16,720.0	10,673.9	16,570.3	10,523.7	57.6	58.0	-80.84	6,078.2	-904.5	937.7	822.3	115.37	8.128	
16,800.0	10,674.0	16,650.3	10,523.8	58.1	58.5	-80.84	6,158.2	-904.8	937.7	821.3	116.37	8.058	
16,815.0	10,674.0	16,665.3	10,523.8	58.2	58.6	-80.84	6,173.2	-904.8	937.7	821.2	116.56	8.045	
16,900.0	10,674.1	16,750.3	10,523.9	58.7	59.1	-80.84	6,258.2	-905.1	937.7	820.1	117.63	7.972	
16,910.0	10,674.1	16,760.3	10,523.9	58.8	59.2	-80.84	6,268.2	-905.2	937.7	820.0	117.76	7.963	
17,000.0	10,674.3	16,850.3	10,524.1	59.4	59.8	-80.84	6,358.2	-905.5	937.7	818.8	118.90	7.887	
17,005.0	10,674.3	16,855.3	10,524.1	59.4	59.8	-80.84	6,363.2	-905.5	937.7	818.7	118.96	7.882	
17,100.0	10,674.4	16,950.3	10,524.2	60.0	60.4	-80.85	6,458.2	-905.8	937.7	817.5	120.17	7.803	
17,195.0	10,674.5	17,045.3	10,524.3	60.6	61.0	-80.85	6,553.2	-906.2	937.7	816.3	121.39	7.725	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332) - GIN AND TECTONIC FEDERAL COM #503H - OWB - PWP1												Offset Site Error:	3.0 usft
Survey Program: 1-Standard Keeper 104, 930-MWD+IFR1, 10089-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)			
17,200.0	10,674.5	17,050.3	10,524.3	60.6	61.0	-80.85	6,558.2	-906.2	937.7	816.3	121.45	7.721	
17,290.0	10,674.6	17,140.3	10,524.5	61.2	61.6	-80.85	6,648.2	-906.5	937.7	815.1	122.61	7.648	
17,300.0	10,674.7	17,150.3	10,524.5	61.3	61.7	-80.85	6,658.2	-906.6	937.7	815.0	122.74	7.640	
17,385.0	10,674.8	17,235.3	10,524.6	61.8	62.2	-80.85	6,743.2	-906.9	937.7	813.9	123.83	7.572	
17,400.0	10,674.8	17,250.3	10,524.6	61.9	62.3	-80.85	6,758.2	-906.9	937.7	813.7	124.03	7.560	
17,480.0	10,674.9	17,330.3	10,524.7	62.5	62.8	-80.85	6,838.2	-907.2	937.7	812.6	125.06	7.498	
17,500.0	10,674.9	17,350.3	10,524.7	62.6	63.0	-80.85	6,858.2	-907.3	937.7	812.4	125.32	7.482	
17,575.0	10,675.0	17,425.3	10,524.8	63.1	63.5	-80.85	6,933.2	-907.5	937.7	811.4	126.30	7.424	
17,600.0	10,675.1	17,450.3	10,524.9	63.2	63.6	-80.85	6,958.2	-907.6	937.7	811.1	126.63	7.405	
17,670.0	10,675.2	17,520.3	10,525.0	63.7	64.1	-80.85	7,028.2	-907.9	937.7	810.2	127.54	7.352	
17,700.0	10,675.2	17,550.3	10,525.0	63.9	64.3	-80.85	7,058.2	-908.0	937.7	809.8	127.93	7.330	
17,765.0	10,675.3	17,615.3	10,525.1	64.3	64.7	-80.85	7,123.2	-908.2	937.7	808.9	128.78	7.281	
17,800.0	10,675.3	17,650.3	10,525.2	64.6	64.9	-80.85	7,158.2	-908.3	937.7	808.5	129.24	7.255	
17,860.0	10,675.4	17,710.3	10,525.2	65.0	65.3	-80.85	7,218.2	-908.5	937.7	807.7	130.03	7.211	
17,900.0	10,675.5	17,750.3	10,525.3	65.2	65.6	-80.85	7,258.2	-908.7	937.7	807.1	130.56	7.182	
17,955.0	10,675.6	17,805.3	10,525.4	65.6	65.9	-80.85	7,313.2	-908.9	937.7	806.4	131.29	7.142	
18,000.0	10,675.6	17,850.3	10,525.4	65.9	66.2	-80.85	7,358.2	-909.0	937.7	805.8	131.88	7.110	
18,050.0	10,675.7	17,900.3	10,525.5	66.2	66.6	-80.85	7,408.2	-909.2	937.7	805.2	132.54	7.075	
18,100.0	10,675.8	17,950.3	10,525.6	66.5	66.9	-80.85	7,458.2	-909.4	937.7	804.5	133.21	7.039	
18,145.0	10,675.8	17,995.3	10,525.6	66.8	67.2	-80.85	7,503.2	-909.5	937.7	803.9	133.80	7.008	
18,200.0	10,675.9	18,050.3	10,525.7	67.2	67.6	-80.85	7,558.2	-909.7	937.7	803.2	134.53	6.970	
18,232.8	10,675.9	18,083.0	10,525.7	67.4	67.8	-80.85	7,591.0	-909.8	937.7	802.7	134.97	6.948	
18,240.0	10,675.9	18,090.3	10,525.8	67.5	67.8	-80.85	7,598.2	-909.9	937.7	802.6	135.07	6.943	
18,268.2	10,676.0	18,118.5	10,525.8	67.7	68.0	-80.85	7,626.4	-910.0	937.7	802.3	135.44	6.923	
18,282.8	10,676.0	18,120.0	10,525.8	67.8	68.0	-80.85	7,627.9	-910.0	937.8	802.2	135.59	6.916	

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 #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 31ft + GL 3640.8ft @ 3671.8usft

Offset Depths are relative to Offset Datum

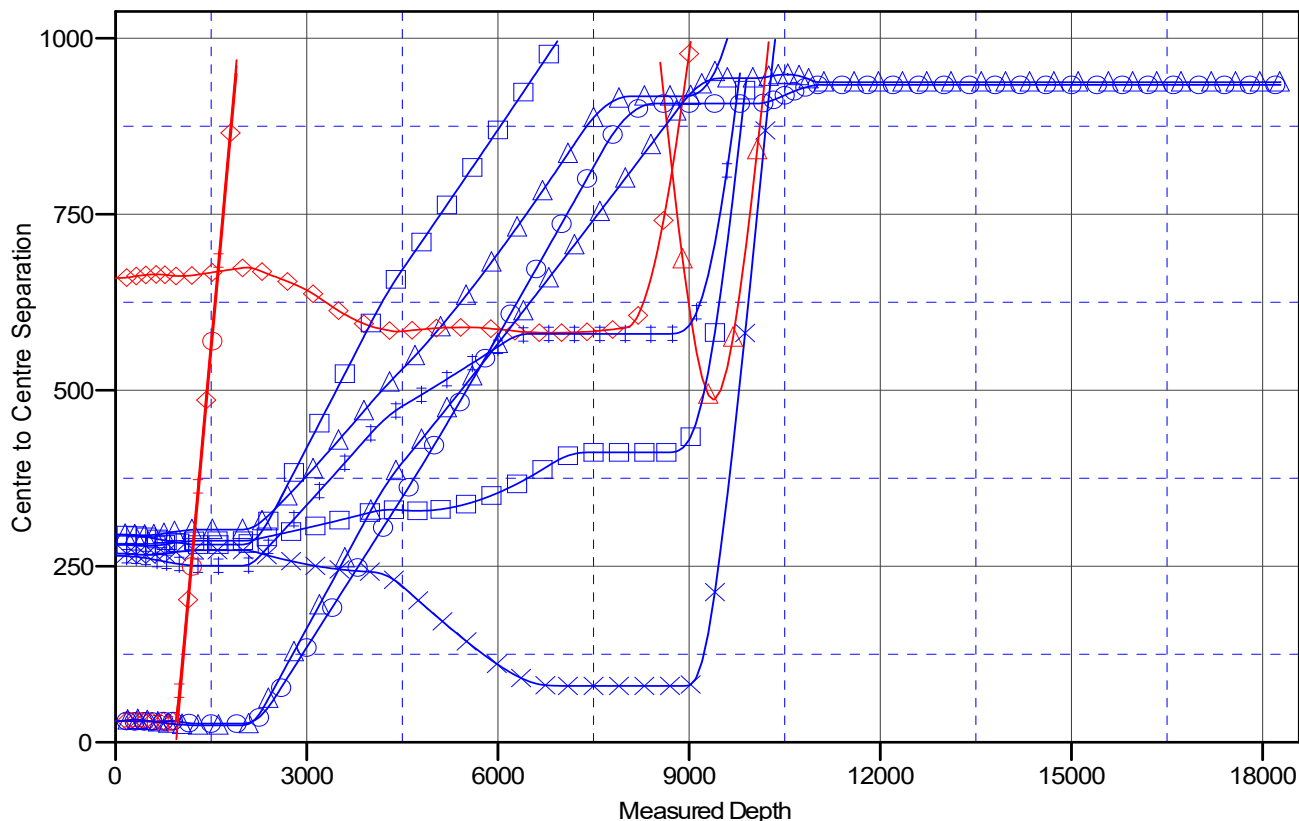
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #502H

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

Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

MESA VERDE BONE SPRING UNIT #1H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #203H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #501H, OWB, PWP1 V0
GIN AND TECTONIC FEDERAL COM #201H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #301H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #502H, OWB, AWP V0
BIMINI 8 FEDERAL COM #2H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #302H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #503H, OWB, AWP V0
GIN AND TECTONIC FEDERAL COM #202H, OWB, PWP0 V0	GIN AND TECTONIC FEDERAL COM #501H, OWB, AWP V0	GIN AND TECTONIC FEDERAL COM #503H, OWB, PWP1 V0

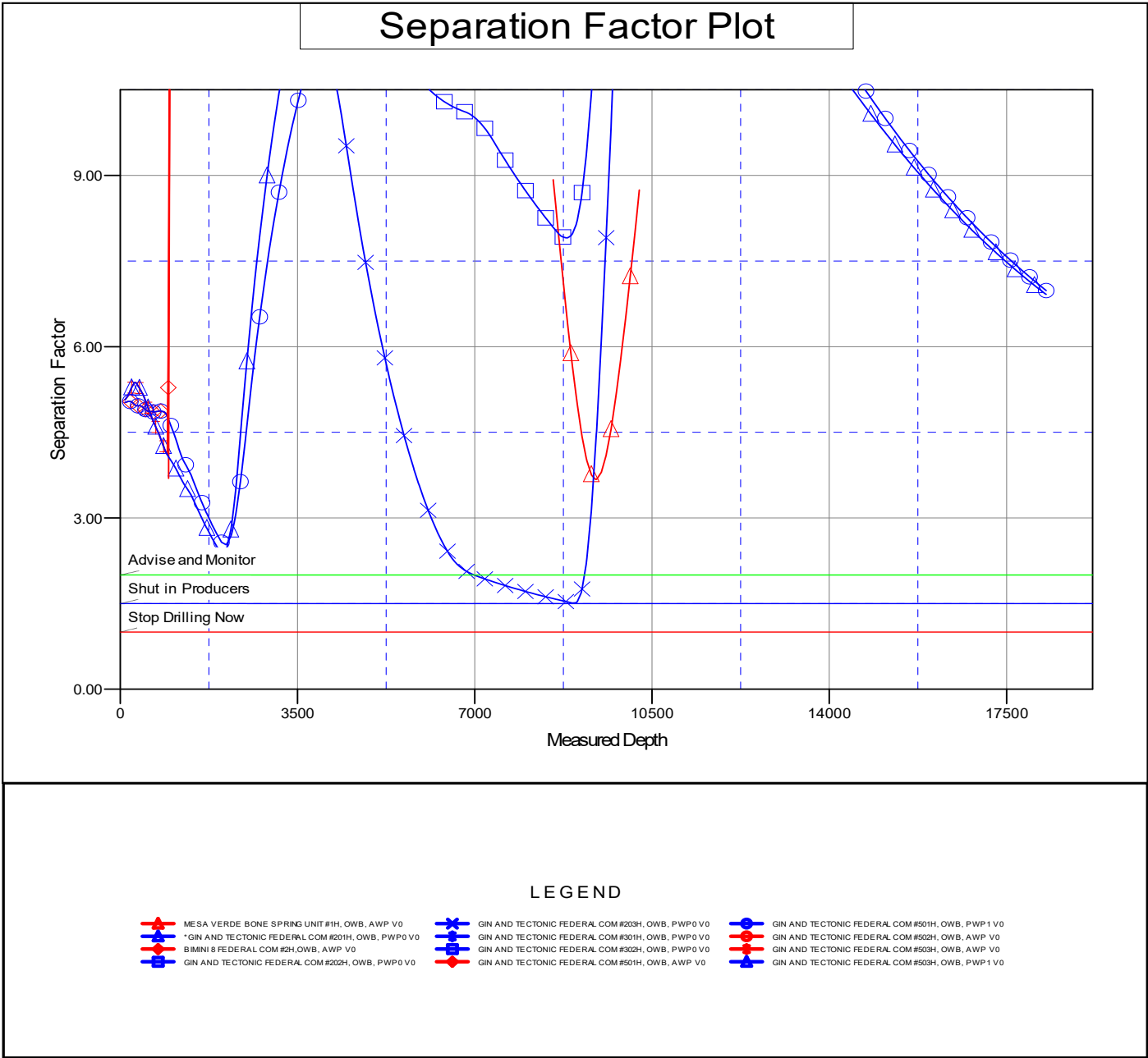
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Reference Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site Error:	3.0 usft	North Reference:	Grid
Reference Well:	GIN AND TECTONIC FEDERAL COM #502H	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:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB 31ft + GL 3640.8ft @ 3671.8usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GIN AND TECTONIC FEDERAL COM #502H
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 #502H

300254842900

OWB

Plan: PWP1

Standard Planning Report

28 July, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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		

Well	GIN AND TECTONIC FEDERAL COM #502H			
Well Position	+N/-S	278.1 usft	Northing:	451,534.90 usft
	+E/-W	4,009.7 usft	Easting:	698,321.60 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	
			Ground Level:	3,640.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/1/2022	6.51	59.87	47,587.38797517

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	950.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.12

Plan Survey Tool Program		Date 7/27/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	1.0	950.0 GYRO-SURF (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1
2	950.0	10,196.3 PWP1 (OWB)	MWD+IFR1	OWSG MWD + IFR1
3	10,196.3	18,282.8 PWP1 (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 #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	0.00	0.00	
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	0.00	0.00	0.00	0.00	
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	0.00	0.00	0.00	0.00	
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.50	-0.50	0.00	180.00	
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.00	0.00	0.00	0.00	
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	2.00	2.00	0.00	156.45	
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	0.00	0.00	0.00	0.00	
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	1.00	-1.00	0.00	180.00	
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	0.00	0.00	0.00	0.00	
10,945.7	89.92	357.97	10,666.0	307.0	43.1	12.00	12.00	0.00	357.97	
11,037.0	89.92	359.80	10,666.1	398.3	41.3	2.00	0.00	2.00	90.00	
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	0.00	0.00	0.00	0.00	
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
101.0	0.32	313.04	101.0	0.2	-0.2	0.2	0.32	0.32	0.00
126.0	0.40	296.66	126.0	0.3	-0.3	0.3	0.52	0.32	-65.52
151.0	0.38	304.29	151.0	0.4	-0.5	0.4	0.22	-0.08	30.52
176.0	0.40	313.59	176.0	0.5	-0.6	0.5	0.27	0.08	37.20
201.0	0.62	325.25	201.0	0.6	-0.8	0.6	0.97	0.88	46.64
226.0	0.56	335.14	226.0	0.9	-0.9	0.9	0.47	-0.24	39.56
251.0	0.66	340.79	251.0	1.1	-1.0	1.1	0.47	0.40	22.60
276.0	0.67	330.84	276.0	1.4	-1.1	1.4	0.46	0.04	-39.80
301.0	0.77	323.98	301.0	1.6	-1.3	1.6	0.53	0.40	-27.44
326.0	0.81	315.90	326.0	1.9	-1.5	1.9	0.47	0.16	-32.32
351.0	0.85	310.12	351.0	2.1	-1.8	2.1	0.37	0.16	-23.12
376.0	0.89	308.46	376.0	2.4	-2.0	2.4	0.19	0.16	-6.64
401.0	0.86	313.36	401.0	2.6	-2.3	2.6	0.32	-0.12	19.60
426.0	0.95	309.01	426.0	2.9	-2.6	2.9	0.45	0.36	-17.40
451.0	0.92	305.27	451.0	3.1	-3.0	3.1	0.27	-0.12	-14.96
476.0	0.95	294.24	476.0	3.3	-3.3	3.3	0.73	0.12	-44.12
501.0	0.94	295.88	501.0	3.5	-3.7	3.5	0.12	-0.04	6.56
526.0	1.07	291.93	526.0	3.7	-4.1	3.7	0.59	0.52	-15.80
551.0	1.06	286.51	551.0	3.8	-4.5	3.8	0.40	-0.04	-21.68
576.0	1.03	280.22	576.0	4.0	-5.0	3.9	0.47	-0.12	-25.16
601.0	1.03	276.94	601.0	4.0	-5.4	4.0	0.24	0.00	-13.12
626.0	0.98	268.62	625.9	4.0	-5.8	4.0	0.62	-0.20	-33.28
651.0	0.87	272.00	650.9	4.0	-6.3	4.0	0.49	-0.44	13.52
676.0	0.92	266.55	675.9	4.0	-6.6	4.0	0.39	0.20	-21.80
701.0	0.93	260.22	700.9	4.0	-7.0	4.0	0.41	0.04	-25.32
726.0	0.99	249.96	725.9	3.9	-7.4	3.9	0.73	0.24	-41.04
751.0	1.01	242.56	750.9	3.7	-7.8	3.7	0.52	0.08	-29.60
776.0	1.07	248.56	775.9	3.5	-8.3	3.5	0.50	0.24	24.00
801.0	1.16	244.55	800.9	3.3	-8.7	3.3	0.48	0.36	-16.04
826.0	1.14	236.11	825.9	3.1	-9.1	3.1	0.68	-0.08	-33.76
851.0	1.16	247.70	850.9	2.8	-9.6	2.8	0.93	0.08	46.36
876.0	1.16	239.89	875.9	2.6	-10.0	2.6	0.63	0.00	-31.24
901.0	1.08	237.52	900.9	2.4	-10.4	2.3	0.37	-0.32	-9.48
926.0	0.87	244.17	925.9	2.2	-10.8	2.1	0.95	-0.84	26.60
950.0	0.70	250.03	949.9	2.0	-11.1	2.0	0.78	-0.71	24.42
TIE INTO GYRO SURVEYS									
1,000.0	0.70	250.03	999.9	1.8	-11.7	1.8	0.00	0.00	0.00
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	1.6	0.00	0.00	0.00
SURFACE CP									
1,100.0	0.70	250.03	1,099.9	1.4	-12.8	1.4	0.00	0.00	0.00
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	1.2	0.00	0.00	0.00
RETURN TO VERTICAL									
1,200.0	0.47	250.03	1,199.9	1.0	-13.9	1.0	0.50	-0.50	0.00
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.9	0.50	-0.50	116.99
START HOLD @ 1294.0 MD									
1,300.0	0.00	0.00	1,299.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,400.0	0.00	0.00	1,399.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,500.0	0.00	0.00	1,499.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,600.0	0.00	0.00	1,599.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,700.0	0.00	0.00	1,699.9	0.9	-14.3	0.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,800.0	0.00	0.00	1,799.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,900.0	0.00	0.00	1,899.9	0.9	-14.3	0.9	0.00	0.00	0.00
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.9	0.00	0.00	0.00
START BUILD 2.00									
2,100.0	2.00	156.45	2,099.9	-0.7	-13.6	-0.7	2.00	2.00	0.00
2,200.0	4.00	156.45	2,199.7	-5.5	-11.5	-5.5	2.00	2.00	0.00
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	-9.1	2.00	2.00	0.00
START HOLD @ 2250.1 MD									
2,300.0	5.00	156.45	2,299.4	-13.1	-8.2	-13.1	0.00	0.00	0.00
2,400.0	5.00	156.45	2,399.0	-21.1	-4.7	-21.1	0.00	0.00	0.00
2,500.0	5.00	156.45	2,498.6	-29.1	-1.2	-29.1	0.00	0.00	0.00
2,600.0	5.00	156.45	2,598.2	-37.1	2.3	-37.1	0.00	0.00	0.00
2,700.0	5.00	156.45	2,697.8	-45.1	5.8	-45.0	0.00	0.00	0.00
2,800.0	5.00	156.45	2,797.5	-53.0	9.2	-53.0	0.00	0.00	0.00
2,900.0	5.00	156.45	2,897.1	-61.0	12.7	-61.0	0.00	0.00	0.00
3,000.0	5.00	156.45	2,996.7	-69.0	16.2	-69.0	0.00	0.00	0.00
3,100.0	5.00	156.45	3,096.3	-77.0	19.7	-77.0	0.00	0.00	0.00
3,200.0	5.00	156.45	3,195.9	-85.0	23.2	-85.0	0.00	0.00	0.00
3,300.0	5.00	156.45	3,295.6	-93.0	26.6	-92.9	0.00	0.00	0.00
3,400.0	5.00	156.45	3,395.2	-101.0	30.1	-100.9	0.00	0.00	0.00
3,500.0	5.00	156.45	3,494.8	-109.0	33.6	-108.9	0.00	0.00	0.00
3,600.0	5.00	156.45	3,594.4	-117.0	37.1	-116.9	0.00	0.00	0.00
3,700.0	5.00	156.45	3,694.0	-125.0	40.6	-124.9	0.00	0.00	0.00
3,800.0	5.00	156.45	3,793.7	-132.9	44.1	-132.9	0.00	0.00	0.00
3,900.0	5.00	156.45	3,893.3	-140.9	47.5	-140.8	0.00	0.00	0.00
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	-149.4	0.00	0.00	0.00
START DROP -1.00									
4,100.0	4.08	156.45	4,092.6	-156.2	54.2	-156.1	1.00	-1.00	0.00
4,200.0	3.08	156.45	4,192.4	-162.0	56.7	-161.8	1.00	-1.00	0.00
4,300.0	2.08	156.45	4,292.3	-166.1	58.5	-166.0	1.00	-1.00	0.00
4,400.0	1.08	156.45	4,392.2	-168.6	59.6	-168.5	1.00	-1.00	0.00
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	-169.4	1.00	-1.00	-145.18
START HOLD @ 4507.8 MD									
4,600.0	0.00	0.00	4,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,400.0	0.00	0.00	6,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	-169.4	0.00	0.00	0.00
START BUILD 12.00									
10,200.0	0.44	357.97	10,192.2	-169.5	60.0	-169.4	12.00	12.00	0.00
10,225.0	3.44	357.97	10,217.2	-168.7	60.0	-168.6	12.00	12.00	0.00
10,250.0	6.44	357.97	10,242.1	-166.5	59.9	-166.4	12.00	12.00	0.00
10,275.0	9.44	357.97	10,266.9	-163.1	59.8	-162.9	12.00	12.00	0.00
10,300.0	12.44	357.97	10,291.4	-158.3	59.6	-158.2	12.00	12.00	0.00
10,325.0	15.44	357.97	10,315.7	-152.3	59.4	-152.2	12.00	12.00	0.00
10,350.0	18.44	357.97	10,339.6	-145.0	59.1	-144.9	12.00	12.00	0.00
10,375.0	21.44	357.97	10,363.1	-136.5	58.8	-136.4	12.00	12.00	0.00
10,400.0	24.44	357.97	10,386.1	-126.8	58.5	-126.6	12.00	12.00	0.00
10,425.0	27.44	357.97	10,408.6	-115.8	58.1	-115.7	12.00	12.00	0.00
10,450.0	30.44	357.97	10,430.5	-103.7	57.7	-103.6	12.00	12.00	0.00
10,475.0	33.44	357.97	10,451.7	-90.5	57.2	-90.4	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	36.44	357.97	10,472.2	-76.2	56.7	-76.1	12.00	12.00	0.00
10,525.0	39.44	357.97	10,491.9	-60.9	56.1	-60.7	12.00	12.00	0.00
10,550.0	42.44	357.97	10,510.8	-44.5	55.6	-44.4	12.00	12.00	0.00
10,575.0	45.44	357.97	10,528.8	-27.2	55.0	-27.0	12.00	12.00	0.00
10,600.0	48.44	357.97	10,545.8	-8.9	54.3	-8.8	12.00	12.00	0.00
10,625.0	51.44	357.97	10,561.9	10.2	53.6	10.3	12.00	12.00	0.00
10,650.0	54.44	357.97	10,577.0	30.2	52.9	30.3	12.00	12.00	0.00
10,675.0	57.44	357.97	10,591.0	50.9	52.2	51.0	12.00	12.00	0.00
10,700.0	60.44	357.97	10,603.9	72.3	51.4	72.4	12.00	12.00	0.00
10,725.0	63.44	357.97	10,615.6	94.3	50.6	94.4	12.00	12.00	0.00
10,750.0	66.44	357.97	10,626.2	116.9	49.8	117.0	12.00	12.00	0.00
10,775.0	69.44	357.97	10,635.6	140.1	49.0	140.2	12.00	12.00	0.00
10,800.0	72.44	357.97	10,643.8	163.7	48.2	163.8	12.00	12.00	0.00
10,825.0	75.44	357.97	10,650.7	187.7	47.3	187.8	12.00	12.00	0.00
10,850.0	78.44	357.97	10,656.3	212.0	46.5	212.1	12.00	12.00	0.00
10,875.0	81.44	357.97	10,660.7	236.6	45.6	236.7	12.00	12.00	0.00
10,900.0	84.44	357.97	10,663.8	261.4	44.7	261.5	12.00	12.00	0.00
10,925.0	87.44	357.97	10,665.5	286.3	43.8	286.4	12.00	12.00	0.00
10,945.7	89.92	357.97	10,666.0	307.0	43.1	307.1	12.00	12.00	0.00
START DLS 2.00 TFO 90.00									
11,000.0	89.92	359.06	10,666.1	361.3	41.7	361.4	2.00	0.00	2.00
11,037.0	89.92	359.80	10,666.1	398.3	41.3	398.4	2.00	0.00	2.00
START HOLD @ 11037.0 MD									
11,100.0	89.92	359.80	10,666.2	461.3	41.1	461.4	0.00	0.00	0.00
11,200.0	89.92	359.80	10,666.3	561.3	40.8	561.4	0.00	0.00	0.00
11,300.0	89.92	359.80	10,666.5	661.3	40.4	661.4	0.00	0.00	0.00
11,400.0	89.92	359.80	10,666.6	761.3	40.0	761.4	0.00	0.00	0.00
11,500.0	89.92	359.80	10,666.8	861.3	39.7	861.4	0.00	0.00	0.00
11,600.0	89.92	359.80	10,666.9	961.3	39.3	961.4	0.00	0.00	0.00
11,700.0	89.92	359.80	10,667.0	1,061.3	39.0	1,061.4	0.00	0.00	0.00
11,800.0	89.92	359.80	10,667.2	1,161.3	38.6	1,161.4	0.00	0.00	0.00
11,900.0	89.92	359.80	10,667.3	1,261.3	38.3	1,261.4	0.00	0.00	0.00
12,000.0	89.92	359.80	10,667.4	1,361.3	37.9	1,361.4	0.00	0.00	0.00
12,100.0	89.92	359.80	10,667.6	1,461.3	37.6	1,461.4	0.00	0.00	0.00
12,200.0	89.92	359.80	10,667.7	1,561.3	37.2	1,561.4	0.00	0.00	0.00
12,300.0	89.92	359.80	10,667.8	1,661.3	36.9	1,661.4	0.00	0.00	0.00
12,400.0	89.92	359.80	10,668.0	1,761.3	36.5	1,761.4	0.00	0.00	0.00
12,500.0	89.92	359.80	10,668.1	1,861.3	36.2	1,861.4	0.00	0.00	0.00
12,600.0	89.92	359.80	10,668.3	1,961.3	35.8	1,961.4	0.00	0.00	0.00
12,700.0	89.92	359.80	10,668.4	2,061.3	35.5	2,061.4	0.00	0.00	0.00
12,800.0	89.92	359.80	10,668.5	2,161.3	35.1	2,161.4	0.00	0.00	0.00
12,900.0	89.92	359.80	10,668.7	2,261.3	34.7	2,261.4	0.00	0.00	0.00
13,000.0	89.92	359.80	10,668.8	2,361.3	34.4	2,361.4	0.00	0.00	0.00
13,100.0	89.92	359.80	10,668.9	2,461.3	34.0	2,461.4	0.00	0.00	0.00
13,200.0	89.92	359.80	10,669.1	2,561.3	33.7	2,561.4	0.00	0.00	0.00
13,300.0	89.92	359.80	10,669.2	2,661.3	33.3	2,661.4	0.00	0.00	0.00
13,400.0	89.92	359.80	10,669.3	2,761.3	33.0	2,761.4	0.00	0.00	0.00
13,500.0	89.92	359.80	10,669.5	2,861.3	32.6	2,861.4	0.00	0.00	0.00
13,600.0	89.92	359.80	10,669.6	2,961.3	32.3	2,961.3	0.00	0.00	0.00
13,700.0	89.92	359.80	10,669.8	3,061.3	31.9	3,061.3	0.00	0.00	0.00
13,800.0	89.92	359.80	10,669.9	3,161.3	31.6	3,161.3	0.00	0.00	0.00
13,900.0	89.92	359.80	10,670.0	3,261.3	31.2	3,261.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	89.92	359.80	10,670.2	3,361.3	30.9	3,361.3	0.00	0.00	0.00
14,100.0	89.92	359.80	10,670.3	3,461.3	30.5	3,461.3	0.00	0.00	0.00
14,200.0	89.92	359.80	10,670.4	3,561.3	30.2	3,561.3	0.00	0.00	0.00
14,300.0	89.92	359.80	10,670.6	3,661.3	29.8	3,661.3	0.00	0.00	0.00
14,400.0	89.92	359.80	10,670.7	3,761.3	29.4	3,761.3	0.00	0.00	0.00
14,500.0	89.92	359.80	10,670.8	3,861.3	29.1	3,861.3	0.00	0.00	0.00
14,600.0	89.92	359.80	10,671.0	3,961.3	28.7	3,961.3	0.00	0.00	0.00
14,700.0	89.92	359.80	10,671.1	4,061.3	28.4	4,061.3	0.00	0.00	0.00
14,800.0	89.92	359.80	10,671.3	4,161.3	28.0	4,161.3	0.00	0.00	0.00
14,900.0	89.92	359.80	10,671.4	4,261.3	27.7	4,261.3	0.00	0.00	0.00
15,000.0	89.92	359.80	10,671.5	4,361.3	27.3	4,361.3	0.00	0.00	0.00
15,100.0	89.92	359.80	10,671.7	4,461.3	27.0	4,461.3	0.00	0.00	0.00
15,200.0	89.92	359.80	10,671.8	4,561.3	26.6	4,561.3	0.00	0.00	0.00
15,300.0	89.92	359.80	10,671.9	4,661.3	26.3	4,661.3	0.00	0.00	0.00
15,400.0	89.92	359.80	10,672.1	4,761.3	25.9	4,761.3	0.00	0.00	0.00
15,500.0	89.92	359.80	10,672.2	4,861.3	25.6	4,861.3	0.00	0.00	0.00
15,600.0	89.92	359.80	10,672.3	4,961.3	25.2	4,961.3	0.00	0.00	0.00
15,700.0	89.92	359.80	10,672.5	5,061.3	24.9	5,061.3	0.00	0.00	0.00
15,800.0	89.92	359.80	10,672.6	5,161.3	24.5	5,161.3	0.00	0.00	0.00
15,900.0	89.92	359.80	10,672.8	5,261.3	24.1	5,261.3	0.00	0.00	0.00
16,000.0	89.92	359.80	10,672.9	5,361.3	23.8	5,361.3	0.00	0.00	0.00
16,100.0	89.92	359.80	10,673.0	5,461.3	23.4	5,461.3	0.00	0.00	0.00
16,200.0	89.92	359.80	10,673.2	5,561.3	23.1	5,561.3	0.00	0.00	0.00
16,300.0	89.92	359.80	10,673.3	5,661.3	22.7	5,661.3	0.00	0.00	0.00
16,400.0	89.92	359.80	10,673.4	5,761.3	22.4	5,761.3	0.00	0.00	0.00
16,500.0	89.92	359.80	10,673.6	5,861.3	22.0	5,861.3	0.00	0.00	0.00
16,600.0	89.92	359.80	10,673.7	5,961.3	21.7	5,961.3	0.00	0.00	0.00
16,700.0	89.92	359.80	10,673.8	6,061.3	21.3	6,061.3	0.00	0.00	0.00
16,800.0	89.92	359.80	10,674.0	6,161.3	21.0	6,161.3	0.00	0.00	0.00
16,900.0	89.92	359.80	10,674.1	6,261.3	20.6	6,261.3	0.00	0.00	0.00
17,000.0	89.92	359.80	10,674.3	6,361.3	20.3	6,361.3	0.00	0.00	0.00
17,100.0	89.92	359.80	10,674.4	6,461.3	19.9	6,461.3	0.00	0.00	0.00
17,200.0	89.92	359.80	10,674.5	6,561.3	19.6	6,561.3	0.00	0.00	0.00
17,300.0	89.92	359.80	10,674.7	6,661.3	19.2	6,661.3	0.00	0.00	0.00
17,400.0	89.92	359.80	10,674.8	6,761.3	18.9	6,761.3	0.00	0.00	0.00
17,500.0	89.92	359.80	10,674.9	6,861.3	18.5	6,861.3	0.00	0.00	0.00
17,600.0	89.92	359.80	10,675.1	6,961.3	18.1	6,961.3	0.00	0.00	0.00
17,700.0	89.92	359.80	10,675.2	7,061.3	17.8	7,061.3	0.00	0.00	0.00
17,800.0	89.92	359.80	10,675.3	7,161.3	17.4	7,161.3	0.00	0.00	0.00
17,900.0	89.92	359.80	10,675.5	7,261.3	17.1	7,261.3	0.00	0.00	0.00
18,000.0	89.92	359.80	10,675.6	7,361.3	16.7	7,361.3	0.00	0.00	0.00
18,100.0	89.92	359.80	10,675.8	7,461.3	16.4	7,461.3	0.00	0.00	0.00
18,200.0	89.92	359.80	10,675.9	7,561.3	16.0	7,561.3	0.00	0.00	0.00
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	7,594.0	0.00	0.00	0.00
START HOLD @ 18232.8 MD									
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	7,644.0	0.00	0.00	0.00
TD @ 18282.8 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Wellbore Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VT (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,188.5	-169.5	60.0	451,365.36	698,381.60	32° 14' 21.449 N	103° 41' 30.176 W
FTP (GIN AND TECTONIC) - plan misses target center by 163.9usft at 10600.0usft MD (10545.8 TVD, -8.9 N, 54.3 E) - Circle (radius 50.0)	0.00	0.00	10,666.0	-119.6	41.3	451,415.30	698,362.90	32° 14' 21.945 N	103° 41' 30.391 W
*LTP (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,675.9	7,594.0	15.9	459,128.93	698,337.50	32° 15' 38.278 N	103° 41' 30.149 W
*PBHL (GIN AND TECTONIC) - plan hits target center - Rectangle (sides W100.0 H7,766.6 D20.0)	0.08	359.80	10,676.0	7,644.0	15.7	459,178.93	698,337.29	32° 15' 38.773 N	103° 41' 30.149 W

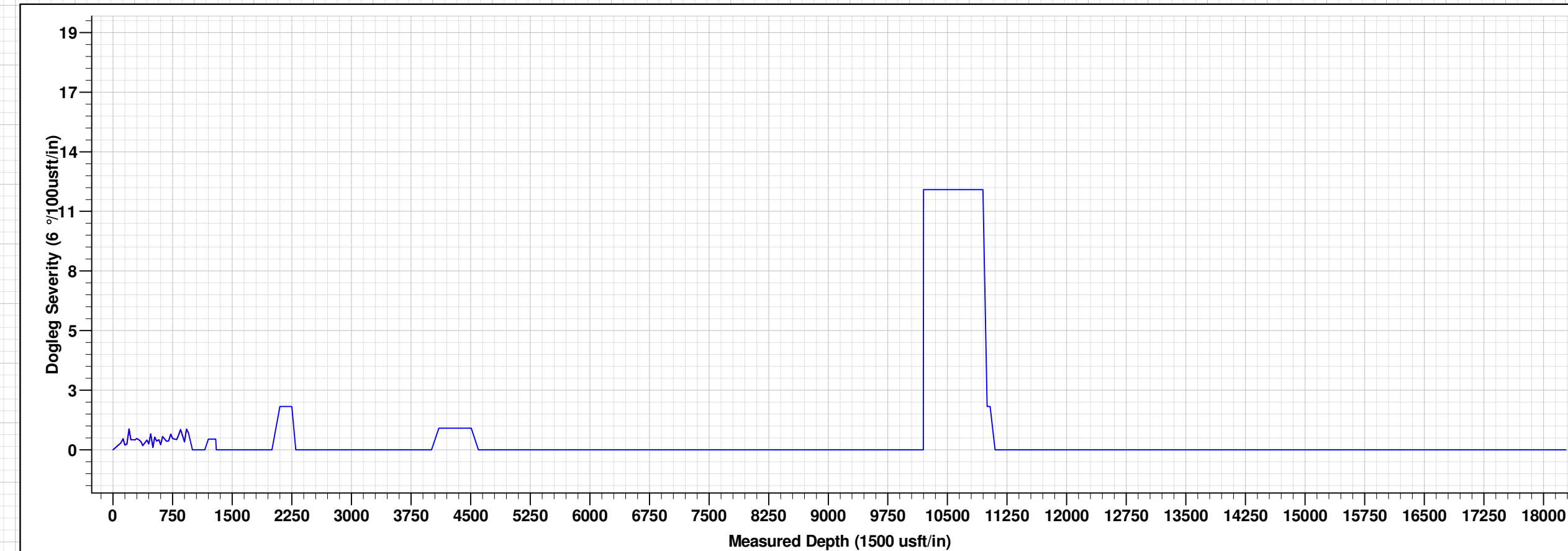
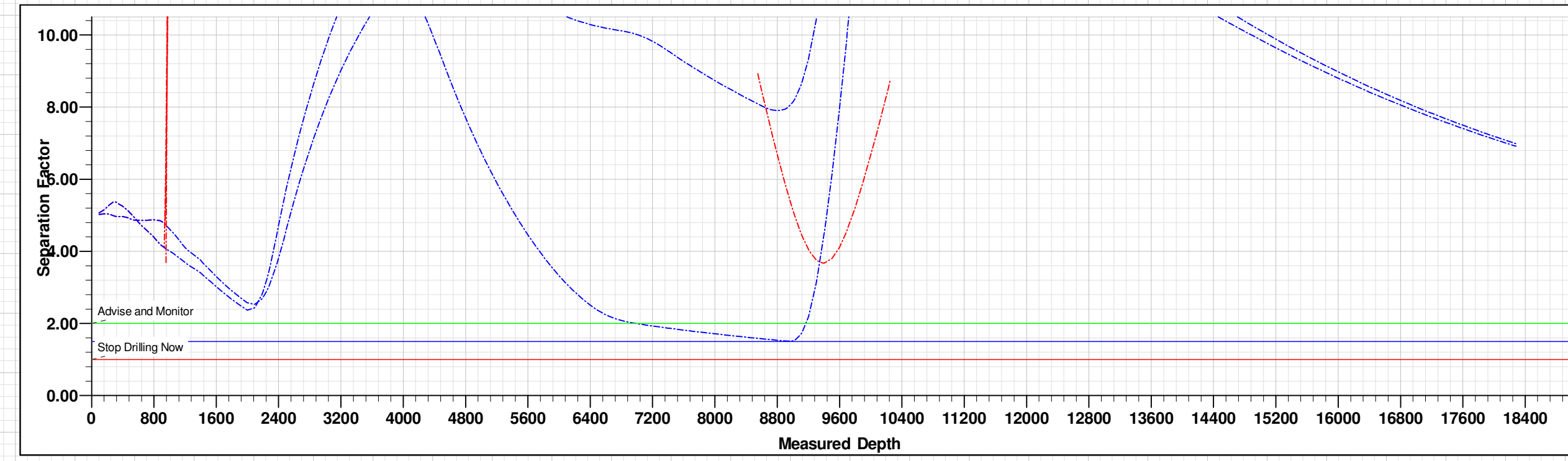
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
950.0	949.9	2.0	-11.1	TIE INTO GYRO SURVEYS
1,054.0	1,053.9	1.6	-12.3	SURFACE CP
1,154.0	1,153.9	1.2	-13.5	RETURN TO VERTICAL
1,294.0	1,293.9	0.9	-14.3	START HOLD @ 1294.0 MD
2,000.1	2,000.0	0.9	-14.3	START BUILD 2.00
2,250.1	2,249.7	-9.1	-9.9	START HOLD @ 2250.1 MD
4,007.7	4,000.6	-149.5	51.3	START DROP -1.00
4,507.8	4,500.0	-169.5	60.0	START HOLD @ 4507.8 MD
10,196.3	10,188.5	-169.5	60.0	START BUILD 12.00
10,945.7	10,666.0	307.0	43.1	START DLS 2.00 TFO 90.00
11,037.0	10,666.1	398.3	41.3	START HOLD @ 11037.0 MD
18,232.8	10,675.9	7,594.0	15.9	START HOLD @ 18232.8 MD
18,282.8	10,676.0	7,644.0	15.7	TD @ 18282.8 MD



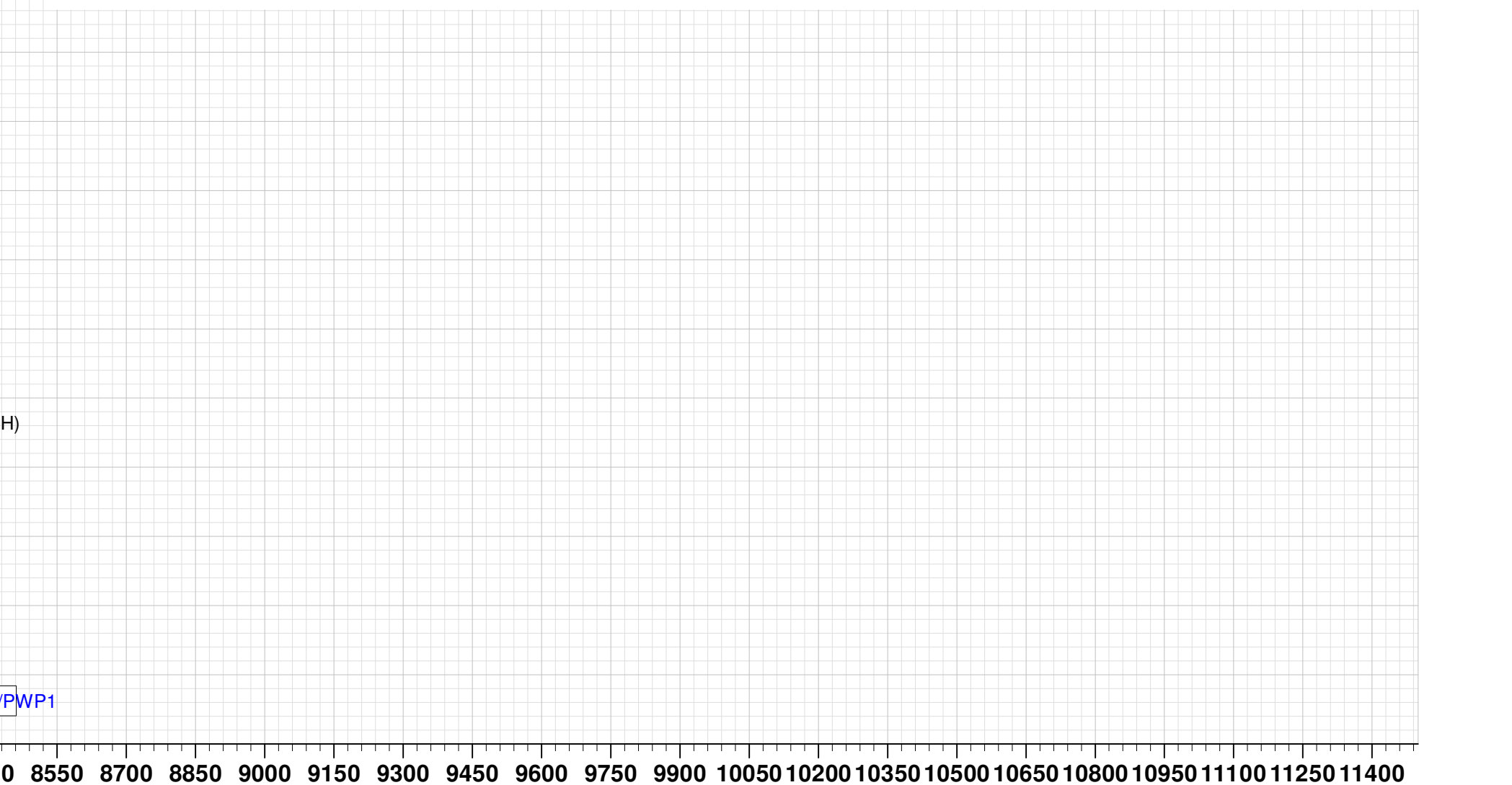
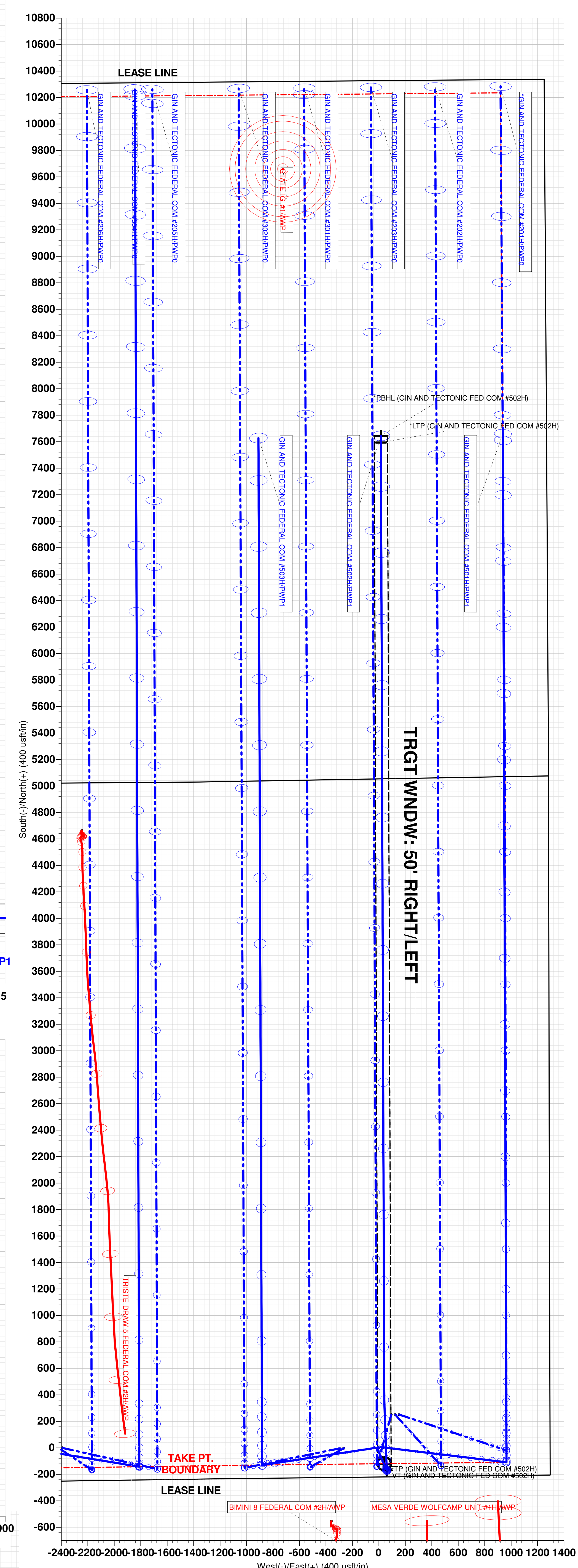
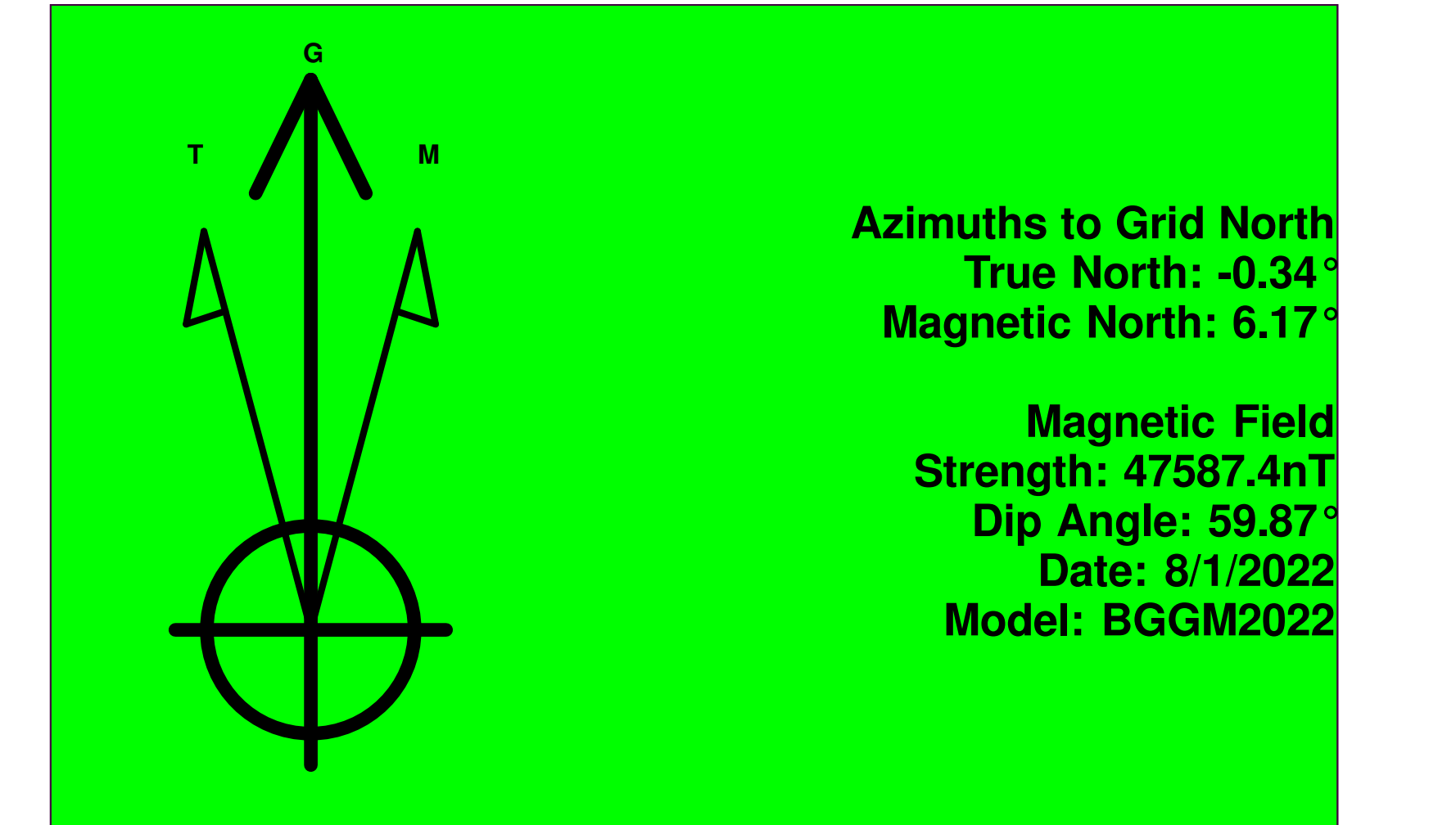
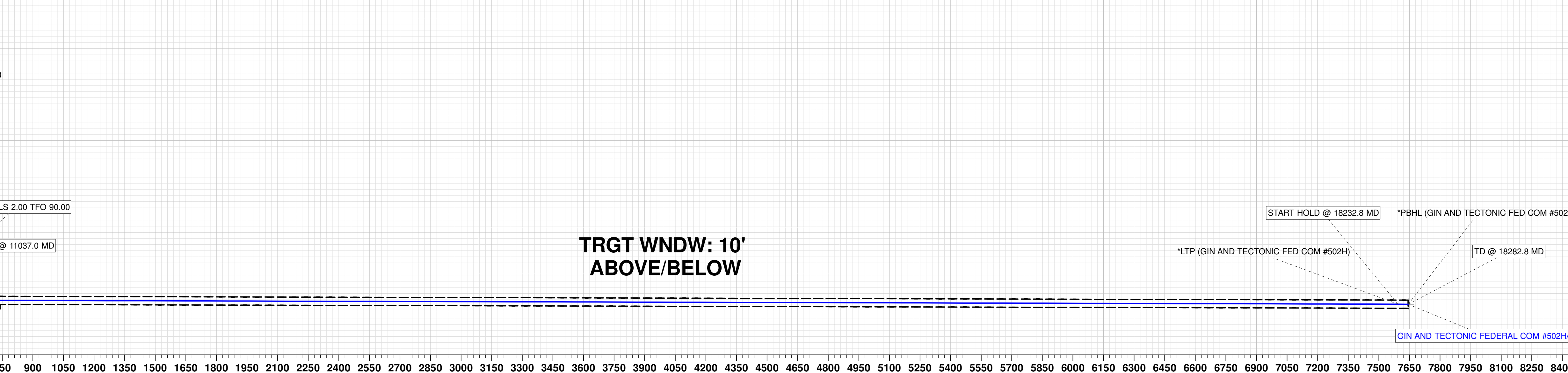
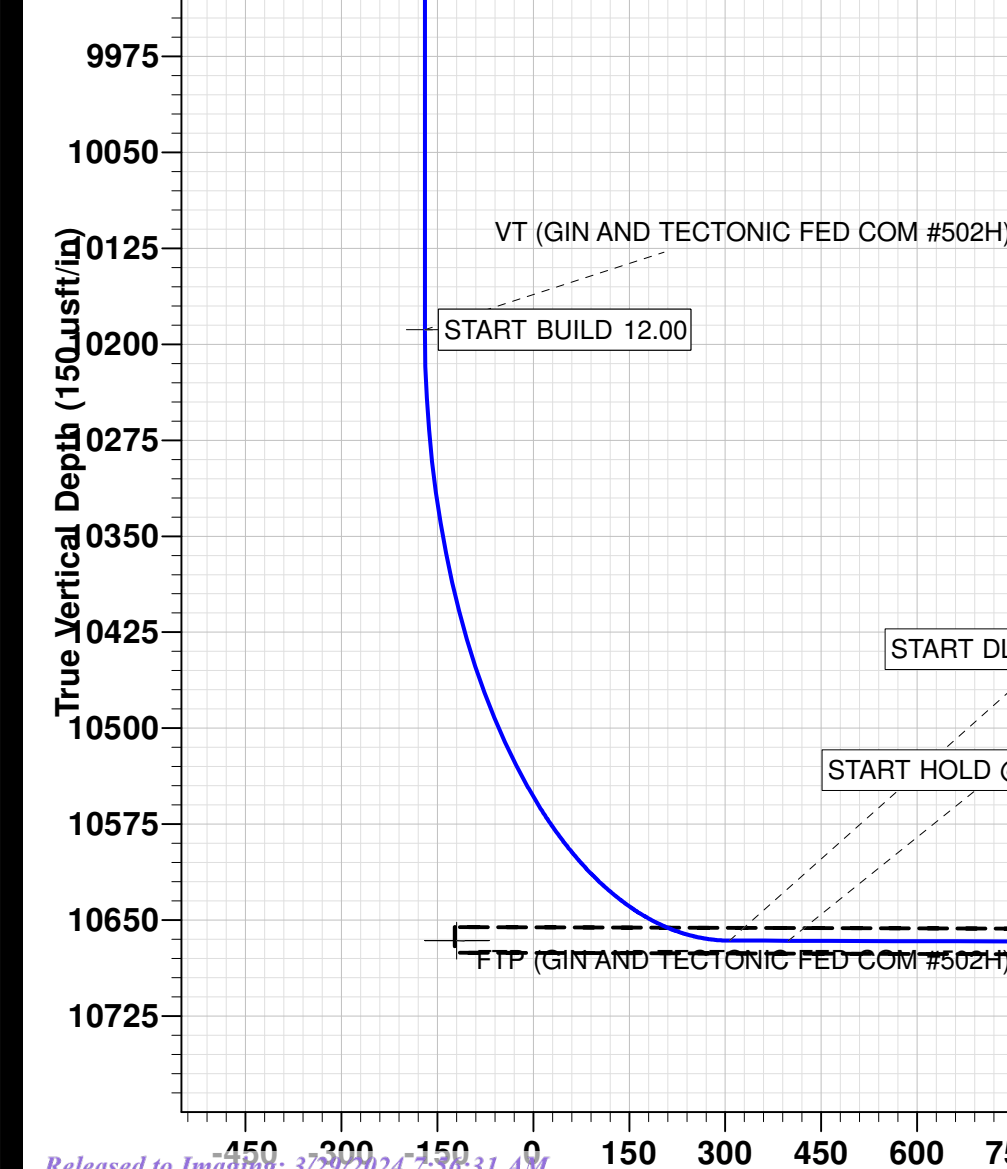
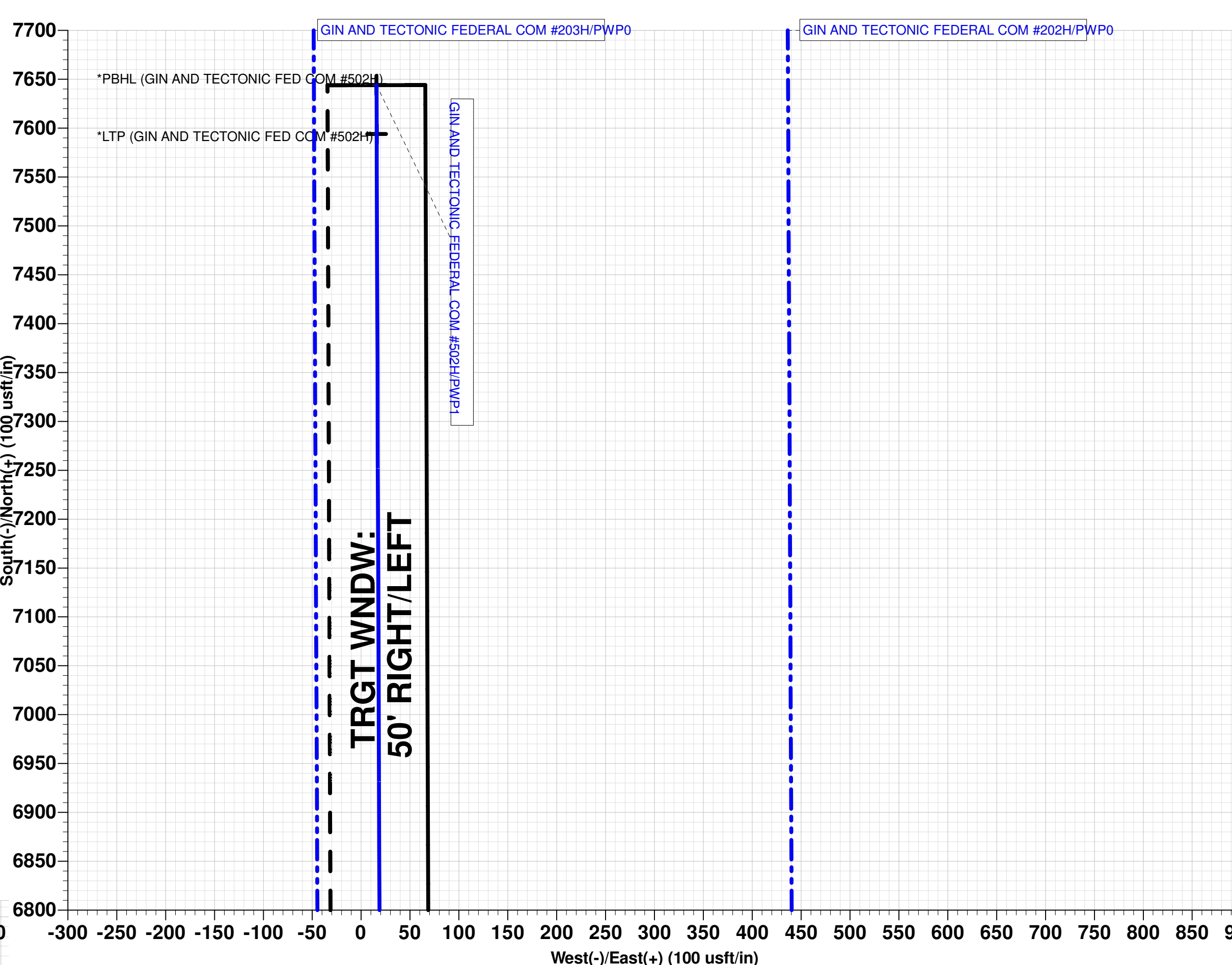
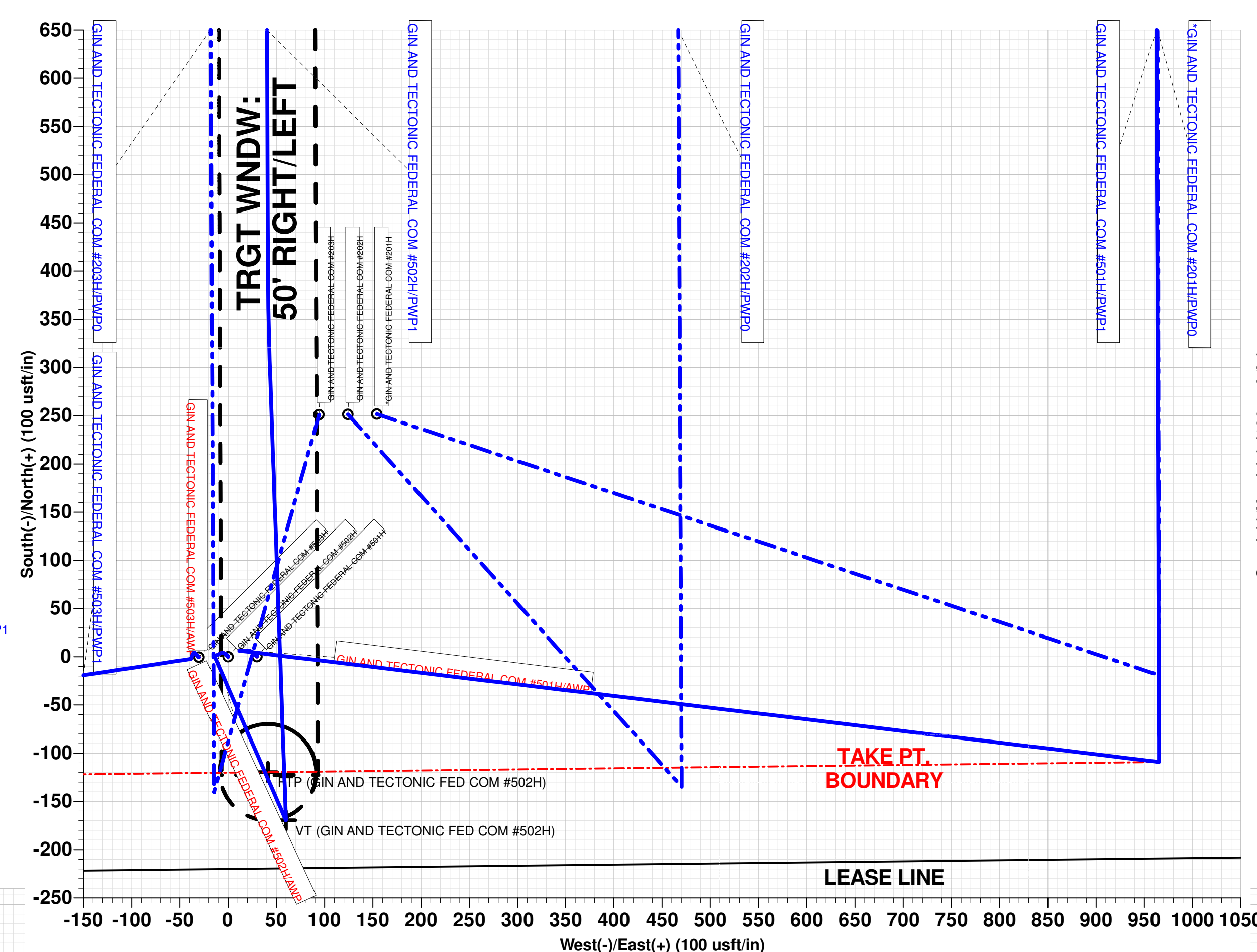
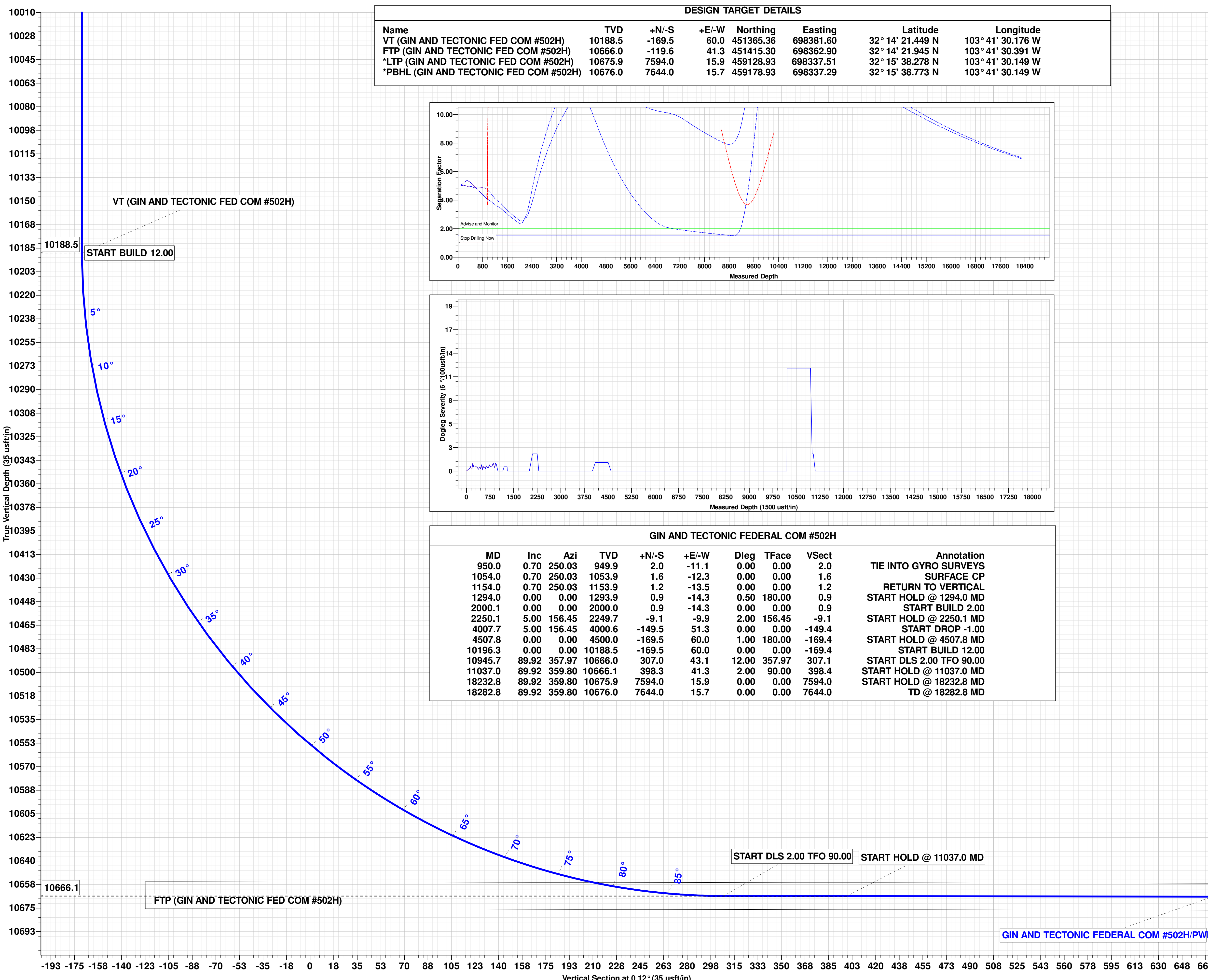
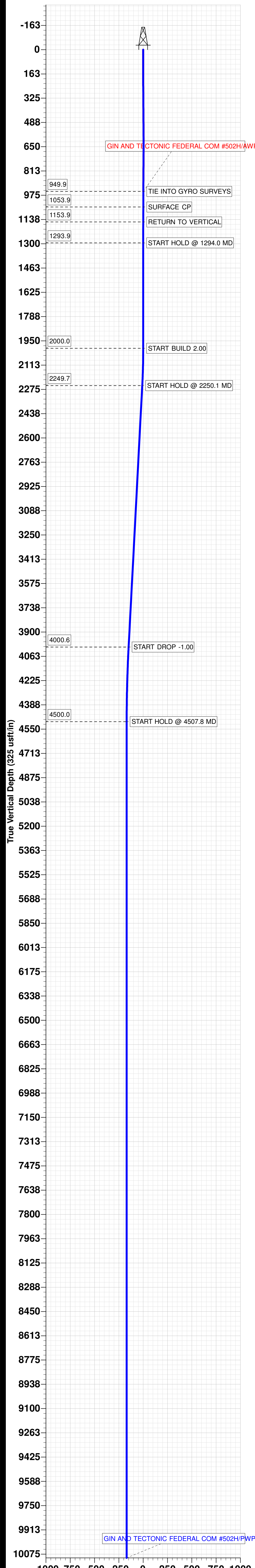
Project: BULLDOG PROSPECT (NM-E)
Site: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)
Well: GIN AND TECTONIC FEDERAL COM #502H
Wellbore: OWB
Design: PWP1
GL: 3640.8
RKB 31ft + GL 3640.8ft @ 3671.8usft

WELL DETAILS: GIN AND TECTONIC FEDERAL COM #502H				
+N-S	+E-W	North	Easting	Latitude
0.0	0.0	451534.90	698321.60	32° 14' 23.131 N
				103° 41' 30.863 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	North	Easting	Latitude
VT (GIN AND TECTONIC FED COM #502H)	10188.5	-169.5	60.0	451365.36	698381.60	32° 14' 21.449 N
FTP (GIN AND TECTONIC FED COM #502H)	10666.0	-119.6	41.3	451415.30	698362.90	32° 14' 21.945 N
*LTP (GIN AND TECTONIC FED COM #502H)	10675.9	7594.0	15.9	459128.93	698337.51	32° 15' 38.278 N
*PBHL (GIN AND TECTONIC FED COM #502H)	10676.0	7644.0	15.7	459178.93	698337.29	32° 15' 38.773 N



GIN AND TECTONIC FEDERAL COM #502H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Annotation
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	2.0	TIE INTO GYRO SURVEYS
1054.0	0.70	250.03	1053.9	1.6	-12.3	0.00	0.00	1.6	SURFACE CP
1154.0	0.70	250.03	1153.9	1.2	-13.5	0.00	0.00	1.2	RETURN TO VERTICAL
1294.0	0.00	0.00	1293.9	0.9	-14.3	0.50	180.00	0.9	START HOLD @ 1294.0 MD
2000.1	0.00	0.00	2000.0	0.9	-14.3	0.00	0.00	0.9	START BUILD 2.00
2250.1	5.00	156.45	2249.7	-9.1	-9.9	2.00	156.45	-9.1	START HOLD @ 2250.1 MD
4007.7	5.00	156.45	4006.6	-149.5	51.3	0.00	0.00	-149.4	START DROP -1.00
4507.8	0.00	0.00	4500.0	-169.5	60.0	1.00	180.00	-169.4	START HOLD @ 4507.8 MD
10196.3	0.00	0.00	10188.5	-169.5	60.0	0.00	0.00	-169.4	START BUILD 12.00
10945.7	89.92	357.97	10666.0	307.0	43.1	12.00	357.97	307.1	START DLS 2.00 TFO 90.00
11037.0	89.92	359.80	10666.1	398.3	41.3	2.00	90.00	398.4	START HOLD @ 11037.0 MD
18232.8	89.92	359.80	10675.9	7594.0	15.9	0.00	0.00	7594.0	START HOLD @ 18232.8 MD
18282.8	89.92	359.80	10676.0	7644.0	15.7	0.00	0.00	7644.0	TD @ 18282.8 MD



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
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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 30-025-48429	Pool Code 96229	Pool Name Mesa Verde; Bone Spring
Property Code 329961	Property Name GIN AND TECTONIC FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3640.8'

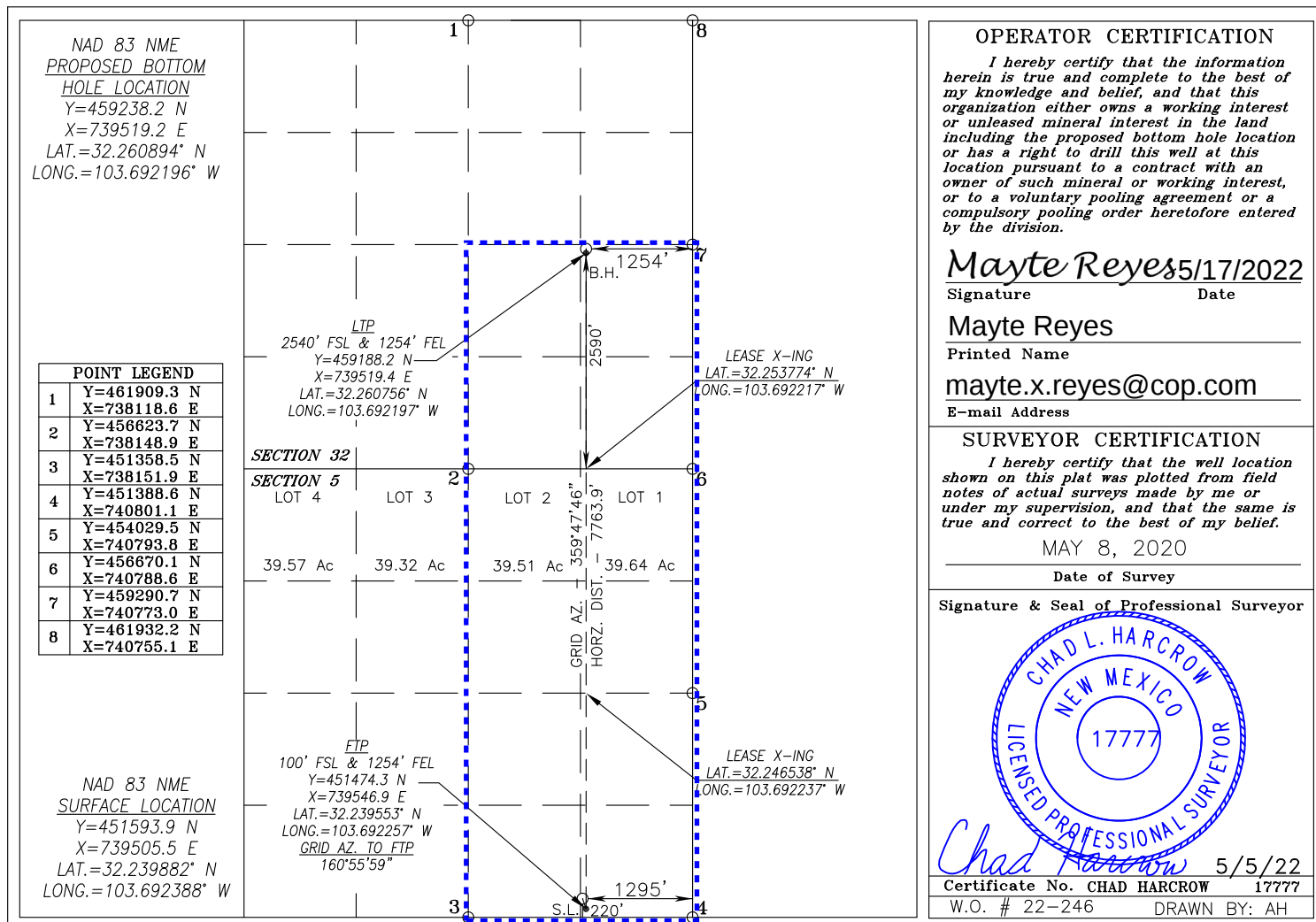
Surface Location

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	1295	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	1254	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



DELAWARE BASIN EAST

BULLDOG PROSPECT (NM-E)

GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)

GIN AND TECTONIC FEDERAL COM #502H

300254842900

OWB

Plan: PWP1

Standard Planning Report

28 July, 2022

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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		

Well	GIN AND TECTONIC FEDERAL COM #502H			
Well Position	+N/-S	278.1 usft	Northing:	451,534.90 usft
	+E/-W	4,009.7 usft	Easting:	698,321.60 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	
			Ground Level:	3,640.8 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/1/2022	6.51	59.87	47,587.38797517

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	950.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.12

Plan Survey Tool Program		Date 7/27/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	1.0	950.0 GYRO-SURF (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1
2	950.0	10,196.3 PWP1 (OWB)	MWD+IFR1	OWSG MWD + IFR1
3	10,196.3	18,282.8 PWP1 (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 #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	0.00	0.00	
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	0.00	0.00	0.00	0.00	
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	0.00	0.00	0.00	0.00	
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.50	-0.50	0.00	180.00	
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.00	0.00	0.00	0.00	
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	2.00	2.00	0.00	156.45	
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	0.00	0.00	0.00	0.00	
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	1.00	-1.00	0.00	180.00	
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	0.00	0.00	0.00	0.00	
10,945.7	89.92	357.97	10,666.0	307.0	43.1	12.00	12.00	0.00	357.97	
11,037.0	89.92	359.80	10,666.1	398.3	41.3	2.00	0.00	2.00	90.00	
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	0.00	0.00	0.00	0.00	
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
101.0	0.32	313.04	101.0	0.2	-0.2	0.2	0.32	0.32	0.00	
126.0	0.40	296.66	126.0	0.3	-0.3	0.3	0.52	0.32	-65.52	
151.0	0.38	304.29	151.0	0.4	-0.5	0.4	0.22	-0.08	30.52	
176.0	0.40	313.59	176.0	0.5	-0.6	0.5	0.27	0.08	37.20	
201.0	0.62	325.25	201.0	0.6	-0.8	0.6	0.97	0.88	46.64	
226.0	0.56	335.14	226.0	0.9	-0.9	0.9	0.47	-0.24	39.56	
251.0	0.66	340.79	251.0	1.1	-1.0	1.1	0.47	0.40	22.60	
276.0	0.67	330.84	276.0	1.4	-1.1	1.4	0.46	0.04	-39.80	
301.0	0.77	323.98	301.0	1.6	-1.3	1.6	0.53	0.40	-27.44	
326.0	0.81	315.90	326.0	1.9	-1.5	1.9	0.47	0.16	-32.32	
351.0	0.85	310.12	351.0	2.1	-1.8	2.1	0.37	0.16	-23.12	
376.0	0.89	308.46	376.0	2.4	-2.0	2.4	0.19	0.16	-6.64	
401.0	0.86	313.36	401.0	2.6	-2.3	2.6	0.32	-0.12	19.60	
426.0	0.95	309.01	426.0	2.9	-2.6	2.9	0.45	0.36	-17.40	
451.0	0.92	305.27	451.0	3.1	-3.0	3.1	0.27	-0.12	-14.96	
476.0	0.95	294.24	476.0	3.3	-3.3	3.3	0.73	0.12	-44.12	
501.0	0.94	295.88	501.0	3.5	-3.7	3.5	0.12	-0.04	6.56	
526.0	1.07	291.93	526.0	3.7	-4.1	3.7	0.59	0.52	-15.80	
551.0	1.06	286.51	551.0	3.8	-4.5	3.8	0.40	-0.04	-21.68	
576.0	1.03	280.22	576.0	4.0	-5.0	3.9	0.47	-0.12	-25.16	
601.0	1.03	276.94	601.0	4.0	-5.4	4.0	0.24	0.00	-13.12	
626.0	0.98	268.62	625.9	4.0	-5.8	4.0	0.62	-0.20	-33.28	
651.0	0.87	272.00	650.9	4.0	-6.3	4.0	0.49	-0.44	13.52	
676.0	0.92	266.55	675.9	4.0	-6.6	4.0	0.39	0.20	-21.80	
701.0	0.93	260.22	700.9	4.0	-7.0	4.0	0.41	0.04	-25.32	
726.0	0.99	249.96	725.9	3.9	-7.4	3.9	0.73	0.24	-41.04	
751.0	1.01	242.56	750.9	3.7	-7.8	3.7	0.52	0.08	-29.60	
776.0	1.07	248.56	775.9	3.5	-8.3	3.5	0.50	0.24	24.00	
801.0	1.16	244.55	800.9	3.3	-8.7	3.3	0.48	0.36	-16.04	
826.0	1.14	236.11	825.9	3.1	-9.1	3.1	0.68	-0.08	-33.76	
851.0	1.16	247.70	850.9	2.8	-9.6	2.8	0.93	0.08	46.36	
876.0	1.16	239.89	875.9	2.6	-10.0	2.6	0.63	0.00	-31.24	
901.0	1.08	237.52	900.9	2.4	-10.4	2.3	0.37	-0.32	-9.48	
926.0	0.87	244.17	925.9	2.2	-10.8	2.1	0.95	-0.84	26.60	
950.0	0.70	250.03	949.9	2.0	-11.1	2.0	0.78	-0.71	24.42	
TIE INTO GYRO SURVEYS										
1,000.0	0.70	250.03	999.9	1.8	-11.7	1.8	0.00	0.00	0.00	
1,054.0	0.70	250.03	1,053.9	1.6	-12.3	1.6	0.00	0.00	0.00	
SURFACE CP										
1,100.0	0.70	250.03	1,099.9	1.4	-12.8	1.4	0.00	0.00	0.00	
1,154.0	0.70	250.03	1,153.9	1.2	-13.5	1.2	0.00	0.00	0.00	
RETURN TO VERTICAL										
1,200.0	0.47	250.03	1,199.9	1.0	-13.9	1.0	0.50	-0.50	0.00	
1,294.0	0.00	0.00	1,293.9	0.9	-14.3	0.9	0.50	-0.50	116.99	
START HOLD @ 1294.0 MD										
1,300.0	0.00	0.00	1,299.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,399.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,499.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,599.9	0.9	-14.3	0.9	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,699.9	0.9	-14.3	0.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,800.0	0.00	0.00	1,799.9	0.9	-14.3	0.9	0.00	0.00	0.00
1,900.0	0.00	0.00	1,899.9	0.9	-14.3	0.9	0.00	0.00	0.00
2,000.1	0.00	0.00	2,000.0	0.9	-14.3	0.9	0.00	0.00	0.00
START BUILD 2.00									
2,100.0	2.00	156.45	2,099.9	-0.7	-13.6	-0.7	2.00	2.00	0.00
2,200.0	4.00	156.45	2,199.7	-5.5	-11.5	-5.5	2.00	2.00	0.00
2,250.1	5.00	156.45	2,249.7	-9.1	-9.9	-9.1	2.00	2.00	0.00
START HOLD @ 2250.1 MD									
2,300.0	5.00	156.45	2,299.4	-13.1	-8.2	-13.1	0.00	0.00	0.00
2,400.0	5.00	156.45	2,399.0	-21.1	-4.7	-21.1	0.00	0.00	0.00
2,500.0	5.00	156.45	2,498.6	-29.1	-1.2	-29.1	0.00	0.00	0.00
2,600.0	5.00	156.45	2,598.2	-37.1	2.3	-37.1	0.00	0.00	0.00
2,700.0	5.00	156.45	2,697.8	-45.1	5.8	-45.0	0.00	0.00	0.00
2,800.0	5.00	156.45	2,797.5	-53.0	9.2	-53.0	0.00	0.00	0.00
2,900.0	5.00	156.45	2,897.1	-61.0	12.7	-61.0	0.00	0.00	0.00
3,000.0	5.00	156.45	2,996.7	-69.0	16.2	-69.0	0.00	0.00	0.00
3,100.0	5.00	156.45	3,096.3	-77.0	19.7	-77.0	0.00	0.00	0.00
3,200.0	5.00	156.45	3,195.9	-85.0	23.2	-85.0	0.00	0.00	0.00
3,300.0	5.00	156.45	3,295.6	-93.0	26.6	-92.9	0.00	0.00	0.00
3,400.0	5.00	156.45	3,395.2	-101.0	30.1	-100.9	0.00	0.00	0.00
3,500.0	5.00	156.45	3,494.8	-109.0	33.6	-108.9	0.00	0.00	0.00
3,600.0	5.00	156.45	3,594.4	-117.0	37.1	-116.9	0.00	0.00	0.00
3,700.0	5.00	156.45	3,694.0	-125.0	40.6	-124.9	0.00	0.00	0.00
3,800.0	5.00	156.45	3,793.7	-132.9	44.1	-132.9	0.00	0.00	0.00
3,900.0	5.00	156.45	3,893.3	-140.9	47.5	-140.8	0.00	0.00	0.00
4,007.7	5.00	156.45	4,000.6	-149.5	51.3	-149.4	0.00	0.00	0.00
START DROP -1.00									
4,100.0	4.08	156.45	4,092.6	-156.2	54.2	-156.1	1.00	-1.00	0.00
4,200.0	3.08	156.45	4,192.4	-162.0	56.7	-161.8	1.00	-1.00	0.00
4,300.0	2.08	156.45	4,292.3	-166.1	58.5	-166.0	1.00	-1.00	0.00
4,400.0	1.08	156.45	4,392.2	-168.6	59.6	-168.5	1.00	-1.00	0.00
4,507.8	0.00	0.00	4,500.0	-169.5	60.0	-169.4	1.00	-1.00	-145.18
START HOLD @ 4507.8 MD									
4,600.0	0.00	0.00	4,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,100.0	0.00	0.00	5,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,200.0	0.00	0.00	5,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,300.0	0.00	0.00	5,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,300.0	0.00	0.00	6,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,400.0	0.00	0.00	6,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,600.0	0.00	0.00	7,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,700.0	0.00	0.00	7,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,800.0	0.00	0.00	7,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
7,900.0	0.00	0.00	7,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,000.0	0.00	0.00	7,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,100.0	0.00	0.00	8,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,200.0	0.00	0.00	8,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,300.0	0.00	0.00	8,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,400.0	0.00	0.00	8,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,500.0	0.00	0.00	8,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,600.0	0.00	0.00	8,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,700.0	0.00	0.00	8,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,800.0	0.00	0.00	8,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
8,900.0	0.00	0.00	8,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,000.0	0.00	0.00	8,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,100.0	0.00	0.00	9,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,400.0	0.00	0.00	9,392.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.2	-169.5	60.0	-169.4	0.00	0.00	0.00
9,900.0	0.00	0.00	9,892.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.2	-169.5	60.0	-169.4	0.00	0.00	0.00
10,196.3	0.00	0.00	10,188.5	-169.5	60.0	-169.4	0.00	0.00	0.00
START BUILD 12.00									
10,200.0	0.44	357.97	10,192.2	-169.5	60.0	-169.4	12.00	12.00	0.00
10,225.0	3.44	357.97	10,217.2	-168.7	60.0	-168.6	12.00	12.00	0.00
10,250.0	6.44	357.97	10,242.1	-166.5	59.9	-166.4	12.00	12.00	0.00
10,275.0	9.44	357.97	10,266.9	-163.1	59.8	-162.9	12.00	12.00	0.00
10,300.0	12.44	357.97	10,291.4	-158.3	59.6	-158.2	12.00	12.00	0.00
10,325.0	15.44	357.97	10,315.7	-152.3	59.4	-152.2	12.00	12.00	0.00
10,350.0	18.44	357.97	10,339.6	-145.0	59.1	-144.9	12.00	12.00	0.00
10,375.0	21.44	357.97	10,363.1	-136.5	58.8	-136.4	12.00	12.00	0.00
10,400.0	24.44	357.97	10,386.1	-126.8	58.5	-126.6	12.00	12.00	0.00
10,425.0	27.44	357.97	10,408.6	-115.8	58.1	-115.7	12.00	12.00	0.00
10,450.0	30.44	357.97	10,430.5	-103.7	57.7	-103.6	12.00	12.00	0.00
10,475.0	33.44	357.97	10,451.7	-90.5	57.2	-90.4	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	36.44	357.97	10,472.2	-76.2	56.7	-76.1	12.00	12.00	0.00
10,525.0	39.44	357.97	10,491.9	-60.9	56.1	-60.7	12.00	12.00	0.00
10,550.0	42.44	357.97	10,510.8	-44.5	55.6	-44.4	12.00	12.00	0.00
10,575.0	45.44	357.97	10,528.8	-27.2	55.0	-27.0	12.00	12.00	0.00
10,600.0	48.44	357.97	10,545.8	-8.9	54.3	-8.8	12.00	12.00	0.00
10,625.0	51.44	357.97	10,561.9	10.2	53.6	10.3	12.00	12.00	0.00
10,650.0	54.44	357.97	10,577.0	30.2	52.9	30.3	12.00	12.00	0.00
10,675.0	57.44	357.97	10,591.0	50.9	52.2	51.0	12.00	12.00	0.00
10,700.0	60.44	357.97	10,603.9	72.3	51.4	72.4	12.00	12.00	0.00
10,725.0	63.44	357.97	10,615.6	94.3	50.6	94.4	12.00	12.00	0.00
10,750.0	66.44	357.97	10,626.2	116.9	49.8	117.0	12.00	12.00	0.00
10,775.0	69.44	357.97	10,635.6	140.1	49.0	140.2	12.00	12.00	0.00
10,800.0	72.44	357.97	10,643.8	163.7	48.2	163.8	12.00	12.00	0.00
10,825.0	75.44	357.97	10,650.7	187.7	47.3	187.8	12.00	12.00	0.00
10,850.0	78.44	357.97	10,656.3	212.0	46.5	212.1	12.00	12.00	0.00
10,875.0	81.44	357.97	10,660.7	236.6	45.6	236.7	12.00	12.00	0.00
10,900.0	84.44	357.97	10,663.8	261.4	44.7	261.5	12.00	12.00	0.00
10,925.0	87.44	357.97	10,665.5	286.3	43.8	286.4	12.00	12.00	0.00
10,945.7	89.92	357.97	10,666.0	307.0	43.1	307.1	12.00	12.00	0.00
START DLS 2.00 TFO 90.00									
11,000.0	89.92	359.06	10,666.1	361.3	41.7	361.4	2.00	0.00	2.00
11,037.0	89.92	359.80	10,666.1	398.3	41.3	398.4	2.00	0.00	2.00
START HOLD @ 11037.0 MD									
11,100.0	89.92	359.80	10,666.2	461.3	41.1	461.4	0.00	0.00	0.00
11,200.0	89.92	359.80	10,666.3	561.3	40.8	561.4	0.00	0.00	0.00
11,300.0	89.92	359.80	10,666.5	661.3	40.4	661.4	0.00	0.00	0.00
11,400.0	89.92	359.80	10,666.6	761.3	40.0	761.4	0.00	0.00	0.00
11,500.0	89.92	359.80	10,666.8	861.3	39.7	861.4	0.00	0.00	0.00
11,600.0	89.92	359.80	10,666.9	961.3	39.3	961.4	0.00	0.00	0.00
11,700.0	89.92	359.80	10,667.0	1,061.3	39.0	1,061.4	0.00	0.00	0.00
11,800.0	89.92	359.80	10,667.2	1,161.3	38.6	1,161.4	0.00	0.00	0.00
11,900.0	89.92	359.80	10,667.3	1,261.3	38.3	1,261.4	0.00	0.00	0.00
12,000.0	89.92	359.80	10,667.4	1,361.3	37.9	1,361.4	0.00	0.00	0.00
12,100.0	89.92	359.80	10,667.6	1,461.3	37.6	1,461.4	0.00	0.00	0.00
12,200.0	89.92	359.80	10,667.7	1,561.3	37.2	1,561.4	0.00	0.00	0.00
12,300.0	89.92	359.80	10,667.8	1,661.3	36.9	1,661.4	0.00	0.00	0.00
12,400.0	89.92	359.80	10,668.0	1,761.3	36.5	1,761.4	0.00	0.00	0.00
12,500.0	89.92	359.80	10,668.1	1,861.3	36.2	1,861.4	0.00	0.00	0.00
12,600.0	89.92	359.80	10,668.3	1,961.3	35.8	1,961.4	0.00	0.00	0.00
12,700.0	89.92	359.80	10,668.4	2,061.3	35.5	2,061.4	0.00	0.00	0.00
12,800.0	89.92	359.80	10,668.5	2,161.3	35.1	2,161.4	0.00	0.00	0.00
12,900.0	89.92	359.80	10,668.7	2,261.3	34.7	2,261.4	0.00	0.00	0.00
13,000.0	89.92	359.80	10,668.8	2,361.3	34.4	2,361.4	0.00	0.00	0.00
13,100.0	89.92	359.80	10,668.9	2,461.3	34.0	2,461.4	0.00	0.00	0.00
13,200.0	89.92	359.80	10,669.1	2,561.3	33.7	2,561.4	0.00	0.00	0.00
13,300.0	89.92	359.80	10,669.2	2,661.3	33.3	2,661.4	0.00	0.00	0.00
13,400.0	89.92	359.80	10,669.3	2,761.3	33.0	2,761.4	0.00	0.00	0.00
13,500.0	89.92	359.80	10,669.5	2,861.3	32.6	2,861.4	0.00	0.00	0.00
13,600.0	89.92	359.80	10,669.6	2,961.3	32.3	2,961.3	0.00	0.00	0.00
13,700.0	89.92	359.80	10,669.8	3,061.3	31.9	3,061.3	0.00	0.00	0.00
13,800.0	89.92	359.80	10,669.9	3,161.3	31.6	3,161.3	0.00	0.00	0.00
13,900.0	89.92	359.80	10,670.0	3,261.3	31.2	3,261.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	89.92	359.80	10,670.2	3,361.3	30.9	3,361.3	0.00	0.00	0.00
14,100.0	89.92	359.80	10,670.3	3,461.3	30.5	3,461.3	0.00	0.00	0.00
14,200.0	89.92	359.80	10,670.4	3,561.3	30.2	3,561.3	0.00	0.00	0.00
14,300.0	89.92	359.80	10,670.6	3,661.3	29.8	3,661.3	0.00	0.00	0.00
14,400.0	89.92	359.80	10,670.7	3,761.3	29.4	3,761.3	0.00	0.00	0.00
14,500.0	89.92	359.80	10,670.8	3,861.3	29.1	3,861.3	0.00	0.00	0.00
14,600.0	89.92	359.80	10,671.0	3,961.3	28.7	3,961.3	0.00	0.00	0.00
14,700.0	89.92	359.80	10,671.1	4,061.3	28.4	4,061.3	0.00	0.00	0.00
14,800.0	89.92	359.80	10,671.3	4,161.3	28.0	4,161.3	0.00	0.00	0.00
14,900.0	89.92	359.80	10,671.4	4,261.3	27.7	4,261.3	0.00	0.00	0.00
15,000.0	89.92	359.80	10,671.5	4,361.3	27.3	4,361.3	0.00	0.00	0.00
15,100.0	89.92	359.80	10,671.7	4,461.3	27.0	4,461.3	0.00	0.00	0.00
15,200.0	89.92	359.80	10,671.8	4,561.3	26.6	4,561.3	0.00	0.00	0.00
15,300.0	89.92	359.80	10,671.9	4,661.3	26.3	4,661.3	0.00	0.00	0.00
15,400.0	89.92	359.80	10,672.1	4,761.3	25.9	4,761.3	0.00	0.00	0.00
15,500.0	89.92	359.80	10,672.2	4,861.3	25.6	4,861.3	0.00	0.00	0.00
15,600.0	89.92	359.80	10,672.3	4,961.3	25.2	4,961.3	0.00	0.00	0.00
15,700.0	89.92	359.80	10,672.5	5,061.3	24.9	5,061.3	0.00	0.00	0.00
15,800.0	89.92	359.80	10,672.6	5,161.3	24.5	5,161.3	0.00	0.00	0.00
15,900.0	89.92	359.80	10,672.8	5,261.3	24.1	5,261.3	0.00	0.00	0.00
16,000.0	89.92	359.80	10,672.9	5,361.3	23.8	5,361.3	0.00	0.00	0.00
16,100.0	89.92	359.80	10,673.0	5,461.3	23.4	5,461.3	0.00	0.00	0.00
16,200.0	89.92	359.80	10,673.2	5,561.3	23.1	5,561.3	0.00	0.00	0.00
16,300.0	89.92	359.80	10,673.3	5,661.3	22.7	5,661.3	0.00	0.00	0.00
16,400.0	89.92	359.80	10,673.4	5,761.3	22.4	5,761.3	0.00	0.00	0.00
16,500.0	89.92	359.80	10,673.6	5,861.3	22.0	5,861.3	0.00	0.00	0.00
16,600.0	89.92	359.80	10,673.7	5,961.3	21.7	5,961.3	0.00	0.00	0.00
16,700.0	89.92	359.80	10,673.8	6,061.3	21.3	6,061.3	0.00	0.00	0.00
16,800.0	89.92	359.80	10,674.0	6,161.3	21.0	6,161.3	0.00	0.00	0.00
16,900.0	89.92	359.80	10,674.1	6,261.3	20.6	6,261.3	0.00	0.00	0.00
17,000.0	89.92	359.80	10,674.3	6,361.3	20.3	6,361.3	0.00	0.00	0.00
17,100.0	89.92	359.80	10,674.4	6,461.3	19.9	6,461.3	0.00	0.00	0.00
17,200.0	89.92	359.80	10,674.5	6,561.3	19.6	6,561.3	0.00	0.00	0.00
17,300.0	89.92	359.80	10,674.7	6,661.3	19.2	6,661.3	0.00	0.00	0.00
17,400.0	89.92	359.80	10,674.8	6,761.3	18.9	6,761.3	0.00	0.00	0.00
17,500.0	89.92	359.80	10,674.9	6,861.3	18.5	6,861.3	0.00	0.00	0.00
17,600.0	89.92	359.80	10,675.1	6,961.3	18.1	6,961.3	0.00	0.00	0.00
17,700.0	89.92	359.80	10,675.2	7,061.3	17.8	7,061.3	0.00	0.00	0.00
17,800.0	89.92	359.80	10,675.3	7,161.3	17.4	7,161.3	0.00	0.00	0.00
17,900.0	89.92	359.80	10,675.5	7,261.3	17.1	7,261.3	0.00	0.00	0.00
18,000.0	89.92	359.80	10,675.6	7,361.3	16.7	7,361.3	0.00	0.00	0.00
18,100.0	89.92	359.80	10,675.8	7,461.3	16.4	7,461.3	0.00	0.00	0.00
18,200.0	89.92	359.80	10,675.9	7,561.3	16.0	7,561.3	0.00	0.00	0.00
18,232.8	89.92	359.80	10,675.9	7,594.0	15.9	7,594.0	0.00	0.00	0.00
START HOLD @ 18232.8 MD									
18,282.8	89.92	359.80	10,676.0	7,644.0	15.7	7,644.0	0.00	0.00	0.00
TD @ 18282.8 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well GIN AND TECTONIC FEDERAL COM #502H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	RKB 31ft + GL 3640.8ft @ 3671.8usft
Site:	GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)	North Reference:	Grid
Well:	GIN AND TECTONIC FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Wellbore Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VT (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,188.5	-169.5	60.0	451,365.36	698,381.60	32° 14' 21.449 N	103° 41' 30.176 W
FTP (GIN AND TECTONIC) - plan misses target center by 163.9usft at 10600.0usft MD (10545.8 TVD, -8.9 N, 54.3 E) - Circle (radius 50.0)	0.00	0.00	10,666.0	-119.6	41.3	451,415.30	698,362.90	32° 14' 21.945 N	103° 41' 30.391 W
*LTP (GIN AND TECTONIC) - plan hits target center - Point	0.00	0.00	10,675.9	7,594.0	15.9	459,128.93	698,337.50	32° 15' 38.278 N	103° 41' 30.149 W
*PBHL (GIN AND TECTONIC) - plan hits target center - Rectangle (sides W100.0 H7,766.6 D20.0)	0.08	359.80	10,676.0	7,644.0	15.7	459,178.93	698,337.29	32° 15' 38.773 N	103° 41' 30.149 W

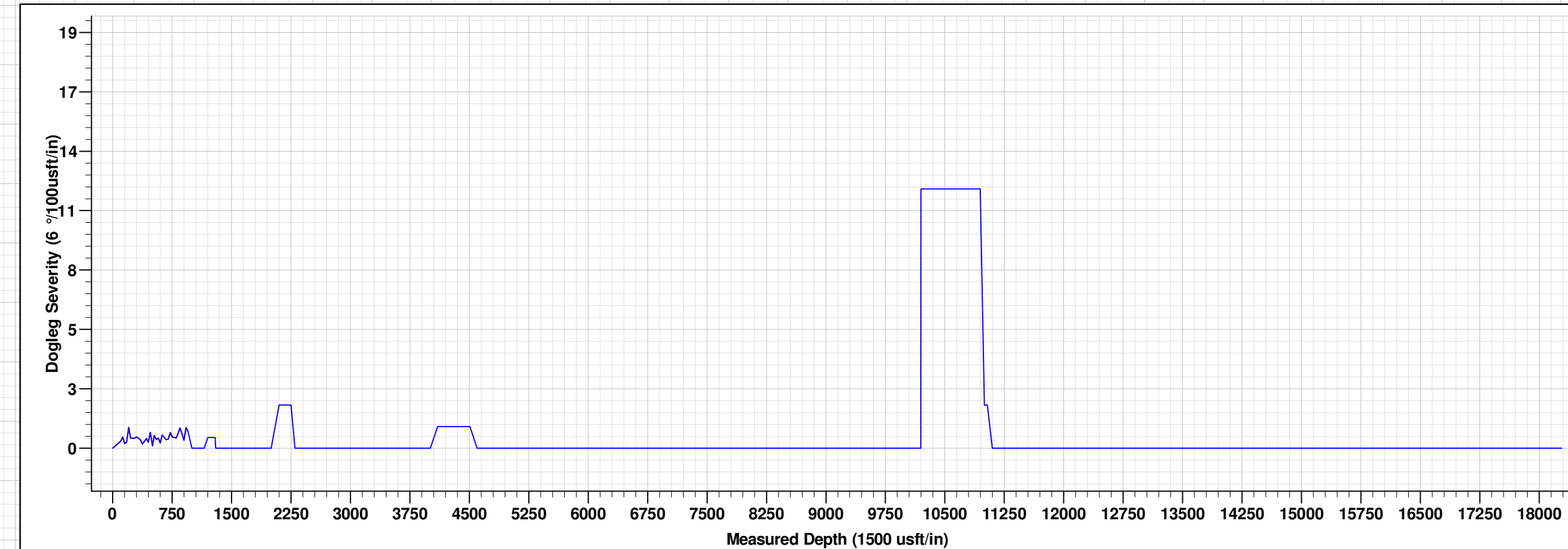
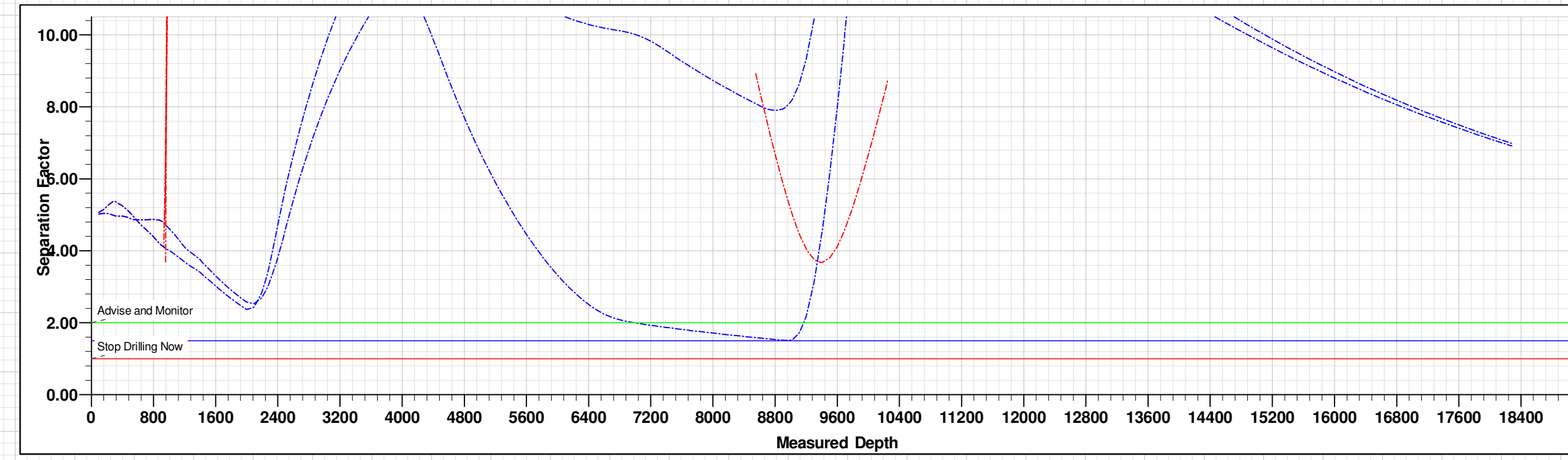
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
950.0	949.9	2.0	-11.1	TIE INTO GYRO SURVEYS
1,054.0	1,053.9	1.6	-12.3	SURFACE CP
1,154.0	1,153.9	1.2	-13.5	RETURN TO VERTICAL
1,294.0	1,293.9	0.9	-14.3	START HOLD @ 1294.0 MD
2,000.1	2,000.0	0.9	-14.3	START BUILD 2.00
2,250.1	2,249.7	-9.1	-9.9	START HOLD @ 2250.1 MD
4,007.7	4,000.6	-149.5	51.3	START DROP -1.00
4,507.8	4,500.0	-169.5	60.0	START HOLD @ 4507.8 MD
10,196.3	10,188.5	-169.5	60.0	START BUILD 12.00
10,945.7	10,666.0	307.0	43.1	START DLS 2.00 TFO 90.00
11,037.0	10,666.1	398.3	41.3	START HOLD @ 11037.0 MD
18,232.8	10,675.9	7,594.0	15.9	START HOLD @ 18232.8 MD
18,282.8	10,676.0	7,644.0	15.7	TD @ 18282.8 MD



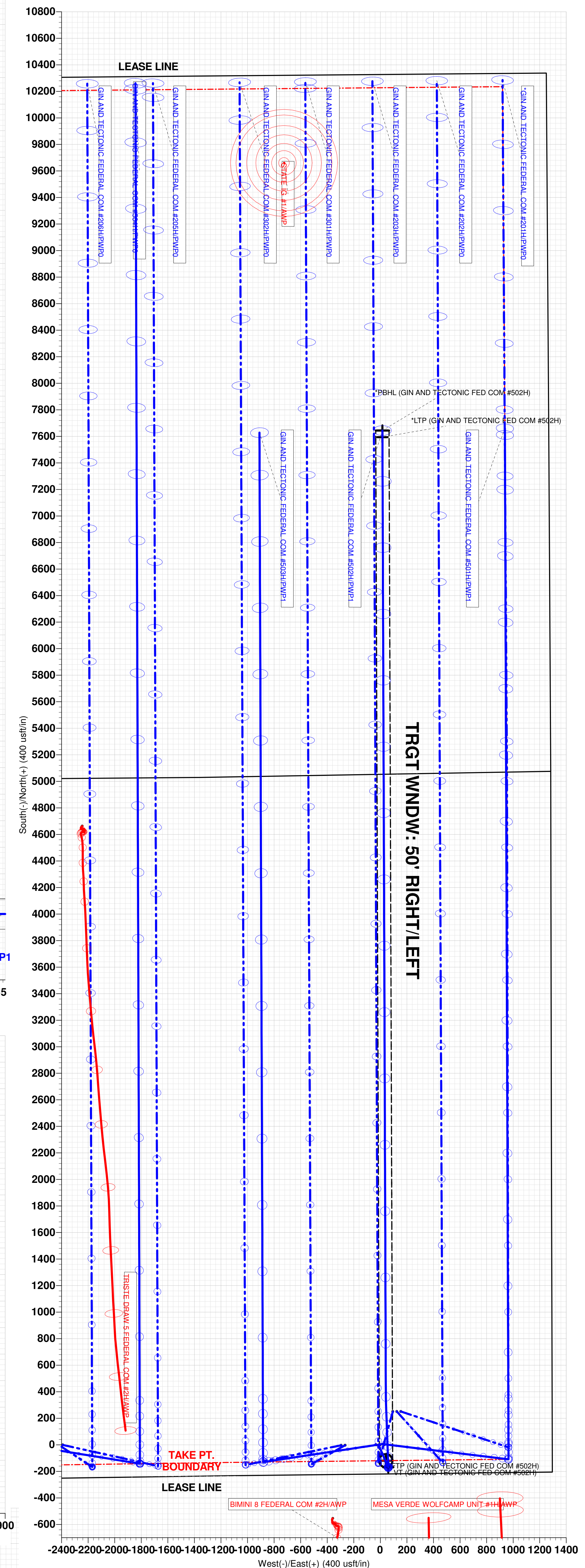
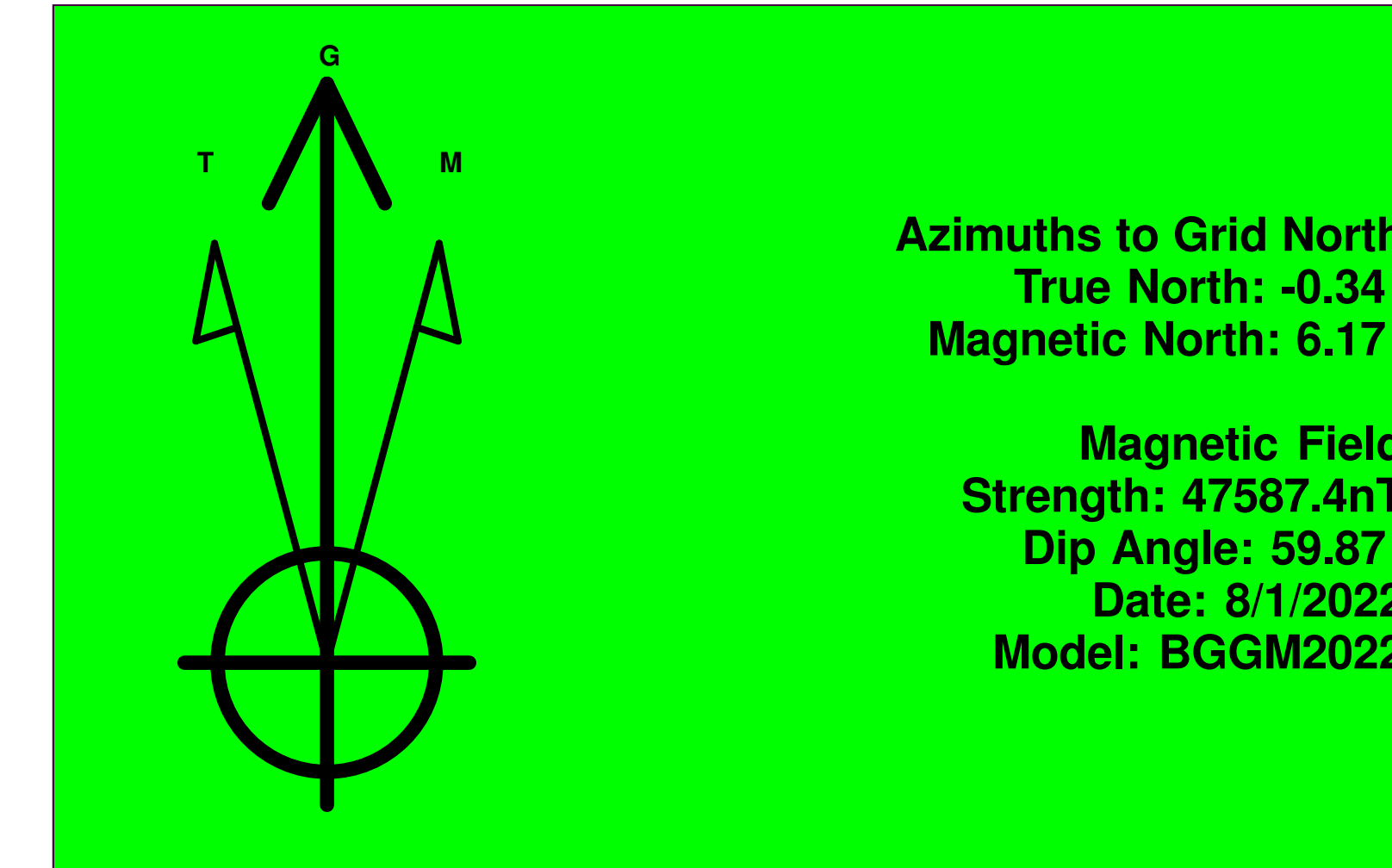
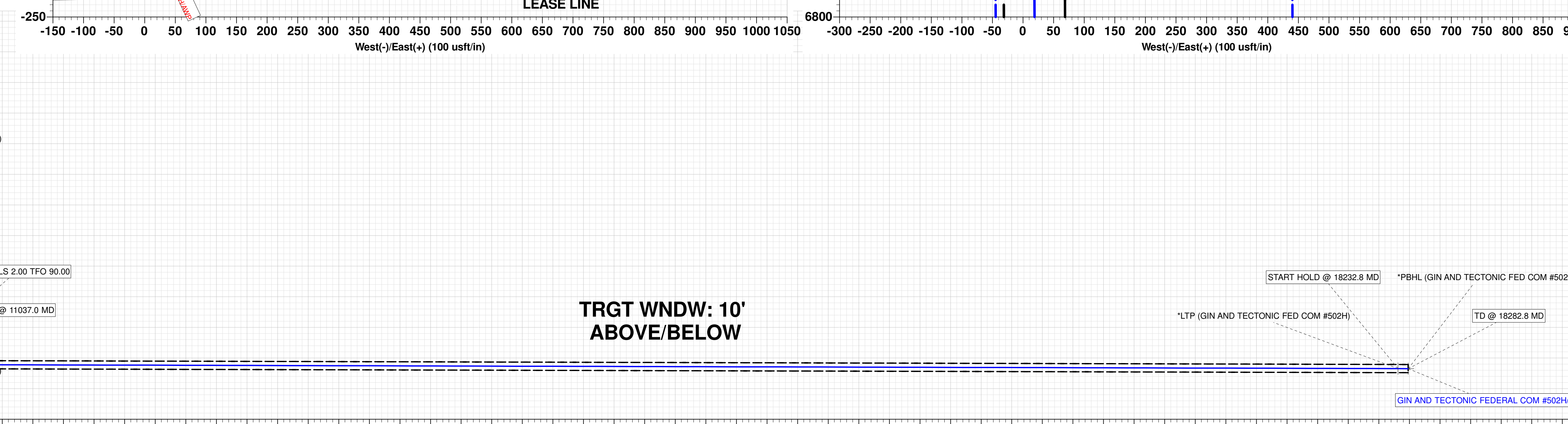
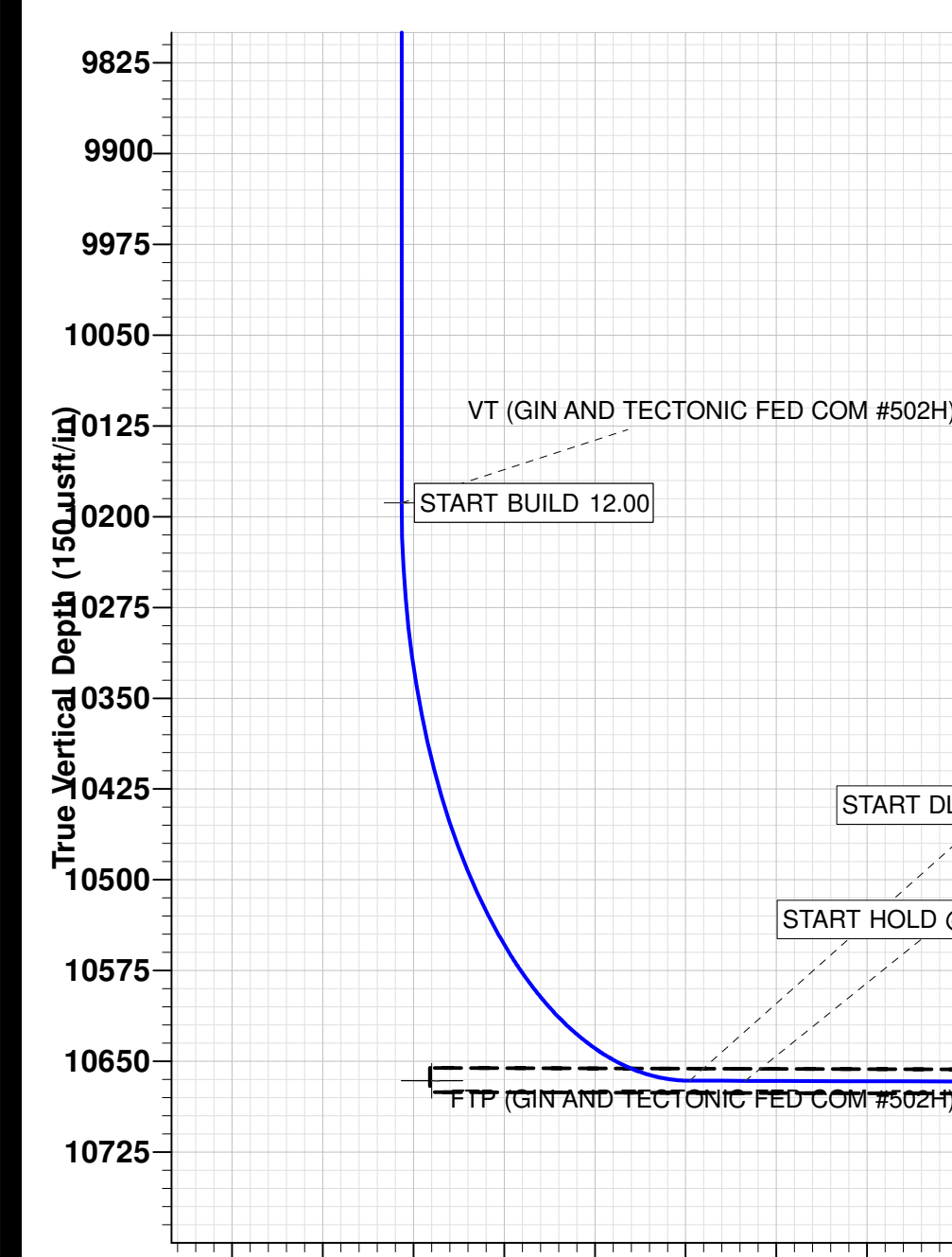
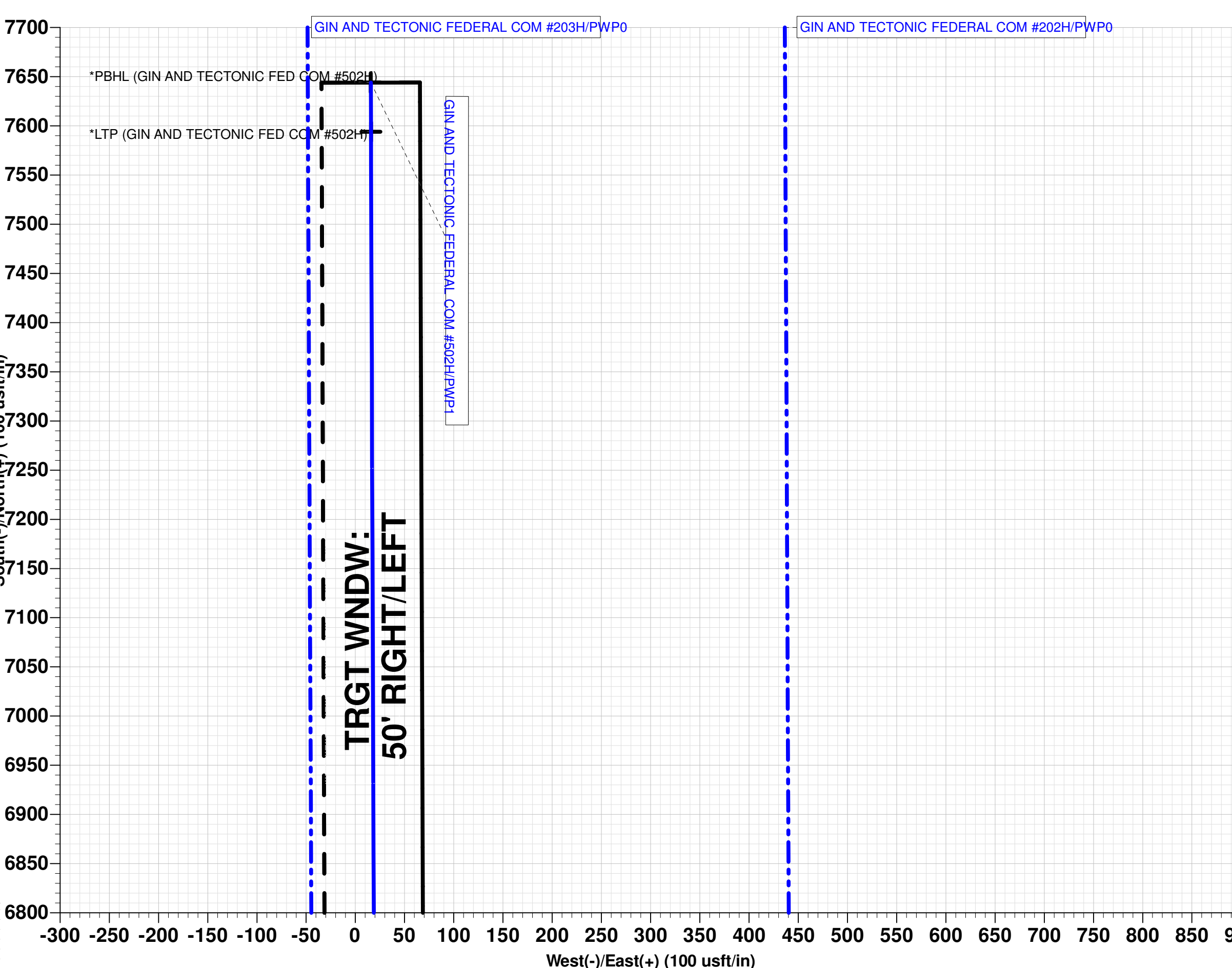
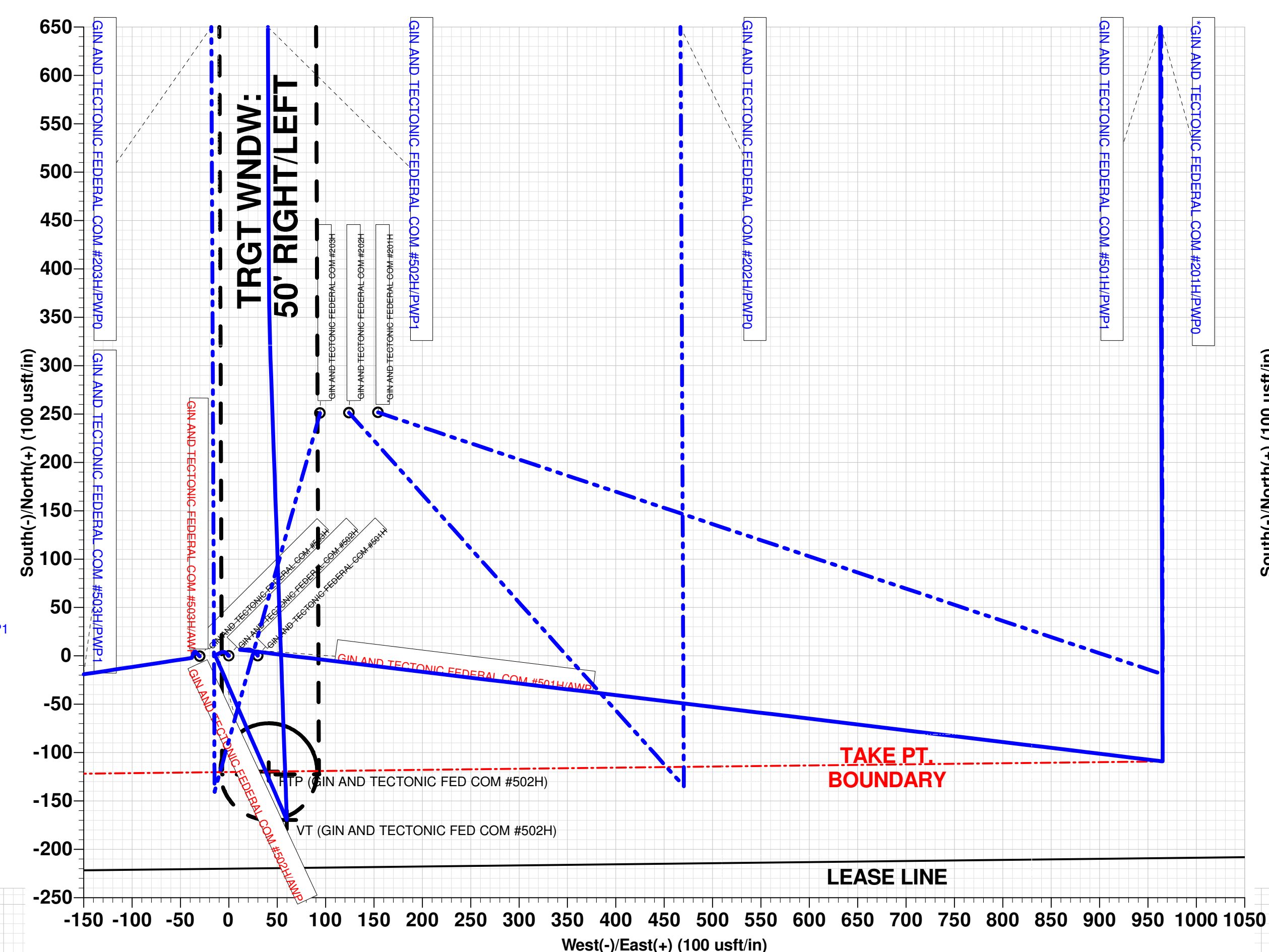
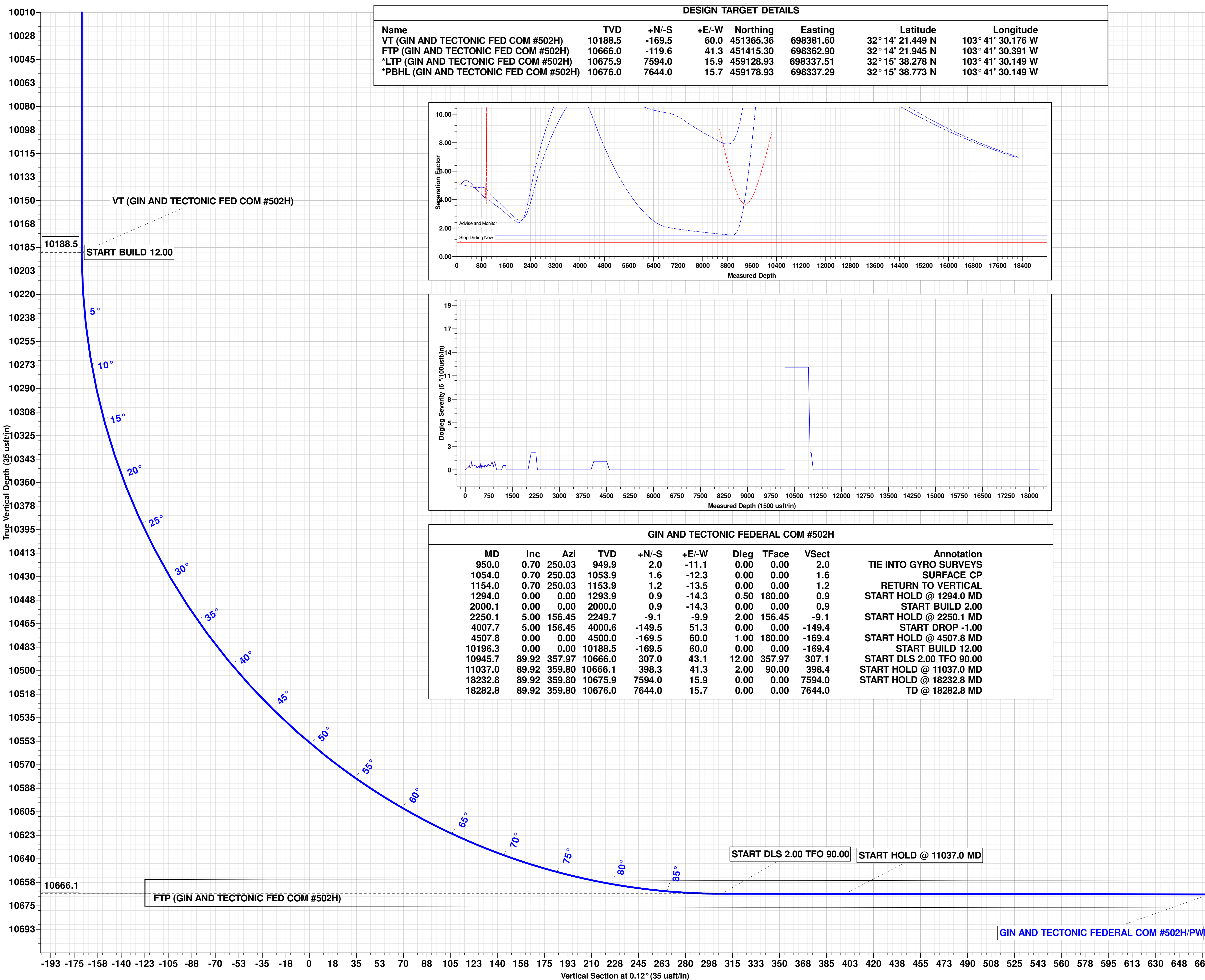
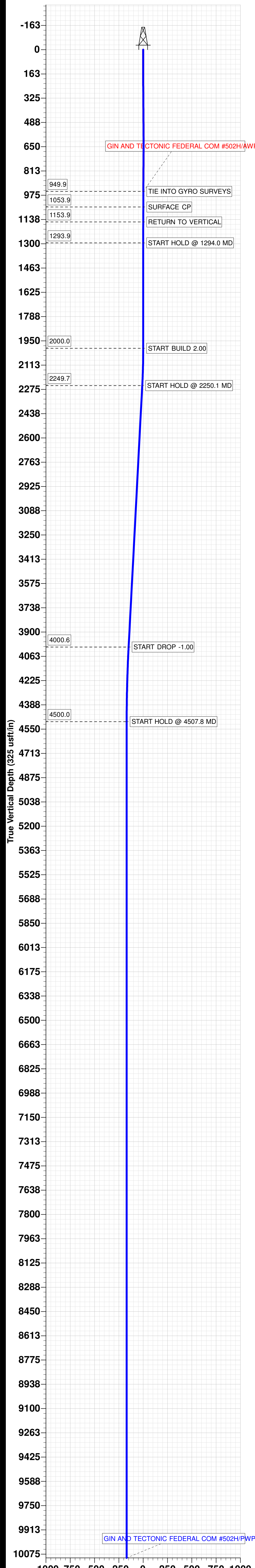
Project: BULLDOG PROSPECT (NM-E)
Site: GIN & TECTONIC FEDERAL PROJECT (BULLDOG 2332)
Well: GIN AND TECTONIC FEDERAL COM #502H
Wellbore: OWB
Design: PWP1
GL: 3640.8
RKB 31ft + GL 3640.8ft @ 3671.8usft

WELL DETAILS: GIN AND TECTONIC FEDERAL COM #502H				
+N-S	+E-W	North	Easting	Latitude
0.0	0.0	451534.90	698321.60	32° 14' 23.131 N
				103° 41' 30.863 W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	North	Easting	Latitude
VT (GIN AND TECTONIC FED COM #502H)	10188.5	-169.5	60.0	451365.36	698381.60	32° 14' 21.449 N
FTP (GIN AND TECTONIC FED COM #502H)	10666.0	-119.6	41.3	451415.30	698362.90	32° 14' 21.945 N
*LTP (GIN AND TECTONIC FED COM #502H)	10675.9	7594.0	15.9	459128.93	698337.51	32° 15' 38.278 N
*PBHL (GIN AND TECTONIC FED COM #502H)	10676.0	7644.0	15.7	459178.93	698337.29	32° 15' 38.773 N



GIN AND TECTONIC FEDERAL COM #502H									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Annotation
950.0	0.70	250.03	949.9	2.0	-11.1	0.00	0.00	2.0	TIE INTO GYRO SURVEYS
1054.0	0.70	250.03	1053.9	1.6	-12.3	0.00	0.00	1.6	SURFACE CP
1154.0	0.70	250.03	1153.9	1.2	-13.5	0.00	0.00	1.2	RETURN TO VERTICAL
1294.0	0.00	0.00	1293.9	0.9	-14.3	0.50	180.00	0.9	START HOLD @ 1294.0 MD
2000.1	0.00	0.00	2000.0	0.9	-14.3	0.00	0.00	0.9	START BUILD 2.00
2250.1	5.00	156.45	2249.7	-9.1	-9.9	2.00	156.45	-9.1	START HOLD @ 2250.1 MD
4007.7	5.00	156.45	4006.6	-149.5	51.3	0.00	0.00	-149.4	START DROP -1.00
4507.8	0.00	0.00	4500.0	-169.5	60.0	1.00	180.00	-169.4	START HOLD @ 4507.8 MD
10196.3	0.00	0.00	10188.5	-169.5	60.0	0.00	0.00	-169.4	START BUILD 12.00
10945.7	89.92	357.97	10666.0	307.0	43.1	12.00	357.97	307.1	START DLS 2.00 TFO 90.00
11037.0	89.92	359.80	10666.1	398.3	41.3	2.00	90.00	398.4	START HOLD @ 11037.0 MD
18232.8	89.92	359.80	10675.9	7594.0	15.9	0.00	0.00	7594.0	START HOLD @ 18232.8 MD
18282.8	89.92	359.80	10676.0	7644.0	15.7	0.00	0.00	7644.0	TD @ 18282.8 MD



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 502H	30-025-	P-5-24S-32E	220 FSL & 1295 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 502H	Pending	7/12/2022	± 25 days from spud	8/15/2023	8/25/2023	8/30/2023

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
E-mail Address:	mayte.x.reyes@conocophillips.com
Date:	5/17/2022
Phone:	575-748-6945
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 326959

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 326959
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/29/2024