

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-54441
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 11/17/2023

Additional Operator Remarks

Location of Well

0. SHL: SESE / 70 FSL / 1120 FEL / TWSP: 26S / RANGE: 31E / SECTION: 23 / LAT: 32.0210564 / LONG: -103.7437815 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 2084 FEL / TWSP: 26S / RANGE: 31E / SECTION: 23 / LAT: 32.0211326 / LONG: -103.7468913 (TVD: 11493 feet, MD: 11625 feet)

BHL: NWNE / 50 FNL / 2084 FEL / TWSP: 26S / RANGE: 31E / SECTION: 14 / LAT: 32.0500366 / LONG: -103.7470179 (TVD: 11707 feet, MD: 22050 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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 Road, 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, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015- 54441	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code 331845	5 Property Name ZIA HILLS UNIT 2331 WC	6 Well Number 708H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3164.29'

10 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	23	26-S	31-E		70'	SOUTH	1120'	EAST	EDDY

11 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
B	14	26-S	31-E		50'	NORTH	2084'	EAST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 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.

16 SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=724051.15 LAT.= 32.02105647° N Y=371897.66 LONG.= 103.74378159° W 70' FSL, 1120' FEL - SECTION 23 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=723087.20 LAT.= 32.02113268° N Y=371920.14 LONG.= 103.74689139° W 100' FSL, 2084' FEL - SECTION 23 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=722991.28 LAT.= 32.04989916° N Y=382384.55 LONG.= 103.74701757° W 100' FNL, 2084' FEL - SECTION 14 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=722990.88 LAT.= 32.05003661° N Y=382434.55 LONG.= 103.74701799° W 50' FNL, 2084' FEL - SECTION 14 NMLC0064756	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Mayte Reyes</i> 12/18/2022 Signature Date Mayte Reyes Printed Name mayte.x.reyes@cop.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. CHARLES L. JURICA 10/21/2022 Date of Survey 25490 Signature and Seal of Professional Surveyor <i>Charles L. Jurica</i> Certificate Number
--	--

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: CONOCOPHILLIPS **OGRID:** 217817 **Date:** 12 / 18 / 22

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
Zia Hills Unit 2331 WC 708H	30-015-	P-23-26S-31E	70' FSL & 1120' FEL 50' FNL & 2084' FEL	± 2245	± 6736	± 5165

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
Zia Hills Unit 2331 WC 708H	Pending	4/6/2024	± 25 days from spud	8/4/2024	8/14/2024	8/19/2024

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:
Printed Name: Mayte Reyes
Title: Sr. Regulatory Coordinator
E-mail Address: mayte.x.reyes@conocophillips.com
Date: 12/18/2022
Phone: 575-748-6945
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H

1. Geologic Formations

TVD of target	11,707' EOL	Pilot hole depth	NA
MD at TD:	22,050'	Deepest expected fresh water:	405'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1058	Water	
Top of Salt	1448	Salt	
Base of Salt	3917	Salt	
Lamar	4136	Salt Water	
Bell Canyon	4161	Salt Water	
Cherry Canyon	5072	Oil/Gas	
Brushy Canyon	6464	Oil/Gas	
BSPG	8116	Oil/Gas	
BS1S	9152	Oil/Gas	
BS2S	9802	Oil/Gas	
BS3C	10275	Oil/Gas	
BS3S	10971	Oil/Gas	
WFMP	11355	Oil/Gas	
Wolfcamp A Shale	11707	Target Oil/Gas	
WFMP B	11882	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1398	10.75"	45.5	J55	BTC	3.27	1.08	11.24	12.51
9.875"	0	8500	7.625"	29.7	L80-ICY	TXP BTC	1.42	1.14	2.88	2.88
8.750"	8500	11,100	7.625"	29.7	P110-ICY	W513	1.36	1.72	3.24	1.94
6.75"	0	10600	5.5"	23	P110-CY	TXP BTC	2.11	2.49	2.99	2.99
6.75"	10600	22,050	5.5"	23	P110-CY	W441	1.91	2.26	2.71	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H

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

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	667	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter.	810	10.5	3.5	22.3	24	NeoCem
Stage 1	250	16.4	1.08	4.52	7	Tail: Class H
Prod	589	12.5	1.67	10.7	72	Lead: 50:50:10 H Blend
	903	13.2	1.43	5.7	19	Tail: 50:50:2 Class H Blend

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

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	10,600'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	---

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	2500psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9.4	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	12 - 12.5	35-45	<20

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

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

6. Logging and Testing Procedures

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

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

ConocoPhillips Company - Zia Hills Unit 2331 WC 708H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7610 psi at 11707' TVD
Abnormal Temperature	NO 175 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

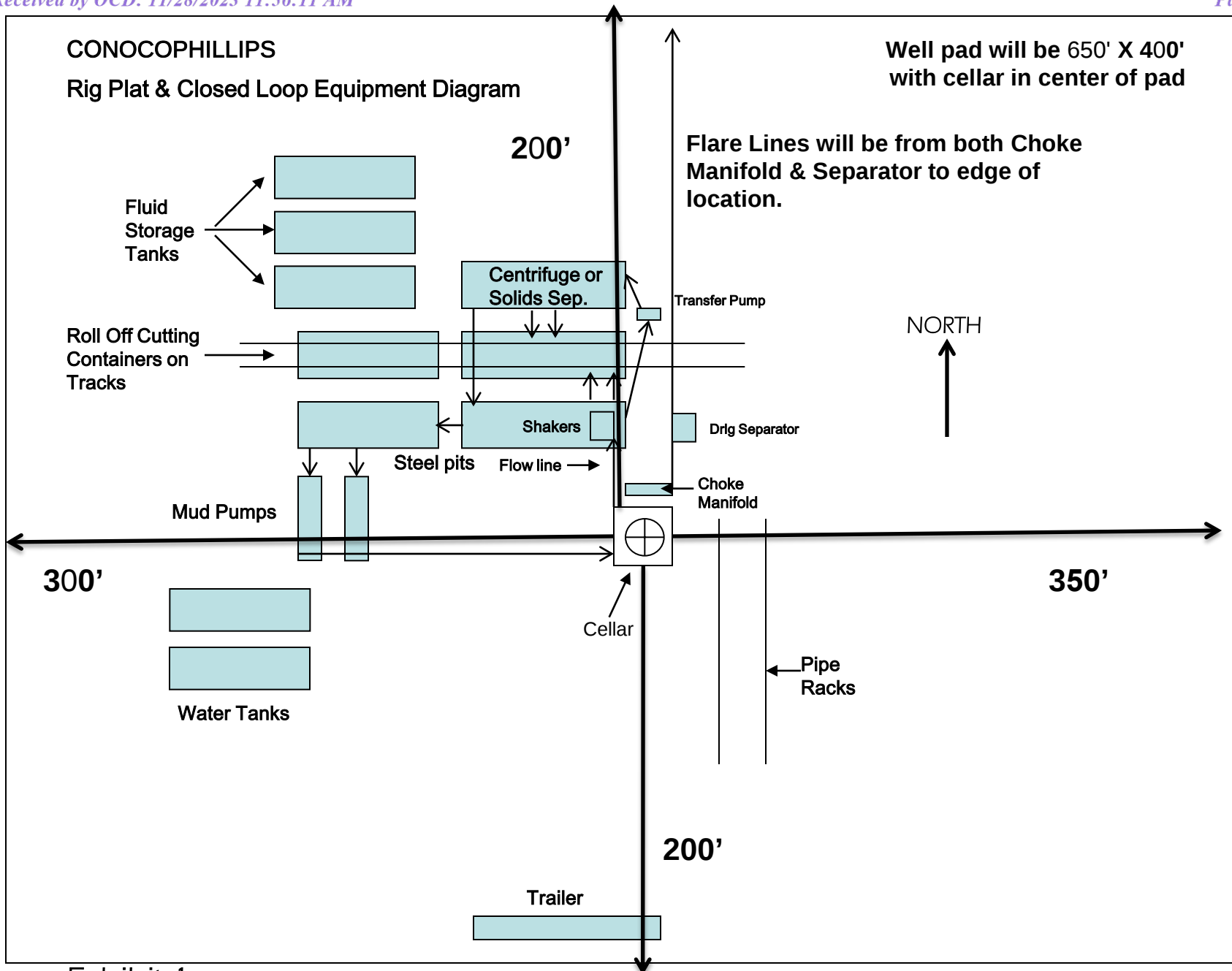


Exhibit 1

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
ZIA HILLS UNIT 2331 PROJECT
ZIA HILLS UNIT 2331 WC #708H**

**OWB
PWP0**

Anticollision Report

16 November, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 95.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,320.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	11/16/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	2,000.0	PWP0 (OWB)	r.5 SDI_KPR_ADK	SDI Keeper ADK rev.5
2,000.0	11,237.8	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,237.8	22,049.9	PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

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						
ZIA HILLS UNIT 2331 PROJECT						
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP						Out of range
RAMBLIN ROSE 14 FED #1 - OWB - AWP						Out of range
SHETLAND 11 FEDERAL #332H - OWB - PWP0	22,050.7	11,300.0	1,155.0	1,035.1	9.636	CC, ES, SF
SHETLAND 11 FEDERAL #714H - OWB - PWP0	22,050.7	16,466.2	1,159.3	992.4	6.946	CC, ES, SF
SHETLAND 11 FEDERAL #734H - OWB - PWP0						Out of range
SHETLAND 11-2 FEDERAL STATE COM #611H - OWB						Out of range
SHETLAND 11-2 FEDERAL STATE COM #712H - OWB						Out of range
SHETLAND 11-2 FEDERAL STATE COM #731H - OWB						Out of range
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	22,050.7	11,738.2	898.7	779.4	7.532	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB						Out of range
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	22,050.7	22,089.0	464.9	207.9	1.809	Advise and Monitor, CC, ES,
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	22,050.7	21,917.2	428.6	281.4	2.913	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	22,050.7	22,097.6	645.3	448.2	3.275	CC, ES, SF
ZHU 2331 WC #2H - OWB - AWP						Out of range
ZHU 2331 WC #3H - OWB - AWP						Out of range
ZHU 2331 WC #4H - OWB - AWP						Out of range
ZHU 2331 WC #5H - OWB - AWP	21,629.6	21,559.6	1,180.4	1,019.0	7.314	CC
ZHU 2331 WC #5H - OWB - AWP	21,800.0	21,714.1	1,181.7	1,017.9	7.215	ES
ZHU 2331 WC #5H - OWB - AWP	22,050.7	21,956.6	1,186.3	1,018.9	7.085	SF
ZHU 2331 WC #6H - OWB - AWP (PH)	11,064.8	11,140.6	900.6	857.8	21.038	CC, ES
ZHU 2331 WC #6H - OWB - AWP (PH)	11,475.0	11,542.4	902.2	859.0	20.889	SF
ZHU 2331 WC #6H - ST01 - AWP	16,029.0	16,050.5	769.5	685.3	9.137	CC
ZHU 2331 WC #6H - ST01 - AWP	21,100.0	21,116.9	809.4	654.9	5.239	ES
ZHU 2331 WC #6H - ST01 - AWP	22,050.7	22,042.8	831.4	663.2	4.945	SF
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	1,000.0	1,000.0	30.0	21.9	3.725	CC, ES
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	22,050.7	21,918.8	444.8	269.4	2.536	SF
ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0	2,000.0	2,000.0	29.8	18.5	2.622	CC, ES, SF
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	2,000.0	2,001.0	59.9	48.5	5.264	CC, ES
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	22,040.0	21,956.2	822.6	654.6	4.897	SF
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	2,000.0	2,000.0	89.9	78.5	7.897	CC, ES
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	22,000.0	21,724.9	1,245.0	1,077.9	7.451	SF
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	2,000.0	2,000.0	120.3	108.9	10.574	CC, ES
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	2,090.0	2,086.3	123.1	111.3	10.468	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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

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						
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,500.0	1,500.0	150.3	140.7	15.614	CC
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,520.0	1,519.0	150.4	140.7	15.496	ES
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,700.0	1,689.8	156.9	146.5	15.064	SF
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design				Between Ellipses (usft)		
ZIA HILLS UNIT 2331 PROJECT						
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	22,050.7	14,160.0				Out of Range @TD
RAMBLIN ROSE 14 FED #1 - OWB - AWP	22,050.7	10,650.0				Out of Range @TD
SHETLAND 11 FEDERAL #332H - OWB - PWP0	22,050.7	11,300.0	1,155.0	1,035.1	9.636	CC, ES, SF
SHETLAND 11 FEDERAL #714H - OWB - PWP0	22,050.7	16,466.2	1,159.3	992.4	6.946	CC, ES, SF
SHETLAND 11 FEDERAL #734H - OWB - PWP0	22,050.7	16,703.1				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #611H - OWB	22,050.7	11,726.0				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #712H - OWB	22,050.7	11,701.0				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #731H - OWB	22,050.7	11,750.5				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	22,050.7	11,738.2	898.7	779.4	7.532	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	22,050.7	21,907.0				Out of Range @TD
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	22,050.7	22,089.0	464.9	207.9	1.809	Advise and Monitor, CC, ES,
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	22,050.7	21,917.2	428.6	281.4	2.913	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	22,050.7	22,097.6	645.3	448.2	3.275	CC, ES, SF
ZHU 2331 WC #2H - OWB - AWP	22,050.7	21,872.0				Out of Range @TD
ZHU 2331 WC #3H - OWB - AWP	22,050.7	21,810.6				Out of Range @TD
ZHU 2331 WC #4H - OWB - AWP	22,050.7	21,969.0				Out of Range @TD
ZHU 2331 WC #5H - OWB - AWP	22,050.7	21,956.6	1,186.3	1,018.9	7.085	SF
ZHU 2331 WC #6H - OWB - AWP (PH)	22,050.7	11,371.0				Out of Range @TD
ZHU 2331 WC #6H - ST01 - AWP	22,050.7	22,042.8	831.4	663.2	4.945	SF
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	22,050.7	21,918.8	444.8	269.4	2.536	SF
ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0	22,050.7	21,760.3	450.9	284.3	2.707	
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	22,050.7	21,956.2	822.7	654.7	4.897	
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	22,050.7	21,724.9	1,247.0	1,079.8	7.460	
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	22,050.7	21,996.4				Out of Range @TD
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	22,050.7	21,875.5				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	22,050.7	22,175.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	22,050.7	21,989.2				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	22,050.7	22,126.4				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	22,050.7	21,965.7				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	22,050.7	22,165.5				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	22,050.7	22,036.0				Out of Range @TD

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 11 FEDERAL #332H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD - OWSG R1													Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning	
21,660.0	11,624.0	11,175.9	11,135.7	82.9	40.2	-62.36	10,763.8	-2,076.5	1,305.3	1,195.6	109.67	11.902		
21,700.0	11,624.0	11,200.0	11,153.7	83.2	40.3	-63.17	10,779.9	-2,076.6	1,286.7	1,176.1	110.59	11.634		
21,755.0	11,624.0	11,200.0	11,153.7	83.6	40.3	-63.17	10,779.9	-2,076.6	1,261.8	1,149.5	112.30	11.237		
21,800.0	11,624.0	11,216.3	11,165.5	83.9	40.3	-63.70	10,791.1	-2,076.7	1,242.7	1,129.3	113.48	10.952		
21,850.0	11,624.0	11,232.3	11,176.8	84.2	40.3	-64.21	10,802.5	-2,076.7	1,222.7	1,107.9	114.80	10.651		
21,900.0	11,624.0	11,250.0	11,188.9	84.6	40.4	-64.77	10,815.4	-2,076.8	1,203.9	1,087.8	116.09	10.370		
21,945.0	11,624.0	11,265.3	11,199.0	84.9	40.4	-65.24	10,826.9	-2,076.9	1,188.1	1,070.8	117.24	10.134		
22,000.0	11,624.0	11,286.0	11,212.2	85.3	40.5	-65.85	10,842.9	-2,077.0	1,170.1	1,051.5	118.59	9.867		
22,040.0	11,624.0	11,300.0	11,220.7	85.6	40.5	-66.26	10,853.9	-2,077.0	1,158.0	1,038.5	119.56	9.686		
22,049.9	11,624.0	11,300.0	11,220.7	85.7	40.5	-66.26	10,853.9	-2,077.0	1,155.2	1,035.3	119.84	9.640		
22,050.7	11,624.0	11,300.0	11,220.7	85.7	40.5	-66.26	10,853.9	-2,077.0	1,155.0	1,035.1	119.86	9.636	CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 11 FEDERAL #714H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	10.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
21,700.0	11,624.0	16,466.2	11,736.9	83.2	88.0	91.45	10,925.7	32.2	1,316.2	1,166.3	149.89	8.781		
21,755.0	11,624.0	16,466.2	11,736.9	83.6	88.0	91.45	10,925.7	32.2	1,286.5	1,133.8	152.72	8.424		
21,800.0	11,624.0	16,466.2	11,736.9	83.9	88.0	91.45	10,925.7	32.2	1,263.5	1,108.5	155.02	8.151		
21,850.0	11,624.0	16,466.2	11,736.9	84.2	88.0	91.45	10,925.7	32.2	1,239.4	1,081.9	157.55	7.867		
21,900.0	11,624.0	16,466.2	11,736.9	84.6	88.0	91.45	10,925.7	32.2	1,216.8	1,056.8	160.02	7.604		
21,945.0	11,624.0	16,466.2	11,736.9	84.9	88.0	91.45	10,925.7	32.2	1,198.0	1,035.8	162.18	7.387		
22,000.0	11,624.0	16,466.2	11,736.9	85.3	88.0	91.45	10,925.7	32.2	1,176.8	1,012.1	164.71	7.145		
22,040.0	11,624.0	16,466.2	11,736.9	85.6	88.0	91.45	10,925.7	32.2	1,162.8	996.4	166.45	6.986		
22,049.9	11,624.0	16,466.2	11,736.9	85.7	88.0	91.45	10,925.7	32.2	1,159.6	992.7	166.86	6.949		
22,050.7	11,624.0	16,466.2	11,736.9	85.7	88.0	91.45	10,925.7	32.2	1,159.3	992.4	166.90	6.946	CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 11-2 FEDERAL STATE COM #732H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 113-MWD - OWSG R1												Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
21,280.0	11,624.0	11,418.0	11,388.8	80.2	41.6	-73.26	10,647.0	-1,984.6	1,311.6	1,212.0	99.62	13.166	
21,300.0	11,624.0	11,418.0	11,388.8	80.3	41.6	-73.26	10,647.0	-1,984.6	1,298.1	1,197.8	100.26	12.947	
21,375.0	11,624.0	11,418.0	11,388.8	80.8	41.6	-73.26	10,647.0	-1,984.6	1,249.2	1,146.4	102.75	12.157	
21,400.0	11,624.0	11,418.0	11,388.8	81.0	41.6	-73.26	10,647.0	-1,984.6	1,233.4	1,129.8	103.61	11.905	
21,470.0	11,624.0	11,458.5	11,416.7	81.5	41.6	-74.64	10,672.8	-1,970.7	1,189.3	1,084.3	105.03	11.323	
21,500.0	11,624.0	11,466.7	11,422.0	81.7	41.6	-74.90	10,678.4	-1,967.9	1,171.2	1,065.3	105.90	11.060	
21,565.0	11,624.0	11,512.0	11,449.6	82.2	41.7	-76.31	10,710.8	-1,952.4	1,134.0	1,027.0	107.01	10.597	
21,600.0	11,624.0	11,512.0	11,449.6	82.4	41.7	-76.31	10,710.8	-1,952.4	1,113.7	1,005.4	108.32	10.281	
21,660.0	11,624.0	11,512.0	11,449.6	82.9	41.7	-76.31	10,710.8	-1,952.4	1,080.8	970.2	110.61	9.771	
21,700.0	11,624.0	11,533.7	11,461.8	83.2	41.7	-76.95	10,727.2	-1,945.0	1,059.8	948.3	111.53	9.502	
21,755.0	11,624.0	11,558.6	11,475.0	83.6	41.7	-77.64	10,746.5	-1,936.5	1,031.9	918.9	112.94	9.136	
21,800.0	11,624.0	11,579.9	11,485.7	83.9	41.7	-78.22	10,763.4	-1,929.3	1,009.9	895.8	114.08	8.853	
21,850.0	11,624.0	11,607.0	11,498.4	84.2	41.8	-78.91	10,785.5	-1,920.2	986.4	871.2	115.23	8.560	
21,900.0	11,624.0	11,639.0	11,512.8	84.6	41.8	-79.71	10,812.0	-1,909.4	963.6	847.4	116.26	8.289	
21,945.0	11,624.0	11,671.1	11,526.9	84.9	41.9	-80.51	10,838.8	-1,898.7	943.6	826.6	117.07	8.060	
22,000.0	11,624.0	11,702.0	11,540.2	85.3	41.9	-81.29	10,864.7	-1,888.4	919.9	801.5	118.37	7.771	
22,040.0	11,624.0	11,732.0	11,552.6	85.6	42.0	-82.04	10,890.2	-1,878.6	903.1	784.0	119.08	7.584	
22,049.9	11,624.0	11,737.8	11,554.9	85.7	42.0	-82.18	10,895.2	-1,876.7	899.0	779.7	119.30	7.536	
22,050.7	11,624.0	11,738.2	11,555.1	85.7	42.0	-82.19	10,895.5	-1,876.6	898.7	779.4	119.32	7.532 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 2-11 STATE FEDERAL COM #613H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 226-MWD													Offset Well Error: 10.0 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)			
20,995.0	11,624.0	22,089.0	11,669.7	78.1	179.6	80.32	10,629.7	-610.8	1,231.6	1,114.0	117.63	10.470	
21,000.0	11,624.0	22,089.0	11,669.7	78.2	179.6	80.32	10,629.7	-610.8	1,226.9	1,109.1	117.89	10.407	
21,090.0	11,624.0	22,089.0	11,669.7	78.8	179.6	80.32	10,629.7	-610.8	1,143.9	1,020.9	122.96	9.303	
21,100.0	11,624.0	22,089.0	11,669.7	78.9	179.6	80.32	10,629.7	-610.8	1,134.7	1,011.2	123.58	9.182	
21,185.0	11,624.0	22,089.0	11,669.7	79.5	179.6	80.32	10,629.7	-610.8	1,057.5	928.2	129.29	8.179	
21,200.0	11,624.0	22,089.0	11,669.7	79.6	179.6	80.32	10,629.7	-610.8	1,044.0	913.6	130.40	8.006	
21,280.0	11,624.0	22,089.0	11,669.7	80.2	179.6	80.32	10,629.7	-610.8	972.6	835.8	136.86	7.107	
21,300.0	11,624.0	22,089.0	11,669.7	80.3	179.6	80.32	10,629.7	-610.8	955.0	816.4	138.63	6.889	
21,375.0	11,624.0	22,089.0	11,669.7	80.8	179.6	80.32	10,629.7	-610.8	889.9	743.9	145.93	6.098	
21,400.0	11,624.0	22,089.0	11,669.7	81.0	179.6	80.32	10,629.7	-610.8	868.5	719.9	148.61	5.844	
21,470.0	11,624.0	22,089.0	11,669.7	81.5	179.6	80.32	10,629.7	-610.8	809.8	653.0	156.82	5.164	
21,500.0	11,624.0	22,089.0	11,669.7	81.7	179.6	80.32	10,629.7	-610.8	785.2	624.5	160.69	4.886	
21,565.0	11,624.0	22,089.0	11,669.7	82.2	179.6	80.32	10,629.7	-610.8	733.3	563.4	169.84	4.317	
21,600.0	11,624.0	22,089.0	11,669.7	82.4	179.6	80.32	10,629.7	-610.8	706.2	531.0	175.22	4.030	
21,660.0	11,624.0	22,089.0	11,669.7	82.9	179.6	80.32	10,629.7	-610.8	661.6	476.3	185.21	3.572	
21,700.0	11,624.0	22,089.0	11,669.7	83.2	179.6	80.32	10,629.7	-610.8	633.2	440.8	192.39	3.291	
21,755.0	11,624.0	22,089.0	11,669.7	83.6	179.6	80.32	10,629.7	-610.8	596.4	393.5	202.87	2.940	
21,800.0	11,624.0	22,089.0	11,669.7	83.9	179.6	80.32	10,629.7	-610.8	568.5	356.6	211.86	2.683	
21,850.0	11,624.0	22,089.0	11,669.7	84.2	179.6	80.32	10,629.7	-610.8	540.2	318.1	222.07	2.432	
21,900.0	11,624.0	22,089.0	11,669.7	84.6	179.6	80.32	10,629.7	-610.8	515.2	283.0	232.19	2.219	
21,945.0	11,624.0	22,089.0	11,669.7	84.9	179.6	80.32	10,629.7	-610.8	495.9	255.0	240.85	2.059	
22,000.0	11,624.0	22,089.0	11,669.7	85.3	179.6	80.32	10,629.7	-610.8	477.1	226.9	250.21	1.907 Advise and Monitor	
22,040.0	11,624.0	22,089.0	11,669.7	85.6	179.6	80.32	10,629.7	-610.8	467.0	211.3	255.75	1.826 Advise and Monitor	
22,049.9	11,624.0	22,089.0	11,669.7	85.7	179.6	80.32	10,629.7	-610.8	465.0	208.1	256.92	1.810 Advise and Monitor	
22,050.7	11,624.0	22,089.0	11,669.7	85.7	179.6	80.32	10,629.7	-610.8	464.9	207.9	257.00	1.809 Advise and Monitor, CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 2-11 STATE FEDERAL COM #713H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-MWD - OWSG R1													Offset Well Error: 10.0 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	
21,185.0	11,624.0	21,917.2	11,800.0	79.5	175.0	-105.35	10,914.4	-1,256.7	1,260.5	1,167.8	92.71	13.597	
21,200.0	11,624.0	21,917.2	11,800.0	79.6	175.0	-105.35	10,914.4	-1,256.7	1,245.7	1,152.7	92.97	13.398	
21,280.0	11,624.0	21,917.2	11,800.0	80.2	175.0	-105.35	10,914.4	-1,256.7	1,166.8	1,072.3	94.52	12.344	
21,300.0	11,624.0	21,917.2	11,800.0	80.3	175.0	-105.35	10,914.4	-1,256.7	1,147.1	1,052.1	94.95	12.082	
21,375.0	11,624.0	21,917.2	11,800.0	80.8	175.0	-105.35	10,914.4	-1,256.7	1,073.3	976.6	96.70	11.099	
21,400.0	11,624.0	21,917.2	11,800.0	81.0	175.0	-105.35	10,914.4	-1,256.7	1,048.8	951.4	97.35	10.773	
21,470.0	11,624.0	21,917.2	11,800.0	81.5	175.0	-105.35	10,914.4	-1,256.7	980.2	880.8	99.38	9.863	
21,500.0	11,624.0	21,917.2	11,800.0	81.7	175.0	-105.35	10,914.4	-1,256.7	950.8	850.5	100.35	9.475	
21,565.0	11,624.0	21,917.2	11,800.0	82.2	175.0	-105.35	10,914.4	-1,256.7	887.4	784.7	102.72	8.639	
21,600.0	11,624.0	21,917.2	11,800.0	82.4	175.0	-105.35	10,914.4	-1,256.7	853.3	749.2	104.17	8.192	
21,660.0	11,624.0	21,917.2	11,800.0	82.9	175.0	-105.35	10,914.4	-1,256.7	795.1	688.2	106.98	7.433	
21,700.0	11,624.0	21,917.2	11,800.0	83.2	175.0	-105.35	10,914.4	-1,256.7	756.5	647.4	109.14	6.932	
21,755.0	11,624.0	21,917.2	11,800.0	83.6	175.0	-105.35	10,914.4	-1,256.7	703.6	591.1	112.55	6.252	
21,800.0	11,624.0	21,917.2	11,800.0	83.9	175.0	-105.35	10,914.4	-1,256.7	660.6	544.8	115.80	5.704	
21,850.0	11,624.0	21,917.2	11,800.0	84.2	175.0	-105.35	10,914.4	-1,256.7	613.1	493.1	120.03	5.108	
21,900.0	11,624.0	21,917.2	11,800.0	84.6	175.0	-105.35	10,914.4	-1,256.7	566.1	441.1	125.03	4.528	
21,945.0	11,624.0	21,917.2	11,800.0	84.9	175.0	-105.35	10,914.4	-1,256.7	524.3	393.9	130.37	4.021	
22,000.0	11,624.0	21,917.2	11,800.0	85.3	175.0	-105.35	10,914.4	-1,256.7	473.9	335.7	138.25	3.428	
22,040.0	11,624.0	21,917.2	11,800.0	85.6	175.0	-105.35	10,914.4	-1,256.7	438.0	292.9	145.12	3.018	
22,049.9	11,624.0	21,917.2	11,800.0	85.7	175.0	-105.35	10,914.4	-1,256.7	429.2	282.2	147.01	2.920	
22,050.7	11,624.0	21,917.2	11,800.0	85.7	175.0	-105.35	10,914.4	-1,256.7	428.6	281.4	147.15	2.913 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 2-11 STATE FEDERAL COM #733H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
21,280.0	11,624.0	22,097.6	12,034.9	80.2	173.7	123.46	10,919.7	-627.2	1,262.3	1,145.7	116.67	10.820	
21,300.0	11,624.0	22,097.6	12,034.9	80.3	173.7	123.46	10,919.7	-627.2	1,244.1	1,126.4	117.74	10.567	
21,375.0	11,624.0	22,097.6	12,034.9	80.8	173.7	123.46	10,919.7	-627.2	1,176.5	1,054.4	122.11	9.635	
21,400.0	11,624.0	22,097.6	12,034.9	81.0	173.7	123.46	10,919.7	-627.2	1,154.2	1,030.5	123.69	9.331	
21,470.0	11,624.0	22,097.6	12,034.9	81.5	173.7	123.46	10,919.7	-627.2	1,092.2	963.7	128.48	8.501	
21,500.0	11,624.0	22,097.6	12,034.9	81.7	173.7	123.46	10,919.7	-627.2	1,066.0	935.3	130.71	8.155	
21,565.0	11,624.0	22,097.6	12,034.9	82.2	173.7	123.46	10,919.7	-627.2	1,009.8	873.9	135.95	7.428	
21,600.0	11,624.0	22,097.6	12,034.9	82.4	173.7	123.46	10,919.7	-627.2	980.0	841.0	139.01	7.050	
21,660.0	11,624.0	22,097.6	12,034.9	82.9	173.7	123.46	10,919.7	-627.2	929.8	785.1	144.71	6.426	
21,700.0	11,624.0	22,097.6	12,034.9	83.2	173.7	123.46	10,919.7	-627.2	897.0	748.2	148.83	6.027	
21,755.0	11,624.0	22,097.6	12,034.9	83.6	173.7	123.46	10,919.7	-627.2	852.9	698.0	154.95	5.505	
21,800.0	11,624.0	22,097.6	12,034.9	83.9	173.7	123.46	10,919.7	-627.2	817.9	657.5	160.37	5.100	
21,850.0	11,624.0	22,097.6	12,034.9	84.2	173.7	123.46	10,919.7	-627.2	780.1	613.2	166.84	4.675	
21,900.0	11,624.0	22,097.6	12,034.9	84.6	173.7	123.46	10,919.7	-627.2	743.7	569.9	173.77	4.280	
21,945.0	11,624.0	22,097.6	12,034.9	84.9	173.7	123.46	10,919.7	-627.2	712.4	532.0	180.39	3.949	
22,000.0	11,624.0	22,097.6	12,034.9	85.3	173.7	123.46	10,919.7	-627.2	676.2	487.3	188.90	3.580	
22,040.0	11,624.0	22,097.6	12,034.9	85.6	173.7	123.46	10,919.7	-627.2	651.6	456.3	195.32	3.336	
22,049.9	11,624.0	22,097.6	12,034.9	85.7	173.7	123.46	10,919.7	-627.2	645.7	448.8	196.94	3.279	
22,050.7	11,624.0	22,097.6	12,034.9	85.7	173.7	123.46	10,919.7	-627.2	645.3	448.2	197.06	3.275 CC, ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 10837-r.5 MWD+IFR1+MS								Rule Assigned:					Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.0	9,308.8	9,587.9	9,480.1	27.8	12.5	-85.31	103.9	-2,262.9	1,312.7	1,274.3	38.46	34.135	
9,405.0	9,313.8	9,594.6	9,486.7	27.8	12.5	-85.35	103.1	-2,262.2	1,312.1	1,273.7	38.46	34.114	
9,500.0	9,408.8	9,675.0	9,566.0	27.8	12.6	-85.78	92.7	-2,253.5	1,300.9	1,262.2	38.71	33.609	
9,595.0	9,503.8	9,736.7	9,627.0	27.8	12.7	-86.07	85.6	-2,248.2	1,291.9	1,252.9	38.99	33.138	
9,600.0	9,508.8	9,740.2	9,630.5	27.8	12.7	-86.09	85.3	-2,247.9	1,291.5	1,252.5	39.00	32.115	
9,690.0	9,598.8	9,806.4	9,696.2	27.9	12.8	-86.39	78.1	-2,243.5	1,284.9	1,245.7	39.24	32.747	
9,700.0	9,608.8	9,813.1	9,702.8	27.9	12.9	-86.42	77.4	-2,243.2	1,284.3	1,245.0	39.27	32.708	
9,785.0	9,693.8	9,875.0	9,764.4	27.9	12.9	-86.68	71.4	-2,240.5	1,280.0	1,240.6	39.48	32.419	
9,800.0	9,708.8	9,888.3	9,777.6	27.9	13.0	-86.73	70.3	-2,240.0	1,279.4	1,239.9	39.51	32.378	
9,880.0	9,788.8	9,950.0	9,839.1	27.9	13.0	-86.94	65.6	-2,237.9	1,276.4	1,236.7	39.70	32.153	
9,900.0	9,808.8	9,963.7	9,852.7	27.9	13.0	-86.98	64.7	-2,237.5	1,275.9	1,236.1	39.75	32.100	
9,949.2	9,857.9	9,984.9	9,873.9	27.9	13.1	-87.04	63.3	-2,237.4	1,275.3	1,235.4	39.90	31.961	
9,975.0	9,883.8	10,000.0	9,889.0	27.9	13.1	-87.08	62.4	-2,237.5	1,275.5	1,235.5	39.97	31.911	
10,000.0	9,908.8	10,011.1	9,900.0	28.0	13.1	-87.11	61.7	-2,237.8	1,275.9	1,235.9	40.05	31.861	
10,070.0	9,978.8	10,112.9	10,001.7	28.0	13.1	-87.35	56.4	-2,238.9	1,276.6	1,236.6	40.00	31.916	
10,100.0	10,008.8	10,166.0	10,054.7	28.0	13.2	-87.48	53.6	-2,238.3	1,276.2	1,236.2	39.95	31.948	
10,165.0	10,073.8	10,290.0	10,178.2	28.0	13.3	-87.85	45.0	-2,232.3	1,272.5	1,232.7	39.84	31.939	
10,200.0	10,108.8	10,312.7	10,200.8	28.0	13.3	-87.94	43.1	-2,230.8	1,270.2	1,230.3	39.93	31.814	
10,260.0	10,168.8	10,350.0	10,238.0	28.0	13.3	-88.06	40.2	-2,229.1	1,267.2	1,227.2	40.07	31.622	
10,300.0	10,208.8	10,378.0	10,265.9	28.0	13.3	-88.16	38.0	-2,228.2	1,265.8	1,225.6	40.16	31.517	
10,355.0	10,263.8	10,433.3	10,321.0	28.1	13.4	-88.36	33.5	-2,226.4	1,263.9	1,223.7	40.23	31.418	
10,400.0	10,308.8	10,468.7	10,356.2	28.1	13.4	-88.50	30.5	-2,225.5	1,262.6	1,222.3	40.31	31.319	
10,450.0	10,358.8	10,500.0	10,387.4	28.1	13.4	-88.62	27.9	-2,225.0	1,261.7	1,221.2	40.44	31.202	
10,496.8	10,405.6	10,534.3	10,421.6	28.1	13.4	-88.75	25.0	-2,224.8	1,261.4	1,220.8	40.53	31.122	
10,500.0	10,408.8	10,536.3	10,423.6	28.1	13.4	-88.76	24.9	-2,224.8	1,261.4	1,220.8	40.54	31.116	
10,545.0	10,453.8	10,569.9	10,457.1	28.1	13.5	-88.87	22.4	-2,225.1	1,261.7	1,221.1	40.62	31.058	
10,600.0	10,508.8	10,619.8	10,506.9	28.1	13.5	-89.01	19.2	-2,225.8	1,262.4	1,221.7	40.69	31.023	
10,640.0	10,548.8	10,661.8	10,548.9	28.2	13.5	-89.10	17.3	-2,226.3	1,262.9	1,222.2	40.71	31.020	
10,700.0	10,608.8	10,719.0	10,606.0	28.2	13.6	-89.19	15.2	-2,227.2	1,263.8	1,223.0	40.76	31.006	
10,735.0	10,643.8	10,750.0	10,637.0	28.2	13.6	-89.24	14.3	-2,227.8	1,264.4	1,223.6	40.80	30.992	
10,800.0	10,708.8	10,812.2	10,699.1	28.2	13.6	-89.32	12.5	-2,229.0	1,265.7	1,224.8	40.85	30.981	
10,830.0	10,738.8	10,837.0	10,723.9	28.2	13.6	-89.34	11.9	-2,229.6	1,266.3	1,225.4	40.87	30.984	
10,900.0	10,808.8	10,903.2	10,790.1	28.2	13.7	-89.42	10.4	-2,231.1	1,268.0	1,227.0	40.93	30.977	
10,925.0	10,833.8	10,925.5	10,812.4	28.3	13.7	-89.44	9.8	-2,231.8	1,268.7	1,227.7	40.96	30.976	
11,000.0	10,908.8	11,013.9	10,900.7	28.3	13.7	-89.54	7.7	-2,233.9	1,270.5	1,229.5	41.01	30.977	
11,020.0	10,928.8	11,031.7	10,918.5	28.3	13.7	-89.56	7.3	-2,234.3	1,270.9	1,229.8	41.04	30.971	
11,100.0	11,008.8	11,106.0	10,992.8	28.3	13.8	-89.64	5.5	-2,236.1	1,272.8	1,231.6	41.12	30.954	
11,115.0	11,023.8	11,118.0	11,004.7	28.3	13.8	-89.65	5.3	-2,236.4	1,273.2	1,232.0	41.14	30.950	
11,200.0	11,108.8	11,216.9	11,103.5	28.3	13.8	-89.46	9.4	-2,238.7	1,275.2	1,234.0	41.21	30.946	
11,210.0	11,118.8	11,225.2	11,111.7	28.3	13.9	-89.43	10.2	-2,238.9	1,275.4	1,234.2	41.22	30.945	
11,237.8	11,146.5	11,248.0	11,134.4	28.3	13.9	-89.29	13.1	-2,239.3	1,276.0	1,234.7	41.24	30.942	
11,250.0	11,158.8	11,259.4	11,145.6	28.3	13.9	-88.66	15.0	-2,239.5	1,276.2	1,235.0	41.24	30.946	
11,275.0	11,183.7	11,282.4	11,168.2	28.4	13.9	-88.45	19.5	-2,240.0	1,276.8	1,235.5	41.25	30.953	
11,300.0	11,208.6	11,295.0	11,180.4	28.4	13.9	-88.29	22.4	-2,240.2	1,277.4	1,236.1	41.28	30.948	
11,305.0	11,213.5	11,305.8	11,190.8	28.4	14.0	-88.21	25.3	-2,240.5	1,277.5	1,236.2	41.27	30.957	
11,325.0	11,233.3	11,319.0	11,203.4	28.4	14.0	-88.06	29.2	-2,240.8	1,278.1	1,236.8	41.28	30.958	
11,350.0	11,257.7	11,342.0	11,225.0	28.4	14.0	-87.83	37.1	-2,241.6	1,278.9	1,237.6	41.30	30.970	
11,375.0	11,281.9	11,361.4	11,242.8	28.4	14.1	-87.62	44.6	-2,242.2	1,279.8	1,238.5	41.31	30.977	
11,400.0	11,305.7	11,393.5	11,272.0	28.4	14.1	-87.36	58.0	-2,243.1	1,280.5	1,239.2	41.31	30.998	
11,425.0	11,329.0	11,419.4	11,295.0	28.4	14.1	-87.16	70.0	-2,243.7	1,281.1	1,239.8	41.32	31.006	
11,450.0	11,351.9	11,453.2	11,324.0	28.4	14.2	-86.93	87.3	-2,244.2	1,281.6	1,240.2	41.31	31.022	
11,475.0	11,374.1	11,566.1	11,413.2	28.4	14.4	-86.06	155.9	-2,240.8	1,280.7	1,239.5	41.26	31.039	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 10837-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,495.0	11,391.5	11,583.2	11,425.1	28.4	14.4	-85.98	168.2	-2,239.6	1,279.6	1,238.3	41.27	31.002	
11,500.0	11,395.8	11,587.5	11,428.0	28.4	14.4	-85.96	171.3	-2,239.3	1,279.3	1,238.0	41.28	30.992	
11,525.0	11,416.8	11,627.0	11,452.2	28.4	14.5	-85.57	202.4	-2,236.1	1,277.5	1,236.2	41.27	30.951	
11,550.0	11,437.0	11,748.4	11,505.4	28.4	14.7	-83.32	309.6	-2,220.0	1,274.6	1,233.4	41.19	30.945	
11,575.0	11,456.4	11,760.1	11,508.8	28.4	14.7	-83.43	320.6	-2,218.1	1,271.1	1,229.9	41.23	30.831	
11,590.0	11,467.7	11,767.1	11,510.7	28.4	14.7	-83.50	327.3	-2,216.9	1,269.1	1,227.9	41.26	30.762	
11,600.0	11,475.0	11,781.0	11,514.0	28.4	14.7	-83.31	340.6	-2,214.7	1,267.9	1,226.6	41.26	30.727	
11,625.0	11,492.7	11,781.0	11,514.0	28.4	14.7	-83.69	340.6	-2,214.7	1,264.7	1,223.4	41.33	30.598	
11,650.0	11,509.4	11,795.9	11,517.1	28.4	14.7	-83.70	355.0	-2,212.5	1,261.7	1,220.3	41.39	30.486	
11,675.0	11,525.2	11,805.0	11,518.5	28.4	14.7	-83.83	363.9	-2,211.2	1,258.8	1,217.4	41.45	30.368	
11,685.0	11,531.2	11,805.0	11,518.5	28.4	14.7	-83.96	363.9	-2,211.2	1,257.8	1,216.3	41.49	30.319	
11,700.0	11,539.9	11,805.0	11,518.5	28.4	14.7	-84.14	363.9	-2,211.2	1,256.3	1,214.8	41.53	30.247	
11,725.0	11,553.5	11,831.2	11,521.7	28.4	14.7	-83.90	389.6	-2,207.6	1,253.6	1,211.9	41.62	30.120	
11,750.0	11,566.0	11,843.1	11,522.9	28.4	14.7	-83.96	401.3	-2,206.2	1,251.2	1,209.4	41.71	29.999	
11,775.0	11,577.4	11,855.0	11,523.8	28.4	14.7	-84.01	413.2	-2,204.8	1,248.9	1,207.1	41.80	29.880	
11,780.0	11,579.5	11,857.4	11,524.0	28.4	14.7	-84.02	415.6	-2,204.5	1,248.4	1,206.6	41.82	29.856	
11,800.0	11,587.6	11,884.0	11,525.1	28.5	14.7	-83.79	442.0	-2,201.8	1,247.0	1,205.1	41.89	29.765	
11,825.0	11,596.5	11,884.0	11,525.1	28.5	14.7	-84.06	442.0	-2,201.8	1,244.8	1,202.8	41.98	29.649	
11,850.0	11,604.3	11,884.0	11,525.1	28.5	14.7	-84.28	442.0	-2,201.8	1,242.9	1,200.8	42.07	29.545	
11,875.0	11,610.7	11,884.0	11,525.1	28.5	14.7	-84.45	442.0	-2,201.8	1,241.4	1,199.3	42.15	29.454	
11,900.0	11,616.0	11,916.1	11,526.0	28.5	14.7	-84.34	473.9	-2,199.3	1,239.5	1,197.2	42.30	29.300	
11,925.0	11,619.9	11,928.6	11,526.3	28.5	14.7	-84.44	486.5	-2,198.5	1,238.0	1,195.6	42.41	29.192	
11,950.0	11,622.5	11,941.3	11,526.6	28.6	14.7	-84.55	499.1	-2,197.8	1,236.7	1,194.2	42.51	29.089	
11,970.0	11,623.7	11,951.4	11,526.9	28.6	14.8	-84.65	509.2	-2,197.4	1,235.7	1,193.1	42.59	29.012	
11,975.0	11,623.8	11,953.9	11,527.0	28.6	14.8	-84.68	511.7	-2,197.3	1,235.5	1,192.8	42.61	28.993	
11,987.8	11,624.0	11,980.0	11,527.7	28.6	14.8	-84.77	537.8	-2,196.5	1,235.2	1,192.5	42.71	28.918	
12,000.0	11,624.0	11,980.0	11,527.7	28.6	14.8	-84.77	537.8	-2,196.5	1,234.5	1,191.8	42.74	28.882	
12,065.0	11,624.0	12,012.5	11,528.3	28.7	14.8	-84.80	570.3	-2,196.0	1,232.5	1,189.5	42.95	28.698	
12,100.0	11,624.0	12,042.0	11,528.3	28.7	14.8	-84.79	599.7	-2,195.7	1,231.7	1,188.6	43.07	28.599	
12,160.0	11,624.0	12,095.7	11,527.1	28.8	14.8	-84.73	653.4	-2,195.2	1,230.7	1,187.4	43.30	28.421	
12,200.0	11,624.0	12,135.3	11,525.9	28.9	14.9	-84.68	693.1	-2,194.9	1,230.2	1,186.7	43.48	28.295	
12,255.0	11,624.0	12,188.6	11,524.3	28.9	14.9	-84.60	746.3	-2,194.5	1,229.4	1,185.7	43.73	28.115	
12,300.0	11,624.0	12,230.7	11,522.8	29.0	15.0	-84.53	788.3	-2,194.3	1,228.9	1,185.0	43.94	27.967	
12,350.0	11,624.0	12,275.1	11,521.1	29.1	15.1	-84.44	832.7	-2,194.1	1,228.5	1,184.3	44.19	27.802	
12,379.7	11,624.0	12,298.0	11,520.3	29.2	15.1	-84.41	855.7	-2,194.2	1,228.4	1,184.1	44.33	27.709	
12,400.0	11,624.0	12,313.7	11,519.9	29.2	15.1	-84.39	871.4	-2,194.3	1,228.5	1,184.0	44.43	27.648	
12,445.0	11,624.0	12,356.0	11,519.0	29.3	15.2	-84.35	913.6	-2,195.0	1,228.8	1,184.2	44.68	27.505	
12,500.0	11,624.0	12,400.8	11,518.3	29.4	15.4	-84.32	958.4	-2,196.0	1,229.6	1,184.6	44.97	27.345	
12,540.0	11,624.0	12,440.3	11,517.4	29.5	15.5	-84.28	997.9	-2,196.8	1,230.2	1,185.0	45.20	27.214	
12,600.0	11,624.0	12,491.2	11,516.2	29.6	15.7	-84.23	1,048.7	-2,198.0	1,231.2	1,185.7	45.55	27.032	
12,635.0	11,624.0	12,519.8	11,515.8	29.7	15.8	-84.21	1,077.3	-2,199.0	1,232.1	1,186.3	45.75	26.930	
12,700.0	11,624.0	12,580.5	11,515.2	29.8	16.0	-84.19	1,138.0	-2,201.3	1,234.1	1,187.9	46.16	26.735	
12,730.0	11,624.0	12,612.0	11,514.8	29.9	16.1	-84.18	1,169.4	-2,202.5	1,235.0	1,188.6	46.37	26.634	
12,800.0	11,624.0	12,691.7	11,513.3	30.1	16.5	-84.12	1,249.1	-2,205.2	1,236.8	1,189.9	46.89	26.377	
12,825.0	11,624.0	12,721.5	11,512.7	30.2	16.6	-84.09	1,278.9	-2,206.0	1,237.3	1,190.2	47.09	26.277	
12,900.0	11,624.0	12,785.0	11,511.9	30.4	16.9	-84.06	1,342.3	-2,207.8	1,238.9	1,191.3	47.60	26.027	
12,920.0	11,624.0	12,800.8	11,511.8	30.4	17.0	-84.06	1,358.2	-2,208.5	1,239.5	1,191.7	47.74	25.965	
13,000.0	11,624.0	12,875.3	11,512.7	30.7	17.3	-84.11	1,432.5	-2,211.8	1,242.2	1,193.9	48.33	25.705	
13,015.0	11,624.0	12,890.6	11,512.9	30.7	17.4	-84.13	1,447.8	-2,212.5	1,242.8	1,194.3	48.45	25.653	
13,100.0	11,624.0	12,996.7	11,514.6	31.0	17.9	-84.22	1,553.8	-2,216.7	1,245.2	1,196.0	49.21	25.305	
13,110.0	11,624.0	13,010.4	11,514.7	31.0	18.0	-84.22	1,567.5	-2,217.0	1,245.4	1,196.1	49.30	25.259	
13,200.0	11,624.0	13,101.0	11,514.7	31.3	18.5	-84.23	1,658.1	-2,219.1	1,246.6	1,196.6	50.06	24.903	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 100-Standard Keeper 104, 10837-r.5 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			
13,205.0	11,624.0	13,105.9	11,514.6	31.3	18.5	-84.23	1,663.0	-2,219.2	1,246.7	1,196.6	50.10	24.883			
13,300.0	11,624.0	13,192.4	11,514.6	31.6	19.0	-84.23	1,749.5	-2,221.5	1,248.4	1,197.5	50.89	24.529			
13,395.0	11,624.0	13,301.9	11,515.0	31.9	19.6	-84.26	1,858.9	-2,224.3	1,249.9	1,198.1	51.80	24.129			
13,400.0	11,624.0	13,307.7	11,515.0	32.0	19.6	-84.26	1,864.7	-2,224.5	1,250.0	1,198.1	51.85	24.107			
13,490.0	11,624.0	13,405.8	11,515.4	32.3	20.2	-84.28	1,962.8	-2,225.7	1,250.3	1,197.5	52.71	23.717			
13,500.0	11,624.0	13,413.7	11,515.5	32.3	20.2	-84.28	1,970.7	-2,225.8	1,250.3	1,197.5	52.80	23.680			
13,585.0	11,624.0	13,484.0	11,516.0	32.6	20.6	-84.31	2,041.0	-2,227.3	1,251.2	1,197.7	53.55	23.367			
13,600.0	11,624.0	13,495.3	11,516.1	32.7	20.7	-84.32	2,052.3	-2,227.7	1,251.5	1,197.8	53.67	23.317			
13,680.0	11,624.0	13,576.2	11,516.2	33.0	21.2	-84.33	2,133.1	-2,229.9	1,253.0	1,198.5	54.46	23.008			
13,700.0	11,624.0	13,595.8	11,516.0	33.1	21.3	-84.32	2,152.7	-2,230.4	1,253.3	1,198.7	54.65	22.933			
13,775.0	11,624.0	13,669.1	11,515.5	33.4	21.7	-84.31	2,226.0	-2,232.4	1,254.8	1,199.4	55.40	22.651			
13,800.0	11,624.0	13,694.1	11,515.4	33.5	21.9	-84.30	2,251.0	-2,233.2	1,255.3	1,199.6	55.65	22.557			
13,870.0	11,624.0	13,764.5	11,515.3	33.8	22.3	-84.30	2,321.4	-2,235.2	1,256.6	1,200.3	56.36	22.295			
13,900.0	11,624.0	13,796.0	11,515.3	33.9	22.5	-84.31	2,352.9	-2,236.0	1,257.2	1,200.5	56.68	22.181			
13,965.0	11,624.0	13,864.7	11,514.4	34.2	22.9	-84.27	2,421.6	-2,237.7	1,258.3	1,200.9	57.38	21.930			
14,000.0	11,624.0	13,894.2	11,513.8	34.3	23.1	-84.25	2,451.0	-2,238.5	1,258.9	1,201.2	57.72	21.810			
14,060.0	11,624.0	13,944.9	11,512.7	34.6	23.4	-84.20	2,501.6	-2,240.0	1,260.3	1,202.0	58.31	21.612			
14,100.0	11,624.0	13,979.9	11,511.8	34.8	23.6	-84.17	2,536.7	-2,241.2	1,261.4	1,202.7	58.72	21.483			
14,155.0	11,624.0	14,029.0	11,510.8	35.0	23.9	-84.13	2,585.7	-2,243.2	1,263.3	1,204.0	59.28	21.309			
14,200.0	11,624.0	14,076.8	11,509.9	35.2	24.3	-84.09	2,633.5	-2,245.3	1,264.9	1,205.1	59.79	21.156			
14,250.0	11,624.0	14,138.3	11,508.6	35.5	24.6	-84.04	2,694.9	-2,247.5	1,266.3	1,205.9	60.40	20.965			
14,300.0	11,624.0	14,198.7	11,506.8	35.7	25.0	-83.97	2,755.3	-2,249.1	1,267.3	1,206.3	61.01	20.773			
14,345.0	11,624.0	14,249.2	11,504.8	35.9	25.4	-83.88	2,805.8	-2,250.0	1,267.9	1,206.4	61.54	20.602			
14,400.0	11,624.0	14,300.2	11,503.5	36.2	25.7	-83.82	2,856.6	-2,251.0	1,268.6	1,206.5	62.14	20.415			
14,440.0	11,624.0	14,338.7	11,503.1	36.4	26.0	-83.81	2,895.2	-2,251.9	1,269.3	1,206.7	62.59	20.280			
14,500.0	11,624.0	14,407.9	11,502.7	36.6	26.4	-83.79	2,964.4	-2,253.4	1,270.0	1,206.7	63.31	20.059			
14,535.0	11,624.0	14,448.1	11,502.3	36.8	26.7	-83.78	3,004.6	-2,254.0	1,270.2	1,206.5	63.74	19.929			
14,600.0	11,624.0	14,522.6	11,502.1	37.1	27.2	-83.77	3,079.0	-2,254.7	1,270.3	1,205.8	64.53	19.686			
14,630.0	11,624.0	14,556.0	11,502.3	37.3	27.4	-83.78	3,112.4	-2,254.9	1,270.2	1,205.3	64.89	19.575			
14,700.0	11,624.0	14,632.3	11,504.3	37.6	27.9	-83.87	3,188.7	-2,255.1	1,269.6	1,203.9	65.72	19.318			
14,725.0	11,624.0	14,657.8	11,505.4	37.8	28.1	-83.91	3,214.2	-2,255.2	1,269.3	1,203.3	66.02	19.228			
14,800.0	11,624.0	14,729.3	11,509.0	38.1	28.6	-84.07	3,285.6	-2,255.5	1,268.5	1,201.7	66.87	18.969			
14,820.0	11,624.0	14,745.7	11,510.0	38.2	28.7	-84.12	3,302.0	-2,255.6	1,268.4	1,201.3	67.09	18.905			
14,855.5	11,624.0	14,774.8	11,511.9	38.4	28.9	-84.20	3,331.0	-2,256.0	1,268.3	1,200.8	67.48	18.795			
14,900.0	11,624.0	14,818.4	11,515.1	38.7	29.2	-84.35	3,374.5	-2,256.8	1,268.4	1,200.4	68.00	18.653			
14,915.0	11,624.0	14,841.4	11,516.8	38.7	29.3	-84.43	3,397.5	-2,257.2	1,268.4	1,200.2	68.21	18.595			
15,000.0	11,624.0	14,978.8	11,523.4	39.2	30.3	-84.71	3,534.6	-2,255.5	1,266.3	1,196.9	69.41	18.244			
15,010.0	11,624.0	14,995.6	11,523.7	39.2	30.4	-84.72	3,551.4	-2,254.9	1,265.8	1,196.2	69.54	18.201			
15,100.0	11,624.0	15,126.0	11,521.4	39.7	31.3	-84.57	3,681.5	-2,246.5	1,259.2	1,188.5	70.72	17.807			
15,105.0	11,624.0	15,131.7	11,521.2	39.7	31.3	-84.56	3,687.2	-2,246.1	1,258.8	1,188.0	70.78	17.786			
15,200.0	11,624.0	15,216.6	11,518.8	40.2	31.9	-84.42	3,771.7	-2,239.4	1,250.8	1,178.8	71.93	17.388			
15,295.0	11,624.0	15,286.9	11,518.9	40.8	32.4	-84.41	3,841.9	-2,235.4	1,244.5	1,171.4	73.07	17.031			
15,300.0	11,624.0	15,291.1	11,519.0	40.8	32.4	-84.41	3,846.1	-2,235.2	1,244.2	1,171.1	73.13	17.014			
15,390.0	11,624.0	15,366.1	11,521.0	41.3	32.9	-84.49	3,921.0	-2,232.2	1,239.6	1,165.4	74.21	16.705			
15,400.0	11,624.0	15,382.8	11,521.5	41.3	33.1	-84.51	3,937.8	-2,231.6	1,239.2	1,164.8	74.35	16.667			
15,485.0	11,624.0	15,485.5	11,521.0	41.8	33.8	-84.45	4,040.3	-2,225.9	1,233.6	1,158.1	75.46	16.347			
15,500.0	11,624.0	15,495.4	11,521.0	41.9	33.9	-84.45	4,050.1	-2,225.3	1,232.6	1,157.0	75.65	16.295			
15,580.0	11,624.0	15,554.0	11,521.8	42.4	34.3	-84.47	4,108.7	-2,223.1	1,228.7	1,152.1	76.62	16.036			
15,600.0	11,624.0	15,571.1	11,522.3	42.5	34.4	-84.49	4,125.7	-2,222.7	1,227.9	1,151.1	76.87	15.975			
15,675.0	11,624.0	15,668.9	11,521.9	42.9	35.1	-84.45	4,223.4	-2,218.2	1,223.8	1,145.9	77.88	15.715			
15,700.0	11,624.0	15,688.7	11,521.6	43.0	35.2	-84.44	4,243.2	-2,217.3	1,222.4	1,144.2	78.18	15.634			
15,770.0	11,624.0	15,743.0	11,521.3	43.5	35.6	-84.41	4,297.5	-2,215.0	1,218.9	1,139.9	79.05	15.421			

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 10837-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,800.0	11,624.0	15,772.8	11,521.2	43.6	35.8	-84.40	4,327.2	-2,214.0	1,217.6	1,138.2	79.43	15.330	
15,865.0	11,624.0	15,833.8	11,521.2	44.0	36.2	-84.39	4,388.3	-2,212.1	1,215.0	1,134.7	80.25	15.140	
15,900.0	11,624.0	15,873.2	11,521.2	44.2	36.5	-84.38	4,427.6	-2,210.8	1,213.6	1,132.9	80.71	15.036	
15,960.0	11,624.0	15,932.0	11,521.1	44.6	36.9	-84.36	4,486.4	-2,208.7	1,210.8	1,129.4	81.49	14.860	
16,000.0	11,624.0	15,961.4	11,521.1	44.8	37.2	-84.35	4,515.7	-2,207.7	1,209.3	1,127.3	81.98	14.750	
16,055.0	11,624.0	15,994.6	11,521.2	45.1	37.4	-84.36	4,549.0	-2,207.2	1,207.9	1,125.3	82.64	14.618	
16,100.0	11,624.0	16,025.0	11,521.5	45.4	37.6	-84.37	4,579.4	-2,207.3	1,207.6	1,124.4	83.17	14.520	
16,103.3	11,624.0	16,025.0	11,521.5	45.4	37.6	-84.37	4,579.4	-2,207.3	1,207.6	1,124.4	83.20	14.515	
16,150.0	11,624.0	16,063.4	11,522.0	45.7	37.9	-84.39	4,617.8	-2,207.9	1,207.8	1,124.0	83.77	14.418	
16,200.0	11,624.0	16,106.3	11,522.4	46.0	38.2	-84.42	4,660.7	-2,208.8	1,208.3	1,123.9	84.38	14.319	
16,245.0	11,624.0	16,158.7	11,522.9	46.3	38.6	-84.44	4,713.0	-2,209.9	1,208.8	1,123.8	85.01	14.219	
16,300.0	11,624.0	16,225.1	11,523.0	46.6	39.1	-84.45	4,779.4	-2,210.5	1,208.8	1,123.0	85.79	14.090	
16,325.4	11,624.0	16,247.0	11,523.0	46.7	39.2	-84.45	4,801.3	-2,210.7	1,208.8	1,122.7	86.11	14.037	
16,340.0	11,624.0	16,259.7	11,523.0	46.8	39.3	-84.45	4,814.0	-2,210.8	1,208.8	1,122.5	86.30	14.007	
16,400.0	11,624.0	16,313.8	11,523.3	47.2	39.7	-84.46	4,868.1	-2,211.6	1,209.1	1,122.0	87.06	13.888	
16,435.0	11,624.0	16,359.0	11,523.5	47.4	40.0	-84.47	4,913.3	-2,212.1	1,209.2	1,121.6	87.57	13.807	
16,476.8	11,624.0	16,412.9	11,523.8	47.7	40.4	-84.48	4,967.2	-2,212.3	1,208.9	1,120.7	88.18	13.709	
16,500.0	11,624.0	16,402.0	11,523.7	47.8	40.3	-84.48	4,956.3	-2,212.3	1,209.1	1,120.7	88.32	13.689	
16,507.7	11,624.0	16,423.4	11,523.8	47.9	40.5	-84.49	4,977.7	-2,212.4	1,208.9	1,120.3	88.51	13.658	
16,530.0	11,624.0	16,435.6	11,523.9	48.0	40.6	-84.49	4,989.9	-2,212.7	1,209.1	1,120.3	88.76	13.622	
16,600.0	11,624.0	16,473.6	11,524.0	48.4	40.9	-84.50	5,027.9	-2,214.0	1,210.9	1,121.4	89.51	13.528	
16,625.0	11,624.0	16,496.0	11,524.1	48.6	41.1	-84.51	5,050.2	-2,215.3	1,212.1	1,122.2	89.84	13.491	
16,700.0	11,624.0	16,546.1	11,523.8	49.1	41.4	-84.51	5,100.2	-2,218.7	1,216.3	1,125.7	90.65	13.417	
16,720.0	11,624.0	16,563.1	11,523.5	49.2	41.5	-84.50	5,117.1	-2,219.9	1,217.6	1,126.7	90.90	13.395	
16,800.0	11,624.0	16,639.1	11,521.1	49.7	42.1	-84.41	5,192.9	-2,225.5	1,223.0	1,131.0	91.95	13.301	
16,815.0	11,624.0	16,654.3	11,520.4	49.8	42.2	-84.38	5,208.1	-2,226.6	1,224.0	1,131.9	92.15	13.283	
16,900.0	11,624.0	16,799.3	11,511.5	50.3	43.3	-83.99	5,352.6	-2,233.6	1,227.9	1,134.1	93.78	13.093	
16,910.0	11,624.0	16,809.6	11,510.9	50.4	43.3	-83.96	5,362.9	-2,233.8	1,228.1	1,134.2	93.92	13.076	
17,000.0	11,624.0	16,912.7	11,505.2	50.9	44.1	-83.71	5,465.8	-2,235.8	1,229.6	1,134.3	95.23	12.912	
17,005.0	11,624.0	16,919.6	11,504.9	51.0	44.1	-83.69	5,472.7	-2,235.8	1,229.6	1,134.3	95.31	12.901	
17,100.0	11,624.0	17,050.1	11,499.9	51.6	45.1	-83.45	5,603.1	-2,234.7	1,228.1	1,131.3	96.76	12.692	
17,195.0	11,624.0	17,141.4	11,498.5	52.2	45.8	-83.37	5,694.3	-2,232.7	1,225.4	1,127.3	98.05	12.497	
17,200.0	11,624.0	17,156.0	11,498.5	52.2	45.9	-83.37	5,709.0	-2,232.6	1,225.4	1,127.2	98.15	12.484	
17,290.0	11,624.0	17,232.8	11,499.0	52.8	46.4	-83.38	5,785.8	-2,232.1	1,223.9	1,124.5	99.34	12.320	
17,300.0	11,624.0	17,243.0	11,499.1	52.9	46.5	-83.39	5,796.0	-2,232.0	1,223.7	1,124.2	99.48	12.301	
17,370.2	11,624.0	17,293.1	11,500.1	53.3	46.9	-83.43	5,846.0	-2,232.1	1,223.1	1,122.7	100.36	12.186	
17,385.0	11,624.0	17,303.2	11,500.4	53.4	47.0	-83.44	5,856.1	-2,232.3	1,223.1	1,122.5	100.55	12.164	
17,400.0	11,624.0	17,313.4	11,500.7	53.5	47.0	-83.46	5,866.3	-2,232.5	1,223.2	1,122.4	100.73	12.143	
17,480.0	11,624.0	17,413.2	11,503.3	54.0	47.8	-83.58	5,966.1	-2,233.5	1,223.0	1,121.0	101.94	11.997	
17,500.0	11,624.0	17,463.2	11,503.6	54.1	48.2	-83.59	6,016.0	-2,232.9	1,222.5	1,120.2	102.32	11.948	
17,575.0	11,624.0	17,531.0	11,502.5	54.6	48.7	-83.53	6,083.8	-2,231.4	1,220.3	1,117.0	103.34	11.809	
17,600.0	11,624.0	17,552.3	11,502.0	54.8	48.8	-83.50	6,105.1	-2,231.0	1,219.7	1,116.1	103.67	11.765	
17,670.0	11,624.0	17,619.5	11,500.2	55.3	49.3	-83.41	6,172.3	-2,229.9	1,218.1	1,113.5	104.64	11.641	
17,700.0	11,624.0	17,649.7	11,499.3	55.5	49.5	-83.36	6,202.5	-2,229.4	1,217.5	1,112.4	105.05	11.589	
17,765.0	11,624.0	17,715.6	11,497.4	55.9	50.0	-83.26	6,268.3	-2,228.3	1,216.0	1,110.1	105.96	11.476	
17,800.0	11,624.0	17,749.4	11,496.4	56.1	50.2	-83.21	6,302.1	-2,227.7	1,215.3	1,108.8	106.45	11.417	
17,860.0	11,624.0	17,807.4	11,494.4	56.5	50.7	-83.11	6,360.0	-2,226.8	1,214.0	1,106.7	107.28	11.316	
17,900.0	11,624.0	17,844.1	11,493.3	56.8	50.9	-83.06	6,396.7	-2,226.3	1,213.3	1,105.4	107.83	11.252	
17,955.0	11,624.0	17,894.6	11,493.1	57.1	51.3	-83.04	6,447.2	-2,226.0	1,212.4	1,103.9	108.58	11.166	
18,000.0	11,624.0	17,938.3	11,493.8	57.4	51.6	-83.07	6,490.9	-2,225.9	1,211.9	1,102.7	109.20	11.098	
18,050.0	11,624.0	17,987.5	11,495.0	57.8	52.0	-83.12	6,540.1	-2,225.9	1,211.3	1,101.4	109.89	11.022	
18,100.0	11,624.0	18,038.1	11,496.5	58.1	52.4	-83.19	6,590.6	-2,225.9	1,210.7	1,100.1	110.59	10.947	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 10837-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,145.0	11,624.0	18,083.8	11,498.0	58.4	52.7	-83.26	6,636.4	-2,226.0	1,210.1	1,098.9	111.22	10.880	
18,200.0	11,624.0	18,140.9	11,500.1	58.8	53.1	-83.35	6,693.4	-2,225.9	1,209.4	1,097.4	111.99	10.799	
18,240.0	11,624.0	18,182.4	11,501.6	59.0	53.4	-83.43	6,734.9	-2,225.9	1,208.8	1,096.2	112.55	10.739	
18,300.0	11,624.0	18,240.0	11,504.0	59.4	53.8	-83.54	6,792.4	-2,225.8	1,207.9	1,094.5	113.38	10.653	
18,335.0	11,624.0	18,273.5	11,505.6	59.7	54.1	-83.61	6,825.9	-2,225.9	1,207.4	1,093.5	113.87	10.604	
18,400.0	11,624.0	18,345.8	11,509.3	60.1	54.6	-83.78	6,898.2	-2,225.8	1,206.4	1,091.6	114.80	10.509	
18,430.0	11,624.0	18,372.0	11,510.6	60.3	54.8	-83.84	6,924.3	-2,225.7	1,205.9	1,090.7	115.20	10.467	
18,500.0	11,624.0	18,424.2	11,512.7	60.8	55.2	-83.94	6,976.5	-2,225.8	1,205.2	1,089.0	116.12	10.379	
18,501.7	11,624.0	18,425.4	11,512.8	60.8	55.2	-83.94	6,977.6	-2,225.9	1,205.2	1,089.0	116.14	10.377	
18,525.0	11,624.0	18,441.3	11,513.2	61.0	55.3	-83.96	6,993.5	-2,226.1	1,205.2	1,088.8	116.43	10.351	
18,600.0	11,624.0	18,518.2	11,514.9	61.5	55.9	-84.05	7,070.4	-2,227.8	1,206.0	1,088.5	117.50	10.264	
18,620.0	11,624.0	18,545.2	11,515.6	61.6	56.1	-84.08	7,097.4	-2,228.1	1,206.1	1,088.2	117.82	10.237	
18,700.0	11,624.0	18,640.7	11,518.2	62.1	56.8	-84.20	7,192.9	-2,228.5	1,205.4	1,086.4	119.01	10.129	
18,715.0	11,624.0	18,658.2	11,518.8	62.2	56.9	-84.23	7,210.4	-2,228.4	1,205.2	1,085.9	119.23	10.108	
18,758.8	11,624.0	18,682.6	11,519.4	62.5	57.1	-84.26	7,234.7	-2,228.6	1,204.8	1,085.1	119.77	10.059	
18,800.0	11,624.0	18,707.0	11,519.8	62.8	57.3	-84.28	7,259.1	-2,229.0	1,205.1	1,084.8	120.27	10.020	
18,810.0	11,624.0	18,712.9	11,519.9	62.9	57.3	-84.28	7,265.0	-2,229.2	1,205.3	1,084.9	120.39	10.011	
18,900.0	11,624.0	18,776.5	11,520.0	63.5	57.8	-84.29	7,328.6	-2,231.8	1,208.1	1,086.6	121.49	9.944	
18,905.0	11,624.0	18,781.3	11,520.0	63.5	57.9	-84.29	7,333.3	-2,232.0	1,208.3	1,086.7	121.56	9.940	
19,000.0	11,624.0	18,878.2	11,519.4	64.2	58.6	-84.29	7,430.1	-2,236.8	1,212.1	1,089.2	122.93	9.860	
19,095.0	11,624.0	18,976.1	11,517.4	64.8	59.3	-84.21	7,528.0	-2,240.8	1,215.3	1,091.0	124.32	9.776	
19,100.0	11,624.0	18,980.5	11,517.3	64.9	59.3	-84.20	7,532.3	-2,241.0	1,215.5	1,091.1	124.38	9.772	
19,190.0	11,624.0	19,058.0	11,516.0	65.5	59.9	-84.15	7,609.7	-2,244.7	1,219.1	1,093.6	125.57	9.709	
19,200.0	11,624.0	19,066.4	11,515.9	65.6	60.0	-84.15	7,618.1	-2,245.2	1,219.6	1,093.9	125.70	9.703	
19,285.0	11,624.0	19,139.4	11,516.0	66.1	60.5	-84.18	7,690.9	-2,249.7	1,224.1	1,097.3	126.80	9.654	
19,300.0	11,624.0	19,153.7	11,516.2	66.2	60.6	-84.19	7,705.2	-2,250.7	1,224.9	1,097.9	127.01	9.645	
19,380.0	11,624.0	19,229.8	11,516.8	66.8	61.2	-84.24	7,781.1	-2,256.0	1,229.7	1,101.6	128.12	9.598	
19,400.0	11,624.0	19,248.3	11,516.9	66.9	61.3	-84.25	7,799.6	-2,257.3	1,230.9	1,102.5	128.39	9.587	
19,475.0	11,624.0	19,316.0	11,517.8	67.5	61.8	-84.31	7,867.1	-2,262.3	1,235.7	1,106.3	129.39	9.550	
19,500.0	11,624.0	19,337.8	11,518.1	67.6	62.0	-84.33	7,888.8	-2,264.1	1,237.4	1,107.7	129.71	9.540	
19,570.0	11,624.0	19,394.1	11,519.1	68.1	62.4	-84.40	7,944.9	-2,268.9	1,242.7	1,112.1	130.56	9.518	
19,600.0	11,624.0	19,419.1	11,519.5	68.3	62.6	-84.43	7,969.8	-2,271.3	1,245.2	1,114.3	130.93	9.510	
19,665.0	11,624.0	19,477.3	11,519.8	68.8	63.1	-84.46	8,027.7	-2,277.0	1,250.9	1,119.1	131.78	9.492	
19,700.0	11,624.0	19,513.9	11,519.2	69.0	63.3	-84.45	8,064.2	-2,280.6	1,254.1	1,121.8	132.31	9.478	
19,760.0	11,624.0	19,623.3	11,512.4	69.4	64.2	-84.17	8,173.0	-2,288.4	1,258.1	1,124.3	133.75	9.407	
19,800.0	11,624.0	19,682.9	11,506.4	69.7	64.6	-83.91	8,232.2	-2,290.8	1,259.8	1,125.3	134.50	9.366	
19,855.0	11,624.0	19,814.6	11,492.4	70.1	65.6	-83.27	8,363.2	-2,290.9	1,260.0	1,124.2	135.71	9.284	
19,900.0	11,624.0	19,897.7	11,486.0	70.4	66.2	-82.96	8,445.9	-2,287.5	1,258.1	1,121.7	136.39	9.224	
19,950.0	11,624.0	19,945.9	11,484.4	70.8	66.6	-82.87	8,494.1	-2,285.2	1,255.5	1,118.4	137.12	9.156	
20,000.0	11,624.0	20,004.9	11,484.4	71.1	67.0	-82.85	8,553.0	-2,282.3	1,252.6	1,114.8	137.82	9.089	
20,045.0	11,624.0	20,064.6	11,484.2	71.4	67.5	-82.82	8,612.6	-2,278.7	1,249.6	1,111.1	138.44	9.026	
20,100.0	11,624.0	20,121.8	11,484.6	71.8	67.9	-82.81	8,669.7	-2,275.0	1,245.4	1,106.2	139.22	8.946	
20,140.0	11,624.0	20,161.9	11,486.1	72.1	68.2	-82.87	8,709.6	-2,272.5	1,242.4	1,102.6	139.79	8.888	
20,200.0	11,624.0	20,233.7	11,489.9	72.5	68.7	-83.01	8,781.2	-2,267.8	1,237.6	1,097.0	140.60	8.802	
20,235.0	11,624.0	20,262.0	11,491.1	72.8	68.9	-83.05	8,809.4	-2,265.7	1,234.6	1,093.4	141.13	8.748	
20,300.0	11,624.0	20,317.6	11,493.8	73.2	69.3	-83.15	8,864.8	-2,262.0	1,229.4	1,087.3	142.09	8.652	
20,330.0	11,624.0	20,339.3	11,495.1	73.4	69.5	-83.20	8,886.5	-2,260.8	1,227.3	1,084.7	142.55	8.610	
20,400.0	11,624.0	20,413.3	11,499.2	73.9	70.0	-83.37	8,960.2	-2,257.2	1,222.8	1,079.2	143.54	8.519	
20,425.0	11,624.0	20,443.7	11,500.3	74.1	70.2	-83.41	8,990.6	-2,255.4	1,221.0	1,077.1	143.88	8.486	
20,500.0	11,624.0	20,499.0	11,501.8	74.6	70.7	-83.46	9,045.8	-2,252.4	1,216.0	1,071.0	145.01	8.386	
20,520.0	11,624.0	20,513.1	11,502.2	74.8	70.8	-83.48	9,059.8	-2,251.8	1,214.9	1,069.6	145.31	8.361	
20,600.0	11,624.0	20,582.6	11,504.1	75.3	71.3	-83.55	9,129.3	-2,249.5	1,211.3	1,064.8	146.47	8.270	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #5H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 10837-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
20,615.0	11,624.0	20,598.7	11,504.5	75.4	71.4	-83.57	9,145.3	-2,248.9	1,210.6	1,063.9	146.69	8.253	
20,700.0	11,624.0	20,668.2	11,505.9	76.0	71.9	-83.62	9,214.8	-2,246.7	1,207.0	1,059.1	147.91	8.160	
20,710.0	11,624.0	20,674.5	11,506.0	76.1	72.0	-83.62	9,221.1	-2,246.6	1,206.7	1,058.6	148.05	8.150	
20,800.0	11,624.0	20,732.0	11,506.7	76.7	72.4	-83.65	9,278.6	-2,246.3	1,205.3	1,056.0	149.27	8.074	
20,805.0	11,624.0	20,735.8	11,506.7	76.8	72.4	-83.65	9,282.5	-2,246.3	1,205.3	1,055.9	149.34	8.071	
20,900.0	11,624.0	20,847.7	11,506.1	77.5	73.3	-83.62	9,394.3	-2,246.3	1,204.4	1,053.6	150.79	7.987	
20,995.0	11,624.0	20,956.1	11,503.4	78.1	74.1	-83.47	9,502.6	-2,244.8	1,202.6	1,050.3	152.21	7.901	
21,000.0	11,624.0	20,962.3	11,503.3	78.2	74.1	-83.47	9,508.8	-2,244.7	1,202.4	1,050.1	152.29	7.896	
21,090.0	11,624.0	21,060.1	11,502.8	78.8	74.9	-83.43	9,606.6	-2,242.2	1,199.4	1,045.8	153.61	7.808	
21,100.0	11,624.0	21,069.5	11,502.8	78.9	74.9	-83.43	9,616.0	-2,242.0	1,199.1	1,045.3	153.75	7.799	
21,185.0	11,624.0	21,161.6	11,502.9	79.5	75.6	-83.41	9,708.1	-2,239.7	1,196.2	1,041.2	155.00	7.718	
21,200.0	11,624.0	21,180.1	11,502.8	79.6	75.8	-83.41	9,726.6	-2,239.1	1,195.6	1,040.4	155.21	7.703	
21,280.0	11,624.0	21,264.2	11,502.2	80.2	76.4	-83.35	9,810.6	-2,235.9	1,191.9	1,035.5	156.38	7.622	
21,300.0	11,624.0	21,284.0	11,502.0	80.3	76.5	-83.34	9,830.4	-2,235.2	1,191.0	1,034.3	156.67	7.602	
21,375.0	11,624.0	21,368.5	11,501.0	80.8	77.2	-83.27	9,914.9	-2,231.7	1,187.4	1,029.6	157.76	7.527	
21,400.0	11,624.0	21,397.7	11,500.5	81.0	77.4	-83.23	9,943.9	-2,230.3	1,186.0	1,027.8	158.11	7.501	
21,470.0	11,624.0	21,441.9	11,500.7	81.5	77.7	-83.23	9,988.1	-2,228.7	1,182.7	1,023.6	159.17	7.431	
21,500.0	11,624.0	21,461.3	11,501.5	81.7	77.9	-83.27	10,007.5	-2,228.3	1,181.8	1,022.2	159.60	7.405	
21,565.0	11,624.0	21,506.8	11,504.4	82.2	78.2	-83.41	10,053.0	-2,228.3	1,180.7	1,020.2	160.50	7.356	
21,600.0	11,624.0	21,535.4	11,506.3	82.4	78.4	-83.49	10,081.5	-2,228.6	1,180.4	1,019.4	160.98	7.333	
21,629.6	11,624.0	21,559.6	11,507.6	82.7	78.6	-83.56	10,105.6	-2,228.9	1,180.4	1,019.0	161.39	7.314 CC	
21,660.0	11,624.0	21,585.0	11,508.9	82.9	78.8	-83.62	10,131.0	-2,229.3	1,180.4	1,018.6	161.81	7.295	
21,700.0	11,624.0	21,621.7	11,510.5	83.2	79.1	-83.70	10,167.6	-2,230.0	1,180.7	1,018.3	162.37	7.271	
21,755.0	11,624.0	21,672.9	11,512.8	83.6	79.4	-83.82	10,218.8	-2,231.2	1,181.2	1,018.0	163.15	7.240	
21,800.0	11,624.0	21,714.1	11,514.0	83.9	79.8	-83.88	10,259.9	-2,232.2	1,181.7	1,017.9	163.79	7.215 ES	
21,850.0	11,624.0	21,759.7	11,513.5	84.2	80.1	-83.86	10,305.6	-2,233.3	1,182.5	1,018.0	164.49	7.188	
21,900.0	11,624.0	21,808.4	11,511.4	84.6	80.5	-83.76	10,354.1	-2,234.4	1,183.4	1,018.2	165.22	7.162	
21,945.0	11,624.0	21,853.4	11,509.4	84.9	80.8	-83.67	10,399.1	-2,235.4	1,184.2	1,018.3	165.89	7.138	
22,000.0	11,624.0	21,906.5	11,506.9	85.3	81.2	-83.55	10,452.2	-2,236.6	1,185.3	1,018.6	166.69	7.110	
22,040.0	11,624.0	21,946.0	11,505.0	85.6	81.5	-83.46	10,491.6	-2,237.6	1,186.1	1,018.8	167.28	7.090	
22,049.9	11,624.0	21,955.9	11,504.5	85.7	81.6	-83.44	10,501.5	-2,237.8	1,186.3	1,018.9	167.43	7.085	
22,050.7	11,624.0	21,956.6	11,504.4	85.7	81.6	-83.44	10,502.2	-2,237.8	1,186.3	1,018.9	167.44	7.085 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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - OWB - AWP (PH)													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11212-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,980.0	7,888.8	8,229.4	8,121.3	27.4	10.5	-77.02	289.5	-2,230.7	1,318.1	1,281.8	36.26	36.354	
8,000.0	7,908.8	8,249.8	8,141.3	27.4	10.5	-77.09	287.1	-2,227.8	1,314.8	1,278.5	36.29	36.227	
8,075.0	7,983.8	8,335.3	8,225.4	27.4	10.7	-77.36	278.1	-2,214.9	1,302.0	1,265.6	36.39	35.775	
8,100.0	8,008.8	8,353.6	8,243.4	27.4	10.7	-77.40	276.4	-2,212.1	1,297.7	1,261.2	36.46	35.589	
8,170.0	8,078.8	8,425.0	8,313.6	27.4	10.9	-77.58	269.9	-2,200.8	1,285.5	1,248.9	36.58	35.141	
8,200.0	8,108.8	8,450.0	8,338.2	27.4	10.9	-77.64	267.8	-2,197.0	1,280.4	1,243.8	36.65	34.933	
8,265.0	8,173.8	8,557.2	8,443.3	27.4	11.1	-77.90	257.9	-2,178.3	1,267.9	1,231.3	36.60	34.643	
8,300.0	8,208.8	8,595.4	8,480.7	27.4	11.2	-78.00	254.2	-2,171.2	1,260.8	1,224.1	36.65	34.403	
8,360.0	8,268.8	8,629.7	8,514.3	27.5	11.3	-78.09	250.9	-2,165.1	1,249.2	1,212.3	36.86	33.889	
8,400.0	8,308.8	8,666.8	8,550.7	27.5	11.4	-78.17	247.8	-2,158.9	1,241.8	1,204.9	36.94	33.615	
8,455.0	8,363.8	8,712.3	8,595.4	27.5	11.4	-78.26	244.2	-2,151.2	1,231.9	1,194.8	37.08	33.225	
8,500.0	8,408.8	8,744.6	8,627.2	27.5	11.5	-78.32	241.8	-2,146.1	1,224.3	1,187.1	37.21	32.906	
8,550.0	8,458.8	8,812.1	8,693.6	27.5	11.6	-78.46	236.6	-2,135.1	1,215.4	1,178.2	37.22	32.657	
8,600.0	8,508.8	8,903.8	8,783.4	27.5	11.8	-78.72	227.9	-2,118.8	1,205.9	1,168.7	37.14	32.472	
8,645.0	8,553.8	8,925.0	8,804.1	27.5	11.9	-78.79	225.6	-2,114.8	1,196.6	1,159.3	37.32	32.064	
8,700.0	8,608.8	8,963.1	8,841.4	27.6	12.0	-78.91	221.8	-2,108.1	1,186.1	1,148.6	37.49	31.635	
8,740.0	8,648.8	8,985.1	8,863.0	27.6	12.0	-78.97	219.8	-2,104.5	1,179.1	1,141.4	37.64	31.325	
8,800.0	8,708.8	9,025.0	8,902.4	27.6	12.1	-79.06	216.7	-2,098.7	1,169.6	1,131.8	37.83	30.917	
8,835.0	8,743.8	9,096.3	8,972.5	27.6	12.2	-79.28	210.3	-2,087.8	1,163.7	1,126.0	37.75	30.830	
8,900.0	8,808.8	9,175.0	9,049.6	27.6	12.4	-79.56	202.1	-2,074.1	1,151.3	1,113.5	37.82	30.444	
8,930.0	8,838.8	9,201.2	9,075.2	27.6	12.5	-79.67	199.0	-2,069.5	1,145.5	1,107.6	37.89	30.229	
9,000.0	8,908.8	9,301.3	9,172.7	27.6	12.7	-80.21	185.1	-2,051.2	1,131.0	1,093.1	37.93	29.821	
9,025.0	8,933.8	9,338.5	9,208.6	27.7	12.8	-80.43	179.5	-2,043.7	1,125.5	1,087.5	37.94	29.667	
9,100.0	9,008.8	9,436.2	9,302.6	27.7	13.1	-81.06	164.0	-2,022.3	1,107.0	1,069.0	38.02	29.116	
9,120.0	9,028.8	9,450.0	9,315.9	27.7	13.2	-81.15	161.8	-2,019.2	1,102.1	1,064.0	38.09	28.930	
9,200.0	9,108.8	9,500.0	9,364.2	27.7	13.3	-81.48	153.9	-2,008.7	1,083.4	1,045.0	38.40	28.212	
9,215.0	9,123.8	9,509.7	9,373.5	27.7	13.3	-81.55	152.4	-2,006.8	1,080.1	1,041.7	38.46	28.085	
9,300.0	9,208.8	9,575.0	9,437.0	27.7	13.5	-81.96	143.0	-1,994.6	1,062.5	1,023.8	38.74	27.430	
9,310.0	9,218.8	9,578.5	9,440.5	27.7	13.5	-81.98	142.6	-1,994.0	1,060.6	1,021.8	38.79	27.344	
9,400.0	9,308.8	9,663.6	9,523.6	27.8	13.7	-82.36	133.5	-1,978.4	1,042.9	1,003.9	38.99	26.745	
9,405.0	9,313.8	9,667.4	9,527.3	27.8	13.7	-82.38	133.1	-1,977.7	1,041.9	1,002.9	39.01	26.710	
9,500.0	9,408.8	9,750.0	9,608.3	27.8	13.9	-82.70	125.5	-1,963.2	1,024.3	985.0	39.25	26.095	
9,595.0	9,503.8	9,840.0	9,696.6	27.8	14.1	-83.12	116.3	-1,948.4	1,007.5	968.1	39.47	25.526	
9,600.0	9,508.8	9,843.7	9,700.2	27.8	14.1	-83.13	115.9	-1,947.9	1,006.7	967.2	39.49	25.493	
9,690.0	9,598.8	9,906.7	9,762.1	27.9	14.3	-83.48	108.9	-1,938.4	992.1	952.3	39.80	24.926	
9,700.0	9,608.8	9,913.4	9,768.7	27.9	14.3	-83.51	108.2	-1,937.5	990.6	950.8	39.84	24.867	
9,785.0	9,693.8	9,975.0	9,829.6	27.9	14.4	-83.82	102.1	-1,930.1	979.3	939.2	40.12	24.413	
9,800.0	9,708.8	9,984.7	9,839.2	27.9	14.4	-83.86	101.2	-1,929.0	977.6	937.4	40.17	24.336	
9,880.0	9,788.8	10,050.0	9,903.8	27.9	14.5	-84.18	95.2	-1,922.4	968.8	928.4	40.40	23.980	
9,900.0	9,808.8	10,068.0	9,921.7	27.9	14.6	-84.27	93.5	-1,920.7	966.7	926.3	40.45	23.900	
9,975.0	9,883.8	10,131.2	9,984.3	27.9	14.7	-84.59	87.6	-1,915.4	959.7	919.0	40.65	23.607	
10,000.0	9,908.8	10,150.0	10,003.0	28.0	14.7	-84.68	85.9	-1,913.9	957.5	916.8	40.73	23.509	
10,070.0	9,978.8	10,205.3	10,058.0	28.0	14.8	-84.94	81.2	-1,910.2	952.2	911.3	40.93	23.264	
10,100.0	10,008.8	10,228.7	10,081.4	28.0	14.8	-85.04	79.5	-1,908.8	950.4	909.3	41.02	23.170	
10,165.0	10,073.8	10,320.9	10,173.1	28.0	14.9	-85.41	72.9	-1,902.5	945.5	904.4	41.01	23.054	
10,200.0	10,108.8	10,350.6	10,202.6	28.0	15.0	-85.51	71.0	-1,900.1	942.5	901.4	41.10	22.932	
10,260.0	10,168.8	10,408.9	10,260.6	28.0	15.0	-85.71	67.3	-1,895.4	937.4	896.2	41.22	22.743	
10,300.0	10,208.8	10,454.9	10,306.3	28.0	15.1	-85.90	63.9	-1,892.0	934.3	893.0	41.26	22.641	
10,355.0	10,263.8	10,536.0	10,386.7	28.1	15.3	-86.33	56.4	-1,883.6	927.9	886.6	41.27	22.485	
10,400.0	10,308.8	10,571.7	10,421.9	28.1	15.3	-86.55	52.6	-1,879.8	922.9	881.5	41.40	22.290	
10,450.0	10,358.8	10,600.0	10,450.0	28.1	15.4	-86.72	49.7	-1,877.3	918.2	876.6	41.61	22.069	
10,500.0	10,408.8	10,634.0	10,483.7	28.1	15.4	-86.92	46.5	-1,875.0	914.5	872.7	41.78	21.890	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - OWB - AWP (PH)													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11212-r.5 MWD+IFR1													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,545.0	10,453.8	10,667.4	10,517.0	28.1	15.5	-87.10	43.6	-1,873.2	911.9	870.0	41.92	21.754	
10,600.0	10,508.8	10,713.2	10,562.6	28.1	15.5	-87.30	40.3	-1,871.2	909.3	867.3	42.06	21.620	
10,640.0	10,548.8	10,752.8	10,602.2	28.2	15.6	-87.45	37.8	-1,869.8	907.7	865.6	42.13	21.546	
10,700.0	10,608.8	10,804.5	10,653.7	28.2	15.6	-87.63	35.0	-1,868.1	905.6	863.3	42.27	21.426	
10,735.0	10,643.8	10,836.2	10,685.4	28.2	15.6	-87.72	33.4	-1,867.1	904.5	862.2	42.33	21.366	
10,800.0	10,708.8	10,888.9	10,738.0	28.2	15.7	-87.85	31.3	-1,866.1	903.2	860.7	42.48	21.262	
10,830.0	10,738.8	10,920.9	10,770.0	28.2	15.7	-87.94	29.9	-1,865.7	902.7	860.2	42.50	21.241	
10,900.0	10,808.8	10,988.3	10,837.3	28.2	15.7	-88.12	27.1	-1,864.6	901.5	858.9	42.59	21.167	
10,925.0	10,833.8	11,009.9	10,858.9	28.3	15.7	-88.17	26.2	-1,864.4	901.2	858.5	42.63	21.138	
11,000.0	10,908.8	11,080.0	10,929.0	28.3	15.7	-88.32	23.8	-1,864.0	900.7	858.0	42.73	21.080	
11,019.0	10,927.8	11,094.7	10,943.7	28.3	15.7	-88.35	23.4	-1,864.0	900.7	857.9	42.77	21.058	
11,020.0	10,928.8	11,095.5	10,944.4	28.3	15.7	-88.35	23.3	-1,864.0	900.7	857.9	42.77	21.057	
11,064.8	10,973.6	11,140.6	10,989.5	28.3	15.8	-88.45	21.8	-1,864.0	900.6	857.8	42.81	21.038 CC, ES	
11,100.0	11,008.8	11,172.4	11,021.3	28.3	15.8	-88.54	20.4	-1,864.1	900.7	857.9	42.85	21.018	
11,115.0	11,023.8	11,186.0	11,034.8	28.3	15.8	-88.57	19.9	-1,864.2	900.8	857.9	42.87	21.011	
11,200.0	11,108.8	11,269.7	11,118.5	28.3	15.8	-88.81	16.2	-1,864.9	901.4	858.5	42.94	20.990	
11,210.0	11,118.8	11,280.0	11,128.7	28.3	15.9	-88.84	15.7	-1,865.0	901.5	858.5	42.95	20.988	
11,237.8	11,146.5	11,308.6	11,157.3	28.3	15.9	-88.92	14.5	-1,865.2	901.7	858.7	42.97	20.982	
11,250.0	11,158.8	11,321.8	11,170.6	28.3	15.9	-88.43	14.0	-1,865.3	901.7	858.7	42.98	20.981	
11,275.0	11,183.7	11,348.8	11,197.5	28.4	15.9	-88.59	12.8	-1,865.4	901.8	858.8	42.99	20.975	
11,300.0	11,208.6	11,375.7	11,224.4	28.4	15.9	-88.83	11.8	-1,865.4	901.7	858.7	43.01	20.966	
11,305.0	11,213.5	11,381.0	11,229.7	28.4	15.9	-88.89	11.6	-1,865.4	901.7	858.7	43.01	20.964	
11,325.0	11,233.3	11,402.3	11,251.0	28.4	15.9	-89.17	10.7	-1,865.4	901.6	858.6	43.03	20.954	
11,350.0	11,257.7	11,426.9	11,275.6	28.4	15.9	-89.57	9.7	-1,865.4	901.5	858.5	43.05	20.940	
11,375.0	11,281.9	11,451.3	11,299.9	28.4	15.9	-90.05	8.7	-1,865.3	901.5	858.4	43.08	20.925	
11,393.6	11,299.6	11,469.1	11,317.7	28.4	16.0	-90.44	7.9	-1,865.3	901.4	858.3	43.10	20.915	
11,400.0	11,305.7	11,475.2	11,323.8	28.4	16.0	-90.58	7.6	-1,865.2	901.4	858.3	43.11	20.912	
11,425.0	11,329.0	11,498.5	11,347.0	28.4	16.0	-91.16	6.6	-1,865.2	901.5	858.4	43.13	20.900	
11,450.0	11,351.9	11,520.7	11,369.3	28.4	16.0	-91.77	5.5	-1,865.1	901.7	858.6	43.16	20.892	
11,475.0	11,374.1	11,542.4	11,390.9	28.4	16.0	-92.40	4.5	-1,865.0	902.2	859.0	43.19	20.889 SF	
11,495.0	11,391.5	11,559.3	11,407.8	28.4	16.0	-92.91	3.7	-1,864.9	902.7	859.5	43.21	20.892	
11,500.0	11,395.8	11,563.4	11,411.9	28.4	16.0	-93.04	3.6	-1,864.9	902.8	859.6	43.21	20.893	
11,525.0	11,416.8	11,583.7	11,432.2	28.4	16.0	-93.67	2.6	-1,864.9	903.8	860.6	43.23	20.905	
11,550.0	11,437.0	11,605.7	11,454.2	28.4	16.0	-94.39	1.7	-1,864.8	905.1	861.8	43.25	20.928	
11,575.0	11,456.4	11,627.5	11,475.9	28.4	16.0	-95.10	0.8	-1,864.6	906.6	863.4	43.26	20.960	
11,590.0	11,467.7	11,640.1	11,488.5	28.4	16.1	-95.52	0.3	-1,864.5	907.8	864.5	43.26	20.985	
11,600.0	11,475.0	11,648.3	11,496.7	28.4	16.1	-95.79	-0.1	-1,864.4	908.6	865.3	43.26	21.004	
11,625.0	11,492.7	11,668.1	11,516.5	28.4	16.1	-96.42	-0.8	-1,864.1	911.0	867.7	43.26	21.060	
11,650.0	11,509.4	11,686.8	11,535.2	28.4	16.1	-96.98	-1.5	-1,863.8	913.8	870.6	43.25	21.130	
11,675.0	11,525.2	11,700.1	11,548.5	28.4	16.1	-97.23	-2.0	-1,863.6	917.3	874.0	43.24	21.214	
11,685.0	11,531.2	11,705.6	11,553.9	28.4	16.1	-97.33	-2.1	-1,863.5	918.8	875.6	43.23	21.253	
11,700.0	11,539.9	11,713.4	11,561.8	28.4	16.1	-97.44	-2.4	-1,863.4	921.3	878.1	43.22	21.316	
11,725.0	11,553.5	11,725.8	11,574.2	28.4	16.1	-97.54	-2.7	-1,863.2	925.9	882.8	43.19	21.437	
11,750.0	11,566.0	11,737.2	11,585.6	28.4	16.1	-97.52	-3.0	-1,863.1	931.3	888.1	43.16	21.578	
11,775.0	11,577.4	11,747.6	11,596.0	28.4	16.1	-97.37	-3.3	-1,863.0	937.3	894.1	43.12	21.738	
11,780.0	11,579.5	11,749.5	11,597.9	28.4	16.1	-97.32	-3.3	-1,863.0	938.5	895.4	43.11	21.773	
11,800.0	11,587.6	11,756.9	11,605.3	28.5	16.1	-97.08	-3.5	-1,862.9	943.9	900.9	43.06	21.919	
11,825.0	11,596.5	11,765.1	11,613.5	28.5	16.1	-96.65	-3.7	-1,862.8	951.3	908.3	43.00	22.120	
11,850.0	11,604.3	11,772.2	11,620.5	28.5	16.1	-96.07	-3.8	-1,862.8	959.3	916.4	42.94	22.342	
11,875.0	11,610.7	11,778.0	11,626.4	28.5	16.1	-95.32	-3.9	-1,862.7	968.0	925.1	42.86	22.583	
11,900.0	11,616.0	11,782.5	11,630.9	28.5	16.1	-94.40	-4.0	-1,862.7	977.3	934.5	42.78	22.844	
11,925.0	11,619.9	11,785.8	11,634.2	28.5	16.1	-93.31	-4.1	-1,862.7	987.3	944.6	42.70	23.124	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - OWB - AWP (PH)													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11212-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Warning	
11,950.0	11,622.5	11,787.9	11,636.2	28.6	16.1	-92.04	-4.1	-1,862.7	997.8	955.2	42.60	23.422		
11,970.0	11,623.7	11,788.6	11,637.0	28.6	16.1	-90.91	-4.1	-1,862.7	1,006.6	964.1	42.52	23.672		
11,975.0	11,623.8	11,788.7	11,637.1	28.6	16.1	-90.61	-4.1	-1,862.7	1,008.9	966.4	42.50	23.736		
11,987.8	11,624.0	11,788.7	11,637.0	28.6	16.1	-89.82	-4.1	-1,862.7	1,014.8	972.3	42.45	23.903		
12,000.0	11,624.0	11,788.5	11,636.8	28.6	16.1	-89.80	-4.1	-1,862.7	1,020.5	978.1	42.40	24.067		
12,065.0	11,624.0	11,787.4	11,635.7	28.7	16.1	-89.73	-4.1	-1,862.7	1,052.8	1,010.7	42.13	24.989		
12,100.0	11,624.0	11,786.8	11,635.2	28.7	16.1	-89.70	-4.1	-1,862.7	1,071.5	1,029.5	41.98	25.523		
12,160.0	11,624.0	11,785.8	11,634.1	28.8	16.1	-89.63	-4.1	-1,862.7	1,105.3	1,063.5	41.72	26.493		
12,200.0	11,624.0	11,785.1	11,633.5	28.9	16.1	-89.59	-4.1	-1,862.7	1,129.0	1,087.5	41.54	27.177		
12,255.0	11,624.0	11,784.2	11,632.6	28.9	16.1	-89.53	-4.0	-1,862.7	1,163.1	1,121.8	41.30	28.159		
12,300.0	11,624.0	11,783.4	11,631.8	29.0	16.1	-89.48	-4.0	-1,862.7	1,192.2	1,151.0	41.11	28.998		
12,350.0	11,624.0	11,782.6	11,630.9	29.1	16.1	-89.43	-4.0	-1,862.7	1,225.6	1,184.7	40.90	29.962		
12,400.0	11,624.0	11,781.7	11,630.1	29.2	16.1	-89.38	-4.0	-1,862.7	1,260.1	1,219.4	40.70	30.959		
12,445.0	11,624.0	11,781.4	11,629.8	29.3	16.1	-89.35	-4.0	-1,862.7	1,292.0	1,251.5	40.53	31.880		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,980.0	7,888.8	8,229.4	8,121.3	27.4	10.5	-77.02	289.5	-2,230.7	1,318.1	1,281.8	36.26	36.354	
8,000.0	7,908.8	8,249.8	8,141.3	27.4	10.5	-77.09	287.1	-2,227.8	1,314.8	1,278.5	36.29	36.227	
8,075.0	7,983.8	8,335.3	8,225.4	27.4	10.7	-77.36	278.1	-2,214.9	1,302.0	1,265.6	36.39	35.775	
8,100.0	8,008.8	8,353.6	8,243.4	27.4	10.7	-77.40	276.4	-2,212.1	1,297.7	1,261.2	36.46	35.589	
8,170.0	8,078.8	8,425.0	8,313.6	27.4	10.9	-77.58	269.9	-2,200.8	1,285.5	1,248.9	36.58	35.141	
8,200.0	8,108.8	8,450.0	8,338.2	27.4	10.9	-77.64	267.8	-2,197.0	1,280.4	1,243.8	36.65	34.933	
8,265.0	8,173.8	8,557.2	8,443.3	27.4	11.1	-77.90	257.9	-2,178.3	1,267.9	1,231.3	36.60	34.643	
8,300.0	8,208.8	8,595.4	8,480.7	27.4	11.2	-78.00	254.2	-2,171.2	1,260.8	1,224.1	36.65	34.403	
8,360.0	8,268.8	8,629.7	8,514.3	27.5	11.3	-78.09	250.9	-2,165.1	1,249.2	1,212.3	36.86	33.889	
8,400.0	8,308.8	8,666.8	8,550.7	27.5	11.4	-78.17	247.8	-2,158.9	1,241.8	1,204.9	36.94	33.615	
8,455.0	8,363.8	8,712.3	8,595.4	27.5	11.4	-78.26	244.2	-2,151.2	1,231.9	1,194.8	37.08	33.225	
8,500.0	8,408.8	8,744.6	8,627.2	27.5	11.5	-78.32	241.8	-2,146.1	1,224.3	1,187.1	37.21	32.906	
8,550.0	8,458.8	8,812.1	8,693.6	27.5	11.6	-78.46	236.6	-2,135.1	1,215.4	1,178.2	37.22	32.657	
8,600.0	8,508.8	8,903.8	8,783.4	27.5	11.8	-78.72	227.9	-2,118.8	1,205.9	1,168.7	37.14	32.472	
8,645.0	8,553.8	8,925.0	8,804.1	27.5	11.9	-78.79	225.6	-2,114.8	1,196.6	1,159.3	37.32	32.064	
8,700.0	8,608.8	8,963.1	8,841.4	27.6	12.0	-78.91	221.8	-2,108.1	1,186.1	1,148.6	37.49	31.635	
8,740.0	8,648.8	8,985.1	8,863.0	27.6	12.0	-78.97	219.8	-2,104.5	1,179.1	1,141.4	37.64	31.325	
8,800.0	8,708.8	9,025.0	8,902.4	27.6	12.1	-79.06	216.7	-2,098.7	1,169.6	1,131.8	37.83	30.917	
8,835.0	8,743.8	9,096.3	8,972.5	27.6	12.2	-79.28	210.3	-2,087.8	1,163.7	1,126.0	37.75	30.830	
8,900.0	8,808.8	9,175.0	9,049.6	27.6	12.4	-79.56	202.1	-2,074.1	1,151.3	1,113.5	37.82	30.444	
8,930.0	8,838.8	9,201.2	9,075.2	27.6	12.5	-79.67	199.0	-2,069.5	1,145.5	1,107.6	37.89	30.229	
9,000.0	8,908.8	9,301.3	9,172.7	27.6	12.7	-80.21	185.1	-2,051.2	1,131.0	1,093.1	37.93	29.821	
9,025.0	8,933.8	9,338.5	9,208.6	27.7	12.8	-80.43	179.5	-2,043.7	1,125.5	1,087.5	37.94	29.667	
9,100.0	9,008.8	9,436.2	9,302.6	27.7	13.1	-81.06	164.0	-2,022.3	1,107.0	1,069.0	38.02	29.116	
9,120.0	9,028.8	9,450.0	9,315.9	27.7	13.2	-81.15	161.8	-2,019.2	1,102.1	1,064.0	38.09	28.930	
9,200.0	9,108.8	9,500.0	9,364.2	27.7	13.3	-81.48	153.9	-2,008.7	1,083.4	1,045.0	38.40	28.212	
9,215.0	9,123.8	9,509.7	9,373.5	27.7	13.3	-81.55	152.4	-2,006.8	1,080.1	1,041.7	38.46	28.085	
9,300.0	9,208.8	9,575.0	9,437.0	27.7	13.5	-81.96	143.0	-1,994.6	1,062.5	1,023.8	38.74	27.430	
9,310.0	9,218.8	9,578.5	9,440.5	27.7	13.5	-81.98	142.6	-1,994.0	1,060.6	1,021.8	38.79	27.344	
9,400.0	9,308.8	9,663.6	9,523.6	27.8	13.7	-82.36	133.5	-1,978.4	1,042.9	1,003.9	38.99	26.745	
9,405.0	9,313.8	9,667.4	9,527.3	27.8	13.7	-82.38	133.1	-1,977.7	1,041.9	1,002.9	39.01	26.710	
9,500.0	9,408.8	9,750.0	9,608.3	27.8	13.9	-82.70	125.5	-1,963.2	1,024.3	985.0	39.25	26.095	
9,595.0	9,503.8	9,840.0	9,696.6	27.8	14.1	-83.12	116.3	-1,948.4	1,007.5	968.1	39.47	25.526	
9,600.0	9,508.8	9,843.7	9,700.2	27.8	14.1	-83.13	115.9	-1,947.9	1,006.7	967.2	39.49	25.493	
9,690.0	9,598.8	9,906.7	9,762.1	27.9	14.3	-83.48	108.9	-1,938.4	992.1	952.3	39.80	24.926	
9,700.0	9,608.8	9,913.4	9,768.7	27.9	14.3	-83.51	108.2	-1,937.5	990.6	950.8	39.84	24.867	
9,785.0	9,693.8	9,975.0	9,829.6	27.9	14.4	-83.82	102.1	-1,930.1	979.3	939.2	40.12	24.413	
9,800.0	9,708.8	9,984.7	9,839.2	27.9	14.4	-83.86	101.2	-1,929.0	977.6	937.4	40.17	24.336	
9,880.0	9,788.8	10,050.0	9,903.8	27.9	14.5	-84.18	95.2	-1,922.4	968.8	928.4	40.40	23.980	
9,900.0	9,808.8	10,068.0	9,921.7	27.9	14.6	-84.27	93.5	-1,920.7	966.7	926.3	40.45	23.900	
9,975.0	9,883.8	10,131.2	9,984.3	27.9	14.7	-84.59	87.6	-1,915.4	959.7	919.0	40.65	23.607	
10,000.0	9,908.8	10,150.0	10,003.0	28.0	14.7	-84.68	85.9	-1,913.9	957.5	916.8	40.73	23.509	
10,070.0	9,978.8	10,205.3	10,058.0	28.0	14.8	-84.94	81.2	-1,910.2	952.2	911.3	40.93	23.264	
10,100.0	10,008.8	10,228.7	10,081.4	28.0	14.8	-85.04	79.5	-1,908.8	950.4	909.3	41.02	23.170	
10,165.0	10,073.8	10,320.9	10,173.1	28.0	14.9	-85.41	72.9	-1,902.5	945.5	904.4	41.01	23.054	
10,200.0	10,108.8	10,350.6	10,202.6	28.0	15.0	-85.51	71.0	-1,900.1	942.5	901.4	41.10	22.932	
10,260.0	10,168.8	10,408.9	10,260.6	28.0	15.0	-85.71	67.3	-1,895.4	937.4	896.2	41.22	22.743	
10,300.0	10,208.8	10,454.9	10,306.3	28.0	15.1	-85.90	63.9	-1,892.0	934.3	893.0	41.26	22.641	
10,355.0	10,263.8	10,536.0	10,386.7	28.1	15.3	-86.33	56.4	-1,883.6	927.9	886.6	41.27	22.485	
10,400.0	10,308.8	10,571.7	10,421.9	28.1	15.3	-86.55	52.6	-1,879.8	922.9	881.5	41.40	22.290	
10,450.0	10,358.8	10,600.0	10,450.0	28.1	15.4	-86.72	49.7	-1,877.3	918.2	876.6	41.61	22.069	
10,500.0	10,408.8	10,634.0	10,483.7	28.1	15.4	-86.92	46.5	-1,875.0	914.5	872.7	41.78	21.890	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,545.0	10,453.8	10,667.4	10,517.0	28.1	15.5	-87.10	43.6	-1,873.2	911.9	870.0	41.92	21.754	
10,600.0	10,508.8	10,713.2	10,562.6	28.1	15.5	-87.30	40.3	-1,871.2	909.3	867.3	42.06	21.620	
10,640.0	10,548.8	10,752.8	10,602.2	28.2	15.6	-87.45	37.8	-1,869.8	907.7	865.6	42.13	21.546	
10,700.0	10,608.8	10,804.5	10,653.7	28.2	15.6	-87.63	35.0	-1,868.1	905.6	863.3	42.27	21.426	
10,735.0	10,643.8	10,836.2	10,685.4	28.2	15.6	-87.72	33.4	-1,867.1	904.5	862.2	42.33	21.366	
10,800.0	10,708.8	10,888.9	10,738.0	28.2	15.7	-87.85	31.3	-1,866.1	903.2	860.7	42.48	21.262	
10,830.0	10,738.8	10,920.9	10,770.0	28.2	15.7	-87.94	29.9	-1,865.7	902.7	860.2	42.50	21.241	
10,900.0	10,808.8	10,988.3	10,837.3	28.2	15.7	-88.12	27.1	-1,864.6	901.5	858.9	42.59	21.167	
10,925.0	10,833.8	11,009.9	10,858.9	28.3	15.7	-88.17	26.2	-1,864.4	901.2	858.5	42.63	21.138	
11,000.0	10,908.8	11,080.0	10,929.0	28.3	15.7	-88.32	23.8	-1,864.0	900.7	858.0	42.73	21.080	
11,019.0	10,927.8	11,094.7	10,943.7	28.3	15.7	-88.35	23.4	-1,864.0	900.7	857.9	42.77	21.058	
11,020.0	10,928.8	11,095.5	10,944.4	28.3	15.7	-88.35	23.3	-1,864.0	900.7	857.9	42.77	21.057	
11,070.5	10,979.3	11,146.3	10,995.2	28.3	16.0	-88.46	21.7	-1,864.0	900.6	857.4	43.22	20.838	
11,100.0	11,008.8	11,173.7	11,022.6	28.3	16.3	-88.49	21.1	-1,864.1	900.7	856.9	43.78	20.573	
11,115.0	11,023.8	11,187.6	11,036.5	28.3	16.6	-88.50	21.0	-1,864.1	900.7	856.7	44.06	20.442	
11,200.0	11,108.8	11,266.5	11,115.4	28.3	17.9	-88.42	22.3	-1,864.6	901.3	855.6	45.66	19.740	
11,210.0	11,118.8	11,275.8	11,124.7	28.3	18.1	-88.39	22.7	-1,864.7	901.4	855.6	45.84	19.662	
11,237.8	11,146.5	11,306.0	11,154.8	28.3	18.7	-88.30	24.2	-1,865.1	901.8	855.3	46.43	19.423	
11,250.0	11,158.8	11,312.8	11,161.6	28.3	18.7	-87.73	24.7	-1,865.1	901.9	855.5	46.44	19.421	
11,275.0	11,183.7	11,335.6	11,184.3	28.4	18.7	-87.62	27.1	-1,865.4	902.3	855.8	46.45	19.425	
11,300.0	11,208.6	11,363.5	11,211.8	28.4	18.7	-87.48	31.7	-1,865.7	902.6	856.1	46.44	19.433	
11,305.0	11,213.5	11,369.4	11,217.6	28.4	18.7	-87.45	32.9	-1,865.8	902.6	856.1	46.44	19.435	
11,325.0	11,233.3	11,392.9	11,240.4	28.4	18.7	-87.33	38.3	-1,865.8	902.7	856.2	46.43	19.439	
11,350.0	11,257.7	11,420.8	11,267.2	28.4	18.8	-87.20	46.2	-1,865.7	902.6	856.2	46.43	19.440	
11,375.0	11,281.9	11,448.2	11,293.0	28.4	18.8	-87.08	55.4	-1,865.5	902.5	856.0	46.43	19.437	
11,400.0	11,305.7	11,475.5	11,318.1	28.4	18.9	-86.97	65.9	-1,865.2	902.2	855.7	46.43	19.431	
11,425.0	11,329.0	11,513.0	11,351.8	28.4	19.0	-86.81	82.6	-1,864.4	901.7	855.3	46.39	19.437	
11,450.0	11,351.9	11,555.6	11,388.0	28.4	19.0	-86.58	104.8	-1,862.4	900.5	854.2	46.33	19.438	
11,475.0	11,374.1	11,582.2	11,409.3	28.4	19.0	-86.45	120.6	-1,860.8	899.1	852.8	46.32	19.412	
11,495.0	11,391.5	11,620.2	11,437.6	28.4	19.1	-86.10	145.9	-1,858.0	897.8	851.6	46.24	19.415	
11,500.0	11,395.8	11,631.5	11,445.4	28.4	19.1	-85.96	153.9	-1,857.0	897.4	851.2	46.21	19.418	
11,525.0	11,416.8	11,657.8	11,463.0	28.4	19.1	-85.79	173.4	-1,854.3	895.1	848.9	46.20	19.373	
11,550.0	11,437.0	11,681.2	11,478.5	28.4	19.1	-85.74	190.7	-1,852.0	892.8	846.6	46.21	19.320	
11,575.0	11,456.4	11,707.1	11,495.3	28.4	19.1	-85.71	210.3	-1,849.4	890.4	844.2	46.21	19.268	
11,590.0	11,467.7	11,722.8	11,504.9	28.4	19.2	-85.70	222.5	-1,847.8	889.0	842.7	46.21	19.235	
11,600.0	11,475.0	11,733.1	11,511.1	28.4	19.2	-85.70	230.7	-1,846.7	887.9	841.7	46.22	19.213	
11,625.0	11,492.7	11,758.6	11,525.7	28.4	19.2	-85.72	251.4	-1,844.0	885.3	839.1	46.22	19.153	
11,650.0	11,509.4	11,783.3	11,538.6	28.4	19.2	-85.75	272.3	-1,841.2	882.6	836.4	46.24	19.089	
11,675.0	11,525.2	11,806.4	11,549.9	28.4	19.2	-85.82	292.3	-1,838.6	879.9	833.6	46.26	19.019	
11,685.0	11,531.2	11,815.5	11,554.3	28.4	19.2	-85.86	300.2	-1,837.6	878.8	832.5	46.28	18.989	
11,700.0	11,539.9	11,829.3	11,560.7	28.4	19.3	-85.94	312.3	-1,836.0	877.1	830.8	46.30	18.945	
11,725.0	11,553.5	11,849.5	11,569.7	28.4	19.3	-86.12	330.2	-1,833.8	874.3	828.0	46.35	18.865	
11,750.0	11,566.0	11,869.2	11,577.9	28.4	19.3	-86.32	348.0	-1,831.7	871.6	825.2	46.40	18.783	
11,775.0	11,577.4	11,892.7	11,586.9	28.4	19.3	-86.52	369.6	-1,829.3	868.9	822.5	46.44	18.709	
11,780.0	11,579.5	11,898.3	11,589.0	28.4	19.3	-86.56	374.8	-1,828.7	868.4	821.9	46.45	18.695	
11,800.0	11,587.6	11,920.8	11,597.1	28.5	19.3	-86.76	395.7	-1,826.2	866.1	819.6	46.46	18.640	
11,825.0	11,596.5	11,947.0	11,606.2	28.5	19.4	-87.09	420.0	-1,823.3	863.1	816.6	46.50	18.563	
11,850.0	11,604.3	11,972.3	11,615.1	28.5	19.4	-87.53	443.6	-1,820.5	860.1	813.5	46.54	18.482	
11,875.0	11,610.7	11,990.6	11,621.4	28.5	19.4	-88.00	460.6	-1,818.5	857.0	810.4	46.61	18.385	
11,900.0	11,616.0	12,007.7	11,626.9	28.5	19.4	-88.48	476.7	-1,816.8	854.2	807.5	46.70	18.291	
11,925.0	11,619.9	12,025.5	11,632.2	28.5	19.4	-88.97	493.6	-1,815.1	851.5	804.7	46.78	18.203	
11,950.0	11,622.5	12,053.8	11,640.1	28.6	19.5	-89.62	520.7	-1,812.5	848.9	802.1	46.81	18.133	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,970.0	11,623.7	12,071.0	11,644.6	28.6	19.5	-90.12	537.2	-1,810.8	846.7	799.9	46.87	18.067	
11,975.0	11,623.8	12,077.8	11,646.4	28.6	19.5	-90.29	543.7	-1,810.2	846.2	799.3	46.87	18.055	
11,987.8	11,624.0	12,086.6	11,648.5	28.6	19.5	-90.59	552.2	-1,809.4	844.9	798.0	46.91	18.010	
12,000.0	11,624.0	12,095.2	11,650.4	28.6	19.5	-90.72	560.5	-1,808.6	843.7	796.7	46.95	17.969	
12,065.0	11,624.0	12,147.0	11,659.5	28.7	19.6	-91.35	611.4	-1,804.5	838.1	790.9	47.16	17.769	
12,100.0	11,624.0	12,165.0	11,662.3	28.7	19.6	-91.54	629.1	-1,803.2	835.5	788.2	47.31	17.660	
12,160.0	11,624.0	12,220.9	11,668.7	28.8	19.7	-91.99	684.6	-1,799.9	831.6	784.1	47.53	17.495	
12,200.0	11,624.0	12,260.0	11,671.1	28.9	19.7	-92.16	723.5	-1,798.3	829.7	782.0	47.68	17.402	
12,255.0	11,624.0	12,306.3	11,672.7	28.9	19.8	-92.28	769.7	-1,796.8	827.4	779.5	47.91	17.272	
12,300.0	11,624.0	12,354.2	11,674.3	29.0	19.9	-92.39	817.6	-1,795.1	825.4	777.4	48.07	17.171	
12,350.0	11,624.0	12,405.2	11,675.4	29.1	20.0	-92.48	868.5	-1,793.1	823.1	774.8	48.28	17.048	
12,400.0	11,624.0	12,456.5	11,676.0	29.2	20.1	-92.52	919.8	-1,791.1	820.7	772.2	48.50	16.923	
12,445.0	11,624.0	12,503.7	11,676.2	29.3	20.2	-92.54	967.0	-1,789.1	818.4	769.7	48.70	16.804	
12,500.0	11,624.0	12,542.0	11,676.1	29.4	20.3	-92.55	1,005.2	-1,787.5	815.7	766.7	48.99	16.650	
12,540.0	11,624.0	12,580.4	11,676.2	29.5	20.4	-92.56	1,043.6	-1,786.2	814.1	764.8	49.23	16.536	
12,600.0	11,624.0	12,635.0	11,677.0	29.6	20.6	-92.61	1,098.2	-1,786.0	813.3	763.7	49.59	16.400	
12,635.0	11,624.0	12,743.9	11,680.1	29.7	21.1	-92.85	1,206.8	-1,780.1	811.5	761.5	49.98	16.237	
12,700.0	11,624.0	12,806.2	11,682.3	29.8	21.3	-93.04	1,268.8	-1,773.5	804.2	753.9	50.35	15.974	
12,730.0	11,624.0	12,824.0	11,683.0	29.9	21.4	-93.10	1,286.4	-1,771.7	801.0	750.4	50.55	15.845	
12,800.0	11,624.0	12,870.4	11,684.7	30.1	21.6	-93.24	1,332.7	-1,767.9	795.0	743.9	51.10	15.557	
12,825.0	11,624.0	12,884.8	11,685.2	30.2	21.7	-93.28	1,347.0	-1,767.2	793.5	742.2	51.30	15.468	
12,900.0	11,624.0	12,939.1	11,687.0	30.4	21.9	-93.41	1,401.3	-1,765.8	790.9	739.1	51.84	15.256	
12,920.0	11,624.0	12,962.6	11,687.5	30.4	22.0	-93.46	1,424.7	-1,765.3	790.3	738.3	51.97	15.207	
13,000.0	11,624.0	13,047.2	11,688.4	30.7	22.3	-93.53	1,509.3	-1,762.8	787.3	734.8	52.50	14.996	
13,015.0	11,624.0	13,061.1	11,688.4	30.7	22.3	-93.54	1,523.2	-1,762.4	786.8	734.2	52.61	14.956	
13,100.0	11,624.0	13,128.1	11,688.2	31.0	22.6	-93.53	1,590.2	-1,761.1	784.3	731.1	53.23	14.735	
13,110.0	11,624.0	13,134.3	11,688.2	31.0	22.6	-93.53	1,596.4	-1,761.1	784.2	730.9	53.31	14.711	
13,126.9	11,624.0	13,144.8	11,688.2	31.0	22.7	-93.53	1,606.9	-1,761.1	784.2	730.7	53.44	14.674	
13,200.0	11,624.0	13,200.0	11,688.7	31.3	23.0	-93.56	1,662.1	-1,762.8	785.6	731.5	54.02	14.543	
13,205.0	11,624.0	13,200.0	11,688.7	31.3	23.0	-93.56	1,662.1	-1,762.8	785.7	731.6	54.04	14.538	
13,300.0	11,624.0	13,295.9	11,688.7	31.6	23.4	-93.55	1,757.9	-1,767.1	789.1	734.3	54.77	14.407	
13,395.0	11,624.0	13,367.1	11,687.7	31.9	23.7	-93.46	1,829.0	-1,770.9	793.2	737.7	55.48	14.298	
13,400.0	11,624.0	13,370.9	11,687.6	32.0	23.7	-93.45	1,832.8	-1,771.1	793.5	738.0	55.51	14.294	
13,490.0	11,624.0	13,472.6	11,685.2	32.3	24.2	-93.26	1,934.2	-1,777.9	798.6	742.3	56.30	14.184	
13,500.0	11,624.0	13,485.1	11,684.9	32.3	24.2	-93.23	1,946.7	-1,778.6	799.0	742.6	56.40	14.168	
13,585.0	11,624.0	13,581.5	11,683.2	32.6	24.7	-93.10	2,042.9	-1,782.9	801.9	744.8	57.16	14.030	
13,600.0	11,624.0	13,596.2	11,683.1	32.7	24.8	-93.09	2,057.6	-1,783.4	802.3	745.1	57.29	14.006	
13,680.0	11,624.0	13,674.8	11,681.9	33.0	25.1	-92.99	2,136.1	-1,786.4	804.6	746.6	57.99	13.876	
13,700.0	11,624.0	13,694.4	11,681.5	33.1	25.2	-92.96	2,155.8	-1,787.2	805.2	747.0	58.17	13.843	
13,775.0	11,624.0	13,765.0	11,680.1	33.4	25.6	-92.86	2,226.3	-1,790.1	807.5	748.7	58.83	13.725	
13,800.0	11,624.0	13,790.6	11,679.6	33.5	25.7	-92.82	2,251.9	-1,791.2	808.3	749.3	59.06	13.685	
13,870.0	11,624.0	13,854.2	11,678.8	33.8	26.0	-92.75	2,315.3	-1,794.2	811.0	751.3	59.69	13.586	
13,900.0	11,624.0	13,879.2	11,678.6	33.9	26.2	-92.73	2,340.4	-1,795.6	812.4	752.4	59.96	13.549	
13,965.0	11,624.0	13,932.2	11,678.7	34.2	26.4	-92.73	2,393.2	-1,799.0	816.0	755.4	60.53	13.481	
14,000.0	11,624.0	13,964.4	11,679.1	34.3	26.6	-92.75	2,425.3	-1,801.4	818.3	757.4	60.85	13.448	
14,060.0	11,624.0	14,033.9	11,680.0	34.6	27.0	-92.80	2,494.6	-1,806.3	821.9	760.4	61.48	13.370	
14,100.0	11,624.0	14,103.0	11,680.2	34.8	27.4	-92.81	2,563.7	-1,809.6	823.5	761.5	62.01	13.282	
14,155.0	11,624.0	14,186.2	11,679.9	35.0	27.9	-92.79	2,646.9	-1,810.3	823.4	760.8	62.64	13.146	
14,200.0	11,624.0	14,245.0	11,680.9	35.2	28.2	-92.86	2,705.6	-1,809.4	822.4	759.3	63.10	13.032	
14,250.0	11,624.0	14,309.6	11,683.0	35.5	28.5	-93.02	2,770.2	-1,807.2	820.3	756.7	63.62	12.895	
14,300.0	11,624.0	14,365.8	11,685.5	35.7	28.9	-93.20	2,826.3	-1,804.5	817.6	753.5	64.12	12.751	
14,345.0	11,624.0	14,413.4	11,687.6	35.9	29.1	-93.36	2,873.8	-1,802.1	814.9	750.4	64.58	12.619	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error: 0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,400.0	11,624.0	14,463.1	11,689.9	36.2	29.4	-93.54	2,923.4	-1,799.5	811.8	746.6	65.15	12.460	
14,440.0	11,624.0	14,498.2	11,691.9	36.4	29.6	-93.69	2,958.3	-1,797.9	809.7	744.2	65.57	12.349	
14,500.0	11,624.0	14,565.2	11,696.0	36.6	30.0	-93.99	3,025.2	-1,794.9	806.8	740.6	66.20	12.188	
14,535.0	11,624.0	14,609.0	11,698.1	36.8	30.2	-94.16	3,068.8	-1,792.5	804.6	738.1	66.56	12.089	
14,600.0	11,624.0	14,672.4	11,700.5	37.1	30.6	-94.35	3,132.0	-1,788.7	800.3	733.1	67.26	11.899	
14,630.0	11,624.0	14,701.5	11,701.6	37.3	30.8	-94.44	3,161.1	-1,786.9	798.4	730.8	67.58	11.813	
14,700.0	11,624.0	14,771.0	11,703.8	37.6	31.2	-94.62	3,230.4	-1,782.9	793.9	725.6	68.34	11.616	
14,725.0	11,624.0	14,795.8	11,704.5	37.8	31.3	-94.69	3,255.2	-1,781.5	792.3	723.7	68.62	11.547	
14,800.0	11,624.0	14,878.3	11,705.1	38.1	31.8	-94.76	3,337.5	-1,776.6	787.2	717.8	69.44	11.337	
14,820.0	11,624.0	14,898.8	11,704.6	38.2	32.0	-94.74	3,358.0	-1,775.3	785.7	716.1	69.66	11.280	
14,900.0	11,624.0	14,969.0	11,703.2	38.7	32.4	-94.66	3,428.0	-1,771.3	780.3	709.7	70.57	11.057	
14,915.0	11,624.0	14,985.0	11,703.0	38.7	32.5	-94.65	3,444.0	-1,770.5	779.4	708.7	70.74	11.018	
15,000.0	11,624.0	15,050.1	11,701.6	39.2	32.9	-94.56	3,509.1	-1,768.0	775.3	703.5	71.72	10.809	
15,010.0	11,624.0	15,058.1	11,701.3	39.2	32.9	-94.55	3,517.0	-1,767.8	774.9	703.1	71.84	10.787	
15,096.7	11,624.0	15,117.8	11,699.4	39.7	33.3	-94.41	3,576.7	-1,767.3	773.2	700.4	72.81	10.619	
15,100.0	11,624.0	15,119.9	11,699.3	39.7	33.3	-94.41	3,578.8	-1,767.4	773.2	700.4	72.85	10.614	
15,105.0	11,624.0	15,123.1	11,699.3	39.7	33.4	-94.40	3,582.0	-1,767.4	773.2	700.3	72.90	10.606	
15,200.0	11,624.0	15,191.9	11,699.2	40.2	33.8	-94.38	3,650.7	-1,769.9	775.6	701.7	73.93	10.492	
15,295.0	11,624.0	15,298.0	11,698.9	40.8	34.5	-94.35	3,756.8	-1,774.2	778.6	703.5	75.10	10.367	
15,300.0	11,624.0	15,303.8	11,698.8	40.8	34.5	-94.34	3,762.6	-1,774.3	778.7	703.5	75.17	10.359	
15,390.0	11,624.0	15,400.9	11,698.5	41.3	35.2	-94.31	3,859.6	-1,776.7	780.0	703.8	76.27	10.227	
15,400.0	11,624.0	15,410.7	11,698.5	41.3	35.2	-94.31	3,869.4	-1,777.0	780.2	703.8	76.39	10.213	
15,485.0	11,624.0	15,505.0	11,698.2	41.8	35.8	-94.28	3,963.7	-1,778.9	781.1	703.7	77.45	10.086	
15,500.0	11,624.0	15,524.1	11,698.0	41.9	35.9	-94.26	3,982.8	-1,779.1	781.1	703.5	77.64	10.061	
15,580.0	11,624.0	15,606.2	11,696.7	42.4	36.5	-94.17	4,064.9	-1,779.2	780.5	701.8	78.62	9.927	
15,600.0	11,624.0	15,625.0	11,696.5	42.5	36.6	-94.16	4,083.7	-1,779.3	780.3	701.5	78.86	9.895	
15,675.0	11,624.0	15,712.7	11,695.7	42.9	37.2	-94.11	4,171.4	-1,779.2	779.6	699.8	79.81	9.768	
15,700.0	11,624.0	15,744.5	11,695.1	43.0	37.4	-94.06	4,203.2	-1,778.8	779.0	698.8	80.13	9.722	
15,770.0	11,624.0	15,836.5	11,690.9	43.5	38.0	-93.78	4,295.0	-1,775.8	775.9	694.9	80.99	9.579	
15,800.0	11,624.0	15,857.2	11,689.7	43.6	38.1	-93.69	4,315.7	-1,775.0	774.3	693.0	81.38	9.515	
15,865.0	11,624.0	15,905.6	11,687.5	44.0	38.4	-93.54	4,364.0	-1,773.9	772.0	689.8	82.19	9.394	
15,900.0	11,624.0	15,933.4	11,686.8	44.2	38.6	-93.48	4,391.8	-1,773.7	771.4	688.8	82.61	9.337	
15,960.0	11,624.0	15,995.3	11,685.4	44.6	39.0	-93.39	4,453.7	-1,773.3	770.4	687.0	83.37	9.240	
16,000.0	11,624.0	16,021.0	11,684.9	44.8	39.2	-93.35	4,479.4	-1,773.1	769.8	685.9	83.83	9.182	
16,019.5	11,624.0	16,044.2	11,684.5	44.9	39.4	-93.32	4,502.6	-1,773.1	769.5	685.4	84.10	9.150	
16,029.0	11,624.0	16,050.5	11,684.4	45.0	39.4	-93.32	4,508.9	-1,773.1	769.5	685.3	84.21	9.137 CC	
16,055.0	11,624.0	16,068.0	11,684.2	45.1	39.5	-93.30	4,526.4	-1,773.4	769.6	685.1	84.52	9.106	
16,100.0	11,624.0	16,098.1	11,683.8	45.4	39.8	-93.27	4,556.5	-1,774.3	770.6	685.6	85.02	9.063	
16,150.0	11,624.0	16,138.2	11,683.5	45.7	40.0	-93.24	4,596.5	-1,776.3	772.5	686.9	85.60	9.025	
16,200.0	11,624.0	16,185.0	11,682.6	46.0	40.3	-93.17	4,643.2	-1,778.9	774.8	688.6	86.21	8.987	
16,245.0	11,624.0	16,230.3	11,681.4	46.3	40.6	-93.06	4,688.4	-1,781.5	777.0	690.2	86.79	8.952	
16,300.0	11,624.0	16,291.0	11,680.4	46.6	41.1	-92.98	4,749.0	-1,784.8	779.4	691.8	87.54	8.903	
16,340.0	11,624.0	16,327.3	11,680.5	46.8	41.3	-92.98	4,785.3	-1,786.6	781.0	692.9	88.03	8.872	
16,400.0	11,624.0	16,377.2	11,681.9	47.2	41.6	-93.07	4,835.1	-1,789.5	784.0	695.3	88.72	8.837	
16,435.0	11,624.0	16,408.2	11,683.5	47.4	41.9	-93.18	4,866.0	-1,791.6	786.1	697.0	89.13	8.820	
16,500.0	11,624.0	16,474.6	11,687.8	47.8	42.3	-93.48	4,932.1	-1,796.0	790.1	700.1	89.98	8.781	
16,530.0	11,624.0	16,509.7	11,690.4	48.0	42.5	-93.66	4,967.1	-1,798.2	791.9	701.5	90.41	8.759	
16,600.0	11,624.0	16,607.3	11,695.6	48.4	43.2	-94.02	5,064.4	-1,802.4	794.5	703.0	91.51	8.683	
16,625.0	11,624.0	16,646.2	11,696.4	48.6	43.5	-94.08	5,103.3	-1,803.1	794.8	702.9	91.90	8.649	
16,700.0	11,624.0	16,737.4	11,698.8	49.1	44.1	-94.04	5,194.5	-1,802.9	793.8	700.9	92.93	8.542	
16,720.0	11,624.0	16,759.0	11,695.4	49.2	44.3	-94.01	5,216.0	-1,802.7	793.4	700.2	93.19	8.514	
16,800.0	11,624.0	16,839.2	11,693.7	49.7	44.8	-93.90	5,296.3	-1,801.8	791.7	697.5	94.24	8.401	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
16,815.0	11,624.0	16,854.1	11,693.4	49.8	44.9	-93.88	5,311.1	-1,801.6	791.4	697.0	94.44	8.380		
16,900.0	11,624.0	16,942.3	11,691.5	50.3	45.5	-93.75	5,399.3	-1,800.6	789.5	693.9	95.57	8.261		
16,910.0	11,624.0	16,952.8	11,691.2	50.4	45.6	-93.73	5,409.8	-1,800.4	789.3	693.6	95.70	8.247		
17,000.0	11,624.0	17,034.0	11,689.1	50.9	46.1	-93.59	5,490.9	-1,799.6	787.4	690.5	96.88	8.128		
17,005.0	11,624.0	17,038.4	11,689.1	51.0	46.2	-93.58	5,495.4	-1,799.6	787.3	690.4	96.94	8.121		
17,100.0	11,624.0	17,125.4	11,688.3	51.6	46.8	-93.53	5,582.4	-1,799.8	786.6	688.4	98.19	8.011		
17,195.0	11,624.0	17,221.6	11,688.3	52.2	47.5	-93.53	5,678.6	-1,800.4	786.3	686.9	99.46	7.906		
17,200.0	11,624.0	17,226.9	11,688.3	52.2	47.5	-93.53	5,683.8	-1,800.4	786.3	686.8	99.53	7.900		
17,238.1	11,624.0	17,260.9	11,688.2	52.5	47.7	-93.52	5,717.8	-1,800.6	786.1	686.1	100.03	7.859		
17,290.0	11,624.0	17,299.7	11,688.3	52.8	48.0	-93.53	5,756.7	-1,801.3	786.6	685.9	100.67	7.813		
17,300.0	11,624.0	17,307.2	11,688.4	52.9	48.1	-93.53	5,764.2	-1,801.5	786.8	686.0	100.79	7.806		
17,385.0	11,624.0	17,372.8	11,689.4	53.4	48.5	-93.60	5,829.7	-1,804.2	789.5	687.7	101.80	7.756		
17,400.0	11,624.0	17,384.7	11,689.7	53.5	48.6	-93.62	5,841.5	-1,804.8	790.2	688.3	101.98	7.749		
17,480.0	11,624.0	17,465.7	11,692.9	54.0	49.2	-93.83	5,922.3	-1,809.9	794.7	691.6	103.08	7.710		
17,500.0	11,624.0	17,500.2	11,693.9	54.1	49.4	-93.89	5,956.8	-1,811.4	795.5	692.0	103.46	7.688		
17,575.0	11,624.0	17,594.2	11,695.9	54.6	50.1	-94.03	6,050.7	-1,813.4	796.4	691.8	104.59	7.614		
17,600.0	11,624.0	17,623.9	11,696.8	54.8	50.3	-94.10	6,080.4	-1,813.7	796.5	691.5	104.95	7.589		
17,670.0	11,624.0	17,730.8	11,697.4	55.3	51.1	-94.16	6,187.2	-1,811.7	794.5	688.5	105.95	7.499		
17,700.0	11,624.0	17,764.6	11,696.9	55.5	51.3	-94.13	6,221.1	-1,810.4	793.0	686.6	106.35	7.456		
17,765.0	11,624.0	17,831.6	11,695.8	55.9	51.8	-94.06	6,288.0	-1,807.3	789.4	682.1	107.23	7.361		
17,800.0	11,624.0	17,863.5	11,695.6	56.1	52.0	-94.06	6,319.9	-1,805.9	787.5	679.8	107.71	7.311		
17,860.0	11,624.0	17,918.2	11,696.1	56.5	52.4	-94.11	6,374.5	-1,803.8	784.7	676.1	108.54	7.229		
17,900.0	11,624.0	17,954.7	11,696.2	56.8	52.6	-94.13	6,411.0	-1,802.6	783.0	673.9	109.09	7.177		
17,955.0	11,624.0	18,010.2	11,696.0	57.1	53.0	-94.12	6,466.4	-1,801.0	780.9	671.1	109.84	7.109		
18,000.0	11,624.0	18,068.0	11,695.4	57.4	53.4	-94.10	6,524.2	-1,798.7	778.7	668.3	110.44	7.051		
18,050.0	11,624.0	18,112.2	11,694.9	57.8	53.8	-94.07	6,568.4	-1,796.6	775.9	664.7	111.14	6.981		
18,100.0	11,624.0	18,148.8	11,694.1	58.1	54.0	-94.02	6,604.9	-1,795.5	773.8	662.0	111.85	6.918		
18,145.0	11,624.0	18,179.0	11,693.4	58.4	54.2	-93.97	6,635.1	-1,795.1	772.7	660.3	112.45	6.871		
18,200.0	11,624.0	18,230.6	11,691.9	58.8	54.6	-93.86	6,686.7	-1,795.0	772.0	658.8	113.21	6.819		
18,240.0	11,624.0	18,265.8	11,690.8	59.0	54.9	-93.78	6,721.9	-1,795.1	771.7	658.0	113.74	6.785		
18,300.0	11,624.0	18,323.9	11,688.8	59.4	55.3	-93.64	6,779.9	-1,795.8	771.7	657.1	114.57	6.736		
18,303.2	11,624.0	18,327.0	11,688.7	59.5	55.3	-93.63	6,783.1	-1,795.8	771.7	657.1	114.61	6.733		
18,335.0	11,624.0	18,358.2	11,687.4	59.7	55.5	-93.53	6,814.2	-1,796.2	771.7	656.7	115.05	6.707		
18,400.0	11,624.0	18,415.7	11,684.7	60.1	55.9	-93.33	6,871.7	-1,797.1	772.0	656.1	115.92	6.660		
18,430.0	11,624.0	18,441.7	11,683.6	60.3	56.1	-93.24	6,897.6	-1,797.8	772.4	656.1	116.32	6.641		
18,500.0	11,624.0	18,504.8	11,680.9	60.8	56.6	-93.04	6,960.7	-1,799.8	773.9	656.6	117.25	6.600		
18,525.0	11,624.0	18,527.8	11,679.8	61.0	56.7	-92.96	6,983.6	-1,800.7	774.5	656.9	117.59	6.587		
18,600.0	11,624.0	18,599.4	11,676.1	61.5	57.3	-92.67	7,055.0	-1,803.7	776.8	658.2	118.61	6.549		
18,620.0	11,624.0	18,618.9	11,675.0	61.6	57.4	-92.59	7,074.5	-1,804.6	777.5	658.6	118.89	6.539		
18,700.0	11,624.0	18,692.0	11,671.1	62.1	57.9	-92.30	7,147.4	-1,808.0	780.3	660.4	119.96	6.505		
18,715.0	11,624.0	18,705.0	11,670.7	62.2	58.0	-92.26	7,160.4	-1,808.7	781.0	660.8	120.15	6.500		
18,800.0	11,624.0	18,769.7	11,669.9	62.8	58.5	-92.20	7,224.9	-1,812.7	785.5	664.4	121.12	6.485		
18,810.0	11,624.0	18,776.0	11,670.0	62.9	58.5	-92.20	7,231.2	-1,813.2	786.2	665.0	121.22	6.486		
18,900.0	11,624.0	18,838.0	11,670.8	63.5	59.0	-92.24	7,292.8	-1,819.7	794.8	672.7	122.06	6.511		
18,905.0	11,624.0	18,838.0	11,670.8	63.5	59.0	-92.24	7,292.8	-1,819.7	795.4	673.3	122.04	6.517		
19,000.0	11,624.0	18,928.3	11,673.7	64.2	59.7	-92.42	7,382.3	-1,831.3	806.7	683.4	123.29	6.543		
19,095.0	11,624.0	19,116.8	11,679.9	64.8	61.1	-92.82	7,570.2	-1,844.0	812.1	686.3	125.80	6.456		
19,100.0	11,624.0	19,125.6	11,680.2	64.9	61.1	-92.85	7,579.0	-1,844.0	812.1	686.3	125.89	6.451		
19,190.0	11,624.0	19,209.9	11,683.5	65.5	61.7	-93.07	7,663.2	-1,845.1	812.6	685.5	127.13	6.392		
19,200.0	11,624.0	19,220.0	11,683.8	65.6	61.8	-93.10	7,673.3	-1,845.3	812.7	685.4	127.27	6.386		
19,285.0	11,624.0	19,303.1	11,687.1	66.1	62.4	-93.33	7,756.4	-1,846.6	813.5	685.0	128.46	6.332		
19,300.0	11,624.0	19,317.9	11,687.7	66.2	62.5	-93.37	7,771.1	-1,846.8	813.6	685.0	128.67	6.323		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,380.0	11,624.0	19,396.5	11,691.0	66.8	63.1	-93.60	7,849.7	-1,848.2	814.5	684.7	129.80	6.275	
19,400.0	11,624.0	19,416.7	11,691.8	66.9	63.2	-93.65	7,869.9	-1,848.6	814.8	684.7	130.08	6.264	
19,475.0	11,624.0	19,497.0	11,695.2	67.5	63.8	-93.89	7,950.1	-1,849.8	815.4	684.2	131.17	6.216	
19,500.0	11,624.0	19,523.5	11,696.2	67.6	64.0	-93.96	7,976.5	-1,850.1	815.5	684.0	131.53	6.200	
19,570.0	11,624.0	19,597.2	11,697.2	68.1	64.6	-94.03	8,050.2	-1,850.8	815.6	683.1	132.54	6.154	
19,600.0	11,624.0	19,629.6	11,696.9	68.3	64.8	-94.01	8,082.6	-1,851.0	815.5	682.6	132.98	6.133	
19,665.0	11,624.0	19,700.2	11,695.5	68.8	65.3	-93.91	8,153.2	-1,851.3	815.1	681.1	133.92	6.086	
19,700.0	11,624.0	19,740.2	11,694.3	69.0	65.6	-93.83	8,193.2	-1,851.1	814.6	680.1	134.43	6.060	
19,760.0	11,624.0	19,804.3	11,692.0	69.4	66.1	-93.67	8,257.2	-1,850.5	813.3	678.0	135.29	6.012	
19,800.0	11,624.0	19,840.1	11,690.6	69.7	66.3	-93.58	8,293.0	-1,850.2	812.5	676.7	135.85	5.981	
19,855.0	11,624.0	19,890.8	11,688.8	70.1	66.7	-93.46	8,343.7	-1,850.1	811.8	675.2	136.63	5.942	
19,900.0	11,624.0	19,940.5	11,686.8	70.4	67.0	-93.32	8,393.3	-1,850.0	811.1	673.9	137.28	5.909	
19,950.0	11,624.0	19,992.5	11,684.3	70.8	67.4	-93.14	8,445.3	-1,849.6	810.2	672.2	138.00	5.871	
20,000.0	11,624.0	20,038.6	11,682.9	71.1	67.8	-93.05	8,491.4	-1,849.3	809.3	670.6	138.71	5.835	
20,045.0	11,624.0	20,081.3	11,682.8	71.4	68.1	-93.04	8,534.1	-1,849.1	808.7	669.4	139.35	5.804	
20,100.0	11,624.0	20,139.4	11,683.4	71.8	68.5	-93.08	8,592.2	-1,848.8	808.0	667.8	140.14	5.766	
20,140.0	11,624.0	20,178.6	11,684.0	72.1	68.8	-93.13	8,631.4	-1,848.5	807.3	666.6	140.71	5.737	
20,200.0	11,624.0	20,229.7	11,685.3	72.5	69.2	-93.23	8,682.5	-1,848.4	806.8	665.2	141.55	5.700	
20,220.4	11,624.0	20,247.1	11,685.9	72.7	69.3	-93.27	8,699.8	-1,848.5	806.7	664.9	141.83	5.688	
20,235.0	11,624.0	20,261.0	11,686.3	72.8	69.4	-93.30	8,713.7	-1,848.6	806.7	664.7	142.03	5.680	
20,300.0	11,624.0	20,323.0	11,688.4	73.2	69.8	-93.44	8,775.7	-1,849.3	807.0	664.0	142.95	5.645	
20,330.0	11,624.0	20,352.4	11,689.3	73.4	70.1	-93.51	8,805.1	-1,849.7	807.1	663.8	143.38	5.629	
20,400.0	11,624.0	20,417.6	11,691.7	73.9	70.5	-93.68	8,870.2	-1,850.7	807.7	663.4	144.36	5.595	
20,425.0	11,624.0	20,440.8	11,692.9	74.1	70.7	-93.76	8,893.4	-1,851.1	808.0	663.3	144.71	5.584	
20,500.0	11,624.0	20,532.1	11,697.0	74.6	71.4	-94.05	8,984.6	-1,852.1	808.4	662.6	145.86	5.542	
20,520.0	11,624.0	20,555.5	11,697.8	74.8	71.5	-94.11	9,008.0	-1,852.1	808.2	662.1	146.16	5.530	
20,600.0	11,624.0	20,637.0	11,700.1	75.3	72.1	-94.28	9,089.4	-1,851.4	807.0	659.7	147.32	5.478	
20,615.0	11,624.0	20,652.6	11,700.5	75.4	72.2	-94.31	9,105.0	-1,851.2	806.7	659.2	147.54	5.468	
20,652.6	11,624.0	20,679.6	11,701.4	75.7	72.5	-94.37	9,132.0	-1,851.2	806.5	658.4	148.05	5.447	
20,700.0	11,624.0	20,713.7	11,702.8	76.0	72.7	-94.47	9,166.1	-1,851.7	806.9	658.2	148.66	5.428	
20,710.0	11,624.0	20,731.0	11,703.6	76.1	72.8	-94.53	9,183.3	-1,852.1	807.1	658.3	148.85	5.422	
20,800.0	11,624.0	20,833.3	11,705.2	76.7	73.6	-94.64	9,285.6	-1,853.8	808.0	657.8	150.21	5.379	
20,805.0	11,624.0	20,840.0	11,705.1	76.8	73.6	-94.63	9,292.3	-1,853.8	808.0	657.7	150.29	5.376	
20,860.4	11,624.0	20,887.6	11,704.3	77.2	74.0	-94.57	9,339.8	-1,854.3	807.9	656.8	151.06	5.348	
20,900.0	11,624.0	20,924.5	11,703.5	77.5	74.3	-94.51	9,376.8	-1,854.7	807.9	656.3	151.62	5.329	
20,995.0	11,624.0	21,016.0	11,701.3	78.1	74.9	-94.35	9,468.2	-1,856.2	808.4	655.4	152.98	5.284	
21,000.0	11,624.0	21,022.0	11,701.1	78.2	75.0	-94.34	9,474.2	-1,856.3	808.4	655.4	153.06	5.282	
21,090.0	11,624.0	21,107.8	11,698.8	78.8	75.6	-94.17	9,560.0	-1,858.0	809.2	654.9	154.34	5.243	
21,100.0	11,624.0	21,116.9	11,698.5	78.9	75.7	-94.15	9,569.1	-1,858.2	809.4	654.9	154.48	5.239 ES	
21,185.0	11,624.0	21,193.8	11,696.4	79.5	76.2	-94.00	9,645.9	-1,860.4	810.9	655.2	155.66	5.209	
21,200.0	11,624.0	21,207.7	11,696.0	79.6	76.3	-93.97	9,659.8	-1,860.9	811.2	655.4	155.86	5.205	
21,280.0	11,624.0	21,289.7	11,693.6	80.2	77.0	-93.79	9,741.8	-1,863.7	813.0	656.0	157.04	5.177	
21,300.0	11,624.0	21,310.1	11,693.0	80.3	77.1	-93.74	9,762.1	-1,864.4	813.5	656.1	157.34	5.170	
21,375.0	11,624.0	21,385.8	11,690.4	80.8	77.7	-93.56	9,837.7	-1,866.8	815.0	656.6	158.44	5.144	
21,400.0	11,624.0	21,409.9	11,689.6	81.0	77.8	-93.50	9,861.8	-1,867.6	815.6	656.8	158.79	5.136	
21,470.0	11,624.0	21,475.8	11,688.1	81.5	78.3	-93.38	9,927.6	-1,869.9	817.2	657.5	159.78	5.115	
21,500.0	11,624.0	21,506.2	11,687.6	81.7	78.6	-93.34	9,958.0	-1,871.0	818.0	657.8	160.22	5.106	
21,565.0	11,624.0	21,576.1	11,686.1	82.2	79.1	-93.23	10,027.9	-1,873.3	819.5	658.3	161.21	5.084	
21,600.0	11,624.0	21,612.0	11,685.1	82.4	79.3	-93.16	10,063.7	-1,874.4	820.2	658.5	161.73	5.072	
21,660.0	11,624.0	21,672.6	11,683.4	82.9	79.8	-93.03	10,124.3	-1,876.2	821.3	658.7	162.61	5.051	
21,700.0	11,624.0	21,711.2	11,682.3	83.2	80.1	-92.96	10,162.8	-1,877.3	822.1	658.9	163.18	5.038	
21,755.0	11,624.0	21,763.6	11,680.9	83.6	80.5	-92.85	10,215.2	-1,879.0	823.3	659.3	163.96	5.021	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZHU 2331 WC #6H - ST01 - AWP													Offset Site Error:	0.0 usft
Survey Program: 100-Standard Keeper 104, 11306-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
21,800.0	11,624.0	21,809.5	11,679.7	83.9	80.8	-92.77	10,261.0	-1,880.5	824.3	659.7	164.63	5.007		
21,850.0	11,624.0	21,861.2	11,678.2	84.2	81.2	-92.66	10,312.7	-1,882.1	825.4	660.0	165.37	4.991		
21,900.0	11,624.0	21,908.3	11,676.9	84.6	81.5	-92.57	10,359.8	-1,883.6	826.4	660.3	166.08	4.976		
21,945.0	11,624.0	21,950.1	11,675.8	84.9	81.9	-92.49	10,401.5	-1,885.1	827.6	660.9	166.71	4.964		
22,000.0	11,624.0	21,997.6	11,674.8	85.3	82.2	-92.41	10,448.9	-1,887.1	829.3	661.8	167.45	4.953		
22,040.0	11,624.0	22,032.1	11,674.2	85.6	82.5	-92.37	10,483.5	-1,888.8	830.9	662.9	167.97	4.947		
22,049.9	11,624.0	22,042.1	11,674.1	85.7	82.5	-92.36	10,493.4	-1,889.3	831.3	663.2	168.12	4.945		
22,050.7	11,624.0	22,042.8	11,674.1	85.7	82.5	-92.36	10,494.1	-1,889.4	831.4	663.2	168.13	4.945 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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	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	-90.44	-0.2	-29.9	30.0				
95.0	95.0	95.0	95.0	3.0	3.0	-90.44	-0.2	-29.9	30.0	23.9	6.03	4.971	
100.0	100.0	100.0	100.0	3.0	3.0	-90.44	-0.2	-29.9	30.0	23.9	6.03	4.968	
190.0	190.0	190.0	190.0	3.1	3.1	-90.44	-0.2	-29.9	30.0	23.8	6.15	4.868	
200.0	200.0	200.0	200.0	3.1	3.1	-90.44	-0.2	-29.9	30.0	23.8	6.17	4.853	
285.0	285.0	285.0	285.0	3.2	3.2	-90.44	-0.2	-29.9	30.0	23.6	6.31	4.746	
300.0	300.0	300.0	300.0	3.2	3.2	-90.44	-0.2	-29.9	30.0	23.6	6.34	4.725	
380.0	380.0	380.0	380.0	3.3	3.3	-90.44	-0.2	-29.9	30.0	23.5	6.49	4.616	
400.0	400.0	400.0	400.0	3.3	3.3	-90.44	-0.2	-29.9	30.0	23.4	6.53	4.587	
475.0	475.0	475.0	475.0	3.4	3.4	-90.44	-0.2	-29.9	30.0	23.3	6.68	4.481	
500.0	500.0	500.0	500.0	3.4	3.4	-90.44	-0.2	-29.9	30.0	23.2	6.74	4.444	
570.0	570.0	570.0	570.0	3.5	3.5	-90.44	-0.2	-29.9	30.0	23.1	6.90	4.342	
600.0	600.0	600.0	600.0	3.5	3.5	-90.44	-0.2	-29.9	30.0	23.0	6.97	4.298	
665.0	665.0	665.0	665.0	3.6	3.6	-90.44	-0.2	-29.9	30.0	22.8	7.13	4.202	
700.0	700.0	700.0	700.0	3.7	3.7	-90.44	-0.2	-29.9	30.0	22.7	7.22	4.151	
760.0	760.0	760.0	760.0	3.8	3.8	-90.44	-0.2	-29.9	30.0	22.6	7.37	4.064	
800.0	800.0	800.0	800.0	3.8	3.8	-90.44	-0.2	-29.9	30.0	22.5	7.48	4.005	
855.0	855.0	855.0	855.0	3.9	3.9	-90.44	-0.2	-29.9	30.0	22.3	7.63	3.927	
900.0	900.0	900.0	900.0	4.0	4.0	-90.44	-0.2	-29.9	30.0	22.2	7.75	3.863	
950.0	950.0	950.0	950.0	4.1	4.1	-90.44	-0.2	-29.9	30.0	22.1	7.90	3.793	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-90.44	-0.2	-29.9	30.0	21.9	8.04	3.725 CC, ES	
1,045.0	1,045.0	1,044.5	1,044.5	4.2	4.2	-90.44	-0.2	-30.3	30.3	22.1	8.22	3.688	
1,100.0	1,100.0	1,098.9	1,098.9	4.3	4.3	-90.43	-0.2	-31.7	31.7	23.2	8.44	3.755	
1,140.0	1,140.0	1,138.4	1,138.4	4.4	4.4	-90.42	-0.2	-33.3	33.3	24.7	8.61	3.871	
1,200.0	1,200.0	1,197.6	1,197.5	4.5	4.6	-90.40	-0.3	-36.8	36.9	28.0	8.88	4.151	
1,235.0	1,235.0	1,232.1	1,231.8	4.6	4.7	-90.39	-0.3	-39.3	39.5	30.4	9.03	4.369	
1,300.0	1,300.0	1,295.8	1,295.3	4.7	4.9	-90.37	-0.3	-45.2	45.5	36.1	9.33	4.873	
1,330.0	1,330.0	1,325.2	1,324.5	4.7	5.0	-90.36	-0.3	-48.4	48.7	39.2	9.46	5.145	
1,400.0	1,400.0	1,393.4	1,392.1	4.9	5.2	-90.34	-0.3	-56.9	57.5	47.7	9.79	5.870	
1,425.0	1,425.0	1,417.6	1,416.1	4.9	5.3	-90.33	-0.4	-60.3	61.0	51.1	9.91	6.156	
1,500.0	1,500.0	1,490.0	1,487.6	5.1	5.5	-90.32	-0.4	-71.8	72.8	62.6	10.26	7.096	
1,520.0	1,520.0	1,509.2	1,506.5	5.1	5.6	-90.31	-0.4	-75.1	76.3	65.9	10.36	7.366	
1,600.0	1,600.0	1,585.5	1,581.4	5.3	5.9	-90.30	-0.5	-89.6	91.5	80.7	10.74	8.515	
1,615.0	1,615.0	1,600.0	1,595.6	5.3	5.9	-90.30	-0.5	-92.6	94.6	83.7	10.82	8.739	
1,700.0	1,700.0	1,682.9	1,676.7	5.5	6.2	-90.29	-0.6	-109.8	112.2	101.0	11.22	10.002	
1,710.0	1,710.0	1,692.6	1,686.2	5.5	6.2	-90.29	-0.6	-111.8	114.3	103.0	11.27	10.144	
1,800.0	1,800.0	1,780.7	1,772.3	5.7	6.5	-90.28	-0.6	-130.1	133.0	121.3	11.72	11.353	
1,805.0	1,805.0	1,785.6	1,777.1	5.7	6.5	-90.28	-0.6	-131.1	134.1	122.3	11.74	11.417	
1,900.0	1,900.0	1,878.5	1,868.0	5.9	6.8	-90.27	-0.7	-150.5	153.8	141.6	12.23	12.574	
1,995.0	1,995.0	1,971.4	1,958.9	6.1	7.2	-90.27	-0.8	-169.8	173.6	160.8	12.74	13.624	
2,000.0	2,000.0	1,976.3	1,963.7	6.1	7.2	-90.27	-0.8	-170.8	174.6	161.8	12.77	13.677	
2,090.0	2,090.0	2,064.6	2,050.1	6.2	7.5	-0.11	-0.9	-189.1	191.9	178.6	13.29	14.444	
2,100.0	2,100.0	2,074.5	2,059.7	6.2	7.5	-0.11	-0.9	-191.2	193.7	180.3	13.35	14.512	
2,185.0	2,184.9	2,158.4	2,141.8	6.3	7.8	-0.11	-0.9	-208.6	207.2	193.3	13.86	14.952	
2,200.0	2,199.8	2,173.2	2,156.3	6.3	7.9	-0.11	-1.0	-211.7	209.3	195.4	13.95	15.007	
2,280.0	2,279.6	2,252.6	2,233.9	6.4	8.2	-0.11	-1.0	-228.2	219.4	204.9	14.45	15.176	
2,300.0	2,299.5	2,272.5	2,253.4	6.5	8.3	-0.11	-1.0	-232.4	221.5	206.9	14.58	15.191	
2,375.0	2,373.9	2,347.2	2,326.4	6.6	8.6	-0.11	-1.1	-247.9	228.4	213.3	15.08	15.145	
2,400.0	2,398.7	2,372.1	2,350.8	6.6	8.7	-0.11	-1.1	-253.1	230.2	215.0	15.25	15.100	
2,470.0	2,467.9	2,442.0	2,419.2	6.8	9.0	-0.12	-1.2	-267.6	234.3	218.5	15.73	14.889	
2,500.0	2,497.5	2,471.9	2,448.5	6.9	9.1	-0.12	-1.2	-273.8	235.5	219.5	15.94	14.768	
2,565.0	2,561.3	2,536.9	2,512.1	7.1	9.3	-0.12	-1.3	-287.3	237.0	220.6	16.37	14.480	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,575.0	2,571.1	2,546.9	2,521.9	7.1	9.4	-0.12	-1.3	-289.4	237.1	220.7	16.43	14.429	
2,600.0	2,595.6	2,571.9	2,546.3	7.1	9.5	-0.12	-1.3	-294.6	237.3	220.7	16.58	14.313	
2,660.0	2,654.4	2,631.9	2,605.0	7.3	9.7	-0.13	-1.3	-307.1	237.8	220.8	16.99	13.996	
2,700.0	2,693.6	2,671.9	2,644.1	7.4	9.9	-0.13	-1.4	-315.4	238.2	220.9	17.27	13.792	
2,755.0	2,747.5	2,726.9	2,697.9	7.5	10.1	-0.13	-1.4	-326.8	238.7	221.0	17.66	13.512	
2,800.0	2,791.6	2,771.9	2,741.9	7.6	10.3	-0.14	-1.5	-336.2	239.1	221.1	17.99	13.290	
2,850.0	2,840.6	2,821.9	2,790.8	7.8	10.5	-0.14	-1.5	-346.6	239.5	221.1	18.36	13.047	
2,900.0	2,889.6	2,871.9	2,839.7	7.9	10.8	-0.14	-1.5	-357.0	239.9	221.2	18.73	12.812	
2,945.0	2,933.7	2,916.9	2,883.8	8.1	10.9	-0.15	-1.6	-366.4	240.3	221.3	19.07	12.603	
3,000.0	2,987.6	2,971.9	2,937.5	8.2	11.2	-0.15	-1.6	-377.8	240.8	221.3	19.49	12.356	
3,040.0	3,026.8	3,011.9	2,976.7	8.4	11.4	-0.15	-1.7	-386.1	241.2	221.4	19.80	12.180	
3,100.0	3,085.6	3,071.9	3,035.4	8.6	11.6	-0.16	-1.7	-398.6	241.7	221.4	20.27	11.924	
3,135.0	3,119.9	3,106.9	3,069.6	8.7	11.8	-0.16	-1.7	-405.9	242.0	221.4	20.55	11.778	
3,200.0	3,183.6	3,171.9	3,133.2	8.9	12.0	-0.16	-1.8	-419.4	242.6	221.5	21.06	11.515	
3,230.0	3,213.0	3,201.9	3,162.5	9.0	12.2	-0.16	-1.8	-425.6	242.8	221.5	21.31	11.397	
3,300.0	3,281.6	3,271.9	3,231.0	9.3	12.5	-0.17	-1.9	-440.2	243.4	221.6	21.87	11.129	
3,325.0	3,306.1	3,296.9	3,255.4	9.3	12.6	-0.17	-1.9	-445.4	243.6	221.6	22.08	11.035	
3,400.0	3,379.6	3,371.9	3,328.8	9.6	12.9	-0.17	-2.0	-460.9	244.3	221.6	22.70	10.764	
3,420.0	3,399.2	3,391.9	3,348.4	9.7	13.0	-0.17	-2.0	-465.1	244.5	221.6	22.86	10.693	
3,500.0	3,477.6	3,471.9	3,426.6	10.0	13.4	-0.18	-2.0	-481.7	245.2	221.6	23.53	10.419	
3,515.0	3,492.3	3,486.9	3,441.3	10.0	13.4	-0.18	-2.1	-484.9	245.3	221.6	23.66	10.369	
3,600.0	3,575.6	3,571.9	3,524.4	10.4	13.8	-0.19	-2.1	-502.5	246.0	221.7	24.38	10.094	
3,610.0	3,585.4	3,581.9	3,534.2	10.4	13.9	-0.19	-2.1	-504.6	246.1	221.7	24.46	10.062	
3,700.0	3,673.6	3,671.9	3,622.2	10.7	14.3	-0.19	-2.2	-523.3	246.9	221.7	25.23	9.787	
3,705.0	3,678.5	3,676.9	3,627.1	10.8	14.3	-0.19	-2.2	-524.4	247.0	221.7	25.27	9.772	
3,800.0	3,771.6	3,771.9	3,720.0	11.1	14.7	-0.20	-2.3	-544.1	247.8	221.7	26.09	9.497	
3,895.0	3,864.6	3,866.9	3,813.0	11.5	15.1	-0.20	-2.4	-563.9	248.6	221.7	26.92	9.236	
3,900.0	3,869.5	3,871.9	3,817.8	11.5	15.2	-0.20	-2.4	-564.9	248.7	221.7	26.96	9.223	
3,990.0	3,957.7	3,961.9	3,905.9	11.9	15.6	-0.21	-2.5	-583.6	249.4	221.7	27.75	8.989	
4,000.0	3,967.5	3,971.9	3,915.7	11.9	15.6	-0.21	-2.5	-585.7	249.5	221.7	27.84	8.964	
4,085.0	4,050.8	4,056.9	3,998.8	12.3	16.0	-0.21	-2.5	-603.4	250.3	221.7	28.59	8.755	
4,100.0	4,065.5	4,071.9	4,013.5	12.3	16.1	-0.21	-2.5	-606.5	250.4	221.7	28.72	8.719	
4,180.0	4,143.9	4,151.9	4,091.7	12.7	16.4	-0.22	-2.6	-623.1	251.1	221.7	29.43	8.532	
4,200.0	4,163.5	4,171.9	4,111.3	12.7	16.5	-0.22	-2.6	-627.3	251.3	221.7	29.61	8.487	
4,275.0	4,237.0	4,246.9	4,184.6	13.1	16.9	-0.22	-2.7	-642.9	251.9	221.7	30.28	8.321	
4,300.0	4,261.5	4,271.9	4,209.1	13.2	17.0	-0.23	-2.7	-648.1	252.2	221.7	30.50	8.267	
4,370.0	4,330.1	4,341.9	4,277.6	13.5	17.3	-0.23	-2.8	-662.6	252.8	221.6	31.13	8.120	
4,400.0	4,359.5	4,371.9	4,306.9	13.6	17.4	-0.23	-2.8	-668.8	253.0	221.6	31.40	8.059	
4,465.0	4,423.2	4,436.8	4,370.5	13.9	17.7	-0.24	-2.8	-682.4	253.6	221.6	31.98	7.929	
4,500.0	4,457.5	4,471.8	4,404.7	14.0	17.9	-0.24	-2.9	-689.6	253.9	221.6	32.30	7.861	
4,560.0	4,516.3	4,531.8	4,463.4	14.3	18.2	-0.24	-2.9	-702.1	254.4	221.6	32.84	7.747	
4,600.0	4,555.5	4,571.8	4,502.5	14.4	18.4	-0.24	-3.0	-710.4	254.8	221.6	33.20	7.673	
4,655.0	4,609.4	4,626.8	4,556.3	14.7	18.6	-0.25	-3.0	-721.9	255.3	221.5	33.70	7.574	
4,700.0	4,653.5	4,671.8	4,600.3	14.9	18.8	-0.25	-3.0	-731.2	255.6	221.5	34.11	7.494	
4,750.0	4,702.5	4,721.8	4,649.2	15.1	19.0	-0.25	-3.1	-741.6	256.1	221.5	34.57	7.408	
4,800.0	4,751.5	4,771.8	4,698.1	15.3	19.3	-0.25	-3.1	-752.0	256.5	221.5	35.02	7.324	
4,845.0	4,795.6	4,816.8	4,742.2	15.5	19.5	-0.26	-3.2	-761.4	256.9	221.5	35.43	7.250	
4,900.0	4,849.5	4,871.8	4,796.0	15.7	19.7	-0.26	-3.2	-772.8	257.4	221.5	35.94	7.162	
4,940.0	4,888.7	4,911.8	4,835.1	15.9	19.9	-0.26	-3.2	-781.1	257.7	221.4	36.30	7.099	
5,000.0	4,947.5	4,971.8	4,893.8	16.2	20.2	-0.26	-3.3	-793.6	258.3	221.4	36.85	7.008	
5,035.0	4,981.8	5,006.8	4,928.0	16.3	20.4	-0.27	-3.3	-800.9	258.6	221.4	37.18	6.955	
5,100.0	5,045.5	5,071.8	4,991.6	16.6	20.7	-0.27	-3.4	-814.4	259.1	221.4	37.77	6.860	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,130.0	5,074.9	5,101.8	5,020.9	16.7	20.8	-0.27	-3.4	-820.6	259.4	221.3	38.05	6.817	
5,200.0	5,143.4	5,171.8	5,089.4	17.0	21.1	-0.28	-3.5	-835.2	260.0	221.3	38.70	6.719	
5,225.0	5,167.9	5,196.8	5,113.8	17.1	21.2	-0.28	-3.5	-840.4	260.2	221.3	38.93	6.685	
5,300.0	5,241.4	5,271.8	5,187.2	17.5	21.6	-0.28	-3.5	-856.0	260.9	221.3	39.62	6.585	
5,320.0	5,261.0	5,291.8	5,206.8	17.6	21.7	-0.28	-3.6	-860.1	261.1	221.3	39.80	6.558	
5,400.0	5,339.4	5,371.8	5,285.0	17.9	22.1	-0.29	-3.6	-876.7	261.8	221.2	40.55	6.456	
5,415.0	5,354.1	5,386.8	5,299.7	18.0	22.1	-0.29	-3.6	-879.9	261.9	221.2	40.68	6.437	
5,500.0	5,437.4	5,471.8	5,382.8	18.4	22.5	-0.29	-3.7	-897.5	262.6	221.2	41.47	6.332	
5,510.0	5,447.2	5,481.8	5,392.6	18.4	22.6	-0.29	-3.7	-899.6	262.7	221.1	41.57	6.320	
5,600.0	5,535.4	5,571.8	5,480.6	18.8	23.0	-0.30	-3.8	-918.3	263.5	221.1	42.40	6.214	
5,605.0	5,540.3	5,576.8	5,485.5	18.8	23.0	-0.30	-3.8	-919.4	263.5	221.1	42.45	6.208	
5,700.0	5,633.4	5,671.8	5,578.4	19.2	23.5	-0.30	-3.9	-939.1	264.4	221.0	43.33	6.101	
5,795.0	5,726.5	5,766.8	5,671.4	19.7	23.9	-0.31	-4.0	-958.9	265.2	221.0	44.22	5.997	
5,800.0	5,731.4	5,771.8	5,676.3	19.7	23.9	-0.31	-4.0	-959.9	265.2	221.0	44.27	5.992	
5,890.0	5,819.6	5,861.8	5,764.3	20.1	24.3	-0.31	-4.0	-978.6	266.0	220.9	45.11	5.898	
5,900.0	5,829.4	5,871.8	5,774.1	20.1	24.4	-0.31	-4.0	-980.7	266.1	220.9	45.20	5.888	
5,985.0	5,912.7	5,956.8	5,857.2	20.5	24.8	-0.32	-4.1	-998.4	266.9	220.9	45.99	5.802	
6,000.0	5,927.4	5,971.8	5,871.9	20.6	24.9	-0.32	-4.1	-1,001.5	267.0	220.9	46.13	5.787	
6,080.0	6,005.8	6,051.8	5,950.1	21.0	25.2	-0.32	-4.2	-1,018.1	267.7	220.8	46.88	5.710	
6,100.0	6,025.4	6,071.8	5,969.7	21.0	25.3	-0.32	-4.2	-1,022.3	267.9	220.8	47.07	5.691	
6,175.0	6,098.9	6,146.8	6,043.0	21.4	25.7	-0.33	-4.3	-1,037.9	268.5	220.7	47.77	5.621	
6,200.0	6,123.4	6,171.8	6,067.5	21.5	25.8	-0.33	-4.3	-1,043.1	268.7	220.7	48.01	5.598	
6,270.0	6,192.0	6,241.8	6,136.0	21.8	26.1	-0.33	-4.4	-1,057.6	269.3	220.7	48.67	5.535	
6,300.0	6,221.4	6,271.8	6,165.3	21.9	26.3	-0.33	-4.4	-1,063.9	269.6	220.7	48.95	5.508	
6,365.0	6,285.1	6,336.8	6,228.9	22.2	26.6	-0.34	-4.4	-1,077.4	270.2	220.6	49.56	5.452	
6,400.0	6,319.4	6,371.8	6,263.1	22.4	26.7	-0.34	-4.5	-1,084.7	270.5	220.6	49.89	5.422	
6,460.0	6,378.2	6,431.8	6,321.8	22.7	27.0	-0.34	-4.5	-1,097.1	271.0	220.6	50.45	5.372	
6,500.0	6,417.4	6,471.8	6,360.9	22.9	27.2	-0.34	-4.5	-1,105.4	271.4	220.5	50.83	5.339	
6,543.5	6,460.0	6,515.3	6,403.5	23.0	27.4	-0.34	-4.6	-1,114.5	271.7	220.5	51.23	5.305	
6,555.0	6,471.2	6,526.8	6,414.7	23.1	27.4	-0.34	-4.6	-1,116.9	271.8	220.5	51.33	5.296	
6,600.0	6,515.4	6,572.0	6,459.0	23.3	27.7	-0.35	-4.6	-1,126.3	272.5	220.8	51.74	5.267	
6,650.0	6,564.5	6,623.2	6,509.1	23.5	27.9	-0.35	-4.7	-1,136.8	273.5	221.3	52.21	5.238	
6,700.0	6,613.7	6,674.4	6,559.2	23.7	28.1	-0.35	-4.7	-1,147.0	274.7	222.0	52.68	5.214	
6,745.0	6,658.1	6,720.5	6,604.4	23.9	28.3	-0.35	-4.8	-1,156.1	276.0	222.9	53.10	5.197	
6,800.0	6,712.4	6,776.8	6,659.7	24.2	28.6	-0.35	-4.8	-1,166.9	277.8	224.2	53.61	5.181	
6,840.0	6,751.9	6,817.8	6,700.0	24.3	28.8	-0.35	-4.8	-1,174.6	279.2	225.3	53.97	5.174	
6,900.0	6,811.3	6,879.2	6,760.4	24.6	29.1	-0.35	-4.9	-1,185.9	281.7	227.2	54.51	5.167	
6,935.0	6,846.0	6,915.1	6,795.6	24.7	29.2	-0.35	-4.9	-1,192.3	283.2	228.4	54.82	5.166	
7,000.0	6,910.5	6,981.7	6,861.2	25.0	29.5	-0.35	-4.9	-1,203.9	286.4	231.0	55.40	5.170	
7,030.0	6,940.3	7,012.4	6,891.5	25.1	29.7	-0.35	-5.0	-1,209.2	288.0	232.4	55.66	5.175	
7,100.0	7,009.8	7,084.1	6,962.2	25.4	30.0	-0.35	-5.0	-1,221.1	292.0	235.8	56.26	5.191	
7,125.0	7,034.7	7,109.7	6,987.4	25.5	30.1	-0.35	-5.0	-1,225.3	293.6	237.1	56.47	5.199	
7,200.0	7,109.4	7,186.5	7,063.3	25.8	30.4	-0.35	-5.1	-1,237.4	298.5	241.4	57.10	5.228	
7,220.0	7,129.3	7,207.0	7,083.5	25.9	30.5	-0.35	-5.1	-1,240.5	299.9	242.6	57.26	5.237	
7,300.0	7,209.1	7,289.0	7,164.6	26.2	30.9	-0.34	-5.1	-1,252.7	305.8	247.9	57.90	5.281	
7,315.0	7,224.0	7,304.3	7,179.8	26.2	31.0	-0.34	-5.1	-1,255.0	307.0	248.9	58.02	5.291	
7,400.0	7,308.9	7,391.4	7,266.0	26.5	31.3	-0.34	-5.2	-1,267.2	314.0	255.3	58.68	5.350	
7,410.0	7,318.9	7,401.6	7,276.1	26.6	31.4	-0.34	-5.2	-1,268.6	314.8	256.1	58.75	5.358	
7,500.0	7,408.8	7,493.8	7,367.5	26.9	31.8	-0.33	-5.3	-1,280.8	323.0	263.5	59.42	5.435	
7,505.0	7,413.8	7,499.0	7,372.6	26.9	31.8	-0.33	-5.3	-1,281.4	323.4	264.0	59.45	5.440	
7,600.0	7,508.8	7,596.3	7,469.2	27.1	32.2	-0.32	-5.3	-1,293.4	332.8	272.7	60.11	5.537	
7,693.5	7,602.3	7,692.1	7,564.4	27.3	32.6	-90.47	-5.3	-1,304.4	342.8	282.2	60.61	5.656	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,695.0	7,603.8	7,693.6	7,565.9	27.3	32.6	-90.47	-5.3	-1,304.6	342.9	282.3	60.61	5.658	
7,700.0	7,608.8	7,698.7	7,571.0	27.3	32.6	-90.47	-5.3	-1,305.1	343.5	282.9	60.63	5.665	
7,790.0	7,698.8	7,791.0	7,662.7	27.3	33.0	-90.46	-5.4	-1,314.9	353.0	292.0	61.00	5.788	
7,800.0	7,708.8	7,801.3	7,672.9	27.3	33.0	-90.46	-5.4	-1,316.0	354.1	293.0	61.04	5.801	
7,885.0	7,793.8	7,888.6	7,759.9	27.3	33.4	-90.46	-5.4	-1,324.5	362.3	301.0	61.38	5.904	
7,900.0	7,808.8	7,904.0	7,775.2	27.3	33.5	-90.46	-5.4	-1,325.9	363.7	302.3	61.44	5.921	
7,980.0	7,888.8	7,986.4	7,857.2	27.4	33.8	-90.45	-5.5	-1,333.2	370.8	309.1	61.74	6.006	
8,000.0	7,908.8	8,007.0	7,877.7	27.4	33.9	-90.45	-5.5	-1,334.9	372.5	310.7	61.82	6.026	
8,075.0	7,983.8	8,084.3	7,954.8	27.4	34.2	-90.45	-5.5	-1,341.1	378.5	316.4	62.10	6.096	
8,100.0	8,008.8	8,110.0	7,980.5	27.4	34.2	-90.45	-5.5	-1,343.1	380.4	318.2	62.19	6.117	
8,170.0	8,078.8	8,182.3	8,052.5	27.4	34.5	-90.44	-5.5	-1,348.2	385.4	322.9	62.44	6.172	
8,200.0	8,108.8	8,213.2	8,083.4	27.4	34.6	-90.44	-5.5	-1,350.3	387.4	324.8	62.54	6.194	
8,265.0	8,173.8	8,280.4	8,150.5	27.4	34.9	-90.44	-5.5	-1,354.5	391.4	328.7	62.76	6.237	
8,300.0	8,208.8	8,316.6	8,186.6	27.4	35.0	-90.44	-5.6	-1,356.6	393.5	330.6	62.88	6.257	
8,360.0	8,268.8	8,378.6	8,248.6	27.5	35.2	-90.44	-5.6	-1,359.9	396.7	333.6	63.08	6.289	
8,400.0	8,308.8	8,420.0	8,289.9	27.5	35.4	-90.44	-5.6	-1,361.9	398.7	335.5	63.20	6.308	
8,455.0	8,363.8	8,477.0	8,346.8	27.5	35.5	-90.43	-5.6	-1,364.5	401.1	337.8	63.37	6.330	
8,500.0	8,408.8	8,523.6	8,393.3	27.5	35.7	-90.43	-5.6	-1,366.4	402.9	339.4	63.51	6.345	
8,550.0	8,458.8	8,575.3	8,445.1	27.5	35.9	-90.43	-5.6	-1,368.2	404.7	341.1	63.65	6.359	
8,600.0	8,508.8	8,627.2	8,496.9	27.5	36.0	-90.43	-5.6	-1,369.9	406.3	342.5	63.79	6.370	
8,645.0	8,553.8	8,673.8	8,543.5	27.5	36.2	-90.43	-5.6	-1,371.1	407.6	343.6	63.91	6.377	
8,700.0	8,608.8	8,730.8	8,600.5	27.6	36.3	-90.43	-5.6	-1,372.4	408.8	344.8	64.04	6.383	
8,740.0	8,648.8	8,772.3	8,642.0	27.6	36.4	-90.43	-5.6	-1,373.2	409.5	345.4	64.14	6.385	
8,800.0	8,708.8	8,834.5	8,704.2	27.6	36.6	-90.43	-5.6	-1,374.1	410.4	346.1	64.26	6.386	
8,835.0	8,743.8	8,870.8	8,740.5	27.6	36.7	-90.43	-5.6	-1,374.4	410.7	346.4	64.33	6.384	
8,900.0	8,808.8	8,938.2	8,807.9	27.6	36.8	-90.43	-5.6	-1,374.8	411.0	346.6	64.41	6.382	
8,930.0	8,838.8	8,969.1	8,838.8	27.6	36.8	-90.43	-5.6	-1,374.8	411.1	346.6	64.42	6.381	
9,000.0	8,908.8	9,039.1	8,908.8	27.6	36.8	-90.43	-5.6	-1,374.8	411.1	346.6	64.45	6.378	
9,025.0	8,933.8	9,064.1	8,933.8	27.7	36.8	-90.43	-5.6	-1,374.8	411.1	346.6	64.46	6.377	
9,100.0	9,008.8	9,139.1	9,008.8	27.7	36.8	-90.43	-5.6	-1,374.8	411.1	346.6	64.50	6.373	
9,120.0	9,028.8	9,159.1	9,028.8	27.7	36.8	-90.43	-5.6	-1,374.8	411.1	346.6	64.51	6.372	
9,200.0	9,108.8	9,239.1	9,108.8	27.7	36.9	-90.43	-5.6	-1,374.8	411.1	346.5	64.55	6.368	
9,215.0	9,123.8	9,254.1	9,123.8	27.7	36.9	-90.43	-5.6	-1,374.8	411.1	346.5	64.56	6.367	
9,300.0	9,208.8	9,339.1	9,208.8	27.7	36.9	-90.43	-5.6	-1,374.8	411.1	346.5	64.60	6.363	
9,310.0	9,218.8	9,349.1	9,218.8	27.7	36.9	-90.43	-5.6	-1,374.8	411.1	346.5	64.61	6.363	
9,400.0	9,308.8	9,439.1	9,308.8	27.8	36.9	-90.43	-5.6	-1,374.8	411.1	346.4	64.65	6.358	
9,405.0	9,313.8	9,444.1	9,313.8	27.8	36.9	-90.43	-5.6	-1,374.8	411.1	346.4	64.66	6.358	
9,500.0	9,408.8	9,539.1	9,408.8	27.8	36.9	-90.43	-5.6	-1,374.8	411.1	346.4	64.70	6.353	
9,595.0	9,503.8	9,634.1	9,503.8	27.8	36.9	-90.43	-5.6	-1,374.8	411.1	346.3	64.75	6.348	
9,600.0	9,508.8	9,639.1	9,508.8	27.8	36.9	-90.43	-5.6	-1,374.8	411.1	346.3	64.76	6.348	
9,690.0	9,598.8	9,729.1	9,598.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.3	64.80	6.343	
9,700.0	9,608.8	9,739.1	9,608.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.3	64.81	6.343	
9,785.0	9,693.8	9,824.1	9,693.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.2	64.85	6.339	
9,800.0	9,708.8	9,839.1	9,708.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.2	64.86	6.338	
9,880.0	9,788.8	9,919.1	9,788.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.2	64.90	6.334	
9,900.0	9,808.8	9,939.1	9,808.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.2	64.91	6.333	
9,975.0	9,883.8	10,014.1	9,883.8	27.9	37.0	-90.43	-5.6	-1,374.8	411.1	346.1	64.95	6.329	
10,000.0	9,908.8	10,039.1	9,908.8	28.0	37.0	-90.43	-5.6	-1,374.8	411.1	346.1	64.97	6.327	
10,070.0	9,978.8	10,109.1	9,978.8	28.0	37.0	-90.43	-5.6	-1,374.8	411.1	346.1	65.00	6.324	
10,100.0	10,008.8	10,139.1	10,008.8	28.0	37.0	-90.43	-5.6	-1,374.8	411.1	346.0	65.02	6.322	
10,165.0	10,073.8	10,204.1	10,073.8	28.0	37.1	-90.43	-5.6	-1,374.8	411.1	346.0	65.05	6.319	
10,200.0	10,108.8	10,239.1	10,108.8	28.0	37.1	-90.43	-5.6	-1,374.8	411.1	346.0	65.07	6.317	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS							Rule Assigned:						Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,260.0	10,168.8	10,299.1	10,168.8	28.0	37.1	-90.43	-5.6	-1,374.8	411.1	346.0	65.11	6.314		
10,300.0	10,208.8	10,339.1	10,208.8	28.0	37.1	-90.43	-5.6	-1,374.8	411.1	345.9	65.13	6.312		
10,355.0	10,263.8	10,394.1	10,263.8	28.1	37.1	-90.43	-5.6	-1,374.8	411.1	345.9	65.16	6.309		
10,400.0	10,308.8	10,439.1	10,308.8	28.1	37.1	-90.43	-5.6	-1,374.8	411.1	345.9	65.18	6.306		
10,450.0	10,358.8	10,489.1	10,358.8	28.1	37.1	-90.43	-5.6	-1,374.8	411.1	345.9	65.21	6.304		
10,500.0	10,408.8	10,539.1	10,408.8	28.1	37.1	-90.43	-5.6	-1,374.8	411.1	345.8	65.24	6.301		
10,545.0	10,453.8	10,584.1	10,453.8	28.1	37.1	-90.43	-5.6	-1,374.8	411.1	345.8	65.26	6.299		
10,600.0	10,508.8	10,639.1	10,508.8	28.1	37.2	-90.43	-5.6	-1,374.8	411.1	345.8	65.29	6.296		
10,640.0	10,548.8	10,679.1	10,548.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.8	65.31	6.294		
10,700.0	10,608.8	10,739.1	10,608.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.7	65.35	6.290		
10,735.0	10,643.8	10,774.1	10,643.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.7	65.37	6.289		
10,800.0	10,708.8	10,839.1	10,708.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.7	65.40	6.285		
10,830.0	10,738.8	10,869.1	10,738.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.6	65.42	6.283		
10,900.0	10,808.8	10,939.1	10,808.8	28.2	37.2	-90.43	-5.6	-1,374.8	411.1	345.6	65.46	6.280		
10,925.0	10,833.8	10,964.1	10,833.8	28.3	37.2	-90.43	-5.6	-1,374.8	411.1	345.6	65.47	6.278		
11,000.0	10,908.8	11,039.1	10,908.8	28.3	37.2	-90.43	-5.6	-1,374.8	411.1	345.5	65.52	6.274		
11,020.0	10,928.8	11,059.1	10,928.8	28.3	37.3	-90.43	-5.6	-1,374.8	411.1	345.5	65.53	6.273		
11,023.0	10,931.8	11,062.1	10,931.8	28.3	37.3	-90.43	-5.6	-1,374.8	411.1	345.5	65.53	6.273		
11,100.0	11,008.8	11,139.0	11,008.7	28.3	37.3	-90.28	-4.5	-1,374.8	411.1	345.5	65.57	6.269		
11,115.0	11,023.8	11,153.9	11,023.5	28.3	37.3	-90.11	-3.3	-1,374.8	411.1	345.5	65.58	6.268		
11,200.0	11,108.8	11,235.7	11,103.8	28.3	37.3	-88.02	11.6	-1,374.9	411.5	345.8	65.70	6.263		
11,210.0	11,118.8	11,244.9	11,112.7	28.3	37.3	-87.67	14.2	-1,375.0	411.6	345.9	65.71	6.264		
11,237.8	11,146.5	11,270.0	11,136.5	28.3	37.3	-86.59	22.0	-1,375.0	412.2	346.4	65.77	6.267		
11,250.0	11,158.8	11,280.8	11,146.6	28.3	37.3	-85.53	25.7	-1,375.1	412.5	346.7	65.79	6.270		
11,275.0	11,183.7	11,302.6	11,166.9	28.4	37.3	-84.44	33.9	-1,375.1	413.2	347.4	65.83	6.277		
11,300.0	11,208.6	11,325.0	11,187.2	28.4	37.3	-83.34	43.3	-1,375.2	414.1	348.3	65.85	6.289		
11,305.0	11,213.5	11,328.5	11,190.3	28.4	37.3	-83.17	44.9	-1,375.2	414.3	348.5	65.88	6.290		
11,325.0	11,233.3	11,345.5	11,205.4	28.4	37.3	-82.33	52.8	-1,375.3	415.2	349.3	65.90	6.300		
11,350.0	11,257.7	11,366.6	11,223.6	28.4	37.3	-81.31	63.3	-1,375.4	416.3	350.4	65.94	6.314		
11,375.0	11,281.9	11,387.4	11,241.2	28.4	37.3	-80.31	74.4	-1,375.5	417.6	351.6	65.97	6.329		
11,400.0	11,305.7	11,408.0	11,258.1	28.4	37.3	-79.34	86.2	-1,375.6	418.9	352.9	66.01	6.347		
11,425.0	11,329.0	11,428.3	11,274.3	28.4	37.3	-78.41	98.6	-1,375.7	420.3	354.3	66.04	6.365		
11,450.0	11,351.9	11,450.0	11,290.9	28.4	37.3	-77.45	112.4	-1,375.9	421.8	355.8	66.05	6.386		
11,475.0	11,374.1	11,468.6	11,304.6	28.4	37.3	-76.62	124.9	-1,376.0	423.3	357.2	66.11	6.403		
11,495.0	11,391.5	11,484.5	11,316.0	28.4	37.3	-75.95	136.0	-1,376.1	424.6	358.4	66.14	6.419		
11,500.0	11,395.8	11,488.4	11,318.7	28.4	37.3	-75.78	138.9	-1,376.1	424.9	358.7	66.15	6.423		
11,525.0	11,416.8	11,508.1	11,332.2	28.4	37.3	-74.98	153.3	-1,376.2	426.5	360.3	66.19	6.443		
11,550.0	11,437.0	11,527.7	11,344.9	28.4	37.3	-74.21	168.1	-1,376.4	428.0	361.8	66.24	6.462		
11,575.0	11,456.4	11,547.1	11,357.0	28.4	37.3	-73.48	183.3	-1,376.5	429.6	363.3	66.28	6.481		
11,590.0	11,467.7	11,558.7	11,363.9	28.4	37.3	-73.06	192.7	-1,376.6	430.5	364.2	66.31	6.493		
11,600.0	11,475.0	11,566.4	11,368.3	28.4	37.3	-72.79	198.9	-1,376.6	431.1	364.8	66.33	6.500		
11,625.0	11,492.7	11,585.6	11,379.0	28.4	37.3	-72.14	214.9	-1,376.8	432.6	366.3	66.38	6.518		
11,650.0	11,509.4	11,604.7	11,388.9	28.4	37.3	-71.53	231.2	-1,376.9	434.1	367.7	66.43	6.535		
11,675.0	11,525.2	11,625.0	11,398.8	28.4	37.3	-70.94	249.0	-1,377.1	435.5	369.0	66.47	6.552		
11,685.0	11,531.2	11,631.2	11,401.7	28.4	37.3	-70.75	254.5	-1,377.2	436.0	369.5	66.51	6.556		
11,700.0	11,539.9	11,642.6	11,406.7	28.4	37.3	-70.44	264.6	-1,377.2	436.8	370.3	66.54	6.565		
11,725.0	11,553.5	11,661.4	11,414.5	28.4	37.3	-69.95	281.8	-1,377.4	438.1	371.5	66.60	6.578		
11,750.0	11,566.0	11,680.1	11,421.7	28.4	37.3	-69.51	299.1	-1,377.6	439.3	372.6	66.65	6.590		
11,775.0	11,577.4	11,700.0	11,428.5	28.4	37.4	-69.10	317.8	-1,377.7	440.3	373.6	66.70	6.602		
11,780.0	11,579.5	11,700.0	11,428.5	28.4	37.4	-69.08	317.8	-1,377.7	440.5	373.8	66.75	6.600		
11,800.0	11,587.6	11,717.5	11,433.8	28.5	37.4	-68.77	334.4	-1,377.9	441.3	374.5	66.77	6.609		
11,825.0	11,596.5	11,736.1	11,438.8	28.5	37.4	-68.46	352.3	-1,378.0	442.2	375.3	66.83	6.616		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,850.0	11,604.3	11,754.6	11,443.1	28.5	37.4	-68.19	370.3	-1,378.2	442.9	376.0	66.89	6.622	
11,875.0	11,610.7	11,775.0	11,447.0	28.5	37.4	-67.96	390.4	-1,378.4	443.6	376.6	66.93	6.627	
11,900.0	11,616.0	11,791.6	11,449.5	28.5	37.4	-67.80	406.8	-1,378.5	444.1	377.1	67.00	6.628	
11,925.0	11,619.9	11,810.1	11,451.7	28.5	37.4	-67.66	425.1	-1,378.7	444.4	377.4	67.05	6.629	
11,950.0	11,622.5	11,828.5	11,453.2	28.6	37.4	-67.58	443.5	-1,378.9	444.7	377.6	67.10	6.627	
11,970.0	11,623.7	11,843.3	11,453.8	28.6	37.4	-67.54	458.2	-1,379.0	444.8	377.7	67.14	6.625	
11,975.0	11,623.8	11,850.0	11,454.0	28.6	37.4	-67.53	464.9	-1,379.1	444.8	377.7	67.14	6.625	
11,978.2	11,623.9	11,850.0	11,454.0	28.6	37.4	-67.53	464.9	-1,379.1	444.8	377.7	67.15	6.624	
11,987.8	11,624.0	11,856.9	11,454.0	28.6	37.4	-67.53	471.8	-1,379.1	444.8	377.7	67.17	6.622	
11,992.1	11,624.0	11,860.5	11,454.0	28.6	37.4	-67.53	475.5	-1,379.2	444.8	377.6	67.18	6.622	
12,000.0	11,624.0	11,868.4	11,454.0	28.6	37.5	-67.53	483.4	-1,379.2	444.8	377.6	67.19	6.620	
12,065.0	11,624.0	11,933.4	11,454.0	28.7	37.5	-67.53	548.4	-1,379.8	444.8	377.5	67.32	6.608	
12,100.0	11,624.0	11,968.4	11,454.0	28.7	37.5	-67.53	583.4	-1,380.1	444.8	377.4	67.39	6.601	
12,160.0	11,624.0	12,028.4	11,454.0	28.8	37.6	-67.53	643.4	-1,380.7	444.8	377.3	67.53	6.587	
12,200.0	11,624.0	12,068.4	11,454.0	28.9	37.6	-67.53	683.4	-1,381.1	444.8	377.2	67.63	6.577	
12,255.0	11,624.0	12,123.4	11,454.0	28.9	37.7	-67.53	738.4	-1,381.6	444.8	377.1	67.78	6.563	
12,300.0	11,624.0	12,168.4	11,454.0	29.0	37.8	-67.53	783.4	-1,382.0	444.8	376.9	67.90	6.551	
12,350.0	11,624.0	12,218.4	11,454.0	29.1	37.8	-67.53	833.4	-1,382.4	444.8	376.8	68.05	6.537	
12,400.0	11,624.0	12,268.4	11,454.0	29.2	37.9	-67.53	883.4	-1,382.9	444.8	376.6	68.21	6.522	
12,445.0	11,624.0	12,313.4	11,454.0	29.3	38.0	-67.53	928.4	-1,383.3	444.8	376.5	68.35	6.508	
12,500.0	11,624.0	12,368.4	11,454.0	29.4	38.1	-67.53	983.4	-1,383.8	444.8	376.3	68.54	6.490	
12,540.0	11,624.0	12,408.4	11,454.0	29.5	38.1	-67.53	1,023.4	-1,384.2	444.8	376.1	68.69	6.476	
12,600.0	11,624.0	12,468.4	11,454.0	29.6	38.2	-67.53	1,083.4	-1,384.7	444.8	375.9	68.91	6.455	
12,635.0	11,624.0	12,503.4	11,454.0	29.7	38.3	-67.53	1,118.4	-1,385.0	444.8	375.8	69.05	6.442	
12,700.0	11,624.0	12,568.4	11,454.0	29.8	38.4	-67.53	1,183.4	-1,385.6	444.8	375.5	69.32	6.417	
12,730.0	11,624.0	12,598.4	11,454.0	29.9	38.5	-67.53	1,213.4	-1,385.9	444.8	375.4	69.44	6.405	
12,800.0	11,624.0	12,668.4	11,454.0	30.1	38.6	-67.53	1,283.4	-1,386.5	444.8	375.1	69.75	6.377	
12,825.0	11,624.0	12,693.4	11,454.0	30.2	38.7	-67.53	1,308.3	-1,386.8	444.8	375.0	69.87	6.367	
12,900.0	11,624.0	12,768.4	11,454.0	30.4	38.8	-67.53	1,383.3	-1,387.4	444.8	374.6	70.22	6.335	
12,920.0	11,624.0	12,788.4	11,454.0	30.4	38.9	-67.53	1,403.3	-1,387.6	444.8	374.5	70.32	6.326	
13,000.0	11,624.0	12,868.4	11,454.0	30.7	39.0	-67.53	1,483.3	-1,388.4	444.8	374.1	70.71	6.290	
13,015.0	11,624.0	12,883.4	11,454.0	30.7	39.1	-67.53	1,498.3	-1,388.5	444.8	374.0	70.79	6.284	
13,100.0	11,624.0	12,968.4	11,454.0	31.0	39.3	-67.53	1,583.3	-1,389.3	444.8	373.6	71.24	6.244	
13,110.0	11,624.0	12,978.4	11,454.0	31.0	39.3	-67.53	1,593.3	-1,389.4	444.8	373.5	71.29	6.239	
13,200.0	11,624.0	13,068.4	11,454.0	31.3	39.5	-67.53	1,683.3	-1,390.2	444.8	373.0	71.80	6.196	
13,205.0	11,624.0	13,073.4	11,454.0	31.3	39.5	-67.53	1,688.3	-1,390.2	444.8	373.0	71.82	6.193	
13,300.0	11,624.0	13,168.4	11,454.0	31.6	39.8	-67.53	1,783.3	-1,391.1	444.8	372.4	72.38	6.146	
13,395.0	11,624.0	13,263.4	11,454.0	31.9	40.1	-67.53	1,878.3	-1,391.9	444.8	371.9	72.96	6.097	
13,400.0	11,624.0	13,268.4	11,454.0	32.0	40.1	-67.53	1,883.3	-1,392.0	444.8	371.8	72.99	6.094	
13,490.0	11,624.0	13,358.4	11,454.0	32.3	40.3	-67.53	1,973.3	-1,392.8	444.8	371.3	73.56	6.047	
13,500.0	11,624.0	13,368.4	11,454.0	32.3	40.4	-67.53	1,983.3	-1,392.9	444.8	371.2	73.63	6.041	
13,585.0	11,624.0	13,453.4	11,454.0	32.6	40.6	-67.53	2,068.3	-1,393.7	444.8	370.6	74.19	5.996	
13,600.0	11,624.0	13,468.4	11,454.0	32.7	40.7	-67.53	2,083.3	-1,393.8	444.8	370.5	74.29	5.987	
13,680.0	11,624.0	13,548.4	11,454.0	33.0	40.9	-67.53	2,163.3	-1,394.5	444.8	370.0	74.84	5.943	
13,700.0	11,624.0	13,568.4	11,454.0	33.1	41.0	-67.53	2,183.3	-1,394.7	444.8	369.8	74.98	5.932	
13,775.0	11,624.0	13,643.4	11,454.0	33.4	41.2	-67.53	2,258.3	-1,395.4	444.8	369.3	75.52	5.890	
13,800.0	11,624.0	13,668.4	11,454.0	33.5	41.3	-67.53	2,283.3	-1,395.6	444.8	369.1	75.70	5.876	
13,870.0	11,624.0	13,738.4	11,454.0	33.8	41.5	-67.53	2,353.3	-1,396.3	444.8	368.6	76.21	5.837	
13,900.0	11,624.0	13,768.4	11,454.0	33.9	41.6	-67.53	2,383.3	-1,396.6	444.8	368.4	76.44	5.820	
13,965.0	11,624.0	13,833.4	11,454.0	34.2	41.9	-67.53	2,448.3	-1,397.1	444.8	367.9	76.93	5.782	
14,000.0	11,624.0	13,868.4	11,454.0	34.3	42.0	-67.53	2,483.3	-1,397.5	444.8	367.6	77.20	5.762	
14,060.0	11,624.0	13,928.4	11,454.0	34.6	42.2	-67.53	2,543.3	-1,398.0	444.8	367.1	77.67	5.727	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.0	11,624.0	13,968.4	11,454.0	34.8	42.4	-67.53	2,583.3	-1,398.4	444.8	366.8	77.98	5.704	
14,155.0	11,624.0	14,023.4	11,454.0	35.0	42.6	-67.53	2,638.3	-1,398.9	444.8	366.4	78.42	5.672	
14,200.0	11,624.0	14,068.4	11,454.0	35.2	42.7	-67.53	2,683.3	-1,399.3	444.8	366.0	78.79	5.646	
14,250.0	11,624.0	14,118.4	11,454.0	35.5	42.9	-67.53	2,733.3	-1,399.7	444.8	365.6	79.20	5.616	
14,300.0	11,624.0	14,168.4	11,454.0	35.7	43.1	-67.53	2,783.3	-1,400.2	444.8	365.2	79.62	5.587	
14,345.0	11,624.0	14,213.4	11,454.0	35.9	43.3	-67.53	2,828.3	-1,400.6	444.8	364.8	80.00	5.560	
14,400.0	11,624.0	14,268.4	11,454.0	36.2	43.5	-67.53	2,883.3	-1,401.1	444.8	364.3	80.47	5.528	
14,440.0	11,624.0	14,308.4	11,454.0	36.4	43.7	-67.53	2,923.3	-1,401.5	444.8	364.0	80.81	5.504	
14,500.0	11,624.0	14,368.4	11,454.0	36.6	43.9	-67.53	2,983.3	-1,402.0	444.8	363.5	81.33	5.469	
14,535.0	11,624.0	14,403.4	11,454.0	36.8	44.0	-67.53	3,018.3	-1,402.3	444.8	363.2	81.64	5.448	
14,600.0	11,624.0	14,468.4	11,454.0	37.1	44.3	-67.53	3,083.3	-1,402.9	444.8	362.6	82.22	5.410	
14,630.0	11,624.0	14,498.4	11,454.0	37.3	44.4	-67.53	3,113.3	-1,403.2	444.8	362.3	82.49	5.392	
14,700.0	11,624.0	14,568.4	11,454.0	37.6	44.7	-67.53	3,183.3	-1,403.8	444.8	361.7	83.13	5.351	
14,725.0	11,624.0	14,593.4	11,454.0	37.8	44.8	-67.53	3,208.3	-1,404.1	444.8	361.5	83.36	5.336	
14,800.0	11,624.0	14,668.4	11,454.0	38.1	45.2	-67.53	3,283.3	-1,404.8	444.8	360.8	84.05	5.292	
14,820.0	11,624.0	14,688.4	11,454.0	38.2	45.3	-67.53	3,303.3	-1,404.9	444.8	360.6	84.24	5.280	
14,900.0	11,624.0	14,768.4	11,454.0	38.7	45.6	-67.53	3,383.3	-1,405.7	444.8	359.8	85.00	5.233	
14,915.0	11,624.0	14,783.4	11,454.0	38.7	45.7	-67.53	3,398.3	-1,405.8	444.8	359.7	85.14	5.225	
15,000.0	11,624.0	14,868.4	11,454.0	39.2	46.1	-67.53	3,483.3	-1,406.6	444.8	358.9	85.95	5.175	
15,010.0	11,624.0	14,878.4	11,454.0	39.2	46.1	-67.53	3,493.3	-1,406.7	444.8	358.8	86.05	5.169	
15,100.0	11,624.0	14,968.4	11,454.0	39.7	46.5	-67.53	3,583.3	-1,407.5	444.8	357.9	86.93	5.117	
15,105.0	11,624.0	14,973.4	11,454.0	39.7	46.5	-67.53	3,588.3	-1,407.5	444.8	357.8	86.98	5.114	
15,200.0	11,624.0	15,068.4	11,454.0	40.2	47.0	-67.53	3,683.3	-1,408.4	444.8	356.9	87.92	5.059	
15,295.0	11,624.0	15,163.4	11,454.0	40.8	47.4	-67.53	3,778.2	-1,409.3	444.8	355.9	88.88	5.005	
15,300.0	11,624.0	15,168.4	11,454.0	40.8	47.4	-67.53	3,783.2	-1,409.3	444.8	355.9	88.93	5.002	
15,390.0	11,624.0	15,258.4	11,454.0	41.3	47.9	-67.53	3,873.2	-1,410.1	444.8	355.0	89.85	4.951	
15,400.0	11,624.0	15,268.4	11,454.0	41.3	47.9	-67.53	3,883.2	-1,410.2	444.8	354.9	89.95	4.945	
15,485.0	11,624.0	15,353.4	11,454.0	41.8	48.3	-67.53	3,968.2	-1,411.0	444.8	354.0	90.83	4.897	
15,500.0	11,624.0	15,368.4	11,454.0	41.9	48.4	-67.53	3,983.2	-1,411.1	444.8	353.8	90.98	4.889	
15,580.0	11,624.0	15,448.4	11,454.0	42.4	48.8	-67.53	4,063.2	-1,411.9	444.8	353.0	91.82	4.844	
15,600.0	11,624.0	15,468.4	11,454.0	42.5	48.9	-67.53	4,083.2	-1,412.0	444.8	352.8	92.03	4.833	
15,675.0	11,624.0	15,543.4	11,454.0	42.9	49.3	-67.53	4,158.2	-1,412.7	444.8	352.0	92.83	4.792	
15,700.0	11,624.0	15,568.4	11,454.0	43.0	49.4	-67.53	4,183.2	-1,413.0	444.8	351.7	93.10	4.778	
15,770.0	11,624.0	15,638.4	11,454.0	43.5	49.8	-67.53	4,253.2	-1,413.6	444.8	351.0	93.85	4.740	
15,800.0	11,624.0	15,668.4	11,454.0	43.6	49.9	-67.53	4,283.2	-1,413.9	444.8	350.6	94.17	4.723	
15,865.0	11,624.0	15,733.4	11,454.0	44.0	50.2	-67.53	4,348.2	-1,414.5	444.8	349.9	94.88	4.688	
15,900.0	11,624.0	15,768.4	11,454.0	44.2	50.4	-67.53	4,383.2	-1,414.8	444.8	349.5	95.26	4.669	
15,960.0	11,624.0	15,828.4	11,454.0	44.6	50.7	-67.53	4,443.2	-1,415.3	444.8	348.9	95.92	4.637	
16,000.0	11,624.0	15,868.4	11,454.0	44.8	50.9	-67.53	4,483.2	-1,415.7	444.8	348.4	96.36	4.616	
16,055.0	11,624.0	15,923.4	11,454.0	45.1	51.2	-67.53	4,538.2	-1,416.2	444.8	347.8	96.97	4.587	
16,100.0	11,624.0	15,968.4	11,454.0	45.4	51.5	-67.53	4,583.2	-1,416.6	444.8	347.3	97.47	4.563	
16,150.0	11,624.0	16,018.4	11,454.0	45.7	51.7	-67.53	4,633.2	-1,417.1	444.8	346.8	98.03	4.537	
16,200.0	11,624.0	16,068.4	11,454.0	46.0	52.0	-67.53	4,683.2	-1,417.5	444.8	346.2	98.59	4.512	
16,245.0	11,624.0	16,113.4	11,454.0	46.3	52.2	-67.53	4,728.2	-1,417.9	444.8	345.7	99.10	4.488	
16,300.0	11,624.0	16,168.4	11,454.0	46.6	52.5	-67.53	4,783.2	-1,418.4	444.8	345.1	99.73	4.460	
16,340.0	11,624.0	16,208.4	11,454.0	46.8	52.7	-67.53	4,823.2	-1,418.8	444.8	344.6	100.18	4.440	
16,400.0	11,624.0	16,268.4	11,454.0	47.2	53.1	-67.53	4,883.2	-1,419.3	444.8	343.9	100.87	4.410	
16,435.0	11,624.0	16,303.4	11,454.0	47.4	53.3	-67.53	4,918.2	-1,419.7	444.8	343.5	101.27	4.392	
16,500.0	11,624.0	16,368.4	11,454.0	47.8	53.6	-67.53	4,983.2	-1,420.2	444.8	342.8	102.02	4.360	
16,530.0	11,624.0	16,398.4	11,454.0	48.0	53.8	-67.53	5,013.2	-1,420.5	444.8	342.4	102.37	4.345	
16,600.0	11,624.0	16,468.4	11,454.0	48.4	54.2	-67.53	5,083.2	-1,421.2	444.8	341.6	103.19	4.311	
16,625.0	11,624.0	16,493.4	11,454.0	48.6	54.3	-67.53	5,108.2	-1,421.4	444.8	341.3	103.48	4.298	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,700.0	11,624.0	16,568.4	11,454.0	49.1	54.7	-67.53	5,183.2	-1,422.1	444.8	340.4	104.36	4.262	
16,720.0	11,624.0	16,588.4	11,454.0	49.2	54.8	-67.53	5,203.2	-1,422.2	444.8	340.2	104.60	4.253	
16,800.0	11,624.0	16,668.4	11,454.0	49.7	55.3	-67.53	5,283.2	-1,423.0	444.8	339.3	105.54	4.214	
16,815.0	11,624.0	16,683.4	11,454.0	49.8	55.4	-67.53	5,298.2	-1,423.1	444.8	339.1	105.72	4.207	
16,900.0	11,624.0	16,768.4	11,454.0	50.3	55.9	-67.53	5,383.2	-1,423.9	444.8	338.1	106.73	4.167	
16,910.0	11,624.0	16,778.4	11,454.0	50.4	55.9	-67.53	5,393.2	-1,424.0	444.8	337.9	106.85	4.163	
17,000.0	11,624.0	16,868.4	11,454.0	50.9	56.4	-67.53	5,483.2	-1,424.8	444.8	336.9	107.93	4.121	
17,005.0	11,624.0	16,873.4	11,454.0	51.0	56.5	-67.53	5,488.2	-1,424.8	444.8	336.8	107.99	4.119	
17,100.0	11,624.0	16,968.4	11,454.0	51.6	57.0	-67.53	5,583.2	-1,425.7	444.8	335.7	109.14	4.075	
17,195.0	11,624.0	17,063.4	11,454.0	52.2	57.5	-67.53	5,678.2	-1,426.6	444.8	334.5	110.30	4.033	
17,200.0	11,624.0	17,068.4	11,454.0	52.2	57.6	-67.53	5,683.2	-1,426.6	444.8	334.4	110.36	4.031	
17,290.0	11,624.0	17,158.4	11,454.0	52.8	58.1	-67.53	5,773.2	-1,427.4	444.8	333.3	111.46	3.991	
17,300.0	11,624.0	17,168.4	11,454.0	52.9	58.2	-67.53	5,783.2	-1,427.5	444.8	333.2	111.58	3.986	
17,385.0	11,624.0	17,253.4	11,454.0	53.4	58.7	-67.53	5,868.2	-1,428.3	444.8	332.2	112.63	3.949	
17,400.0	11,624.0	17,268.4	11,454.0	53.5	58.8	-67.53	5,883.2	-1,428.4	444.8	332.0	112.81	3.943	
17,480.0	11,624.0	17,348.4	11,454.0	54.0	59.2	-67.53	5,963.2	-1,429.2	444.8	331.0	113.80	3.909	
17,500.0	11,624.0	17,368.4	11,454.0	54.1	59.3	-67.53	5,983.2	-1,429.4	444.8	330.7	114.05	3.900	
17,575.0	11,624.0	17,443.4	11,454.0	54.6	59.8	-67.53	6,058.2	-1,430.0	444.8	329.8	114.98	3.868	
17,600.0	11,624.0	17,468.4	11,454.0	54.8	59.9	-67.53	6,083.2	-1,430.3	444.8	329.5	115.29	3.858	
17,670.0	11,624.0	17,538.4	11,454.0	55.3	60.4	-67.53	6,153.1	-1,430.9	444.8	328.6	116.17	3.829	
17,700.0	11,624.0	17,568.4	11,454.0	55.5	60.5	-67.53	6,183.1	-1,431.2	444.8	328.2	116.55	3.816	
17,765.0	11,624.0	17,633.4	11,454.0	55.9	60.9	-67.53	6,248.1	-1,431.8	444.8	327.4	117.36	3.790	
17,800.0	11,624.0	17,668.4	11,454.0	56.1	61.1	-67.53	6,283.1	-1,432.1	444.8	327.0	117.81	3.776	
17,860.0	11,624.0	17,728.4	11,454.0	56.5	61.5	-67.53	6,343.1	-1,432.6	444.8	326.2	118.56	3.751	
17,900.0	11,624.0	17,768.4	11,454.0	56.8	61.8	-67.53	6,383.1	-1,433.0	444.8	325.7	119.07	3.736	
17,955.0	11,624.0	17,823.4	11,454.0	57.1	62.1	-67.53	6,438.1	-1,433.5	444.8	325.0	119.77	3.714	
18,000.0	11,624.0	17,868.4	11,454.0	57.4	62.4	-67.53	6,483.1	-1,433.9	444.8	324.4	120.34	3.696	
18,050.0	11,624.0	17,918.4	11,454.0	57.8	62.7	-67.53	6,533.1	-1,434.4	444.8	323.8	120.98	3.677	
18,100.0	11,624.0	17,968.4	11,454.0	58.1	63.0	-67.53	6,583.1	-1,434.8	444.8	323.2	121.62	3.657	
18,145.0	11,624.0	18,013.4	11,454.0	58.4	63.3	-67.53	6,628.1	-1,435.2	444.8	322.6	122.20	3.640	
18,200.0	11,624.0	18,068.4	11,454.0	58.8	63.6	-67.53	6,683.1	-1,435.7	444.8	321.9	122.90	3.619	
18,240.0	11,624.0	18,108.4	11,454.0	59.0	63.8	-67.53	6,723.1	-1,436.1	444.8	321.4	123.42	3.604	
18,300.0	11,624.0	18,168.4	11,454.0	59.4	64.2	-67.53	6,783.1	-1,436.6	444.8	320.6	124.19	3.582	
18,335.0	11,624.0	18,203.4	11,454.0	59.7	64.4	-67.53	6,818.1	-1,437.0	444.8	320.1	124.64	3.569	
18,400.0	11,624.0	18,268.4	11,454.0	60.1	64.8	-67.53	6,883.1	-1,437.6	444.8	319.3	125.48	3.545	
18,430.0	11,624.0	18,298.4	11,454.0	60.3	65.0	-67.53	6,913.1	-1,437.8	444.8	318.9	125.87	3.534	
18,500.0	11,624.0	18,368.4	11,454.0	60.8	65.5	-67.53	6,983.1	-1,438.5	444.8	318.0	126.78	3.508	
18,525.0	11,624.0	18,393.4	11,454.0	61.0	65.6	-67.53	7,008.1	-1,438.7	444.8	317.7	127.11	3.499	
18,600.0	11,624.0	18,468.4	11,454.0	61.5	66.1	-67.53	7,083.1	-1,439.4	444.8	316.7	128.09	3.473	
18,620.0	11,624.0	18,488.4	11,454.0	61.6	66.2	-67.53	7,103.1	-1,439.6	444.8	316.4	128.35	3.465	
18,700.0	11,624.0	18,568.4	11,454.0	62.1	66.7	-67.53	7,183.1	-1,440.3	444.8	315.4	129.40	3.437	
18,715.0	11,624.0	18,583.4	11,454.0	62.2	66.8	-67.53	7,198.1	-1,440.4	444.8	315.2	129.59	3.432	
18,800.0	11,624.0	18,668.4	11,454.0	62.8	67.4	-67.53	7,283.1	-1,441.2	444.8	314.1	130.71	3.403	
18,810.0	11,624.0	18,678.4	11,454.0	62.9	67.4	-67.53	7,293.1	-1,441.3	444.8	313.9	130.84	3.399	
18,900.0	11,624.0	18,768.4	11,454.0	63.5	68.0	-67.53	7,383.1	-1,442.1	444.8	312.8	132.03	3.369	
18,905.0	11,624.0	18,773.4	11,454.0	63.5	68.0	-67.53	7,388.1	-1,442.2	444.8	312.7	132.10	3.367	
19,000.0	11,624.0	18,868.4	11,454.0	64.2	68.6	-67.53	7,483.1	-1,443.0	444.8	311.4	133.35	3.335	
19,095.0	11,624.0	18,963.4	11,454.0	64.8	69.2	-67.53	7,578.1	-1,443.9	444.8	310.2	134.61	3.304	
19,100.0	11,624.0	18,968.4	11,454.0	64.9	69.3	-67.53	7,583.1	-1,443.9	444.8	310.1	134.68	3.303	
19,190.0	11,624.0	19,058.4	11,454.0	65.5	69.9	-67.53	7,673.1	-1,444.8	444.8	308.9	135.88	3.273	
19,200.0	11,624.0	19,068.4	11,454.0	65.6	69.9	-67.53	7,683.1	-1,444.8	444.8	308.8	136.01	3.270	
19,285.0	11,624.0	19,153.4	11,454.0	66.1	70.5	-67.53	7,768.1	-1,445.6	444.8	307.6	137.15	3.243	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS													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	
19,300.0	11,624.0	19,168.4	11,454.0	66.2	70.6	-67.53	7,783.1	-1,445.8	444.8	307.4	137.35	3.238	
19,380.0	11,624.0	19,248.4	11,454.0	66.8	71.1	-67.53	7,863.1	-1,446.5	444.8	306.4	138.42	3.213	
19,400.0	11,624.0	19,268.4	11,454.0	66.9	71.2	-67.53	7,883.1	-1,446.7	444.8	306.1	138.69	3.207	
19,475.0	11,624.0	19,343.4	11,454.0	67.5	71.7	-67.53	7,958.1	-1,447.4	444.8	305.1	139.70	3.184	
19,500.0	11,624.0	19,368.4	11,454.0	67.6	71.9	-67.53	7,983.1	-1,447.6	444.8	304.7	140.03	3.176	
19,570.0	11,624.0	19,438.4	11,454.0	68.1	72.3	-67.53	8,053.1	-1,448.2	444.8	303.8	140.98	3.155	
19,600.0	11,624.0	19,468.4	11,454.0	68.3	72.5	-67.53	8,083.1	-1,448.5	444.8	303.4	141.38	3.146	
19,665.0	11,624.0	19,533.4	11,454.0	68.8	72.9	-67.53	8,148.1	-1,449.1	444.8	302.5	142.26	3.127	
19,700.0	11,624.0	19,568.4	11,454.0	69.0	73.2	-67.53	8,183.1	-1,449.4	444.8	302.0	142.73	3.116	
19,760.0	11,624.0	19,628.4	11,454.0	69.4	73.6	-67.53	8,243.1	-1,449.9	444.8	301.2	143.54	3.099	
19,800.0	11,624.0	19,668.4	11,454.0	69.7	73.8	-67.53	8,283.1	-1,450.3	444.8	300.7	144.09	3.087	
19,855.0	11,624.0	19,723.4	11,454.0	70.1	74.2	-67.53	8,338.1	-1,450.8	444.8	299.9	144.83	3.071	
19,900.0	11,624.0	19,768.4	11,454.0	70.4	74.5	-67.53	8,383.1	-1,451.2	444.8	299.3	145.45	3.058	
19,950.0	11,624.0	19,818.4	11,454.0	70.8	74.8	-67.53	8,433.1	-1,451.7	444.8	298.7	146.13	3.044	
20,000.0	11,624.0	19,868.4	11,454.0	71.1	75.2	-67.53	8,483.1	-1,452.1	444.8	298.0	146.81	3.030	
20,045.0	11,624.0	19,913.4	11,454.0	71.4	75.5	-67.53	8,528.0	-1,452.5	444.8	297.4	147.42	3.017	
20,100.0	11,624.0	19,968.4	11,454.0	71.8	75.8	-67.53	8,583.0	-1,453.0	444.8	296.6	148.17	3.002	
20,140.0	11,624.0	20,008.4	11,454.0	72.1	76.1	-67.53	8,623.0	-1,453.4	444.8	296.1	148.72	2.991	
20,200.0	11,624.0	20,068.4	11,454.0	72.5	76.5	-67.53	8,683.0	-1,454.0	444.8	295.2	149.54	2.974	
20,235.0	11,624.0	20,103.4	11,454.0	72.8	76.7	-67.53	8,718.0	-1,454.3	444.8	294.8	150.02	2.965	
20,300.0	11,624.0	20,168.4	11,454.0	73.2	77.2	-67.53	8,783.0	-1,454.9	444.8	293.9	150.91	2.947	
20,330.0	11,624.0	20,198.4	11,454.0	73.4	77.4	-67.53	8,813.0	-1,455.1	444.8	293.5	151.33	2.939	
20,400.0	11,624.0	20,268.4	11,454.0	73.9	77.8	-67.53	8,883.0	-1,455.8	444.8	292.5	152.29	2.921	
20,425.0	11,624.0	20,293.4	11,454.0	74.1	78.0	-67.53	8,908.0	-1,456.0	444.8	292.1	152.63	2.914	
20,500.0	11,624.0	20,368.4	11,454.0	74.6	78.5	-67.53	8,983.0	-1,456.7	444.8	291.1	153.67	2.894	
20,520.0	11,624.0	20,388.4	11,454.0	74.8	78.6	-67.53	9,003.0	-1,456.9	444.8	290.8	153.94	2.889	
20,600.0	11,624.0	20,468.4	11,454.0	75.3	79.2	-67.53	9,083.0	-1,457.6	444.8	289.7	155.05	2.869	
20,615.0	11,624.0	20,483.4	11,454.0	75.4	79.3	-67.53	9,098.0	-1,457.7	444.8	289.5	155.25	2.865	
20,700.0	11,624.0	20,568.4	11,454.0	76.0	79.8	-67.53	9,183.0	-1,458.5	444.8	288.3	156.43	2.843	
20,710.0	11,624.0	20,578.4	11,454.0	76.1	79.9	-67.53	9,193.0	-1,458.6	444.8	288.2	156.57	2.841	
20,800.0	11,624.0	20,668.4	11,454.0	76.7	80.5	-67.53	9,283.0	-1,459.4	444.8	287.0	157.82	2.818	
20,805.0	11,624.0	20,673.4	11,454.0	76.8	80.5	-67.53	9,288.0	-1,459.5	444.8	286.9	157.89	2.817	
20,900.0	11,624.0	20,768.4	11,454.0	77.5	81.2	-67.53	9,383.0	-1,460.3	444.8	285.6	159.20	2.794	
20,995.0	11,624.0	20,863.4	11,454.0	78.1	81.8	-67.53	9,478.0	-1,461.2	444.8	284.2	160.53	2.771	
21,000.0	11,624.0	20,868.4	11,454.0	78.2	81.9	-67.53	9,483.0	-1,461.2	444.8	284.2	160.60	2.770	
21,090.0	11,624.0	20,958.4	11,454.0	78.8	82.5	-67.53	9,573.0	-1,462.1	444.8	282.9	161.85	2.748	
21,100.0	11,624.0	20,968.4	11,454.0	78.9	82.5	-67.53	9,583.0	-1,462.2	444.8	282.8	161.99	2.746	
21,185.0	11,624.0	21,053.4	11,454.0	79.5	83.1	-67.53	9,668.0	-1,462.9	444.8	281.6	163.18	2.726	
21,200.0	11,624.0	21,068.4	11,454.0	79.6	83.2	-67.53	9,683.0	-1,463.1	444.8	281.4	163.39	2.722	
21,280.0	11,624.0	21,148.4	11,454.0	80.2	83.8	-67.53	9,763.0	-1,463.8	444.8	280.3	164.51	2.704	
21,300.0	11,624.0	21,168.4	11,454.0	80.3	83.9	-67.53	9,783.0	-1,464.0	444.8	280.0	164.78	2.699	
21,375.0	11,624.0	21,243.4	11,454.0	80.8	84.4	-67.53	9,858.0	-1,464.7	444.8	278.9	165.84	2.682	
21,400.0	11,624.0	21,268.4	11,454.0	81.0	84.6	-67.53	9,883.0	-1,464.9	444.8	278.6	166.19	2.676	
21,470.0	11,624.0	21,338.4	11,454.0	81.5	85.1	-67.53	9,953.0	-1,465.5	444.8	277.6	167.17	2.661	
21,500.0	11,624.0	21,368.4	11,454.0	81.7	85.3	-67.53	9,983.0	-1,465.8	444.8	277.2	167.59	2.654	
21,565.0	11,624.0	21,433.4	11,454.0	82.2	85.7	-67.53	10,048.0	-1,466.4	444.8	276.3	168.50	2.640	
21,600.0	11,624.0	21,468.4	11,454.0	82.4	86.0	-67.53	10,083.0	-1,466.7	444.8	275.8	169.00	2.632	
21,660.0	11,624.0	21,528.4	11,454.0	82.9	86.4	-67.53	10,143.0	-1,467.3	444.8	274.9	169.84	2.619	
21,700.0	11,624.0	21,568.4	11,454.0	83.2	86.7	-67.53	10,183.0	-1,467.6	444.8	274.4	170.40	2.610	
21,755.0	11,624.0	21,623.4	11,454.0	83.6	87.0	-67.53	10,238.0	-1,468.1	444.8	273.6	171.18	2.598	
21,800.0	11,624.0	21,668.4	11,454.0	83.9	87.3	-67.53	10,283.0	-1,468.5	444.8	273.0	171.81	2.589	
21,850.0	11,624.0	21,718.4	11,454.0	84.2	87.7	-67.53	10,333.0	-1,469.0	444.8	272.2	172.52	2.578	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1000-r.5 MWD+IFR1, 11107-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
21,900.0	11,624.0	21,768.4	11,454.0	84.6	88.0	-67.53	10,383.0	-1,469.5	444.8	271.5	173.22	2.568	
21,945.0	11,624.0	21,813.4	11,454.0	84.9	88.3	-67.53	10,428.0	-1,469.9	444.8	270.9	173.86	2.558	
22,000.0	11,624.0	21,868.4	11,454.0	85.3	88.7	-67.53	10,483.0	-1,470.4	444.8	270.1	174.64	2.547	
22,040.0	11,624.0	21,908.4	11,454.0	85.6	89.0	-67.53	10,523.0	-1,470.7	444.8	269.6	175.20	2.539	
22,049.9	11,624.0	21,918.4	11,454.0	85.7	89.1	-67.53	10,532.9	-1,470.8	444.8	269.4	175.34	2.537	
22,050.3	11,624.0	21,918.8	11,454.0	85.7	89.1	-67.53	10,533.3	-1,470.8	444.8	269.4	175.35	2.536	
22,050.7	11,624.0	21,918.8	11,454.0	85.7	89.1	-67.53	10,533.3	-1,470.8	444.8	269.4	175.36	2.536 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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.64	0.2	29.8	29.8				
95.0	95.0	95.0	95.0	3.0	3.0	89.64	0.2	29.8	29.8	23.8	6.03	4.951	
100.0	100.0	100.0	100.0	3.0	3.0	89.64	0.2	29.8	29.8	23.8	6.03	4.948	
190.0	190.0	190.0	190.0	3.1	3.1	89.64	0.2	29.8	29.8	23.7	6.15	4.849	
200.0	200.0	200.0	200.0	3.1	3.1	89.64	0.2	29.8	29.8	23.7	6.17	4.833	
285.0	285.0	285.0	285.0	3.2	3.2	89.64	0.2	29.8	29.8	23.5	6.31	4.727	
300.0	300.0	300.0	300.0	3.2	3.2	89.64	0.2	29.8	29.8	23.5	6.34	4.706	
380.0	380.0	380.0	380.0	3.3	3.3	89.64	0.2	29.8	29.8	23.3	6.49	4.598	
400.0	400.0	400.0	400.0	3.3	3.3	89.64	0.2	29.8	29.8	23.3	6.53	4.569	
475.0	475.0	475.0	475.0	3.4	3.4	89.64	0.2	29.8	29.8	23.1	6.68	4.463	
500.0	500.0	500.0	500.0	3.4	3.4	89.64	0.2	29.8	29.8	23.1	6.74	4.426	
570.0	570.0	570.0	570.0	3.5	3.5	89.64	0.2	29.8	29.8	22.9	6.90	4.325	
600.0	600.0	600.0	600.0	3.5	3.5	89.64	0.2	29.8	29.8	22.9	6.97	4.280	
665.0	665.0	665.0	665.0	3.6	3.6	89.64	0.2	29.8	29.8	22.7	7.13	4.186	
700.0	700.0	700.0	700.0	3.7	3.7	89.64	0.2	29.8	29.8	22.6	7.22	4.134	
760.0	760.0	760.0	760.0	3.8	3.8	89.64	0.2	29.8	29.8	22.5	7.37	4.047	
800.0	800.0	800.0	800.0	3.8	3.8	89.64	0.2	29.8	29.8	22.4	7.48	3.989	
855.0	855.0	855.0	855.0	3.9	3.9	89.64	0.2	29.8	29.8	22.2	7.63	3.911	
900.0	900.0	900.0	900.0	4.0	4.0	89.64	0.2	29.8	29.8	22.1	7.75	3.847	
950.0	950.0	950.0	950.0	4.1	4.1	89.64	0.2	29.8	29.8	21.9	7.90	3.778	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.64	0.2	29.8	29.8	21.8	8.04	3.710	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.64	0.2	29.8	29.8	21.7	8.17	3.649	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.64	0.2	29.8	29.8	21.5	8.34	3.577	
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.64	0.2	29.8	29.8	21.4	8.46	3.525	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.64	0.2	29.8	29.8	21.2	8.65	3.449	
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.64	0.2	29.8	29.8	21.1	8.76	3.405	
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.64	0.2	29.8	29.8	20.9	8.97	3.327	
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.64	0.2	29.8	29.8	20.8	9.06	3.291	
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.64	0.2	29.8	29.8	20.5	9.29	3.210	
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.64	0.2	29.8	29.8	20.5	9.38	3.182	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.64	0.2	29.8	29.8	20.2	9.63	3.099	
1,520.0	1,520.0	1,520.0	1,520.0	5.1	5.1	89.64	0.2	29.8	29.8	20.1	9.69	3.077	
1,600.0	1,600.0	1,600.0	1,600.0	5.3	5.3	89.64	0.2	29.8	29.8	19.9	9.97	2.993	
1,615.0	1,615.0	1,615.0	1,615.0	5.3	5.3	89.64	0.2	29.8	29.8	19.8	10.02	2.978	
1,700.0	1,700.0	1,700.0	1,700.0	5.5	5.5	89.64	0.2	29.8	29.8	19.5	10.31	2.893	
1,710.0	1,710.0	1,710.0	1,710.0	5.5	5.5	89.64	0.2	29.8	29.8	19.5	10.35	2.883	
1,800.0	1,800.0	1,800.0	1,800.0	5.7	5.7	89.64	0.2	29.8	29.8	19.2	10.66	2.798	
1,805.0	1,805.0	1,805.0	1,805.0	5.7	5.7	89.64	0.2	29.8	29.8	19.2	10.68	2.793	
1,900.0	1,900.0	1,900.0	1,900.0	5.9	5.9	89.64	0.2	29.8	29.8	18.8	11.02	2.707	
1,995.0	1,995.0	1,995.0	1,995.0	6.1	6.1	89.64	0.2	29.8	29.8	18.5	11.36	2.626	
2,000.0	2,000.0	2,000.0	2,000.0	6.1	6.1	89.64	0.2	29.8	29.8	18.5	11.38	2.622 CC, ES, SF	
2,090.0	2,090.0	2,090.0	2,090.0	6.2	6.3	179.80	0.2	29.8	31.2	19.5	11.74	2.662	
2,100.0	2,100.0	2,100.0	2,100.0	6.2	6.3	179.80	0.2	29.8	31.6	19.8	11.78	2.681	
2,185.0	2,184.9	2,184.9	2,184.9	6.3	6.5	179.82	0.2	29.8	35.8	23.7	12.12	2.953	
2,200.0	2,199.8	2,199.8	2,199.8	6.3	6.5	179.83	0.2	29.8	36.8	24.6	12.18	3.021	
2,280.0	2,279.6	2,279.6	2,279.6	6.4	6.7	179.85	0.2	29.8	43.5	31.0	12.52	3.474	
2,300.0	2,299.5	2,299.5	2,299.5	6.5	6.7	179.86	0.2	29.8	45.5	32.9	12.61	3.611	
2,375.0	2,373.9	2,373.9	2,373.9	6.6	6.9	179.88	0.2	29.8	54.3	41.4	12.94	4.199	
2,400.0	2,398.7	2,398.7	2,398.7	6.6	6.9	179.89	0.2	29.8	57.7	44.7	13.05	4.422	
2,470.0	2,467.9	2,467.9	2,467.9	6.8	7.1	179.91	0.2	29.8	68.3	54.9	13.38	5.106	
2,500.0	2,497.5	2,497.5	2,497.5	6.9	7.1	179.91	0.2	29.8	73.4	59.8	13.52	5.427	
2,565.0	2,561.3	2,563.2	2,563.2	7.1	7.2	179.92	0.2	29.1	84.7	70.9	13.80	6.139	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,575.0	2,571.1	2,573.4	2,573.4	7.1	7.3	179.92	0.2	28.9	86.4	72.6	13.84	6.246	
2,600.0	2,595.6	2,598.8	2,598.8	7.1	7.3	179.93	0.2	28.1	90.7	76.7	13.93	6.509	
2,660.0	2,654.4	2,660.1	2,660.0	7.3	7.4	179.93	0.2	25.4	100.0	85.8	14.19	7.043	
2,700.0	2,693.6	2,701.2	2,701.0	7.4	7.4	179.93	0.2	22.8	105.5	91.1	14.37	7.339	
2,755.0	2,747.5	2,758.0	2,757.6	7.5	7.5	179.92	0.2	18.2	112.1	97.4	14.63	7.662	
2,800.0	2,791.6	2,804.6	2,804.0	7.6	7.5	179.92	0.2	13.7	116.7	101.8	14.84	7.863	
2,850.0	2,840.6	2,856.6	2,855.6	7.8	7.6	179.91	0.2	7.7	120.9	105.9	15.09	8.014	
2,900.0	2,889.6	2,908.7	2,907.3	7.9	7.6	179.90	0.2	0.7	124.3	109.0	15.33	8.107	
2,945.0	2,933.7	2,955.4	2,953.5	8.1	7.6	179.89	0.2	-6.3	126.5	111.0	15.52	8.155	
3,000.0	2,987.6	3,010.4	3,007.8	8.2	7.7	179.88	0.2	-14.9	128.9	113.2	15.78	8.173	
3,040.0	3,026.8	3,050.3	3,047.3	8.4	7.7	179.88	0.2	-21.1	130.7	114.7	15.99	8.173	
3,100.0	3,085.6	3,110.3	3,106.5	8.6	7.8	179.87	0.2	-30.5	133.3	117.0	16.32	8.168	
3,135.0	3,119.9	3,145.2	3,141.0	8.7	7.9	179.86	0.2	-36.0	134.8	118.3	16.52	8.160	
3,200.0	3,183.6	3,210.2	3,205.1	8.9	8.0	179.85	0.2	-46.1	137.7	120.8	16.90	8.146	
3,230.0	3,213.0	3,240.2	3,234.7	9.0	8.1	179.84	0.2	-50.8	139.0	121.9	17.08	8.136	
3,300.0	3,281.6	3,310.1	3,303.8	9.3	8.3	179.83	0.3	-61.8	142.0	124.5	17.51	8.112	
3,325.0	3,306.1	3,335.1	3,328.5	9.3	8.3	179.83	0.3	-65.7	143.1	125.5	17.67	8.101	
3,400.0	3,379.6	3,410.0	3,402.5	9.6	8.5	179.82	0.3	-77.4	146.4	128.3	18.14	8.069	
3,420.0	3,399.2	3,430.0	3,422.2	9.7	8.6	179.81	0.3	-80.5	147.3	129.0	18.27	8.059	
3,500.0	3,477.6	3,509.9	3,501.2	10.0	8.8	179.80	0.3	-93.0	150.8	132.0	18.80	8.018	
3,515.0	3,492.3	3,524.9	3,516.0	10.0	8.9	179.80	0.3	-95.4	151.4	132.5	18.90	8.009	
3,600.0	3,575.6	3,609.8	3,599.8	10.4	9.1	179.79	0.3	-108.7	155.1	135.6	19.48	7.961	
3,610.0	3,585.4	3,619.8	3,609.7	10.4	9.1	179.79	0.3	-110.2	155.6	136.0	19.55	7.955	
3,700.0	3,673.6	3,709.7	3,698.5	10.7	9.4	179.77	0.3	-124.3	159.5	139.3	20.19	7.901	
3,705.0	3,678.5	3,714.7	3,703.4	10.8	9.4	179.77	0.3	-125.1	159.7	139.5	20.22	7.898	
3,800.0	3,771.6	3,809.6	3,797.2	11.1	9.7	179.76	0.3	-139.9	163.8	142.9	20.90	7.838	
3,895.0	3,864.6	3,904.5	3,890.9	11.5	10.0	179.75	0.3	-154.8	168.0	146.4	21.60	7.777	
3,900.0	3,869.5	3,909.5	3,895.9	11.5	10.0	179.75	0.3	-155.5	168.2	146.6	21.64	7.773	
3,990.0	3,957.7	3,999.4	3,984.7	11.9	10.3	179.74	0.3	-169.6	172.1	149.8	22.31	7.715	
4,000.0	3,967.5	4,009.4	3,994.5	11.9	10.4	179.74	0.3	-171.2	172.6	150.2	22.39	7.708	
4,085.0	4,050.8	4,094.3	4,078.4	12.3	10.7	179.73	0.3	-184.5	176.3	153.2	23.04	7.652	
4,100.0	4,065.5	4,109.3	4,093.2	12.3	10.7	179.73	0.3	-186.8	176.9	153.8	23.15	7.643	
4,180.0	4,143.9	4,189.3	4,172.1	12.7	11.0	179.72	0.3	-199.3	180.4	156.7	23.77	7.591	
4,200.0	4,163.5	4,209.2	4,191.9	12.7	11.1	179.72	0.4	-202.4	181.3	157.4	23.92	7.578	
4,275.0	4,237.0	4,284.2	4,265.9	13.1	11.3	179.71	0.4	-214.1	184.6	160.1	24.51	7.529	
4,300.0	4,261.5	4,309.1	4,290.6	13.2	11.4	179.71	0.4	-218.1	185.7	160.9	24.71	7.514	
4,370.0	4,330.1	4,379.1	4,359.6	13.5	11.7	179.70	0.4	-229.0	188.7	163.4	25.27	7.469	
4,400.0	4,359.5	4,409.0	4,389.2	13.6	11.8	179.70	0.4	-233.7	190.0	164.5	25.50	7.450	
4,465.0	4,423.2	4,474.0	4,453.4	13.9	12.0	179.69	0.4	-243.8	192.9	166.8	26.03	7.410	
4,500.0	4,457.5	4,508.9	4,487.9	14.0	12.1	179.69	0.4	-249.3	194.4	168.1	26.31	7.389	
4,560.0	4,516.3	4,568.9	4,547.1	14.3	12.4	179.69	0.4	-258.7	197.0	170.2	26.79	7.352	
4,600.0	4,555.5	4,608.9	4,586.6	14.4	12.5	179.68	0.4	-264.9	198.7	171.6	27.12	7.328	
4,655.0	4,609.4	4,663.8	4,640.9	14.7	12.7	179.68	0.4	-273.5	201.1	173.6	27.57	7.296	
4,700.0	4,653.5	4,708.8	4,685.3	14.9	12.9	179.68	0.4	-280.6	203.1	175.2	27.94	7.270	
4,750.0	4,702.5	4,758.7	4,734.6	15.1	13.1	179.67	0.4	-288.4	205.3	176.9	28.35	7.241	
4,800.0	4,751.5	4,808.7	4,783.9	15.3	13.3	179.67	0.4	-296.2	207.5	178.7	28.76	7.213	
4,845.0	4,795.6	4,853.6	4,828.3	15.5	13.4	179.66	0.4	-303.2	209.4	180.3	29.14	7.188	
4,900.0	4,849.5	4,908.6	4,882.6	15.7	13.6	179.66	0.4	-311.8	211.8	182.2	29.60	7.157	
4,940.0	4,888.7	4,948.5	4,922.1	15.9	13.8	179.66	0.4	-318.1	213.6	183.6	29.93	7.136	
5,000.0	4,947.5	5,008.5	4,981.3	16.2	14.0	179.65	0.4	-327.5	216.2	185.8	30.43	7.104	
5,035.0	4,981.8	5,043.4	5,015.8	16.3	14.2	179.65	0.4	-332.9	217.7	187.0	30.73	7.085	
5,100.0	5,045.5	5,108.4	5,080.0	16.6	14.4	179.65	0.5	-343.1	220.6	189.3	31.28	7.052	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,130.0	5,074.9	5,138.4	5,109.6	16.7	14.5	179.64	0.5	-347.8	221.9	190.3	31.53	7.037	
5,200.0	5,143.4	5,208.3	5,178.6	17.0	14.8	179.64	0.5	-358.7	224.9	192.8	32.12	7.002	
5,225.0	5,167.9	5,233.3	5,203.3	17.1	14.9	179.64	0.5	-362.6	226.0	193.7	32.34	6.989	
5,300.0	5,241.4	5,308.2	5,277.3	17.5	15.2	179.63	0.5	-374.3	229.3	196.3	32.97	6.953	
5,320.0	5,261.0	5,328.2	5,297.0	17.6	15.3	179.63	0.5	-377.5	230.1	197.0	33.15	6.944	
5,400.0	5,339.4	5,408.1	5,376.0	17.9	15.6	179.63	0.5	-390.0	233.6	199.8	33.83	6.906	
5,415.0	5,354.1	5,423.1	5,390.8	18.0	15.7	179.63	0.5	-392.3	234.3	200.3	33.96	6.899	
5,500.0	5,437.4	5,508.0	5,474.7	18.4	16.0	179.62	0.5	-405.6	238.0	203.3	34.69	6.861	
5,510.0	5,447.2	5,518.0	5,484.5	18.4	16.1	179.62	0.5	-407.2	238.4	203.7	34.78	6.856	
5,600.0	5,535.4	5,607.9	5,573.3	18.8	16.4	179.62	0.5	-421.2	242.4	206.8	35.55	6.817	
5,605.0	5,540.3	5,612.9	5,578.3	18.8	16.4	179.62	0.5	-422.0	242.6	207.0	35.60	6.815	
5,700.0	5,633.4	5,707.8	5,672.0	19.2	16.8	179.61	0.5	-436.9	246.7	210.3	36.42	6.774	
5,795.0	5,726.5	5,802.7	5,765.7	19.7	17.2	179.61	0.5	-451.7	250.9	213.6	37.25	6.735	
5,800.0	5,731.4	5,807.7	5,770.7	19.7	17.2	179.61	0.5	-452.5	251.1	213.8	37.29	6.733	
5,890.0	5,819.6	5,897.6	5,859.5	20.1	17.6	179.60	0.5	-466.6	255.0	216.9	38.07	6.698	
5,900.0	5,829.4	5,907.6	5,869.4	20.1	17.6	179.60	0.5	-468.1	255.5	217.3	38.16	6.694	
5,985.0	5,912.7	5,992.5	5,953.2	20.5	18.0	179.60	0.5	-481.4	259.2	220.3	38.91	6.661	
6,000.0	5,927.4	6,007.2	5,967.7	20.6	18.1	179.60	0.5	-483.7	259.8	220.8	39.03	6.656	
6,080.0	6,005.8	6,083.6	6,043.2	21.0	18.4	179.59	0.6	-495.0	263.9	224.2	39.71	6.647	
6,100.0	6,025.4	6,102.7	6,062.1	21.0	18.4	179.59	0.6	-497.7	265.1	225.3	39.88	6.649	
6,175.0	6,098.9	6,174.1	6,133.0	21.4	18.7	179.59	0.6	-507.2	270.2	229.7	40.50	6.672	
6,200.0	6,123.4	6,200.0	6,158.6	21.5	18.8	179.60	0.6	-510.4	272.1	231.4	40.72	6.683	
6,270.0	6,192.0	6,264.5	6,222.7	21.8	19.1	179.60	0.6	-517.9	278.0	236.7	41.27	6.736	
6,300.0	6,221.4	6,293.0	6,251.0	21.9	19.2	179.60	0.6	-521.0	280.8	239.3	41.51	6.764	
6,365.0	6,285.1	6,354.6	6,312.3	22.2	19.4	179.60	0.6	-527.1	287.3	245.3	42.02	6.837	
6,400.0	6,319.4	6,387.7	6,345.3	22.4	19.5	179.61	0.6	-530.2	291.1	248.8	42.29	6.882	
6,460.0	6,378.2	6,444.4	6,401.8	22.7	19.8	179.61	0.6	-535.0	298.1	255.3	42.75	6.972	
6,500.0	6,417.4	6,482.1	6,439.4	22.9	19.9	179.62	0.6	-537.8	303.0	260.0	43.05	7.039	
6,543.5	6,460.0	6,523.1	6,480.3	23.0	20.0	179.62	0.6	-540.7	308.7	265.4	43.36	7.120	
6,555.0	6,471.2	6,533.9	6,491.0	23.1	20.1	179.62	0.6	-541.4	310.3	266.8	43.44	7.142	
6,600.0	6,515.4	6,576.1	6,533.2	23.3	20.2	179.63	0.6	-543.9	316.3	272.6	43.76	7.228	
6,650.0	6,564.5	6,623.1	6,580.1	23.5	20.4	179.64	0.6	-546.3	323.0	278.9	44.11	7.323	
6,700.0	6,613.7	6,670.0	6,626.9	23.7	20.5	179.64	0.6	-548.4	329.7	285.2	44.45	7.417	
6,745.0	6,658.1	6,712.1	6,669.1	23.9	20.6	179.65	0.6	-550.0	335.6	290.9	44.74	7.501	
6,800.0	6,712.4	6,763.6	6,720.5	24.2	20.8	179.65	0.6	-551.4	342.9	297.8	45.09	7.605	
6,840.0	6,751.9	6,800.0	6,756.9	24.3	20.9	179.66	0.6	-552.1	348.2	302.9	45.31	7.683	
6,900.0	6,811.3	6,857.0	6,813.9	24.6	21.0	179.67	0.6	-552.9	356.0	310.4	45.62	7.805	
6,935.0	6,846.0	6,889.7	6,846.6	24.7	21.0	179.67	0.6	-553.0	360.6	314.8	45.78	7.877	
7,000.0	6,910.5	6,953.6	6,910.5	25.0	21.1	179.68	0.6	-553.0	368.8	322.7	46.07	8.005	
7,030.0	6,940.3	6,983.3	6,940.3	25.1	21.1	179.68	0.6	-553.0	372.4	326.1	46.21	8.058	
7,100.0	7,009.8	7,052.9	7,009.8	25.4	21.1	179.69	0.6	-553.0	380.0	333.5	46.51	8.170	
7,125.0	7,034.7	7,077.8	7,034.7	25.5	21.1	179.69	0.6	-553.0	382.5	335.9	46.62	8.206	
7,200.0	7,109.4	7,152.5	7,109.4	25.8	21.1	179.70	0.6	-553.0	389.5	342.5	46.94	8.298	
7,220.0	7,129.3	7,172.4	7,129.3	25.9	21.1	179.70	0.6	-553.0	391.2	344.2	47.02	8.319	
7,300.0	7,209.1	7,252.2	7,209.1	26.2	21.2	179.70	0.6	-553.0	397.2	349.9	47.35	8.390	
7,315.0	7,224.0	7,267.1	7,224.0	26.2	21.2	179.70	0.6	-553.0	398.2	350.8	47.40	8.401	
7,400.0	7,308.9	7,352.0	7,308.9	26.5	21.2	179.71	0.6	-553.0	403.2	355.5	47.73	8.447	
7,410.0	7,318.9	7,362.0	7,318.9	26.6	21.2	179.71	0.6	-553.0	403.7	355.9	47.77	8.452	
7,500.0	7,408.8	7,451.9	7,408.8	26.9	21.2	179.71	0.6	-553.0	407.5	359.4	48.09	8.472	
7,505.0	7,413.8	7,456.9	7,413.8	26.9	21.2	179.71	0.6	-553.0	407.6	359.5	48.11	8.473	
7,600.0	7,508.8	7,551.9	7,508.8	27.1	21.3	179.71	0.6	-553.0	410.0	361.5	48.42	8.468	
7,693.5	7,602.3	7,645.4	7,602.3	27.3	21.3	89.56	0.6	-553.0	410.7	362.1	48.58	8.454	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,695.0	7,603.8	7,646.9	7,603.8	27.3	21.3	89.56	0.6	-553.0	410.7	362.1	48.58	8.454	
7,700.0	7,608.8	7,651.9	7,608.8	27.3	21.3	89.56	0.6	-553.0	410.7	362.1	48.59	8.454	
7,790.0	7,698.8	7,741.9	7,698.8	27.3	21.3	89.56	0.6	-553.0	410.7	362.1	48.64	8.444	
7,800.0	7,708.8	7,751.9	7,708.8	27.3	21.4	89.56	0.6	-553.0	410.7	362.1	48.65	8.443	
7,885.0	7,793.8	7,836.9	7,793.8	27.3	21.4	89.56	0.6	-553.0	410.7	362.0	48.70	8.433	
7,900.0	7,808.8	7,851.9	7,808.8	27.3	21.4	89.56	0.6	-553.0	410.7	362.0	48.71	8.431	
7,980.0	7,888.8	7,931.9	7,888.8	27.4	21.4	89.56	0.6	-553.0	410.7	362.0	48.77	8.423	
8,000.0	7,908.8	7,951.9	7,908.8	27.4	21.4	89.56	0.6	-553.0	410.7	362.0	48.78	8.420	
8,075.0	7,983.8	8,026.9	7,983.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.9	48.83	8.412	
8,100.0	8,008.8	8,051.9	8,008.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.9	48.84	8.409	
8,170.0	8,078.8	8,121.9	8,078.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.8	48.89	8.401	
8,200.0	8,108.8	8,151.9	8,108.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.8	48.91	8.398	
8,265.0	8,173.8	8,216.9	8,173.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.8	48.95	8.390	
8,300.0	8,208.8	8,251.9	8,208.8	27.4	21.5	89.56	0.6	-553.0	410.7	361.8	48.98	8.386	
8,360.0	8,268.8	8,311.9	8,268.8	27.5	21.6	89.56	0.6	-553.0	410.7	361.7	49.02	8.380	
8,400.0	8,308.8	8,351.9	8,308.8	27.5	21.6	89.56	0.6	-553.0	410.7	361.7	49.04	8.375	
8,455.0	8,363.8	8,406.9	8,363.8	27.5	21.6	89.56	0.6	-553.0	410.7	361.6	49.08	8.369	
8,500.0	8,408.8	8,451.9	8,408.8	27.5	21.6	89.56	0.6	-553.0	410.7	361.6	49.11	8.364	
8,550.0	8,458.8	8,501.9	8,458.8	27.5	21.6	89.56	0.6	-553.0	410.7	361.6	49.14	8.358	
8,600.0	8,508.8	8,551.9	8,508.8	27.5	21.7	89.56	0.6	-553.0	410.7	361.6	49.18	8.352	
8,645.0	8,553.8	8,596.9	8,553.8	27.5	21.7	89.56	0.6	-553.0	410.7	361.5	49.21	8.347	
8,700.0	8,608.8	8,651.9	8,608.8	27.6	21.7	89.56	0.6	-553.0	410.7	361.5	49.24	8.341	
8,740.0	8,648.8	8,691.9	8,648.8	27.6	21.7	89.56	0.6	-553.0	410.7	361.5	49.27	8.336	
8,800.0	8,708.8	8,751.9	8,708.8	27.6	21.7	89.56	0.6	-553.0	410.7	361.4	49.31	8.329	
8,835.0	8,743.8	8,786.9	8,743.8	27.6	21.7	89.56	0.6	-553.0	410.7	361.4	49.34	8.325	
8,900.0	8,808.8	8,851.9	8,808.8	27.6	21.8	89.56	0.6	-553.0	410.7	361.3	49.38	8.317	
8,930.0	8,838.8	8,881.9	8,838.8	27.6	21.8	89.56	0.6	-553.0	410.7	361.3	49.40	8.314	
8,900.0	8,908.8	8,951.9	8,908.8	27.6	21.8	89.56	0.6	-553.0	410.7	361.3	49.45	8.306	
9,025.0	8,933.8	8,976.9	8,933.8	27.7	21.8	89.56	0.6	-553.0	410.7	361.3	49.47	8.303	
9,100.0	9,008.8	9,051.9	9,008.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.2	49.52	8.294	
9,120.0	9,028.8	9,071.9	9,028.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.2	49.53	8.292	
9,200.0	9,108.8	9,151.9	9,108.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.1	49.59	8.282	
9,215.0	9,123.8	9,166.9	9,123.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.1	49.60	8.281	
9,300.0	9,208.8	9,251.9	9,208.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.1	49.66	8.271	
9,310.0	9,218.8	9,261.9	9,218.8	27.7	21.9	89.56	0.6	-553.0	410.7	361.1	49.67	8.269	
9,400.0	9,308.8	9,351.9	9,308.8	27.8	22.0	89.56	0.6	-553.0	410.7	361.0	49.73	8.259	
9,405.0	9,313.8	9,356.9	9,313.8	27.8	22.0	89.56	0.6	-553.0	410.7	361.0	49.74	8.258	
9,500.0	9,408.8	9,451.9	9,408.8	27.8	22.0	89.56	0.6	-553.0	410.7	360.9	49.80	8.247	
9,595.0	9,503.8	9,546.9	9,503.8	27.8	22.1	89.56	0.6	-553.0	410.7	360.9	49.87	8.236	
9,600.0	9,508.8	9,551.9	9,508.8	27.8	22.1	89.56	0.6	-553.0	410.7	360.9	49.88	8.235	
9,690.0	9,598.8	9,641.9	9,598.8	27.9	22.1	89.56	0.6	-553.0	410.7	360.8	49.94	8.224	
9,700.0	9,608.8	9,651.9	9,608.8	27.9	22.1	89.56	0.6	-553.0	410.7	360.8	49.95	8.223	
9,785.0	9,693.8	9,736.9	9,693.8	27.9	22.1	89.56	0.6	-553.0	410.7	360.7	50.01	8.213	
9,800.0	9,708.8	9,751.9	9,708.8	27.9	22.1	89.56	0.6	-553.0	410.7	360.7	50.02	8.211	
9,880.0	9,788.8	9,831.9	9,788.8	27.9	22.2	89.56	0.6	-553.0	410.7	360.6	50.08	8.202	
9,900.0	9,808.8	9,851.9	9,808.8	27.9	22.2	89.56	0.6	-553.0	410.7	360.6	50.09	8.199	
9,975.0	9,883.8	9,926.9	9,883.8	27.9	22.2	89.56	0.6	-553.0	410.7	360.6	50.15	8.190	
10,000.0	9,908.8	9,951.9	9,908.8	28.0	22.2	89.56	0.6	-553.0	410.7	360.6	50.17	8.187	
10,070.0	9,978.8	10,021.9	9,978.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.5	50.22	8.179	
10,100.0	10,008.8	10,051.9	10,008.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.5	50.24	8.175	
10,165.0	10,073.8	10,116.9	10,073.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.4	50.29	8.167	
10,200.0	10,108.8	10,151.9	10,108.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.4	50.32	8.163	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,260.0	10,168.8	10,211.9	10,168.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.4	50.36	8.156	
10,300.0	10,208.8	10,251.9	10,208.8	28.0	22.3	89.56	0.6	-553.0	410.7	360.3	50.39	8.151	
10,355.0	10,263.8	10,306.9	10,263.8	28.1	22.4	89.56	0.6	-553.0	410.7	360.3	50.43	8.144	
10,400.0	10,308.8	10,351.9	10,308.8	28.1	22.4	89.56	0.6	-553.0	410.7	360.3	50.47	8.139	
10,450.0	10,358.8	10,401.9	10,358.8	28.1	22.4	89.56	0.6	-553.0	410.7	360.2	50.50	8.133	
10,500.0	10,408.8	10,451.9	10,408.8	28.1	22.4	89.56	0.6	-553.0	410.7	360.2	50.54	8.127	
10,545.0	10,453.8	10,496.9	10,453.8	28.1	22.5	89.56	0.6	-553.0	410.7	360.2	50.58	8.121	
10,600.0	10,508.8	10,551.9	10,508.8	28.1	22.5	89.56	0.6	-553.0	410.7	360.1	50.62	8.114	
10,640.0	10,548.8	10,591.9	10,548.8	28.2	22.5	89.56	0.6	-553.0	410.7	360.1	50.65	8.110	
10,700.0	10,608.8	10,651.9	10,608.8	28.2	22.5	89.56	0.6	-553.0	410.7	360.0	50.69	8.102	
10,735.0	10,643.8	10,686.9	10,643.8	28.2	22.5	89.56	0.6	-553.0	410.7	360.0	50.72	8.098	
10,800.0	10,708.8	10,751.9	10,708.8	28.2	22.6	89.56	0.6	-553.0	410.7	360.0	50.77	8.090	
10,830.0	10,738.8	10,781.9	10,738.8	28.2	22.6	89.56	0.6	-553.0	410.7	359.9	50.79	8.086	
10,900.0	10,808.8	10,851.9	10,808.8	28.2	22.6	89.56	0.6	-553.0	410.7	359.9	50.85	8.078	
10,925.0	10,833.8	10,876.9	10,833.8	28.3	22.6	89.56	0.6	-553.0	410.7	359.9	50.87	8.075	
11,000.0	10,908.8	10,951.9	10,908.8	28.3	22.7	89.56	0.6	-553.0	410.7	359.8	50.93	8.065	
11,020.0	10,928.8	10,971.9	10,928.8	28.3	22.7	89.56	0.6	-553.0	410.7	359.8	50.94	8.063	
11,091.2	11,000.0	11,043.1	11,000.0	28.3	22.7	89.48	1.2	-553.0	410.7	359.7	50.98	8.056	
11,100.0	11,008.8	11,051.8	11,008.7	28.3	22.7	89.41	1.7	-553.0	410.7	359.7	50.98	8.056	
11,115.0	11,023.8	11,066.8	11,023.6	28.3	22.7	89.24	2.9	-553.0	410.7	359.7	50.99	8.056	
11,200.0	11,108.8	11,148.8	11,104.1	28.3	22.7	87.14	18.0	-553.2	411.1	360.2	50.92	8.073	
11,210.0	11,118.8	11,158.0	11,113.0	28.3	22.7	86.78	20.5	-553.2	411.2	360.3	50.90	8.079	
11,237.8	11,146.5	11,183.1	11,136.9	28.3	22.7	85.70	28.3	-553.3	411.7	360.9	50.80	8.104	
11,250.0	11,158.8	11,194.0	11,147.0	28.3	22.7	85.68	32.1	-553.3	412.0	361.3	50.76	8.118	
11,275.0	11,183.7	11,215.9	11,167.3	28.4	22.7	84.59	40.4	-553.4	412.8	362.1	50.65	8.151	
11,300.0	11,208.6	11,237.5	11,186.9	28.4	22.7	83.52	49.4	-553.5	413.7	363.1	50.52	8.188	
11,305.0	11,213.5	11,241.8	11,190.7	28.4	22.7	83.31	51.3	-553.5	413.9	363.4	50.50	8.196	
11,325.0	11,233.3	11,258.8	11,205.8	28.4	22.7	82.47	59.3	-553.5	414.7	364.3	50.40	8.229	
11,350.0	11,257.7	11,279.9	11,224.1	28.4	22.7	81.45	69.8	-553.6	415.8	365.6	50.26	8.273	
11,375.0	11,281.9	11,300.0	11,241.1	28.4	22.7	80.48	80.6	-553.7	417.1	366.9	50.12	8.321	
11,400.0	11,305.7	11,321.3	11,258.6	28.4	22.7	79.47	92.8	-553.8	418.4	368.4	49.99	8.369	
11,425.0	11,329.0	11,341.8	11,274.8	28.4	22.7	78.53	105.2	-554.0	419.8	369.9	49.86	8.420	
11,450.0	11,351.9	11,362.0	11,290.3	28.4	22.7	77.62	118.2	-554.1	421.3	371.5	49.73	8.471	
11,475.0	11,374.1	11,382.0	11,305.1	28.4	22.7	76.74	131.6	-554.2	422.8	373.2	49.61	8.521	
11,495.0	11,391.5	11,400.0	11,317.9	28.4	22.7	75.99	144.3	-554.3	424.0	374.5	49.53	8.561	
11,500.0	11,395.8	11,400.0	11,317.9	28.4	22.7	75.95	144.3	-554.3	424.3	374.8	49.50	8.572	
11,525.0	11,416.8	11,421.6	11,332.7	28.4	22.7	75.08	160.1	-554.5	425.9	376.5	49.41	8.621	
11,550.0	11,437.0	11,441.2	11,345.4	28.4	22.7	74.31	174.9	-554.6	427.5	378.2	49.32	8.668	
11,575.0	11,456.4	11,460.6	11,357.5	28.4	22.7	73.57	190.2	-554.7	429.1	379.8	49.24	8.713	
11,590.0	11,467.7	11,472.2	11,364.3	28.4	22.7	73.15	199.5	-554.8	430.0	380.8	49.20	8.739	
11,600.0	11,475.0	11,479.9	11,368.8	28.4	22.8	72.87	205.8	-554.9	430.6	381.4	49.18	8.756	
11,625.0	11,492.7	11,500.0	11,379.9	28.4	22.8	72.20	222.5	-555.0	432.1	383.0	49.12	8.796	
11,650.0	11,509.4	11,518.3	11,389.3	28.4	22.8	71.60	238.1	-555.2	433.6	384.5	49.09	8.833	
11,675.0	11,525.2	11,537.3	11,398.6	28.4	22.8	71.03	254.7	-555.3	435.0	385.9	49.06	8.867	
11,685.0	11,531.2	11,544.8	11,402.1	28.4	22.8	70.81	261.5	-555.4	435.5	386.5	49.05	8.880	
11,700.0	11,539.9	11,556.2	11,407.1	28.4	22.8	70.50	271.6	-555.5	436.3	387.3	49.04	8.898	
11,725.0	11,553.5	11,575.0	11,414.9	28.4	22.8	70.01	288.8	-555.6	437.6	388.6	49.03	8.925	
11,750.0	11,566.0	11,593.8	11,422.0	28.4	22.8	69.56	306.2	-555.8	438.8	389.8	49.04	8.948	
11,775.0	11,577.4	11,612.5	11,428.4	28.4	22.8	69.16	323.7	-555.9	439.9	390.8	49.05	8.969	
11,780.0	11,579.5	11,616.2	11,429.6	28.4	22.8	69.08	327.3	-556.0	440.1	391.0	49.05	8.972	
11,800.0	11,587.6	11,631.1	11,434.1	28.5	22.8	68.80	341.5	-556.1	440.9	391.8	49.07	8.985	
11,825.0	11,596.5	11,650.0	11,439.1	28.5	22.9	68.48	359.7	-556.3	441.8	392.7	49.09	8.999	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,850.0	11,604.3	11,668.3	11,443.3	28.5	22.9	68.21	377.5	-556.4	442.5	393.4	49.12	9.008	
11,875.0	11,610.7	11,686.8	11,446.8	28.5	22.9	67.98	395.6	-556.6	443.2	394.0	49.16	9.015	
11,900.0	11,616.0	11,705.3	11,449.7	28.5	22.9	67.80	413.9	-556.8	443.7	394.5	49.20	9.018	
11,925.0	11,619.9	11,725.0	11,451.9	28.5	22.9	67.66	433.5	-556.9	444.1	394.9	49.25	9.018	
11,950.0	11,622.5	11,742.2	11,453.2	28.6	23.0	67.57	450.6	-557.1	444.4	395.1	49.29	9.015	
11,970.0	11,623.7	11,756.9	11,453.8	28.6	23.0	67.53	465.4	-557.2	444.5	395.2	49.33	9.010	
11,975.0	11,623.8	11,760.6	11,453.9	28.6	23.0	67.52	469.1	-557.3	444.5	395.2	49.34	9.008	
11,987.8	11,624.0	11,770.2	11,454.0	28.6	23.0	67.52	478.6	-557.3	444.5	395.2	49.37	9.004	
12,000.0	11,624.0	11,782.4	11,454.0	28.6	23.0	67.52	490.9	-557.5	444.5	395.1	49.40	8.999	
12,065.0	11,624.0	11,847.4	11,454.0	28.7	23.1	67.52	555.9	-558.1	444.5	395.0	49.57	8.967	
12,100.0	11,624.0	11,882.4	11,454.0	28.7	23.1	67.52	590.9	-558.4	444.5	394.9	49.67	8.950	
12,160.0	11,624.0	11,942.4	11,454.0	28.8	23.2	67.52	650.9	-558.9	444.5	394.7	49.86	8.916	
12,200.0	11,624.0	11,982.4	11,454.0	28.9	23.3	67.52	690.8	-559.3	444.5	394.6	49.99	8.893	
12,255.0	11,624.0	12,037.4	11,454.0	28.9	23.4	67.52	745.8	-559.8	444.5	394.4	50.19	8.858	
12,300.0	11,624.0	12,082.4	11,454.0	29.0	23.5	67.52	790.8	-560.2	444.6	394.2	50.35	8.829	
12,350.0	11,624.0	12,132.4	11,454.0	29.1	23.6	67.52	840.8	-560.6	444.6	394.0	50.56	8.793	
12,400.0	11,624.0	12,182.4	11,454.0	29.2	23.7	67.52	890.8	-561.1	444.6	393.8	50.76	8.758	
12,445.0	11,624.0	12,227.4	11,454.0	29.3	23.8	67.52	935.8	-561.5	444.6	393.6	50.96	8.723	
12,500.0	11,624.0	12,282.4	11,454.0	29.4	24.0	67.52	990.8	-562.0	444.6	393.3	51.21	8.681	
12,540.0	11,624.0	12,322.4	11,454.0	29.5	24.1	67.52	1,030.8	-562.4	444.6	393.2	51.41	8.648	
12,600.0	11,624.0	12,382.4	11,454.0	29.6	24.2	67.52	1,090.8	-562.9	444.6	392.9	51.71	8.598	
12,635.0	11,624.0	12,417.4	11,454.0	29.7	24.3	67.52	1,125.8	-563.2	444.6	392.7	51.89	8.567	
12,700.0	11,624.0	12,482.4	11,454.0	29.8	24.5	67.52	1,190.8	-563.8	444.6	392.3	52.24	8.510	
12,730.0	11,624.0	12,512.4	11,454.0	29.9	24.6	67.52	1,220.8	-564.1	444.6	392.2	52.41	8.483	
12,800.0	11,624.0	12,582.4	11,454.0	30.1	24.8	67.52	1,290.8	-564.7	444.6	391.8	52.81	8.418	
12,825.0	11,624.0	12,607.4	11,454.0	30.2	24.9	67.52	1,315.8	-564.9	444.6	391.6	52.96	8.394	
12,900.0	11,624.0	12,682.4	11,454.0	30.4	25.2	67.52	1,390.8	-565.6	444.6	391.2	53.42	8.322	
12,920.0	11,624.0	12,702.4	11,454.0	30.4	25.2	67.52	1,410.8	-565.8	444.6	391.0	53.55	8.302	
13,000.0	11,624.0	12,782.4	11,454.0	30.7	25.5	67.52	1,490.8	-566.5	444.6	390.5	54.07	8.222	
13,015.0	11,624.0	12,797.4	11,454.0	30.7	25.5	67.52	1,505.8	-566.7	444.6	390.4	54.17	8.207	
13,100.0	11,624.0	12,882.4	11,454.0	31.0	25.9	67.52	1,590.8	-567.4	444.6	389.8	54.76	8.119	
13,110.0	11,624.0	12,892.4	11,454.0	31.0	25.9	67.52	1,600.8	-567.5	444.6	389.8	54.83	8.109	
13,200.0	11,624.0	12,982.4	11,454.0	31.3	26.2	67.52	1,690.8	-568.4	444.6	389.1	55.47	8.015	
13,205.0	11,624.0	12,987.4	11,454.0	31.3	26.3	67.52	1,695.8	-568.4	444.6	389.1	55.51	8.009	
13,300.0	11,624.0	13,082.4	11,454.0	31.6	26.6	67.52	1,790.8	-569.3	444.6	388.4	56.22	7.908	
13,395.0	11,624.0	13,177.4	11,454.0	31.9	27.0	67.52	1,885.8	-570.1	444.6	387.6	56.97	7.805	
13,400.0	11,624.0	13,182.4	11,454.0	32.0	27.0	67.52	1,890.8	-570.2	444.6	387.6	57.00	7.799	
13,490.0	11,624.0	13,272.4	11,454.0	32.3	27.4	67.52	1,980.8	-571.0	444.6	386.9	57.73	7.701	
13,500.0	11,624.0	13,282.4	11,454.0	32.3	27.5	67.52	1,990.8	-571.1	444.6	386.8	57.82	7.690	
13,585.0	11,624.0	13,367.4	11,454.0	32.6	27.8	67.52	2,075.8	-571.8	444.6	386.1	58.53	7.596	
13,600.0	11,624.0	13,382.4	11,454.0	32.7	27.9	67.52	2,090.8	-572.0	444.6	385.9	58.66	7.580	
13,680.0	11,624.0	13,462.4	11,454.0	33.0	28.3	67.52	2,170.8	-572.7	444.6	385.3	59.35	7.491	
13,700.0	11,624.0	13,482.4	11,454.0	33.1	28.4	67.52	2,190.8	-572.9	444.6	385.1	59.52	7.469	
13,775.0	11,624.0	13,557.4	11,454.0	33.4	28.7	67.52	2,265.8	-573.6	444.6	384.4	60.20	7.386	
13,800.0	11,624.0	13,582.4	11,454.0	33.5	28.8	67.52	2,290.8	-573.8	444.6	384.2	60.42	7.359	
13,870.0	11,624.0	13,652.4	11,454.0	33.8	29.2	67.52	2,360.8	-574.4	444.6	383.6	61.06	7.281	
13,900.0	11,624.0	13,682.4	11,454.0	33.9	29.3	67.52	2,390.8	-574.7	444.6	383.3	61.34	7.248	
13,965.0	11,624.0	13,747.4	11,454.0	34.2	29.6	67.52	2,455.8	-575.3	444.6	382.7	61.95	7.177	
14,000.0	11,624.0	13,782.4	11,454.0	34.3	29.8	67.52	2,490.8	-575.6	444.6	382.3	62.28	7.139	
14,060.0	11,624.0	13,842.4	11,454.0	34.6	30.1	67.52	2,550.8	-576.2	444.6	381.8	62.86	7.073	
14,100.0	11,624.0	13,882.4	11,454.0	34.8	30.3	67.52	2,590.8	-576.5	444.6	381.4	63.25	7.029	
14,155.0	11,624.0	13,937.4	11,454.0	35.0	30.6	67.52	2,645.8	-577.0	444.6	380.8	63.79	6.970	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.0	11,624.0	13,982.4	11,454.0	35.2	30.8	67.52	2,690.8	-577.4	444.6	380.4	64.24	6.921	
14,250.0	11,624.0	14,032.4	11,454.0	35.5	31.1	67.52	2,740.8	-577.9	444.6	379.9	64.75	6.867	
14,300.0	11,624.0	14,082.4	11,454.0	35.7	31.3	67.52	2,790.8	-578.3	444.6	379.4	65.25	6.814	
14,345.0	11,624.0	14,127.4	11,454.0	35.9	31.6	67.52	2,835.8	-578.7	444.6	378.9	65.71	6.766	
14,400.0	11,624.0	14,182.4	11,454.0	36.2	31.9	67.52	2,890.8	-579.2	444.6	378.4	66.28	6.708	
14,440.0	11,624.0	14,222.4	11,454.0	36.4	32.1	67.52	2,930.8	-579.6	444.6	377.9	66.70	6.666	
14,500.0	11,624.0	14,282.4	11,454.0	36.6	32.4	67.52	2,990.8	-580.1	444.6	377.3	67.33	6.604	
14,535.0	11,624.0	14,317.4	11,454.0	36.8	32.6	67.52	3,025.8	-580.5	444.6	376.9	67.70	6.567	
14,600.0	11,624.0	14,382.4	11,454.0	37.1	33.0	67.52	3,090.8	-581.1	444.6	376.2	68.40	6.501	
14,630.0	11,624.0	14,412.4	11,454.0	37.3	33.1	67.52	3,120.7	-581.3	444.6	375.9	68.72	6.470	
14,700.0	11,624.0	14,482.4	11,454.0	37.6	33.5	67.52	3,190.7	-582.0	444.6	375.2	69.48	6.399	
14,725.0	11,624.0	14,507.4	11,454.0	37.8	33.7	67.52	3,215.7	-582.2	444.6	374.9	69.76	6.374	
14,800.0	11,624.0	14,582.4	11,454.0	38.1	34.1	67.52	3,290.7	-582.9	444.7	374.1	70.59	6.299	
14,820.0	11,624.0	14,602.4	11,454.0	38.2	34.2	67.52	3,310.7	-583.1	444.7	373.8	70.81	6.280	
14,900.0	11,624.0	14,682.4	11,454.0	38.7	34.7	67.52	3,390.7	-583.8	444.7	373.0	71.70	6.201	
14,915.0	11,624.0	14,697.4	11,454.0	38.7	34.8	67.52	3,405.7	-583.9	444.7	372.8	71.87	6.187	
15,000.0	11,624.0	14,782.4	11,454.0	39.2	35.2	67.52	3,490.7	-584.7	444.7	371.8	72.84	6.105	
15,010.0	11,624.0	14,792.4	11,454.0	39.2	35.3	67.52	3,500.7	-584.8	444.7	371.7	72.95	6.095	
15,100.0	11,624.0	14,882.4	11,454.0	39.7	35.8	67.52	3,590.7	-585.6	444.7	370.7	73.98	6.010	
15,105.0	11,624.0	14,887.4	11,454.0	39.7	35.9	67.52	3,595.7	-585.6	444.7	370.6	74.04	6.006	
15,200.0	11,624.0	14,982.4	11,454.0	40.2	36.4	67.52	3,690.7	-586.5	444.7	369.5	75.15	5.917	
15,295.0	11,624.0	15,077.4	11,454.0	40.8	37.0	67.52	3,785.7	-587.4	444.7	368.4	76.26	5.831	
15,300.0	11,624.0	15,082.4	11,454.0	40.8	37.0	67.52	3,790.7	-587.4	444.7	368.4	76.32	5.826	
15,390.0	11,624.0	15,172.4	11,454.0	41.3	37.6	67.52	3,880.7	-588.2	444.7	367.3	77.39	5.746	
15,400.0	11,624.0	15,182.4	11,454.0	41.3	37.6	67.52	3,890.7	-588.3	444.7	367.2	77.51	5.737	
15,485.0	11,624.0	15,267.4	11,454.0	41.8	38.2	67.52	3,975.7	-589.1	444.7	366.2	78.53	5.663	
15,500.0	11,624.0	15,282.4	11,454.0	41.9	38.2	67.52	3,990.7	-589.2	444.7	366.0	78.71	5.650	
15,580.0	11,624.0	15,362.4	11,454.0	42.4	38.7	67.52	4,070.7	-590.0	444.7	365.0	79.67	5.581	
15,600.0	11,624.0	15,382.4	11,454.0	42.5	38.9	67.52	4,090.7	-590.1	444.7	364.8	79.92	5.564	
15,675.0	11,624.0	15,457.4	11,454.0	42.9	39.3	67.52	4,165.7	-590.8	444.7	363.9	80.83	5.501	
15,700.0	11,624.0	15,482.4	11,454.0	43.0	39.5	67.52	4,190.7	-591.0	444.7	363.6	81.14	5.481	
15,770.0	11,624.0	15,552.4	11,454.0	43.5	39.9	67.52	4,260.7	-591.7	444.7	362.7	82.00	5.423	
15,800.0	11,624.0	15,582.4	11,454.0	43.6	40.1	67.52	4,290.7	-591.9	444.7	362.3	82.37	5.399	
15,865.0	11,624.0	15,647.4	11,454.0	44.0	40.5	67.52	4,355.7	-592.5	444.7	361.5	83.18	5.346	
15,900.0	11,624.0	15,682.4	11,454.0	44.2	40.8	67.52	4,390.7	-592.9	444.7	361.1	83.61	5.319	
15,960.0	11,624.0	15,742.4	11,454.0	44.6	41.1	67.52	4,450.7	-593.4	444.7	360.3	84.36	5.271	
16,000.0	11,624.0	15,782.4	11,454.0	44.8	41.4	67.53	4,490.7	-593.8	444.7	359.8	84.86	5.240	
16,055.0	11,624.0	15,837.4	11,454.0	45.1	41.7	67.53	4,545.7	-594.3	444.7	359.1	85.55	5.198	
16,100.0	11,624.0	15,882.4	11,454.0	45.4	42.0	67.53	4,590.7	-594.7	444.7	358.6	86.12	5.164	
16,150.0	11,624.0	15,932.4	11,454.0	45.7	42.4	67.53	4,640.7	-595.1	444.7	358.0	86.76	5.126	
16,200.0	11,624.0	15,982.4	11,454.0	46.0	42.7	67.53	4,690.7	-595.6	444.7	357.3	87.39	5.089	
16,245.0	11,624.0	16,027.4	11,454.0	46.3	43.0	67.53	4,735.7	-596.0	444.7	356.7	87.97	5.056	
16,300.0	11,624.0	16,082.4	11,454.0	46.6	43.3	67.53	4,790.7	-596.5	444.7	356.0	88.67	5.015	
16,340.0	11,624.0	16,122.4	11,454.0	46.8	43.6	67.53	4,830.7	-596.8	444.7	355.5	89.18	4.987	
16,400.0	11,624.0	16,182.4	11,454.0	47.2	44.0	67.53	4,890.7	-597.4	444.7	354.8	89.95	4.944	
16,435.0	11,624.0	16,217.4	11,454.0	47.4	44.2	67.53	4,925.7	-597.7	444.7	354.3	90.41	4.919	
16,500.0	11,624.0	16,282.4	11,454.0	47.8	44.6	67.53	4,990.7	-598.3	444.7	353.5	91.25	4.874	
16,530.0	11,624.0	16,312.4	11,454.0	48.0	44.8	67.53	5,020.7	-598.6	444.7	353.1	91.64	4.853	
16,600.0	11,624.0	16,382.4	11,454.0	48.4	45.3	67.53	5,090.7	-599.2	444.7	352.2	92.55	4.805	
16,625.0	11,624.0	16,407.4	11,454.0	48.6	45.5	67.53	5,115.7	-599.4	444.7	351.9	92.87	4.788	
16,700.0	11,624.0	16,482.4	11,454.0	49.1	46.0	67.53	5,190.7	-600.1	444.7	350.9	93.85	4.738	
16,720.0	11,624.0	16,502.4	11,454.0	49.2	46.1	67.53	5,210.7	-600.3	444.7	350.6	94.12	4.725	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,800.0	11,624.0	16,582.4	11,454.0	49.7	46.6	67.53	5,290.7	-601.0	444.7	349.6	95.17	4.673	
16,815.0	11,624.0	16,597.4	11,454.0	49.8	46.7	67.53	5,305.7	-601.2	444.7	349.4	95.37	4.663	
16,900.0	11,624.0	16,682.4	11,454.0	50.3	47.3	67.53	5,390.7	-601.9	444.7	348.2	96.49	4.609	
16,910.0	11,624.0	16,692.4	11,454.0	50.4	47.4	67.53	5,400.7	-602.0	444.7	348.1	96.62	4.603	
17,000.0	11,624.0	16,782.4	11,454.0	50.9	48.0	67.53	5,490.7	-602.8	444.7	346.9	97.82	4.547	
17,005.0	11,624.0	16,787.4	11,454.0	51.0	48.0	67.53	5,495.7	-602.9	444.7	346.9	97.88	4.544	
17,100.0	11,624.0	16,882.4	11,454.0	51.6	48.6	67.53	5,590.6	-603.7	444.7	345.6	99.15	4.486	
17,195.0	11,624.0	16,977.4	11,454.0	52.2	49.3	67.53	5,685.6	-604.6	444.7	344.3	100.42	4.429	
17,200.0	11,624.0	16,982.4	11,454.0	52.2	49.3	67.53	5,690.6	-604.7	444.7	344.3	100.49	4.426	
17,290.0	11,624.0	17,072.4	11,454.0	52.8	49.9	67.53	5,780.6	-605.5	444.8	343.1	101.70	4.373	
17,300.0	11,624.0	17,082.4	11,454.0	52.9	50.0	67.53	5,790.6	-605.6	444.8	342.9	101.83	4.367	
17,385.0	11,624.0	17,167.4	11,454.0	53.4	50.6	67.53	5,875.6	-606.3	444.8	341.8	102.98	4.319	
17,400.0	11,624.0	17,182.4	11,454.0	53.5	50.7	67.53	5,890.6	-606.5	444.8	341.6	103.18	4.310	
17,480.0	11,624.0	17,262.4	11,454.0	54.0	51.2	67.53	5,970.6	-607.2	444.8	340.5	104.27	4.266	
17,500.0	11,624.0	17,282.4	11,454.0	54.1	51.4	67.53	5,990.6	-607.4	444.8	340.2	104.54	4.255	
17,575.0	11,624.0	17,357.4	11,454.0	54.6	51.9	67.53	6,065.6	-608.1	444.8	339.2	105.56	4.214	
17,600.0	11,624.0	17,382.4	11,454.0	54.8	52.0	67.53	6,090.6	-608.3	444.8	338.9	105.90	4.200	
17,670.0	11,624.0	17,452.4	11,454.0	55.3	52.5	67.53	6,160.6	-608.9	444.8	337.9	106.85	4.162	
17,700.0	11,624.0	17,482.4	11,454.0	55.5	52.7	67.53	6,190.6	-609.2	444.8	337.5	107.26	4.147	
17,765.0	11,624.0	17,547.4	11,454.0	55.9	53.2	67.53	6,255.6	-609.8	444.8	336.6	108.15	4.113	
17,800.0	11,624.0	17,582.4	11,454.0	56.1	53.4	67.53	6,290.6	-610.1	444.8	336.1	108.63	4.094	
17,860.0	11,624.0	17,642.4	11,454.0	56.5	53.8	67.53	6,350.6	-610.6	444.8	335.3	109.45	4.064	
17,900.0	11,624.0	17,682.4	11,454.0	56.8	54.1	67.53	6,390.6	-611.0	444.8	334.8	110.00	4.043	
17,955.0	11,624.0	17,737.4	11,454.0	57.1	54.5	67.53	6,445.6	-611.5	444.8	334.0	110.76	4.016	
18,000.0	11,624.0	17,782.4	11,454.0	57.4	54.8	67.53	6,490.6	-611.9	444.8	333.4	111.38	3.993	
18,050.0	11,624.0	17,832.4	11,454.0	57.8	55.2	67.53	6,540.6	-612.4	444.8	332.7	112.07	3.969	
18,100.0	11,624.0	17,882.4	11,454.0	58.1	55.5	67.53	6,590.6	-612.8	444.8	332.0	112.76	3.944	
18,145.0	11,624.0	17,927.4	11,454.0	58.4	55.8	67.53	6,635.6	-613.2	444.8	331.4	113.38	3.923	
18,200.0	11,624.0	17,982.4	11,454.0	58.8	56.2	67.53	6,690.6	-613.7	444.8	330.6	114.15	3.897	
18,240.0	11,624.0	18,022.4	11,454.0	59.0	56.5	67.53	6,730.6	-614.1	444.8	330.1	114.70	3.878	
18,300.0	11,624.0	18,082.4	11,454.0	59.4	56.9	67.53	6,790.6	-614.6	444.8	329.3	115.54	3.850	
18,335.0	11,624.0	18,117.4	11,454.0	59.7	57.1	67.53	6,825.6	-615.0	444.8	328.8	116.02	3.834	
18,400.0	11,624.0	18,182.4	11,454.0	60.1	57.6	67.53	6,890.6	-615.5	444.8	327.9	116.93	3.804	
18,430.0	11,624.0	18,212.4	11,454.0	60.3	57.8	67.53	6,920.6	-615.8	444.8	327.5	117.35	3.790	
18,500.0	11,624.0	18,282.4	11,454.0	60.8	58.3	67.53	6,990.6	-616.5	444.8	326.5	118.32	3.759	
18,525.0	11,624.0	18,307.4	11,454.0	61.0	58.5	67.53	7,015.6	-616.7	444.8	326.1	118.67	3.748	
18,600.0	11,624.0	18,382.4	11,454.0	61.5	59.0	67.53	7,090.6	-617.4	444.8	325.1	119.72	3.715	
18,620.0	11,624.0	18,402.4	11,454.0	61.6	59.1	67.53	7,110.6	-617.5	444.8	324.8	120.00	3.707	
18,700.0	11,624.0	18,482.4	11,454.0	62.1	59.7	67.53	7,190.6	-618.3	444.8	323.7	121.13	3.672	
18,715.0	11,624.0	18,497.4	11,454.0	62.2	59.8	67.53	7,205.6	-618.4	444.8	323.5	121.34	3.666	
18,800.0	11,624.0	18,582.4	11,454.0	62.8	60.4	67.53	7,290.6	-619.2	444.8	322.3	122.53	3.630	
18,810.0	11,624.0	18,592.4	11,454.0	62.9	60.5	67.53	7,300.6	-619.3	444.8	322.1	122.67	3.626	
18,900.0	11,624.0	18,682.4	11,454.0	63.5	61.1	67.53	7,390.6	-620.1	444.8	320.9	123.94	3.589	
18,905.0	11,624.0	18,687.4	11,454.0	63.5	61.2	67.53	7,395.6	-620.1	444.8	320.8	124.01	3.587	
19,000.0	11,624.0	18,782.4	11,454.0	64.2	61.8	67.53	7,490.6	-621.0	444.8	319.5	125.35	3.549	
19,095.0	11,624.0	18,877.4	11,454.0	64.8	62.5	67.53	7,585.6	-621.9	444.8	318.1	126.70	3.511	
19,100.0	11,624.0	18,882.4	11,454.0	64.9	62.5	67.53	7,590.6	-621.9	444.8	318.1	126.77	3.509	
19,190.0	11,624.0	18,972.4	11,454.0	65.5	63.2	67.53	7,680.6	-622.7	444.8	316.8	128.04	3.474	
19,200.0	11,624.0	18,982.4	11,454.0	65.6	63.3	67.53	7,690.6	-622.8	444.8	316.6	128.19	3.470	
19,285.0	11,624.0	19,067.4	11,454.0	66.1	63.9	67.53	7,775.6	-623.6	444.8	315.4	129.39	3.438	
19,300.0	11,624.0	19,082.4	11,454.0	66.2	64.0	67.53	7,790.6	-623.7	444.8	315.2	129.61	3.432	
19,380.0	11,624.0	19,162.4	11,454.0	66.8	64.5	67.53	7,870.6	-624.4	444.8	314.1	130.74	3.402	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,400.0	11,624.0	19,182.4	11,454.0	66.9	64.7	67.53	7,890.6	-624.6	444.8	313.8	131.03	3.395	
19,475.0	11,624.0	19,257.4	11,454.0	67.5	65.2	67.53	7,965.5	-625.3	444.8	312.7	132.10	3.367	
19,500.0	11,624.0	19,282.4	11,454.0	67.6	65.4	67.53	7,990.5	-625.5	444.8	312.4	132.45	3.358	
19,570.0	11,624.0	19,352.4	11,454.0	68.1	65.9	67.53	8,060.5	-626.2	444.8	311.4	133.45	3.333	
19,600.0	11,624.0	19,382.4	11,454.0	68.3	66.1	67.53	8,090.5	-626.4	444.8	311.0	133.88	3.323	
19,665.0	11,624.0	19,447.4	11,454.0	68.8	66.6	67.53	8,155.5	-627.0	444.8	310.0	134.81	3.300	
19,700.0	11,624.0	19,482.4	11,454.0	69.0	66.8	67.53	8,190.5	-627.3	444.8	309.5	135.31	3.288	
19,760.0	11,624.0	19,542.4	11,454.0	69.4	67.3	67.53	8,250.5	-627.9	444.9	308.7	136.17	3.267	
19,800.0	11,624.0	19,582.4	11,454.0	69.7	67.6	67.53	8,290.5	-628.2	444.9	308.1	136.74	3.253	
19,855.0	11,624.0	19,637.4	11,454.0	70.1	68.0	67.53	8,345.5	-628.7	444.9	307.3	137.53	3.235	
19,900.0	11,624.0	19,682.4	11,454.0	70.4	68.3	67.53	8,390.5	-629.2	444.9	306.7	138.18	3.219	
19,950.0	11,624.0	19,732.4	11,454.0	70.8	68.6	67.53	8,440.5	-629.6	444.9	306.0	138.90	3.203	
20,000.0	11,624.0	19,782.4	11,454.0	71.1	69.0	67.53	8,490.5	-630.1	444.9	305.2	139.62	3.186	
20,045.0	11,624.0	19,827.4	11,454.0	71.4	69.3	67.53	8,535.5	-630.5	444.9	304.6	140.26	3.172	
20,100.0	11,624.0	19,882.4	11,454.0	71.8	69.7	67.53	8,590.5	-631.0	444.9	303.8	141.05	3.154	
20,140.0	11,624.0	19,922.4	11,454.0	72.1	70.0	67.53	8,630.5	-631.3	444.9	303.2	141.63	3.141	
20,200.0	11,624.0	19,982.4	11,454.0	72.5	70.4	67.53	8,690.5	-631.9	444.9	302.4	142.50	3.122	
20,235.0	11,624.0	20,017.4	11,454.0	72.8	70.7	67.53	8,725.5	-632.2	444.9	301.9	143.00	3.111	
20,300.0	11,624.0	20,082.4	11,454.0	73.2	71.2	67.53	8,790.5	-632.8	444.9	300.9	143.94	3.091	
20,330.0	11,624.0	20,112.4	11,454.0	73.4	71.4	67.53	8,820.5	-633.1	444.9	300.5	144.37	3.081	
20,400.0	11,624.0	20,182.4	11,454.0	73.9	71.9	67.53	8,890.5	-633.7	444.9	299.5	145.38	3.060	
20,425.0	11,624.0	20,207.4	11,454.0	74.1	72.1	67.53	8,915.5	-633.9	444.9	299.1	145.74	3.052	
20,500.0	11,624.0	20,282.4	11,454.0	74.6	72.6	67.53	8,990.5	-634.6	444.9	298.1	146.83	3.030	
20,520.0	11,624.0	20,302.4	11,454.0	74.8	72.8	67.53	9,010.5	-634.8	444.9	297.8	147.12	3.024	
20,600.0	11,624.0	20,382.4	11,454.0	75.3	73.3	67.53	9,090.5	-635.5	444.9	296.6	148.28	3.000	
20,615.0	11,624.0	20,397.4	11,454.0	75.4	73.4	67.53	9,105.5	-635.6	444.9	296.4	148.49	2.996	
20,700.0	11,624.0	20,482.4	11,454.0	76.0	74.1	67.54	9,190.5	-636.4	444.9	295.2	149.73	2.971	
20,710.0	11,624.0	20,492.4	11,454.0	76.1	74.1	67.54	9,200.5	-636.5	444.9	295.0	149.87	2.968	
20,800.0	11,624.0	20,582.4	11,454.0	76.7	74.8	67.54	9,290.5	-637.3	444.9	293.7	151.18	2.943	
20,805.0	11,624.0	20,587.4	11,454.0	76.8	74.8	67.54	9,295.5	-637.4	444.9	293.6	151.25	2.941	
20,900.0	11,624.0	20,682.4	11,454.0	77.5	75.5	67.54	9,390.5	-638.2	444.9	292.3	152.63	2.915	
20,995.0	11,624.0	20,777.4	11,454.0	78.1	76.2	67.54	9,485.5	-639.1	444.9	290.9	154.01	2.889	
21,000.0	11,624.0	20,782.4	11,454.0	78.2	76.2	67.54	9,490.5	-639.1	444.9	290.8	154.09	2.887	
21,090.0	11,624.0	20,872.4	11,454.0	78.8	76.9	67.54	9,580.5	-640.0	444.9	289.5	155.40	2.863	
21,100.0	11,624.0	20,882.4	11,454.0	78.9	77.0	67.54	9,590.5	-640.0	444.9	289.4	155.54	2.860	
21,185.0	11,624.0	20,967.4	11,454.0	79.5	77.6	67.54	9,675.5	-640.8	444.9	288.1	156.78	2.838	
21,200.0	11,624.0	20,982.4	11,454.0	79.6	77.7	67.54	9,690.5	-641.0	444.9	287.9	157.00	2.834	
21,280.0	11,624.0	21,062.4	11,454.0	80.2	78.3	67.54	9,770.5	-641.7	444.9	286.7	158.17	2.813	
21,300.0	11,624.0	21,082.4	11,454.0	80.3	78.4	67.54	9,790.5	-641.9	444.9	286.5	158.46	2.808	
21,375.0	11,624.0	21,157.4	11,454.0	80.8	79.0	67.54	9,865.5	-642.5	444.9	285.4	159.55	2.788	
21,400.0	11,624.0	21,182.4	11,454.0	81.0	79.2	67.54	9,890.5	-642.8	444.9	285.0	159.92	2.782	
21,470.0	11,624.0	21,252.4	11,454.0	81.5	79.7	67.54	9,960.5	-643.4	444.9	284.0	160.94	2.764	
21,500.0	11,624.0	21,282.4	11,454.0	81.7	79.9	67.54	9,990.5	-643.7	444.9	283.5	161.38	2.757	
21,565.0	11,624.0	21,347.4	11,454.0	82.2	80.4	67.54	10,055.5	-644.3	444.9	282.6	162.33	2.741	
21,600.0	11,624.0	21,382.4	11,454.0	82.4	80.6	67.54	10,090.5	-644.6	444.9	282.1	162.85	2.732	
21,660.0	11,624.0	21,442.4	11,454.0	82.9	81.1	67.54	10,150.5	-645.1	444.9	281.2	163.72	2.718	
21,700.0	11,624.0	21,482.4	11,454.0	83.2	81.4	67.54	10,190.5	-645.5	444.9	280.6	164.31	2.708	
21,755.0	11,624.0	21,537.4	11,454.0	83.6	81.8	67.54	10,245.5	-646.0	444.9	279.8	165.12	2.695	
21,800.0	11,624.0	21,582.4	11,454.0	83.9	82.1	67.54	10,290.5	-646.4	444.9	279.2	165.78	2.684	
21,850.0	11,624.0	21,632.4	11,454.0	84.2	82.5	67.54	10,340.5	-646.9	444.9	278.4	166.51	2.672	
21,900.0	11,624.0	21,682.4	11,454.0	84.6	82.8	67.54	10,390.4	-647.3	444.9	277.7	167.24	2.660	
21,945.0	11,624.0	21,727.4	11,454.0	84.9	83.2	67.54	10,435.4	-647.7	444.9	277.0	167.90	2.650	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2500-r.5 MWD+IFR1, 11020-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
21,945.0	11,624.0	21,727.5	11,454.0	84.9	83.2	67.54	10,435.5	-647.7	444.9	277.0	167.90	2.650	
22,000.0	11,624.0	21,760.3	11,454.0	85.3	83.4	67.54	10,468.3	-648.0	445.5	277.3	168.24	2.648	
22,040.0	11,624.0	21,760.3	11,454.0	85.6	83.4	67.54	10,468.3	-648.0	449.3	282.2	167.06	2.689	
22,049.9	11,624.0	21,760.3	11,454.0	85.7	83.4	67.54	10,468.3	-648.0	450.7	284.2	166.59	2.706	
22,050.7	11,624.0	21,760.3	11,454.0	85.7	83.4	67.54	10,468.3	-648.0	450.9	284.3	166.55	2.707	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	3.0	3.0	89.61	0.4	59.9	59.9				
95.0	95.0	96.0	96.0	3.0	3.0	89.61	0.4	59.9	59.9	53.9	6.03	9.941	
100.0	100.0	101.0	101.0	3.0	3.0	89.61	0.4	59.9	59.9	53.9	6.03	9.935	
190.0	190.0	191.0	191.0	3.1	3.1	89.61	0.4	59.9	59.9	53.7	6.15	9.735	
200.0	200.0	201.0	201.0	3.1	3.1	89.61	0.4	59.9	59.9	53.7	6.17	9.705	
285.0	285.0	286.0	286.0	3.2	3.2	89.61	0.4	59.9	59.9	53.6	6.31	9.491	
300.0	300.0	301.0	301.0	3.2	3.2	89.61	0.4	59.9	59.9	53.6	6.34	9.448	
380.0	380.0	381.0	381.0	3.3	3.3	89.61	0.4	59.9	59.9	53.4	6.49	9.231	
400.0	400.0	401.0	401.0	3.3	3.3	89.61	0.4	59.9	59.9	53.4	6.53	9.173	
475.0	475.0	476.0	476.0	3.4	3.4	89.61	0.4	59.9	59.9	53.2	6.69	8.960	
500.0	500.0	501.0	501.0	3.4	3.4	89.61	0.4	59.9	59.9	53.2	6.74	8.886	
570.0	570.0	571.0	571.0	3.5	3.5	89.61	0.4	59.9	59.9	53.0	6.90	8.683	
600.0	600.0	601.0	601.0	3.5	3.5	89.61	0.4	59.9	59.9	52.9	6.97	8.594	
665.0	665.0	666.0	666.0	3.6	3.6	89.61	0.4	59.9	59.9	52.8	7.13	8.403	
700.0	700.0	701.0	701.0	3.7	3.7	89.61	0.4	59.9	59.9	52.7	7.22	8.300	
760.0	760.0	761.0	761.0	3.8	3.8	89.61	0.4	59.9	59.9	52.5	7.37	8.126	
800.0	800.0	801.0	801.0	3.8	3.8	89.61	0.4	59.9	59.9	52.4	7.48	8.009	
855.0	855.0	856.0	856.0	3.9	3.9	89.61	0.4	59.9	59.9	52.3	7.63	7.852	
900.0	900.0	901.0	901.0	4.0	4.0	89.61	0.4	59.9	59.9	52.1	7.75	7.725	
950.0	950.0	951.0	951.0	4.1	4.1	89.61	0.4	59.9	59.9	52.0	7.90	7.585	
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	89.61	0.4	59.9	59.9	51.9	8.04	7.448	
1,045.0	1,045.0	1,046.0	1,046.0	4.2	4.2	89.61	0.4	59.9	59.9	51.7	8.18	7.327	
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	89.61	0.4	59.9	59.9	51.6	8.34	7.181	
1,140.0	1,140.0	1,141.0	1,141.0	4.4	4.4	89.61	0.4	59.9	59.9	51.4	8.46	7.077	
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	89.61	0.4	59.9	59.9	51.3	8.65	6.924	
1,235.0	1,235.0	1,236.0	1,236.0	4.6	4.6	89.61	0.4	59.9	59.9	51.1	8.76	6.837	
1,300.0	1,300.0	1,301.0	1,301.0	4.7	4.7	89.61	0.4	59.9	59.9	50.9	8.97	6.679	
1,330.0	1,330.0	1,331.0	1,331.0	4.7	4.7	89.61	0.4	59.9	59.9	50.8	9.07	6.607	
1,400.0	1,400.0	1,401.0	1,401.0	4.9	4.9	89.61	0.4	59.9	59.9	50.6	9.30	6.444	
1,425.0	1,425.0	1,426.0	1,426.0	4.9	4.9	89.61	0.4	59.9	59.9	50.5	9.38	6.388	
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.1	89.61	0.4	59.9	59.9	50.3	9.63	6.221	
1,520.0	1,520.0	1,521.0	1,521.0	5.1	5.1	89.61	0.4	59.9	59.9	50.2	9.70	6.178	
1,600.0	1,600.0	1,601.0	1,601.0	5.3	5.3	89.61	0.4	59.9	59.9	49.9	9.97	6.009	
1,615.0	1,615.0	1,616.0	1,616.0	5.3	5.3	89.61	0.4	59.9	59.9	49.9	10.02	5.978	
1,700.0	1,700.0	1,701.0	1,701.0	5.5	5.5	89.61	0.4	59.9	59.9	49.6	10.31	5.808	
1,710.0	1,710.0	1,711.0	1,711.0	5.5	5.5	89.61	0.4	59.9	59.9	49.6	10.35	5.788	
1,800.0	1,800.0	1,801.0	1,801.0	5.7	5.7	89.61	0.4	59.9	59.9	49.2	10.66	5.617	
1,805.0	1,805.0	1,806.0	1,806.0	5.7	5.7	89.61	0.4	59.9	59.9	49.2	10.68	5.608	
1,900.0	1,900.0	1,901.0	1,901.0	5.9	5.9	89.61	0.4	59.9	59.9	48.9	11.02	5.436	
1,995.0	1,995.0	1,996.0	1,996.0	6.1	6.1	89.61	0.4	59.9	59.9	48.5	11.36	5.272	
2,000.0	2,000.0	2,001.0	2,001.0	6.1	6.1	89.61	0.4	59.9	59.9	48.5	11.38	5.264 CC, ES	
2,090.0	2,090.0	2,091.0	2,091.0	6.2	6.3	179.76	0.4	59.9	61.3	49.6	11.74	5.223	
2,100.0	2,100.0	2,101.0	2,101.0	6.2	6.3	179.77	0.4	59.9	61.6	49.9	11.78	5.234	
2,185.0	2,184.9	2,185.9	2,185.9	6.3	6.5	179.78	0.4	59.9	65.9	53.7	12.12	5.433	
2,200.0	2,199.8	2,200.8	2,200.8	6.3	6.5	179.78	0.4	59.9	66.9	54.7	12.19	5.488	
2,280.0	2,279.6	2,280.6	2,280.6	6.4	6.7	179.80	0.4	59.9	73.6	61.0	12.52	5.874	
2,300.0	2,299.5	2,300.5	2,300.5	6.5	6.7	179.81	0.4	59.9	75.6	63.0	12.61	5.995	
2,375.0	2,373.9	2,374.9	2,374.9	6.6	6.9	179.83	0.4	59.9	84.4	71.5	12.94	6.522	
2,400.0	2,398.7	2,399.7	2,399.7	6.6	6.9	179.83	0.4	59.9	87.8	74.7	13.05	6.725	
2,470.0	2,467.9	2,468.9	2,468.9	6.8	7.1	179.85	0.4	59.9	98.4	85.0	13.38	7.353	
2,500.0	2,497.5	2,498.5	2,498.5	6.9	7.1	179.86	0.4	59.9	103.4	89.9	13.52	7.651	
2,565.0	2,561.3	2,562.3	2,562.3	7.1	7.3	179.87	0.4	59.9	115.4	101.7	13.79	8.374	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,575.0	2,571.1	2,572.1	2,572.1	7.1	7.3	179.87	0.4	59.9	117.4	103.6	13.83	8.491	
2,600.0	2,595.6	2,596.6	2,596.6	7.1	7.4	179.88	0.4	59.9	122.4	108.5	13.92	8.796	
2,660.0	2,654.4	2,655.4	2,655.4	7.3	7.5	179.89	0.4	59.9	134.4	120.2	14.18	9.476	
2,700.0	2,693.6	2,694.6	2,694.6	7.4	7.6	179.90	0.4	59.9	142.3	128.0	14.35	9.915	
2,755.0	2,747.5	2,748.5	2,748.5	7.5	7.7	179.90	0.4	59.9	153.3	138.7	14.61	10.494	
2,800.0	2,791.6	2,792.6	2,792.6	7.6	7.8	179.91	0.4	59.9	162.3	147.5	14.82	10.953	
2,850.0	2,840.6	2,841.6	2,841.6	7.8	7.9	179.91	0.4	59.9	172.2	157.2	15.06	11.441	
2,900.0	2,889.6	2,890.6	2,890.6	7.9	8.0	179.92	0.4	59.9	182.2	166.9	15.30	11.912	
2,945.0	2,933.7	2,934.7	2,934.7	8.1	8.1	179.92	0.4	59.9	191.2	175.7	15.52	12.319	
3,000.0	2,987.6	2,988.6	2,988.6	8.2	8.2	179.93	0.4	59.9	202.1	186.4	15.79	12.799	
3,040.0	3,026.8	3,030.0	3,030.0	8.4	8.3	179.93	0.4	59.7	210.0	194.0	16.01	13.118	
3,100.0	3,085.6	3,093.9	3,093.8	8.6	8.4	179.93	0.4	58.4	220.7	204.3	16.33	13.514	
3,135.0	3,119.9	3,131.3	3,131.3	8.7	8.4	179.92	0.5	56.9	226.3	209.8	16.51	13.704	
3,200.0	3,183.6	3,201.3	3,201.1	8.9	8.5	179.90	0.5	52.8	235.5	218.7	16.85	13.980	
3,230.0	3,213.0	3,233.8	3,233.5	9.0	8.5	179.89	0.6	50.4	239.3	222.3	16.97	14.096	
3,300.0	3,281.6	3,304.7	3,304.1	9.3	8.5	179.87	0.7	44.2	247.2	230.0	17.28	14.311	
3,325.0	3,306.1	3,329.5	3,328.9	9.3	8.5	179.86	0.7	42.1	250.1	232.7	17.40	14.370	
3,400.0	3,379.6	3,404.0	3,403.1	9.6	8.6	179.84	0.8	35.6	258.6	240.8	17.78	14.540	
3,420.0	3,399.2	3,423.9	3,422.9	9.7	8.6	179.83	0.9	33.8	260.8	242.9	17.89	14.580	
3,500.0	3,477.6	3,503.4	3,502.1	10.0	8.7	179.81	1.0	26.9	269.9	251.6	18.31	14.736	
3,515.0	3,492.3	3,518.3	3,516.9	10.0	8.7	179.80	1.0	25.6	271.6	253.2	18.40	14.762	
3,600.0	3,575.6	3,602.7	3,601.1	10.4	8.8	179.78	1.1	18.3	281.2	262.3	18.87	14.903	
3,610.0	3,585.4	3,612.7	3,611.0	10.4	8.8	179.78	1.1	17.4	282.3	263.4	18.93	14.918	
3,700.0	3,673.6	3,702.1	3,700.1	10.7	8.9	179.76	1.3	9.6	292.5	273.1	19.44	15.044	
3,705.0	3,678.5	3,707.1	3,705.0	10.8	8.9	179.76	1.3	9.2	293.1	273.6	19.47	15.050	
3,800.0	3,771.6	3,801.4	3,799.0	11.1	9.0	179.73	1.4	0.9	303.8	283.8	20.04	15.161	
3,895.0	3,864.6	3,895.8	3,893.1	11.5	9.1	179.71	1.5	-7.3	314.6	294.0	20.62	15.254	
3,900.0	3,869.5	3,900.8	3,898.0	11.5	9.1	179.71	1.6	-7.7	315.2	294.5	20.65	15.259	
3,990.0	3,957.7	3,990.2	3,987.1	11.9	9.3	179.69	1.7	-15.5	325.4	304.1	21.22	15.331	
4,000.0	3,967.5	4,000.2	3,997.0	11.9	9.3	179.69	1.7	-16.4	326.5	305.2	21.29	15.339	
4,085.0	4,050.8	4,084.6	4,081.1	12.3	9.5	179.68	1.8	-23.7	336.1	314.3	21.83	15.394	
4,100.0	4,065.5	4,099.5	4,096.0	12.3	9.5	179.67	1.8	-25.0	337.8	315.9	21.93	15.403	
4,180.0	4,143.9	4,179.0	4,175.1	12.7	9.7	179.66	2.0	-32.0	346.9	324.4	22.46	15.444	
4,200.0	4,163.5	4,198.9	4,194.9	12.7	9.8	179.66	2.0	-33.7	349.1	326.5	22.59	15.454	
4,275.0	4,237.0	4,273.4	4,269.2	13.1	10.0	179.64	2.1	-40.2	357.6	334.5	23.10	15.484	
4,300.0	4,261.5	4,298.2	4,293.9	13.2	10.0	179.64	2.1	-42.3	360.5	337.2	23.27	15.494	
4,370.0	4,330.1	4,367.8	4,363.2	13.5	10.2	179.63	2.2	-48.4	368.4	344.6	23.74	15.514	
4,400.0	4,359.5	4,397.6	4,392.9	13.6	10.3	179.62	2.3	-51.0	371.8	347.8	23.95	15.523	
4,465.0	4,423.2	4,462.2	4,457.2	13.9	10.5	179.61	2.4	-56.6	379.1	354.7	24.40	15.537	
4,500.0	4,457.5	4,496.9	4,491.9	14.0	10.5	179.61	2.4	-59.7	383.1	358.5	24.65	15.544	
4,560.0	4,516.3	4,556.6	4,551.3	14.3	10.7	179.60	2.5	-64.9	389.9	364.8	25.07	15.552	
4,600.0	4,555.5	4,596.3	4,590.9	14.4	10.8	179.60	2.6	-68.3	394.4	369.1	25.35	15.557	
4,655.0	4,609.4	4,650.9	4,645.3	14.7	11.0	179.59	2.7	-73.1	400.7	374.9	25.75	15.561	
4,700.0	4,653.5	4,695.7	4,689.8	14.9	11.1	179.58	2.7	-77.0	405.8	379.7	26.07	15.564	
4,750.0	4,702.5	4,745.3	4,739.3	15.1	11.2	179.58	2.8	-81.3	411.4	385.0	26.43	15.565	
4,800.0	4,751.5	4,795.0	4,788.8	15.3	11.4	179.57	2.9	-85.6	417.1	390.3	26.79	15.566	
4,845.0	4,795.6	4,839.7	4,833.4	15.5	11.5	179.57	2.9	-89.5	422.2	395.0	27.12	15.565	
4,900.0	4,849.5	4,894.4	4,887.8	15.7	11.7	179.56	3.0	-94.3	428.4	400.9	27.53	15.563	
4,940.0	4,888.7	4,934.1	4,927.4	15.9	11.8	179.56	3.1	-97.8	432.9	405.1	27.82	15.560	
5,000.0	4,947.5	4,993.7	4,986.8	16.2	12.0	179.55	3.2	-103.0	439.7	411.5	28.27	15.556	
5,035.0	4,981.8	5,028.5	5,021.4	16.3	12.1	179.55	3.2	-106.0	443.7	415.2	28.53	15.553	
5,100.0	5,045.5	5,093.1	5,085.8	16.6	12.3	179.54	3.3	-111.6	451.0	422.0	29.01	15.546	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,130.0	5,074.9	5,122.9	5,115.4	16.7	12.4	179.54	3.4	-114.2	454.4	425.2	29.24	15.543	
5,200.0	5,143.4	5,192.1	5,184.4	17.0	12.6	179.53	3.5	-120.2	462.4	432.6	29.75	15.540	
5,225.0	5,167.9	5,215.1	5,207.3	17.1	12.6	179.53	3.5	-122.2	465.3	435.3	29.93	15.546	
5,300.0	5,241.4	5,283.8	5,275.9	17.5	12.8	179.52	3.6	-127.4	474.6	444.1	30.46	15.580	
5,320.0	5,261.0	5,300.0	5,292.0	17.6	12.9	179.52	3.6	-128.5	477.2	446.6	30.59	15.601	
5,400.0	5,339.4	5,375.2	5,367.0	17.9	13.1	179.52	3.7	-133.1	488.3	457.2	31.15	15.676	
5,415.0	5,354.1	5,388.9	5,380.7	18.0	13.2	179.52	3.7	-133.9	490.5	459.3	31.25	15.695	
5,500.0	5,437.4	5,466.2	5,457.9	18.4	13.4	179.53	3.8	-137.4	503.7	471.9	31.82	15.828	
5,510.0	5,447.2	5,475.2	5,467.0	18.4	13.4	179.53	3.8	-137.7	505.3	473.4	31.89	15.846	
5,600.0	5,535.4	5,556.6	5,548.3	18.8	13.6	179.53	3.8	-140.2	520.6	488.1	32.47	16.035	
5,605.0	5,540.3	5,561.1	5,552.8	18.8	13.6	179.53	3.8	-140.3	521.5	489.0	32.50	16.047	
5,700.0	5,633.4	5,646.6	5,638.3	19.2	13.8	179.55	3.8	-141.5	539.1	506.0	33.04	16.316	
5,795.0	5,726.5	5,735.8	5,727.5	19.7	13.9	179.56	3.8	-141.7	557.8	524.3	33.52	16.644	
5,800.0	5,731.4	5,740.7	5,732.4	19.7	13.9	179.56	3.8	-141.7	558.8	525.3	33.54	16.662	
5,890.0	5,819.6	5,828.9	5,820.6	20.1	13.9	179.57	3.8	-141.7	576.8	542.8	33.99	16.968	
5,900.0	5,829.4	5,838.7	5,830.4	20.1	13.9	179.58	3.8	-141.7	578.8	544.7	34.04	17.002	
5,985.0	5,912.7	5,922.0	5,913.7	20.5	14.0	179.59	3.8	-141.7	595.7	561.3	34.47	17.283	
6,000.0	5,927.4	5,936.7	5,928.4	20.6	14.0	179.59	3.8	-141.7	598.7	564.2	34.54	17.332	
6,080.0	6,005.8	6,015.1	6,006.8	21.0	14.0	179.60	3.8	-141.7	614.7	579.7	34.95	17.588	
6,100.0	6,025.4	6,034.7	6,026.4	21.0	14.0	179.60	3.8	-141.7	618.7	583.6	35.05	17.652	
6,175.0	6,098.9	6,108.2	6,099.9	21.4	14.1	179.61	3.8	-141.7	633.6	598.2	35.43	17.885	
6,200.0	6,123.4	6,132.7	6,124.4	21.5	14.1	179.62	3.8	-141.7	638.6	603.0	35.55	17.962	
6,270.0	6,192.0	6,201.3	6,193.0	21.8	14.1	179.62	3.8	-141.7	652.5	616.6	35.91	18.173	
6,300.0	6,221.4	6,230.7	6,222.4	21.9	14.1	179.63	3.8	-141.7	658.5	622.5	36.06	18.263	
6,365.0	6,285.1	6,294.4	6,286.1	22.2	14.2	179.63	3.8	-141.7	671.5	635.1	36.39	18.453	
6,400.0	6,319.4	6,328.7	6,320.4	22.4	14.2	179.64	3.8	-141.7	678.5	641.9	36.57	18.555	
6,460.0	6,378.2	6,387.5	6,379.2	22.7	14.2	179.64	3.8	-141.7	690.4	653.6	36.87	18.726	
6,500.0	6,417.4	6,426.7	6,418.4	22.9	14.2	179.65	3.8	-141.7	698.4	661.3	37.07	18.838	
6,543.5	6,460.0	6,469.3	6,461.0	23.0	14.3	179.65	3.8	-141.7	707.1	669.8	37.29	18.963	
6,555.0	6,471.2	6,480.6	6,472.2	23.1	14.3	179.65	3.8	-141.7	709.4	672.0	37.34	18.996	
6,600.0	6,515.4	6,524.7	6,516.4	23.3	14.3	179.66	3.8	-141.7	718.1	680.5	37.56	19.116	
6,650.0	6,564.5	6,573.9	6,565.5	23.5	14.3	179.66	3.8	-141.7	727.3	689.5	37.81	19.234	
6,700.0	6,613.7	6,623.1	6,614.7	23.7	14.3	179.67	3.8	-141.7	736.2	698.1	38.07	19.340	
6,745.0	6,658.1	6,667.4	6,659.1	23.9	14.4	179.67	3.8	-141.7	743.8	705.5	38.29	19.426	
6,800.0	6,712.4	6,721.7	6,713.4	24.2	14.4	179.68	3.8	-141.7	752.6	714.0	38.56	19.518	
6,840.0	6,751.9	6,761.3	6,752.9	24.3	14.4	179.68	3.8	-141.7	758.6	719.9	38.75	19.577	
6,900.0	6,811.3	6,820.6	6,812.3	24.6	14.4	179.68	3.8	-141.7	767.2	728.2	39.04	19.652	
6,935.0	6,846.0	6,855.3	6,847.0	24.7	14.5	179.69	3.8	-141.7	772.0	732.8	39.21	19.690	
7,000.0	6,910.5	6,919.8	6,911.5	25.0	14.5	179.69	3.8	-141.7	780.2	740.7	39.51	19.745	
7,030.0	6,940.3	6,949.6	6,941.3	25.1	14.5	179.69	3.8	-141.7	783.7	744.1	39.65	19.765	
7,100.0	7,009.8	7,019.2	7,010.8	25.4	14.6	179.69	3.8	-141.7	791.4	751.4	39.97	19.798	
7,125.0	7,034.7	7,044.0	7,035.7	25.5	14.6	179.70	3.8	-141.7	793.9	753.8	40.08	19.806	
7,200.0	7,109.4	7,118.7	7,110.4	25.8	14.6	179.70	3.8	-141.7	800.9	760.4	40.42	19.814	
7,220.0	7,129.3	7,138.6	7,130.3	25.9	14.6	179.70	3.8	-141.7	802.5	762.0	40.50	19.814	
7,300.0	7,209.1	7,218.4	7,210.1	26.2	14.7	179.70	3.8	-141.7	808.6	767.7	40.85	19.796	
7,315.0	7,224.0	7,233.4	7,225.0	26.2	14.7	179.70	3.8	-141.7	809.6	768.7	40.91	19.791	
7,400.0	7,308.9	7,318.2	7,309.9	26.5	14.7	179.70	3.8	-141.7	814.6	773.3	41.25	19.745	
7,410.0	7,318.9	7,328.2	7,319.9	26.6	14.7	179.70	3.8	-141.7	815.1	773.8	41.29	19.739	
7,500.0	7,408.8	7,418.1	7,409.8	26.9	14.8	179.71	3.8	-141.7	818.8	777.2	41.64	19.666	
7,505.0	7,413.8	7,423.1	7,414.8	26.9	14.8	179.71	3.8	-141.7	819.0	777.3	41.65	19.662	
7,600.0	7,508.8	7,518.1	7,509.8	27.1	14.8	179.71	3.8	-141.7	821.3	779.4	41.98	19.564	
7,693.5	7,602.3	7,611.6	7,603.3	27.3	14.9	89.56	3.8	-141.7	822.1	779.9	42.17	19.496	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_3000-r.5 MWD+IFR1_11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,695.0	7,603.8	7,613.1	7,604.8	27.3	14.9	89.56	3.8	-141.7	822.1	779.9	42.17	19.495	
7,700.0	7,608.8	7,618.1	7,609.8	27.3	14.9	89.56	3.8	-141.7	822.1	779.9	42.17	19.494	
7,790.0	7,698.8	7,708.1	7,699.8	27.3	15.0	89.56	3.8	-141.7	822.1	779.8	42.25	19.458	
7,800.0	7,708.8	7,718.1	7,709.8	27.3	15.0	89.56	3.8	-141.7	822.1	779.8	42.26	19.455	
7,885.0	7,793.8	7,803.1	7,794.8	27.3	15.0	89.56	3.8	-141.7	822.1	779.8	42.33	19.421	
7,900.0	7,808.8	7,818.1	7,809.8	27.3	15.0	89.56	3.8	-141.7	822.1	779.8	42.34	19.415	
7,980.0	7,888.8	7,898.1	7,889.8	27.4	15.1	89.56	3.8	-141.7	822.1	779.7	42.41	19.384	
8,000.0	7,908.8	7,918.1	7,909.8	27.4	15.1	89.56	3.8	-141.7	822.1	779.7	42.43	19.376	
8,075.0	7,983.8	7,993.1	7,984.8	27.4	15.1	89.56	3.8	-141.7	822.1	779.6	42.49	19.346	
8,100.0	8,008.8	8,018.1	8,009.8	27.4	15.1	89.56	3.8	-141.7	822.1	779.6	42.51	19.337	
8,170.0	8,078.8	8,088.1	8,079.8	27.4	15.2	89.56	3.8	-141.7	822.1	779.5	42.58	19.309	
8,200.0	8,108.8	8,118.1	8,109.8	27.4	15.2	89.56	3.8	-141.7	822.1	779.5	42.60	19.297	
8,265.0	8,173.8	8,183.1	8,174.8	27.4	15.2	89.56	3.8	-141.7	822.1	779.4	42.66	19.272	
8,300.0	8,208.8	8,218.1	8,209.8	27.4	15.3	89.56	3.8	-141.7	822.1	779.4	42.69	19.258	
8,360.0	8,268.8	8,278.1	8,269.8	27.5	15.3	89.56	3.8	-141.7	822.1	779.4	42.74	19.234	
8,400.0	8,308.8	8,318.1	8,309.8	27.5	15.3	89.56	3.8	-141.7	822.1	779.3	42.78	19.218	
8,455.0	8,363.8	8,373.1	8,364.8	27.5	15.3	89.56	3.8	-141.7	822.1	779.3	42.82	19.197	
8,500.0	8,408.8	8,418.1	8,409.8	27.5	15.4	89.56	3.8	-141.7	822.1	779.2	42.86	19.179	
8,550.0	8,458.8	8,468.1	8,459.8	27.5	15.4	89.56	3.8	-141.7	822.1	779.2	42.91	19.159	
8,600.0	8,508.8	8,518.1	8,509.8	27.5	15.4	89.56	3.8	-141.7	822.1	779.1	42.95	19.140	
8,645.0	8,553.8	8,563.1	8,554.8	27.5	15.5	89.56	3.8	-141.7	822.1	779.1	42.99	19.122	
8,700.0	8,608.8	8,618.1	8,609.8	27.6	15.5	89.56	3.8	-141.7	822.1	779.1	43.04	19.100	
8,740.0	8,648.8	8,658.1	8,649.8	27.6	15.5	89.56	3.8	-141.7	822.1	779.0	43.08	19.084	
8,800.0	8,708.8	8,718.1	8,709.8	27.6	15.6	89.56	3.8	-141.7	822.1	779.0	43.13	19.061	
8,835.0	8,743.8	8,753.1	8,744.8	27.6	15.6	89.56	3.8	-141.7	822.1	778.9	43.16	19.047	
8,900.0	8,808.8	8,818.1	8,809.8	27.6	15.6	89.56	3.8	-141.7	822.1	778.9	43.22	19.021	
8,930.0	8,838.8	8,848.1	8,839.8	27.6	15.6	89.56	3.8	-141.7	822.1	778.8	43.25	19.009	
9,000.0	8,908.8	8,918.1	8,909.8	27.6	15.7	89.56	3.8	-141.7	822.1	778.8	43.31	18.981	
9,025.0	8,933.8	8,943.1	8,934.8	27.7	15.7	89.56	3.8	-141.7	822.1	778.8	43.33	18.972	
9,100.0	9,008.8	9,018.1	9,009.8	27.7	15.7	89.56	3.8	-141.7	822.1	778.7	43.40	18.942	
9,120.0	9,028.8	9,038.1	9,029.8	27.7	15.7	89.56	3.8	-141.7	822.1	778.7	43.42	18.934	
9,200.0	9,108.8	9,118.1	9,109.8	27.7	15.8	89.56	3.8	-141.7	822.1	778.6	43.49	18.902	
9,215.0	9,123.8	9,133.1	9,124.8	27.7	15.8	89.56	3.8	-141.7	822.1	778.6	43.51	18.896	
9,300.0	9,208.8	9,218.1	9,209.8	27.7	15.9	89.56	3.8	-141.7	822.1	778.5	43.58	18.863	
9,310.0	9,218.8	9,228.1	9,219.8	27.7	15.9	89.56	3.8	-141.7	822.1	778.5	43.59	18.859	
9,400.0	9,308.8	9,318.1	9,309.8	27.8	15.9	89.56	3.8	-141.7	822.1	778.4	43.67	18.823	
9,405.0	9,313.8	9,323.1	9,314.8	27.8	15.9	89.56	3.8	-141.7	822.1	778.4	43.68	18.821	
9,500.0	9,408.8	9,418.1	9,409.8	27.8	16.0	89.56	3.8	-141.7	822.1	778.3	43.77	18.784	
9,595.0	9,503.8	9,513.1	9,504.8	27.8	16.0	89.56	3.8	-141.7	822.1	778.2	43.85	18.746	
9,600.0	9,508.8	9,518.1	9,509.8	27.8	16.0	89.56	3.8	-141.7	822.1	778.2	43.86	18.744	
9,690.0	9,598.8	9,608.1	9,599.8	27.9	16.1	89.56	3.8	-141.7	822.1	778.2	43.94	18.709	
9,700.0	9,608.8	9,618.1	9,609.8	27.9	16.1	89.56	3.8	-141.7	822.1	778.1	43.95	18.705	
9,785.0	9,693.8	9,703.1	9,694.8	27.9	16.2	89.56	3.8	-141.7	822.1	778.1	44.03	18.671	
9,800.0	9,708.8	9,718.1	9,709.8	27.9	16.2	89.56	3.8	-141.7	822.1	778.1	44.04	18.665	
9,880.0	9,788.8	9,798.1	9,789.8	27.9	16.2	89.56	3.8	-141.7	822.1	778.0	44.12	18.633	
9,900.0	9,808.8	9,818.1	9,809.8	27.9	16.2	89.56	3.8	-141.7	822.1	778.0	44.14	18.625	
9,975.0	9,883.8	9,893.1	9,884.8	27.9	16.3	89.56	3.8	-141.7	822.1	777.9	44.21	18.596	
10,000.0	9,908.8	9,918.1	9,909.8	28.0	16.3	89.56	3.8	-141.7	822.1	777.9	44.23	18.586	
10,070.0	9,978.8	9,988.1	9,979.8	28.0	16.3	89.56	3.8	-141.7	822.1	777.8	44.30	18.558	
10,100.0	10,008.8	10,018.1	10,009.8	28.0	16.3	89.56	3.8	-141.7	822.1	777.8	44.33	18.546	
10,165.0	10,073.8	10,083.1	10,074.8	28.0	16.4	89.56	3.8	-141.7	822.1	777.7	44.39	18.521	
10,200.0	10,108.8	10,118.1	10,109.8	28.0	16.4	89.56	3.8	-141.7	822.1	777.7	44.42	18.507	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,260.0	10,168.8	10,178.1	10,169.8	28.0	16.5	89.56	3.8	-141.7	822.1	777.6	44.48	18.483	
10,300.0	10,208.8	10,218.1	10,209.8	28.0	16.5	89.56	3.8	-141.7	822.1	777.6	44.52	18.467	
10,355.0	10,263.8	10,273.1	10,264.8	28.1	16.5	89.56	3.8	-141.7	822.1	777.5	44.57	18.446	
10,400.0	10,308.8	10,318.1	10,309.8	28.1	16.5	89.56	3.8	-141.7	822.1	777.5	44.61	18.428	
10,450.0	10,358.8	10,368.1	10,359.8	28.1	16.6	89.56	3.8	-141.7	822.1	777.4	44.66	18.408	
10,500.0	10,408.8	10,418.1	10,409.8	28.1	16.6	89.56	3.8	-141.7	822.1	777.4	44.71	18.388	
10,545.0	10,453.8	10,463.1	10,454.8	28.1	16.6	89.56	3.8	-141.7	822.1	777.3	44.75	18.371	
10,600.0	10,508.8	10,518.1	10,509.8	28.1	16.7	89.56	3.8	-141.7	822.1	777.3	44.80	18.349	
10,640.0	10,548.8	10,558.1	10,549.8	28.2	16.7	89.56	3.8	-141.7	822.1	777.3	44.84	18.333	
10,700.0	10,608.8	10,618.1	10,609.8	28.2	16.7	89.56	3.8	-141.7	822.1	777.2	44.90	18.310	
10,735.0	10,643.8	10,653.1	10,644.8	28.2	16.8	89.56	3.8	-141.7	822.1	777.2	44.93	18.296	
10,800.0	10,708.8	10,718.1	10,709.8	28.2	16.8	89.56	3.8	-141.7	822.1	777.1	45.00	18.270	
10,830.0	10,738.8	10,748.1	10,739.8	28.2	16.8	89.56	3.8	-141.7	822.1	777.1	45.03	18.258	
10,900.0	10,808.8	10,818.1	10,809.8	28.2	16.9	89.56	3.8	-141.7	822.1	777.0	45.09	18.231	
10,925.0	10,833.8	10,843.1	10,834.8	28.3	16.9	89.56	3.8	-141.7	822.1	777.0	45.12	18.221	
11,000.0	10,908.8	10,918.1	10,909.8	28.3	16.9	89.56	3.8	-141.7	822.1	776.9	45.19	18.192	
11,020.0	10,928.8	10,938.1	10,929.8	28.3	16.9	89.56	3.8	-141.7	822.1	776.9	45.21	18.184	
11,100.0	11,008.8	11,018.1	11,009.8	28.3	17.0	89.56	3.8	-141.7	822.1	776.8	45.29	18.152	
11,115.0	11,023.8	11,033.1	11,024.8	28.3	17.0	89.56	3.8	-141.7	822.1	776.8	45.30	18.146	
11,200.0	11,108.8	11,118.1	11,109.8	28.3	17.0	89.56	3.8	-141.7	822.1	776.7	45.38	18.115	
11,210.0	11,118.8	11,128.1	11,119.8	28.3	17.0	89.56	3.8	-141.7	822.1	776.7	45.39	18.114	
11,237.8	11,146.5	11,155.9	11,147.5	28.3	17.1	89.56	3.8	-141.7	822.1	776.7	45.40	18.109	
11,250.0	11,158.8	11,168.1	11,159.8	28.3	17.1	90.08	4.0	-141.7	822.1	776.7	45.40	18.109	
11,275.0	11,183.7	11,193.2	11,184.8	28.4	17.1	90.08	5.3	-141.7	822.1	776.7	45.40	18.107	
11,300.0	11,208.6	11,218.2	11,209.7	28.4	17.1	90.08	7.9	-141.7	822.1	776.7	45.41	18.106	
11,305.0	11,213.5	11,223.2	11,214.7	28.4	17.1	90.08	8.6	-141.7	822.1	776.7	45.41	18.105	
11,325.0	11,233.3	11,243.3	11,234.5	28.4	17.1	90.08	11.8	-141.7	822.1	776.7	45.41	18.104	
11,350.0	11,257.7	11,268.4	11,259.0	28.4	17.1	90.08	17.0	-141.8	822.1	776.7	45.41	18.103	
11,375.0	11,281.9	11,293.4	11,283.2	28.4	17.1	90.08	23.5	-141.8	822.1	776.7	45.42	18.101	
11,400.0	11,305.7	11,318.5	11,307.0	28.4	17.1	90.07	31.2	-141.9	822.1	776.7	45.42	18.099	
11,425.0	11,329.0	11,343.5	11,330.4	28.4	17.1	90.07	40.2	-142.0	822.1	776.7	45.43	18.097	
11,450.0	11,351.9	11,368.6	11,353.3	28.4	17.1	90.07	50.4	-142.1	822.1	776.7	45.43	18.095	
11,475.0	11,374.1	11,393.6	11,375.6	28.4	17.1	90.07	61.8	-142.2	822.1	776.7	45.44	18.093	
11,495.0	11,391.5	11,413.7	11,393.0	28.4	17.1	90.07	71.7	-142.3	822.1	776.7	45.44	18.090	
11,500.0	11,395.8	11,418.7	11,397.3	28.4	17.1	90.07	74.3	-142.3	822.1	776.7	45.45	18.090	
11,525.0	11,416.8	11,443.7	11,418.3	28.4	17.1	90.06	88.0	-142.4	822.1	776.6	45.45	18.087	
11,550.0	11,437.0	11,468.8	11,438.5	28.4	17.1	90.06	102.7	-142.6	822.1	776.6	45.46	18.083	
11,575.0	11,456.4	11,493.8	11,458.0	28.4	17.1	90.06	118.5	-142.7	822.1	776.6	45.47	18.079	
11,590.0	11,467.7	11,508.8	11,469.2	28.4	17.1	90.06	128.5	-142.8	822.1	776.6	45.48	18.076	
11,600.0	11,475.0	11,518.8	11,476.6	28.4	17.1	90.06	135.3	-142.8	822.1	776.6	45.49	18.074	
11,625.0	11,492.7	11,543.9	11,494.2	28.4	17.1	90.05	153.0	-143.0	822.1	776.6	45.50	18.068	
11,650.0	11,509.4	11,568.9	11,511.0	28.4	17.1	90.05	171.6	-143.2	822.1	776.6	45.52	18.061	
11,675.0	11,525.2	11,594.0	11,526.7	28.4	17.1	90.05	191.1	-143.4	822.1	776.6	45.54	18.053	
11,685.0	11,531.2	11,604.0	11,532.7	28.4	17.1	90.05	199.1	-143.4	822.1	776.6	45.55	18.050	
11,700.0	11,539.9	11,619.0	11,541.4	28.4	17.2	90.04	211.4	-143.5	822.1	776.5	45.56	18.045	
11,725.0	11,553.5	11,644.0	11,555.0	28.4	17.2	90.04	232.4	-143.7	822.1	776.5	45.58	18.035	
11,750.0	11,566.0	11,669.1	11,567.5	28.4	17.2	90.04	254.1	-143.9	822.1	776.5	45.61	18.024	
11,775.0	11,577.4	11,694.1	11,578.8	28.4	17.2	90.03	276.4	-144.1	822.1	776.5	45.64	18.012	
11,780.0	11,579.5	11,699.1	11,580.9	28.4	17.2	90.03	280.9	-144.2	822.1	776.5	45.65	18.009	
11,800.0	11,587.6	11,719.1	11,588.9	28.5	17.2	90.03	299.2	-144.3	822.1	776.4	45.68	17.999	
11,825.0	11,596.5	11,744.1	11,597.9	28.5	17.2	90.03	322.6	-144.5	822.1	776.4	45.71	17.984	
11,850.0	11,604.3	11,769.1	11,605.6	28.5	17.3	90.02	346.4	-144.8	822.1	776.4	45.76	17.968	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_3000-r.5 MWD+IFR1_11156-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,875.0	11,610.7	11,794.2	11,612.0	28.5	17.3	90.02	370.6	-145.0	822.1	776.3	45.80	17.950	
11,900.0	11,616.0	11,819.2	11,617.2	28.5	17.3	90.01	395.1	-145.2	822.1	776.3	45.85	17.931	
11,925.0	11,619.9	11,844.2	11,621.0	28.5	17.4	90.01	419.8	-145.4	822.1	776.2	45.90	17.911	
11,950.0	11,622.5	11,869.2	11,623.6	28.6	17.4	90.01	444.6	-145.7	822.1	776.2	45.96	17.889	
11,970.0	11,623.7	11,889.2	11,624.7	28.6	17.4	90.00	464.6	-145.8	822.1	776.1	46.00	17.871	
11,975.0	11,623.8	11,894.2	11,624.9	28.6	17.4	90.00	469.6	-145.9	822.1	776.1	46.01	17.866	
11,987.8	11,624.0	11,906.9	11,625.0	28.6	17.5	90.00	482.4	-146.0	822.1	776.1	46.05	17.854	
12,000.0	11,624.0	11,919.2	11,625.0	28.6	17.5	90.00	494.6	-146.1	822.1	776.0	46.08	17.841	
12,065.0	11,624.0	11,984.2	11,625.0	28.7	17.6	90.00	559.6	-146.7	822.1	775.8	46.28	17.765	
12,100.0	11,624.0	12,019.2	11,625.0	28.7	17.7	90.00	594.6	-147.0	822.1	775.7	46.39	17.722	
12,160.0	11,624.0	12,079.2	11,625.0	28.8	17.8	90.00	654.6	-147.6	822.1	775.5	46.60	17.642	
12,200.0	11,624.0	12,119.2	11,625.0	28.9	17.9	90.00	694.6	-147.9	822.1	775.4	46.75	17.586	
12,255.0	11,624.0	12,174.2	11,625.0	28.9	18.0	90.00	749.6	-148.4	822.1	775.2	46.97	17.503	
12,300.0	11,624.0	12,219.2	11,625.0	29.0	18.1	90.00	794.6	-148.8	822.1	775.0	47.16	17.433	
12,350.0	11,624.0	12,269.2	11,625.0	29.1	18.3	90.00	844.6	-149.3	822.1	774.7	47.38	17.351	
12,400.0	11,624.0	12,319.2	11,625.0	29.2	18.4	90.00	894.6	-149.7	822.1	774.5	47.61	17.266	
12,445.0	11,624.0	12,364.2	11,625.0	29.3	18.6	90.00	939.6	-150.1	822.1	774.3	47.84	17.186	
12,500.0	11,624.0	12,419.2	11,625.0	29.4	18.7	90.00	994.6	-150.6	822.1	774.0	48.12	17.086	
12,540.0	11,624.0	12,459.2	11,625.0	29.5	18.9	90.00	1,034.6	-151.0	822.1	773.8	48.33	17.010	
12,600.0	11,624.0	12,519.2	11,625.0	29.6	19.1	90.00	1,094.6	-151.6	822.1	773.5	48.66	16.895	
12,635.0	11,624.0	12,554.2	11,625.0	29.7	19.2	90.00	1,129.6	-151.9	822.1	773.3	48.87	16.824	
12,700.0	11,624.0	12,619.2	11,625.0	29.8	19.4	90.00	1,194.6	-152.5	822.1	772.9	49.25	16.693	
12,730.0	11,624.0	12,649.2	11,625.0	29.9	19.5	90.00	1,224.6	-152.7	822.1	772.7	49.44	16.630	
12,800.0	11,624.0	12,719.2	11,625.0	30.1	19.8	90.00	1,294.6	-153.4	822.2	772.3	49.88	16.482	
12,825.0	11,624.0	12,744.2	11,625.0	30.2	19.9	90.00	1,319.6	-153.6	822.2	772.1	50.05	16.428	
12,900.0	11,624.0	12,819.2	11,625.0	30.4	20.2	90.00	1,394.6	-154.3	822.2	771.6	50.55	16.265	
12,920.0	11,624.0	12,839.2	11,625.0	30.4	20.3	90.00	1,414.6	-154.5	822.2	771.5	50.69	16.220	
13,000.0	11,624.0	12,919.2	11,625.0	30.7	20.6	90.00	1,494.5	-155.2	822.2	770.9	51.25	16.041	
13,015.0	11,624.0	12,934.2	11,625.0	30.7	20.7	90.00	1,509.5	-155.3	822.2	770.8	51.36	16.006	
13,100.0	11,624.0	13,019.2	11,625.0	31.0	21.1	90.00	1,594.5	-156.1	822.2	770.2	51.99	15.812	
13,110.0	11,624.0	13,029.2	11,625.0	31.0	21.1	90.00	1,604.5	-156.2	822.2	770.1	52.07	15.789	
13,200.0	11,624.0	13,119.2	11,625.0	31.3	21.5	90.00	1,694.5	-157.0	822.2	769.4	52.77	15.580	
13,205.0	11,624.0	13,124.2	11,625.0	31.3	21.6	90.00	1,699.5	-157.0	822.2	769.4	52.81	15.569	
13,300.0	11,624.0	13,219.2	11,625.0	31.6	22.0	90.00	1,794.5	-157.9	822.2	768.6	53.58	15.346	
13,395.0	11,624.0	13,314.2	11,625.0	31.9	22.5	90.00	1,889.5	-158.8	822.2	767.8	54.37	15.122	
13,400.0	11,624.0	13,319.2	11,625.0	32.0	22.5	90.00	1,894.5	-158.8	822.2	767.8	54.41	15.110	
13,490.0	11,624.0	13,409.2	11,625.0	32.3	23.0	90.00	1,984.5	-159.6	822.2	767.0	55.19	14.897	
13,500.0	11,624.0	13,419.2	11,625.0	32.3	23.0	90.00	1,994.5	-159.7	822.2	766.9	55.28	14.873	
13,585.0	11,624.0	13,504.2	11,625.0	32.6	23.5	90.00	2,079.5	-160.5	822.2	766.1	56.04	14.672	
13,600.0	11,624.0	13,519.2	11,625.0	32.7	23.5	90.00	2,094.5	-160.6	822.2	766.0	56.18	14.636	
13,680.0	11,624.0	13,599.2	11,625.0	33.0	24.0	90.00	2,174.5	-161.4	822.2	765.3	56.91	14.447	
13,700.0	11,624.0	13,619.2	11,625.0	33.1	24.1	90.00	2,194.5	-161.5	822.2	765.1	57.10	14.400	
13,775.0	11,624.0	13,694.2	11,625.0	33.4	24.5	90.00	2,269.5	-162.2	822.2	764.4	57.80	14.224	
13,800.0	11,624.0	13,719.2	11,625.0	33.5	24.6	90.00	2,294.5	-162.4	822.2	764.2	58.04	14.166	
13,870.0	11,624.0	13,789.2	11,625.0	33.8	25.0	90.00	2,364.5	-163.1	822.2	763.5	58.72	14.002	
13,900.0	11,624.0	13,819.2	11,625.0	33.9	25.2	90.00	2,394.5	-163.4	822.2	763.2	59.01	13.933	
13,965.0	11,624.0	13,884.2	11,625.0	34.2	25.5	90.00	2,459.5	-163.9	822.2	762.5	59.66	13.782	
14,000.0	11,624.0	13,919.2	11,625.0	34.3	25.7	90.00	2,494.5	-164.3	822.2	762.2	60.00	13.702	
14,060.0	11,624.0	13,979.2	11,625.0	34.6	26.1	90.00	2,554.5	-164.8	822.2	761.6	60.61	13.565	
14,100.0	11,624.0	14,019.2	11,625.0	34.8	26.3	90.00	2,594.5	-165.2	822.2	761.2	61.02	13.475	
14,155.0	11,624.0	14,074.2	11,625.0	35.0	26.6	90.00	2,649.5	-165.7	822.2	760.6	61.59	13.351	
14,200.0	11,624.0	14,119.2	11,625.0	35.2	26.9	90.00	2,694.5	-166.1	822.2	760.2	62.05	13.250	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,250.0	11,624.0	14,169.2	11,625.0	35.5	27.2	90.00	2,744.5	-166.5	822.2	759.6	62.58	13.139	
14,300.0	11,624.0	14,219.2	11,625.0	35.7	27.5	90.00	2,794.5	-167.0	822.2	759.1	63.11	13.029	
14,345.0	11,624.0	14,264.2	11,625.0	35.9	27.8	90.00	2,839.5	-167.4	822.2	758.6	63.59	12.930	
14,400.0	11,624.0	14,319.2	11,625.0	36.2	28.1	90.00	2,894.5	-167.9	822.2	758.0	64.18	12.811	
14,440.0	11,624.0	14,359.2	11,625.0	36.4	28.3	90.00	2,934.5	-168.3	822.2	757.6	64.61	12.725	
14,500.0	11,624.0	14,419.2	11,625.0	36.6	28.7	90.00	2,994.5	-168.8	822.2	757.0	65.27	12.597	
14,535.0	11,624.0	14,454.2	11,625.0	36.8	28.9	90.00	3,029.5	-169.1	822.2	756.6	65.66	12.523	
14,600.0	11,624.0	14,519.2	11,625.0	37.1	29.3	90.00	3,094.5	-169.7	822.2	755.9	66.38	12.388	
14,630.0	11,624.0	14,549.2	11,625.0	37.3	29.5	90.00	3,124.5	-170.0	822.2	755.5	66.71	12.325	
14,700.0	11,624.0	14,619.2	11,625.0	37.6	30.0	90.00	3,194.5	-170.6	822.2	754.7	67.50	12.182	
14,725.0	11,624.0	14,644.2	11,625.0	37.8	30.1	90.00	3,219.5	-170.8	822.2	754.5	67.78	12.131	
14,800.0	11,624.0	14,719.2	11,625.0	38.1	30.6	90.00	3,294.5	-171.5	822.2	753.6	68.64	11.980	
14,820.0	11,624.0	14,739.2	11,625.0	38.2	30.7	90.00	3,314.5	-171.7	822.2	753.4	68.87	11.940	
14,900.0	11,624.0	14,819.2	11,625.0	38.7	31.2	90.00	3,394.5	-172.4	822.2	752.5	69.79	11.782	
14,915.0	11,624.0	14,834.2	11,625.0	38.7	31.3	90.00	3,409.5	-172.6	822.2	752.3	69.96	11.753	
15,000.0	11,624.0	14,919.2	11,625.0	39.2	31.9	90.00	3,494.5	-173.3	822.2	751.3	70.95	11.589	
15,010.0	11,624.0	14,929.2	11,625.0	39.2	31.9	90.00	3,504.5	-173.4	822.2	751.2	71.07	11.569	
15,100.0	11,624.0	15,019.2	11,625.0	39.7	32.5	90.00	3,594.5	-174.2	822.3	750.1	72.13	11.399	
15,105.0	11,624.0	15,024.2	11,625.0	39.7	32.6	90.00	3,599.5	-174.3	822.3	750.1	72.19	11.390	
15,200.0	11,624.0	15,119.2	11,625.0	40.2	33.2	90.00	3,694.5	-175.2	822.3	748.9	73.32	11.214	
15,295.0	11,624.0	15,214.2	11,625.0	40.8	33.8	90.00	3,789.5	-176.0	822.3	747.8	74.47	11.042	
15,300.0	11,624.0	15,219.2	11,625.0	40.8	33.8	90.00	3,794.5	-176.1	822.3	747.7	74.53	11.033	
15,390.0	11,624.0	15,309.2	11,625.0	41.3	34.4	90.00	3,884.5	-176.9	822.3	746.6	75.62	10.874	
15,400.0	11,624.0	15,319.2	11,625.0	41.3	34.5	90.00	3,894.5	-177.0	822.3	746.5	75.74	10.856	
15,485.0	11,624.0	15,404.2	11,625.0	41.8	35.1	90.00	3,979.4	-177.7	822.3	745.5	76.78	10.709	
15,500.0	11,624.0	15,419.2	11,625.0	41.9	35.2	90.00	3,994.4	-177.9	822.3	745.3	76.97	10.684	
15,580.0	11,624.0	15,499.2	11,625.0	42.4	35.7	90.00	4,074.4	-178.6	822.3	744.3	77.95	10.548	
15,600.0	11,624.0	15,519.2	11,625.0	42.5	35.8	90.00	4,094.4	-178.8	822.3	744.1	78.20	10.515	
15,675.0	11,624.0	15,594.2	11,625.0	42.9	36.3	90.00	4,169.4	-179.5	822.3	743.1	79.13	10.391	
15,700.0	11,624.0	15,619.2	11,625.0	43.0	36.5	90.00	4,194.4	-179.7	822.3	742.8	79.45	10.350	
15,770.0	11,624.0	15,689.2	11,625.0	43.5	37.0	90.00	4,264.4	-180.3	822.3	742.0	80.32	10.237	
15,800.0	11,624.0	15,719.2	11,625.0	43.6	37.2	90.00	4,294.4	-180.6	822.3	741.6	80.70	10.189	
15,865.0	11,624.0	15,784.2	11,625.0	44.0	37.6	90.00	4,359.4	-181.2	822.3	740.8	81.52	10.087	
15,900.0	11,624.0	15,819.2	11,625.0	44.2	37.9	90.00	4,394.4	-181.5	822.3	740.3	81.96	10.032	
15,960.0	11,624.0	15,879.2	11,625.0	44.6	38.3	90.00	4,454.4	-182.0	822.3	739.6	82.73	9.940	
16,000.0	11,624.0	15,919.2	11,625.0	44.8	38.5	90.00	4,494.4	-182.4	822.3	739.1	83.24	9.879	
16,055.0	11,624.0	15,974.2	11,625.0	45.1	38.9	90.00	4,549.4	-182.9	822.3	738.4	83.94	9.796	
16,100.0	11,624.0	16,019.2	11,625.0	45.4	39.2	90.00	4,594.4	-183.3	822.3	737.8	84.52	9.729	
16,150.0	11,624.0	16,069.2	11,625.0	45.7	39.6	90.00	4,644.4	-183.8	822.3	737.1	85.16	9.656	
16,200.0	11,624.0	16,119.2	11,625.0	46.0	39.9	90.00	4,694.4	-184.2	822.3	736.5	85.81	9.583	
16,245.0	11,624.0	16,164.2	11,625.0	46.3	40.2	90.00	4,739.4	-184.6	822.3	735.9	86.39	9.519	
16,300.0	11,624.0	16,219.2	11,625.0	46.6	40.6	90.00	4,794.4	-185.1	822.3	735.2	87.10	9.441	
16,340.0	11,624.0	16,259.2	11,625.0	46.8	40.9	90.00	4,834.4	-185.5	822.3	734.7	87.62	9.385	
16,400.0	11,624.0	16,319.2	11,625.0	47.2	41.3	90.00	4,894.4	-186.0	822.3	733.9	88.40	9.302	
16,435.0	11,624.0	16,354.2	11,625.0	47.4	41.6	90.00	4,929.4	-186.4	822.3	733.4	88.86	9.254	
16,500.0	11,624.0	16,419.2	11,625.0	47.8	42.0	90.00	4,994.4	-187.0	822.3	732.6	89.71	9.166	
16,530.0	11,624.0	16,449.2	11,625.0	48.0	42.2	90.00	5,024.4	-187.2	822.3	732.2	90.11	9.126	
16,600.0	11,624.0	16,519.2	11,625.0	48.4	42.7	90.00	5,094.4	-187.9	822.3	731.3	91.03	9.034	
16,625.0	11,624.0	16,544.2	11,625.0	48.6	42.9	90.00	5,119.4	-188.1	822.3	731.0	91.36	9.001	
16,700.0	11,624.0	16,619.2	11,625.0	49.1	43.4	90.00	5,194.4	-188.8	822.3	730.0	92.35	8.904	
16,720.0	11,624.0	16,639.2	11,625.0	49.2	43.5	90.00	5,214.4	-188.9	822.3	729.7	92.62	8.879	
16,800.0	11,624.0	16,719.2	11,625.0	49.7	44.1	90.00	5,294.4	-189.7	822.3	728.6	93.68	8.778	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_3000-r.5 MWD+IFR1_11156-r.5 MWD+IFR1+MS								Rule Assigned:					Offset Well Error: 3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,815.0	11,624.0	16,734.2	11,625.0	49.8	44.2	90.00	5,309.4	-189.8	822.3	728.4	93.88	8.759	
16,900.0	11,624.0	16,819.2	11,625.0	50.3	44.8	90.00	5,394.4	-190.6	822.3	727.3	95.01	8.655	
16,910.0	11,624.0	16,829.2	11,625.0	50.4	44.9	90.00	5,404.4	-190.7	822.3	727.2	95.15	8.643	
17,000.0	11,624.0	16,919.2	11,625.0	50.9	45.5	90.00	5,494.4	-191.5	822.3	726.0	96.35	8.534	
17,005.0	11,624.0	16,924.2	11,625.0	51.0	45.6	90.00	5,499.4	-191.5	822.3	725.9	96.42	8.528	
17,100.0	11,624.0	17,019.2	11,625.0	51.6	46.2	90.00	5,594.4	-192.4	822.3	724.6	97.70	8.417	
17,195.0	11,624.0	17,114.2	11,625.0	52.2	46.9	90.00	5,689.4	-193.3	822.3	723.4	98.98	8.308	
17,200.0	11,624.0	17,119.2	11,625.0	52.2	46.9	90.00	5,694.4	-193.3	822.3	723.3	99.05	8.302	
17,290.0	11,624.0	17,209.2	11,625.0	52.8	47.6	90.00	5,784.4	-194.1	822.3	722.1	100.27	8.201	
17,300.0	11,624.0	17,219.2	11,625.0	52.9	47.7	90.00	5,794.4	-194.2	822.3	721.9	100.41	8.190	
17,385.0	11,624.0	17,304.2	11,625.0	53.4	48.3	90.00	5,879.4	-195.0	822.4	720.8	101.56	8.097	
17,400.0	11,624.0	17,319.2	11,625.0	53.5	48.4	90.00	5,894.4	-195.1	822.4	720.6	101.77	8.081	
17,480.0	11,624.0	17,399.2	11,625.0	54.0	48.9	90.00	5,974.4	-195.8	822.4	719.5	102.86	7.995	
17,500.0	11,624.0	17,419.2	11,625.0	54.1	49.1	90.00	5,994.4	-196.0	822.4	719.2	103.13	7.974	
17,575.0	11,624.0	17,494.2	11,625.0	54.6	49.6	90.00	6,069.4	-196.7	822.4	718.2	104.16	7.895	
17,600.0	11,624.0	17,519.2	11,625.0	54.8	49.8	90.00	6,094.4	-196.9	822.4	717.9	104.50	7.869	
17,670.0	11,624.0	17,589.2	11,625.0	55.3	50.3	90.00	6,164.4	-197.6	822.4	716.9	105.46	7.798	
17,700.0	11,624.0	17,619.2	11,625.0	55.5	50.5	90.00	6,194.4	-197.8	822.4	716.5	105.87	7.767	
17,765.0	11,624.0	17,684.2	11,625.0	55.9	51.0	90.00	6,259.4	-198.4	822.4	715.6	106.77	7.702	
17,800.0	11,624.0	17,719.2	11,625.0	56.1	51.2	90.00	6,294.4	-198.7	822.4	715.1	107.25	7.668	
17,860.0	11,624.0	17,779.2	11,625.0	56.5	51.7	90.00	6,354.3	-199.3	822.4	714.3	108.08	7.609	
17,900.0	11,624.0	17,819.2	11,625.0	56.8	52.0	90.00	6,394.3	-199.7	822.4	713.7	108.63	7.570	
17,955.0	11,624.0	17,874.2	11,625.0	57.1	52.4	90.00	6,449.3	-200.2	822.4	713.0	109.39	7.518	
18,000.0	11,624.0	17,919.2	11,625.0	57.4	52.7	90.00	6,494.3	-200.6	822.4	712.4	110.02	7.475	
18,050.0	11,624.0	17,969.2	11,625.0	57.8	53.0	90.00	6,544.3	-201.0	822.4	711.7	110.71	7.428	
18,100.0	11,624.0	18,019.2	11,625.0	58.1	53.4	90.00	6,594.3	-201.5	822.4	711.0	111.41	7.382	
18,145.0	11,624.0	18,064.2	11,625.0	58.4	53.7	90.00	6,639.3	-201.9	822.4	710.4	112.03	7.341	
18,200.0	11,624.0	18,119.2	11,625.0	58.8	54.1	90.00	6,694.3	-202.4	822.4	709.6	112.80	7.291	
18,240.0	11,624.0	18,159.2	11,625.0	59.0	54.4	90.00	6,734.3	-202.7	822.4	709.0	113.36	7.255	
18,300.0	11,624.0	18,219.2	11,625.0	59.4	54.9	90.00	6,794.3	-203.3	822.4	708.2	114.19	7.202	
18,335.0	11,624.0	18,254.2	11,625.0	59.7	55.1	90.00	6,829.3	-203.6	822.4	707.7	114.68	7.171	
18,400.0	11,624.0	18,319.2	11,625.0	60.1	55.6	90.00	6,894.3	-204.2	822.4	706.8	115.59	7.115	
18,430.0	11,624.0	18,349.2	11,625.0	60.3	55.8	90.00	6,924.3	-204.5	822.4	706.4	116.01	7.089	
18,500.0	11,624.0	18,419.2	11,625.0	60.8	56.3	90.00	6,994.3	-205.1	822.4	705.4	116.99	7.029	
18,525.0	11,624.0	18,444.2	11,625.0	61.0	56.5	90.00	7,019.3	-205.3	822.4	705.1	117.35	7.008	
18,600.0	11,624.0	18,519.2	11,625.0	61.5	57.0	90.00	7,094.3	-206.0	822.4	704.0	118.40	6.946	
18,620.0	11,624.0	18,539.2	11,625.0	61.6	57.2	90.00	7,114.3	-206.2	822.4	703.7	118.68	6.930	
18,700.0	11,624.0	18,619.2	11,625.0	62.1	57.8	90.00	7,194.3	-206.9	822.4	702.6	119.81	6.864	
18,715.0	11,624.0	18,634.2	11,625.0	62.2	57.9	90.00	7,209.3	-207.1	822.4	702.4	120.02	6.852	
18,800.0	11,624.0	18,719.2	11,625.0	62.8	58.5	90.00	7,294.3	-207.8	822.4	701.2	121.22	6.785	
18,810.0	11,624.0	18,729.2	11,625.0	62.9	58.6	90.00	7,304.3	-207.9	822.4	701.1	121.36	6.777	
18,900.0	11,624.0	18,819.2	11,625.0	63.5	59.2	90.00	7,394.3	-208.7	822.4	699.8	122.63	6.706	
18,905.0	11,624.0	18,824.2	11,625.0	63.5	59.3	90.00	7,399.3	-208.8	822.4	699.7	122.70	6.703	
19,000.0	11,624.0	18,919.2	11,625.0	64.2	60.0	90.00	7,494.3	-209.6	822.4	698.4	124.05	6.630	
19,095.0	11,624.0	19,014.2	11,625.0	64.8	60.7	90.00	7,589.3	-210.5	822.4	697.0	125.39	6.559	
19,100.0	11,624.0	19,019.2	11,625.0	64.9	60.7	90.00	7,594.3	-210.5	822.4	697.0	125.47	6.555	
19,190.0	11,624.0	19,109.2	11,625.0	65.5	61.4	90.00	7,684.3	-211.4	822.4	695.7	126.74	6.489	
19,200.0	11,624.0	19,119.2	11,625.0	65.6	61.4	90.00	7,694.3	-211.5	822.4	695.5	126.89	6.482	
19,285.0	11,624.0	19,204.2	11,625.0	66.1	62.1	90.00	7,779.3	-212.2	822.4	694.3	128.10	6.420	
19,300.0	11,624.0	19,219.2	11,625.0	66.2	62.2	90.00	7,794.3	-212.4	822.4	694.1	128.31	6.410	
19,380.0	11,624.0	19,299.2	11,625.0	66.8	62.8	90.00	7,874.3	-213.1	822.4	693.0	129.45	6.353	
19,400.0	11,624.0	19,319.2	11,625.0	66.9	62.9	90.00	7,894.3	-213.3	822.4	692.7	129.74	6.339	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK_3000-r.5 MWD+IFR1_11156-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,475.0	11,624.0	19,394.2	11,625.0	67.5	63.4	90.00	7,969.3	-214.0	822.4	691.6	130.81	6.287	
19,500.0	11,624.0	19,419.2	11,625.0	67.6	63.6	90.00	7,994.3	-214.2	822.4	691.3	131.16	6.270	
19,570.0	11,624.0	19,489.2	11,625.0	68.1	64.1	90.00	8,064.3	-214.8	822.4	690.3	132.17	6.223	
19,600.0	11,624.0	19,519.2	11,625.0	68.3	64.4	90.00	8,094.3	-215.1	822.4	689.9	132.60	6.203	
19,665.0	11,624.0	19,584.2	11,625.0	68.8	64.8	90.00	8,159.3	-215.7	822.5	688.9	133.53	6.159	
19,700.0	11,624.0	19,619.2	11,625.0	69.0	65.1	90.00	8,194.3	-216.0	822.5	688.4	134.03	6.136	
19,760.0	11,624.0	19,679.2	11,625.0	69.4	65.5	90.00	8,254.3	-216.5	822.5	687.6	134.89	6.097	
19,800.0	11,624.0	19,719.2	11,625.0	69.7	65.8	90.00	8,294.3	-216.9	822.5	687.0	135.46	6.071	
19,855.0	11,624.0	19,774.2	11,625.0	70.1	66.2	90.00	8,349.3	-217.4	822.5	686.2	136.25	6.036	
19,900.0	11,624.0	19,819.2	11,625.0	70.4	66.6	90.00	8,394.3	-217.8	822.5	685.6	136.90	6.008	
19,950.0	11,624.0	19,869.2	11,625.0	70.8	67.0	90.00	8,444.3	-218.3	822.5	684.8	137.62	5.976	
20,000.0	11,624.0	19,919.2	11,625.0	71.1	67.3	90.00	8,494.3	-218.7	822.5	684.1	138.34	5.945	
20,045.0	11,624.0	19,964.2	11,625.0	71.4	67.7	90.00	8,539.3	-219.1	822.5	683.5	138.98	5.918	
20,100.0	11,624.0	20,019.2	11,625.0	71.8	68.1	90.00	8,594.3	-219.6	822.5	682.7	139.78	5.884	
20,140.0	11,624.0	20,059.2	11,625.0	72.1	68.4	90.00	8,634.3	-220.0	822.5	682.1	140.35	5.860	
20,200.0	11,624.0	20,119.2	11,625.0	72.5	68.8	90.00	8,694.3	-220.5	822.5	681.3	141.22	5.824	
20,235.0	11,624.0	20,154.2	11,625.0	72.8	69.1	90.00	8,729.3	-220.8	822.5	680.8	141.72	5.803	
20,300.0	11,624.0	20,219.2	11,625.0	73.2	69.5	90.00	8,794.2	-221.4	822.5	679.8	142.66	5.765	
20,330.0	11,624.0	20,249.2	11,625.0	73.4	69.8	90.00	8,824.2	-221.7	822.5	679.4	143.10	5.748	
20,400.0	11,624.0	20,319.2	11,625.0	73.9	70.3	90.00	8,894.2	-222.3	822.5	678.4	144.11	5.707	
20,425.0	11,624.0	20,344.2	11,625.0	74.1	70.5	90.00	8,919.2	-222.6	822.5	678.0	144.47	5.693	
20,500.0	11,624.0	20,419.2	11,625.0	74.6	71.0	90.00	8,994.2	-223.3	822.5	676.9	145.56	5.651	
20,520.0	11,624.0	20,439.2	11,625.0	74.8	71.2	90.00	9,014.2	-223.4	822.5	676.6	145.84	5.639	
20,600.0	11,624.0	20,519.2	11,625.0	75.3	71.8	90.00	9,094.2	-224.2	822.5	675.5	147.00	5.595	
20,615.0	11,624.0	20,534.2	11,625.0	75.4	71.9	90.00	9,109.2	-224.3	822.5	675.3	147.22	5.587	
20,700.0	11,624.0	20,619.2	11,625.0	76.0	72.5	90.00	9,194.2	-225.1	822.5	674.0	148.45	5.540	
20,710.0	11,624.0	20,629.2	11,625.0	76.1	72.6	90.00	9,204.2	-225.2	822.5	673.9	148.60	5.535	
20,800.0	11,624.0	20,719.2	11,625.0	76.7	73.2	90.00	9,294.2	-226.0	822.5	672.6	149.91	5.487	
20,805.0	11,624.0	20,724.2	11,625.0	76.8	73.3	90.00	9,299.2	-226.0	822.5	672.5	149.98	5.484	
20,900.0	11,624.0	20,819.2	11,625.0	77.5	74.0	90.00	9,394.2	-226.9	822.5	671.1	151.36	5.434	
20,995.0	11,624.0	20,914.2	11,625.0	78.1	74.7	90.00	9,489.2	-227.7	822.5	669.8	152.74	5.385	
21,000.0	11,624.0	20,919.2	11,625.0	78.2	74.7	90.00	9,494.2	-227.8	822.5	669.7	152.81	5.382	
21,090.0	11,624.0	21,009.2	11,625.0	78.8	75.4	90.00	9,584.2	-228.6	822.5	668.4	154.12	5.337	
21,100.0	11,624.0	21,019.2	11,625.0	78.9	75.5	90.00	9,594.2	-228.7	822.5	668.2	154.27	5.332	
21,185.0	11,624.0	21,104.2	11,625.0	79.5	76.1	90.00	9,679.2	-229.5	822.5	667.0	155.51	5.289	
21,200.0	11,624.0	21,119.2	11,625.0	79.6	76.2	90.00	9,694.2	-229.6	822.5	666.8	155.73	5.282	
21,280.0	11,624.0	21,199.2	11,625.0	80.2	76.8	90.00	9,774.2	-230.3	822.5	665.6	156.89	5.243	
21,300.0	11,624.0	21,219.2	11,625.0	80.3	77.0	90.00	9,794.2	-230.5	822.5	665.3	157.19	5.233	
21,375.0	11,624.0	21,294.2	11,625.0	80.8	77.5	90.00	9,869.2	-231.2	822.5	664.2	158.28	5.197	
21,400.0	11,624.0	21,319.2	11,625.0	81.0	77.7	90.00	9,894.2	-231.4	822.5	663.9	158.65	5.185	
21,470.0	11,624.0	21,389.2	11,625.0	81.5	78.2	90.00	9,964.2	-232.1	822.5	662.9	159.67	5.151	
21,500.0	11,624.0	21,419.2	11,625.0	81.7	78.5	90.00	9,994.2	-232.3	822.5	662.4	160.11	5.137	
21,565.0	11,624.0	21,484.2	11,625.0	82.2	78.9	90.00	10,059.2	-232.9	822.5	661.5	161.06	5.107	
21,600.0	11,624.0	21,519.2	11,625.0	82.4	79.2	90.00	10,094.2	-233.2	822.5	661.0	161.57	5.091	
21,660.0	11,624.0	21,579.2	11,625.0	82.9	79.7	90.00	10,154.2	-233.8	822.5	660.1	162.45	5.063	
21,700.0	11,624.0	21,619.2	11,625.0	83.2	79.9	90.00	10,194.2	-234.1	822.5	659.5	163.03	5.045	
21,755.0	11,624.0	21,674.2	11,625.0	83.6	80.4	90.00	10,249.2	-234.6	822.5	658.7	163.84	5.020	
21,800.0	11,624.0	21,719.2	11,625.0	83.9	80.7	90.00	10,294.2	-235.1	822.5	658.0	164.50	5.000	
21,850.0	11,624.0	21,769.2	11,625.0	84.2	81.1	90.00	10,344.2	-235.5	822.5	657.3	165.23	4.978	
21,900.0	11,624.0	21,819.2	11,625.0	84.6	81.4	90.00	10,394.2	-236.0	822.5	656.6	165.96	4.956	
21,945.0	11,624.0	21,864.2	11,625.0	84.9	81.8	90.00	10,439.2	-236.4	822.5	655.9	166.62	4.937	
22,000.0	11,624.0	21,919.2	11,625.0	85.3	82.2	90.00	10,494.2	-236.9	822.6	655.1	167.43	4.913	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 3000-r.5 MWD+IFR1, 11156-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
22,003.1	11,624.0	21,922.3	11,625.0	85.3	82.2	90.00	10,497.3	-236.9	822.6	655.1	167.48	4.911		
22,040.0	11,624.0	21,956.2	11,625.0	85.6	82.5	90.00	10,531.2	-237.2	822.6	654.6	167.98	4.897 SF		
22,049.9	11,624.0	21,956.2	11,625.0	85.7	82.5	90.00	10,531.2	-237.2	822.7	654.7	167.98	4.897		
22,050.7	11,624.0	21,956.2	11,625.0	85.7	82.5	90.00	10,531.2	-237.2	822.7	654.7	167.98	4.897		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.53	0.7	89.8	89.9					
95.0	95.0	95.0	95.0	3.0	3.0	89.53	0.7	89.8	89.9	83.8	6.03	14.912		
100.0	100.0	100.0	100.0	3.0	3.0	89.53	0.7	89.8	89.9	83.8	6.03	14.904		
190.0	190.0	190.0	190.0	3.1	3.1	89.53	0.7	89.8	89.9	83.7	6.15	14.605		
200.0	200.0	200.0	200.0	3.1	3.1	89.53	0.7	89.8	89.9	83.7	6.17	14.559		
285.0	285.0	285.0	285.0	3.2	3.2	89.53	0.7	89.8	89.9	83.5	6.31	14.238		
300.0	300.0	300.0	300.0	3.2	3.2	89.53	0.7	89.8	89.9	83.5	6.34	14.174		
380.0	380.0	380.0	380.0	3.3	3.3	89.53	0.7	89.8	89.9	83.4	6.49	13.849		
400.0	400.0	400.0	400.0	3.3	3.3	89.53	0.7	89.8	89.9	83.3	6.53	13.762		
475.0	475.0	475.0	475.0	3.4	3.4	89.53	0.7	89.8	89.9	83.2	6.68	13.443		
500.0	500.0	500.0	500.0	3.4	3.4	89.53	0.7	89.8	89.9	83.1	6.74	13.332		
570.0	570.0	570.0	570.0	3.5	3.5	89.53	0.7	89.8	89.9	83.0	6.90	13.027		
600.0	600.0	600.0	600.0	3.5	3.5	89.53	0.7	89.8	89.9	82.9	6.97	12.893		
665.0	665.0	665.0	665.0	3.6	3.6	89.53	0.7	89.8	89.9	82.7	7.13	12.607		
700.0	700.0	700.0	700.0	3.7	3.7	89.53	0.7	89.8	89.9	82.6	7.22	12.452		
760.0	760.0	760.0	760.0	3.8	3.8	89.53	0.7	89.8	89.9	82.5	7.37	12.191		
800.0	800.0	800.0	800.0	3.8	3.8	89.53	0.7	89.8	89.9	82.4	7.48	12.016		
855.0	855.0	855.0	855.0	3.9	3.9	89.53	0.7	89.8	89.9	82.2	7.63	11.781		
900.0	900.0	900.0	900.0	4.0	4.0	89.53	0.7	89.8	89.9	82.1	7.75	11.589		
950.0	950.0	950.0	950.0	4.1	4.1	89.53	0.7	89.8	89.9	82.0	7.90	11.380		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.53	0.7	89.8	89.9	81.8	8.04	11.174		
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.53	0.7	89.8	89.9	81.7	8.17	10.992		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.53	0.7	89.8	89.9	81.5	8.34	10.773		
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.53	0.7	89.8	89.9	81.4	8.46	10.617		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.53	0.7	89.8	89.9	81.2	8.65	10.388		
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.53	0.7	89.8	89.9	81.1	8.76	10.258		
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.53	0.7	89.8	89.9	80.9	8.97	10.020		
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.53	0.7	89.8	89.9	80.8	9.06	9.913		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.53	0.7	89.8	89.9	80.6	9.29	9.668		
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.53	0.7	89.8	89.9	80.5	9.38	9.583		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.53	0.7	89.8	89.9	80.2	9.63	9.334		
1,520.0	1,520.0	1,520.0	1,520.0	5.1	5.1	89.53	0.7	89.8	89.9	80.2	9.69	9.269		
1,600.0	1,600.0	1,600.0	1,600.0	5.3	5.3	89.53	0.7	89.8	89.9	79.9	9.97	9.016		
1,615.0	1,615.0	1,615.0	1,615.0	5.3	5.3	89.53	0.7	89.8	89.9	79.8	10.02	8.969		
1,700.0	1,700.0	1,700.0	1,700.0	5.5	5.5	89.53	0.7	89.8	89.9	79.5	10.31	8.713		
1,710.0	1,710.0	1,710.0	1,710.0	5.5	5.5	89.53	0.7	89.8	89.9	79.5	10.35	8.684		
1,800.0	1,800.0	1,800.0	1,800.0	5.7	5.7	89.53	0.7	89.8	89.9	79.2	10.66	8.427		
1,805.0	1,805.0	1,805.0	1,805.0	5.7	5.7	89.53	0.7	89.8	89.9	79.2	10.68	8.413		
1,900.0	1,900.0	1,900.0	1,900.0	5.9	5.9	89.53	0.7	89.8	89.9	78.8	11.02	8.155		
1,995.0	1,995.0	1,995.0	1,995.0	6.1	6.1	89.53	0.7	89.8	89.9	78.5	11.36	7.910		
2,000.0	2,000.0	2,000.0	2,000.0	6.1	6.1	89.53	0.7	89.8	89.9	78.5	11.38	7.897 CC, ES		
2,090.0	2,090.0	2,087.2	2,087.2	6.2	6.2	179.67	0.8	91.2	92.6	80.9	11.76	7.878		
2,100.0	2,100.0	2,096.8	2,096.8	6.2	6.2	179.66	0.8	91.5	93.3	81.5	11.80	7.905		
2,185.0	2,184.9	2,178.7	2,178.5	6.3	6.3	179.62	0.9	95.4	101.6	89.4	12.16	8.353		
2,200.0	2,199.8	2,193.0	2,192.9	6.3	6.3	179.61	1.0	96.3	103.6	91.3	12.22	8.472		
2,280.0	2,279.6	2,269.8	2,269.4	6.4	6.4	179.55	1.2	102.5	116.6	104.1	12.48	9.340		
2,300.0	2,299.5	2,289.4	2,289.0	6.5	6.4	179.54	1.2	104.2	120.3	107.8	12.55	9.589		
2,375.0	2,373.9	2,362.9	2,362.1	6.6	6.5	179.50	1.5	110.6	135.6	122.7	12.87	10.541		
2,400.0	2,398.7	2,387.2	2,386.4	6.6	6.5	179.49	1.5	112.7	141.1	128.2	12.97	10.878		
2,470.0	2,467.9	2,455.3	2,454.2	6.8	6.6	179.47	1.7	118.6	157.7	144.4	13.30	11.858		
2,500.0	2,497.5	2,484.3	2,483.1	6.9	6.6	179.46	1.8	121.2	165.3	151.9	13.44	12.301		
2,565.0	2,561.3	2,546.9	2,545.4	7.1	6.7	179.45	2.0	126.6	182.8	169.1	13.72	13.331		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,575.0	2,571.1	2,556.5	2,555.0	7.1	6.7	179.45	2.0	127.4	185.7	171.9	13.76	13.494	
2,600.0	2,595.6	2,580.4	2,578.8	7.1	6.8	179.45	2.1	129.5	192.8	178.9	13.85	13.915	
2,660.0	2,654.4	2,638.0	2,636.2	7.3	6.9	179.45	2.3	134.5	209.8	195.7	14.13	14.848	
2,700.0	2,693.6	2,676.3	2,674.4	7.4	7.0	179.45	2.4	137.9	221.2	206.8	14.32	15.448	
2,755.0	2,747.5	2,729.0	2,726.9	7.5	7.1	179.44	2.6	142.5	236.8	222.2	14.59	16.231	
2,800.0	2,791.6	2,772.2	2,769.9	7.6	7.2	179.44	2.7	146.2	249.6	234.8	14.81	16.847	
2,850.0	2,840.6	2,820.1	2,817.6	7.8	7.3	179.44	2.9	150.4	263.8	248.7	15.07	17.497	
2,900.0	2,889.6	2,868.1	2,865.4	7.9	7.5	179.44	3.0	154.6	278.0	262.6	15.34	18.121	
2,945.0	2,933.7	2,911.2	2,908.4	8.1	7.6	179.44	3.1	158.3	290.7	275.2	15.59	18.654	
3,000.0	2,987.6	2,964.0	2,960.9	8.2	7.7	179.44	3.3	162.9	306.4	290.5	15.89	19.278	
3,040.0	3,026.8	3,002.3	2,999.1	8.4	7.8	179.44	3.4	166.3	317.7	301.6	16.12	19.709	
3,100.0	3,085.6	3,059.8	3,056.4	8.6	8.0	179.44	3.6	171.3	334.8	318.3	16.47	20.327	
3,135.0	3,119.9	3,093.4	3,089.9	8.7	8.1	179.44	3.7	174.2	344.7	328.0	16.68	20.670	
3,200.0	3,183.6	3,155.7	3,152.0	8.9	8.2	179.44	3.9	179.6	363.2	346.1	17.07	21.279	
3,230.0	3,213.0	3,184.5	3,180.6	9.0	8.3	179.44	4.0	182.1	371.7	354.4	17.25	21.546	
3,300.0	3,281.6	3,251.6	3,247.5	9.3	8.5	179.44	4.2	188.0	391.6	373.9	17.68	22.142	
3,325.0	3,306.1	3,275.6	3,271.4	9.3	8.6	179.44	4.2	190.1	398.7	380.8	17.84	22.344	
3,400.0	3,379.6	3,347.5	3,343.0	9.6	8.8	179.44	4.5	196.3	420.0	401.6	18.32	22.925	
3,420.0	3,399.2	3,366.7	3,362.1	9.7	8.9	179.44	4.5	198.0	425.6	407.2	18.45	23.072	
3,500.0	3,477.6	3,443.4	3,438.5	10.0	9.1	179.44	4.8	204.7	448.4	429.4	18.97	23.636	
3,515.0	3,492.3	3,457.8	3,452.8	10.0	9.1	179.44	4.8	205.9	452.6	433.5	19.07	23.736	
3,600.0	3,575.6	3,539.3	3,534.0	10.4	9.4	179.44	5.1	213.0	476.8	457.1	19.63	24.282	
3,610.0	3,585.4	3,548.8	3,543.6	10.4	9.4	179.44	5.1	213.9	479.6	459.9	19.70	24.343	
3,700.0	3,673.6	3,635.1	3,629.5	10.7	9.7	179.44	5.3	221.4	505.2	484.8	20.30	24.879	
3,705.0	3,678.5	3,639.9	3,634.3	10.8	9.7	179.44	5.4	221.8	506.6	486.2	20.34	24.908	
3,800.0	3,771.6	3,733.5	3,727.5	11.1	10.0	179.44	5.6	229.8	533.4	512.4	20.99	25.416	
3,895.0	3,864.6	3,829.4	3,823.1	11.5	10.3	179.44	5.9	237.4	559.6	537.9	21.68	25.812	
3,900.0	3,869.5	3,834.4	3,828.2	11.5	10.3	179.44	5.9	237.7	561.0	539.3	21.72	25.831	
3,990.0	3,957.7	3,925.7	3,919.2	11.9	10.6	179.44	6.1	244.1	585.0	562.6	22.38	26.145	
4,000.0	3,967.5	3,935.9	3,929.4	11.9	10.6	179.44	6.2	244.8	587.7	565.2	22.45	26.177	
4,085.0	4,050.8	4,022.5	4,015.8	12.3	10.9	179.45	6.4	250.1	609.7	586.6	23.07	26.422	
4,100.0	4,065.5	4,037.8	4,031.1	12.3	10.9	179.45	6.4	250.9	613.5	590.3	23.18	26.461	
4,180.0	4,143.9	4,119.7	4,112.9	12.7	11.2	179.45	6.5	255.2	633.5	609.8	23.77	26.650	
4,200.0	4,163.5	4,140.3	4,133.4	12.7	11.2	179.45	6.6	256.2	638.4	614.5	23.92	26.693	
4,275.0	4,237.0	4,217.4	4,210.5	13.1	11.5	179.46	6.7	259.6	656.6	632.1	24.47	26.835	
4,300.0	4,261.5	4,243.2	4,236.2	13.2	11.6	179.46	6.7	260.6	662.5	637.9	24.65	26.879	
4,370.0	4,330.1	4,315.4	4,308.5	13.5	11.8	179.47	6.8	263.1	678.9	653.7	25.16	26.985	
4,400.0	4,359.5	4,346.5	4,339.5	13.6	11.8	179.47	6.8	264.1	685.8	660.4	25.37	27.026	
4,465.0	4,423.2	4,413.9	4,406.9	13.9	12.0	179.48	6.9	265.8	700.4	674.6	25.84	27.104	
4,500.0	4,457.5	4,450.3	4,443.3	14.0	12.1	179.48	6.9	266.6	708.1	682.0	26.09	27.144	
4,560.0	4,516.3	4,512.8	4,505.7	14.3	12.3	179.49	7.0	267.7	721.1	694.6	26.51	27.202	
4,600.0	4,555.5	4,554.5	4,547.5	14.4	12.4	179.50	7.0	268.3	729.6	702.8	26.78	27.241	
4,655.0	4,609.4	4,612.0	4,604.9	14.7	12.5	179.50	7.0	268.7	741.0	713.8	27.15	27.298	
4,700.0	4,653.5	4,659.1	4,652.1	14.9	12.6	179.51	7.0	268.9	750.1	722.7	27.40	27.376	
4,750.0	4,702.5	4,709.5	4,702.5	15.1	12.6	179.52	7.0	268.9	760.1	732.5	27.65	27.488	
4,800.0	4,751.5	4,758.5	4,751.5	15.3	12.6	179.52	7.0	268.9	770.1	742.2	27.90	27.605	
4,845.0	4,795.6	4,802.6	4,795.6	15.5	12.6	179.53	7.0	268.9	779.1	750.9	28.12	27.707	
4,900.0	4,849.5	4,856.5	4,849.5	15.7	12.7	179.53	7.0	268.9	790.0	761.6	28.39	27.830	
4,940.0	4,888.7	4,895.7	4,888.7	15.9	12.7	179.54	7.0	268.9	798.0	769.4	28.58	27.917	
5,000.0	4,947.5	4,954.5	4,947.5	16.2	12.7	179.54	7.0	268.9	810.0	781.1	28.88	28.045	
5,035.0	4,981.8	4,988.8	4,981.8	16.3	12.8	179.55	7.0	268.9	816.9	787.9	29.05	28.118	
5,100.0	5,045.5	5,052.5	5,045.5	16.6	12.8	179.56	7.0	268.9	829.9	800.5	29.38	28.251	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,130.0	5,074.9	5,081.9	5,074.9	16.7	12.8	179.56	7.0	268.9	835.9	806.4	29.53	28.311		
5,200.0	5,143.4	5,150.5	5,143.4	17.0	12.9	179.57	7.0	268.9	849.8	820.0	29.87	28.448		
5,225.0	5,167.9	5,175.0	5,167.9	17.1	12.9	179.57	7.0	268.9	854.8	824.8	30.00	28.496		
5,300.0	5,241.4	5,248.5	5,241.4	17.5	12.9	179.58	7.0	268.9	869.8	839.4	30.37	28.637		
5,320.0	5,261.0	5,268.1	5,261.0	17.6	12.9	179.58	7.0	268.9	873.8	843.3	30.47	28.673		
5,400.0	5,339.4	5,346.5	5,339.4	17.9	13.0	179.59	7.0	268.9	889.7	858.8	30.87	28.818		
5,415.0	5,354.1	5,361.2	5,354.1	18.0	13.0	179.59	7.0	268.9	892.7	861.8	30.95	28.844		
5,500.0	5,437.4	5,444.5	5,437.4	18.4	13.0	179.59	7.0	268.9	909.6	878.3	31.38	28.991		
5,510.0	5,447.2	5,454.3	5,447.2	18.4	13.0	179.60	7.0	268.9	911.6	880.2	31.43	29.008		
5,600.0	5,535.4	5,542.4	5,535.4	18.8	13.1	179.60	7.0	268.9	929.6	897.7	31.88	29.158		
5,605.0	5,540.3	5,547.3	5,540.3	18.8	13.1	179.60	7.0	268.9	930.6	898.7	31.91	29.166		
5,700.0	5,633.4	5,640.4	5,633.4	19.2	13.1	179.61	7.0	268.9	949.5	917.1	32.39	29.318		
5,795.0	5,726.5	5,733.5	5,726.5	19.7	13.2	179.62	7.0	268.9	968.5	935.6	32.87	29.464		
5,800.0	5,731.4	5,738.4	5,731.4	19.7	13.2	179.62	7.0	268.9	969.5	936.6	32.89	29.472		
5,890.0	5,819.6	5,826.6	5,819.6	20.1	13.3	179.63	7.0	268.9	987.4	954.0	33.35	29.605		
5,900.0	5,829.4	5,836.4	5,829.4	20.1	13.3	179.63	7.0	268.9	989.4	956.0	33.40	29.620		
5,985.0	5,912.7	5,919.7	5,912.7	20.5	13.3	179.63	7.0	268.9	1,006.3	972.5	33.84	29.741		
6,000.0	5,927.4	5,934.4	5,927.4	20.6	13.3	179.63	7.0	268.9	1,009.3	975.4	33.91	29.762		
6,080.0	6,005.8	6,012.8	6,005.8	21.0	13.4	179.64	7.0	268.9	1,025.3	991.0	34.32	29.872		
6,100.0	6,025.4	6,032.4	6,025.4	21.0	13.4	179.64	7.0	268.9	1,029.3	994.8	34.42	29.899		
6,175.0	6,098.9	6,105.9	6,098.9	21.4	13.4	179.65	7.0	268.9	1,044.2	1,009.4	34.81	29.999		
6,200.0	6,123.4	6,130.4	6,123.4	21.5	13.5	179.65	7.0	268.9	1,049.2	1,014.3	34.94	30.032		
6,270.0	6,192.0	6,199.0	6,192.0	21.8	13.5	179.65	7.0	268.9	1,063.2	1,027.9	35.30	30.121		
6,300.0	6,221.4	6,228.4	6,221.4	21.9	13.5	179.66	7.0	268.9	1,069.1	1,033.7	35.45	30.159		
6,365.0	6,285.1	6,292.1	6,285.1	22.2	13.6	179.66	7.0	268.9	1,082.1	1,046.3	35.78	30.240		
6,400.0	6,319.4	6,326.4	6,319.4	22.4	13.6	179.66	7.0	268.9	1,089.1	1,053.1	35.96	30.282		
6,460.0	6,378.2	6,385.2	6,378.2	22.7	13.6	179.67	7.0	268.9	1,101.0	1,064.8	36.27	30.354		
6,500.0	6,417.4	6,424.4	6,417.4	22.9	13.6	179.67	7.0	268.9	1,109.0	1,072.5	36.48	30.401		
6,543.5	6,460.0	6,467.0	6,460.0	23.0	13.7	179.67	7.0	268.9	1,117.7	1,081.0	36.70	30.458		
6,555.0	6,471.2	6,478.3	6,471.2	23.1	13.7	179.67	7.0	268.9	1,120.0	1,083.2	36.75	30.473		
6,600.0	6,515.4	6,522.4	6,515.4	23.3	13.7	179.67	7.0	268.9	1,128.7	1,091.7	36.98	30.524		
6,650.0	6,564.5	6,571.6	6,564.5	23.5	13.7	179.68	7.0	268.9	1,137.9	1,100.7	37.23	30.564		
6,700.0	6,613.7	6,620.8	6,613.7	23.7	13.8	179.68	7.0	268.9	1,146.8	1,109.3	37.49	30.593		
6,745.0	6,658.1	6,665.1	6,658.1	23.9	13.8	179.68	7.0	268.9	1,154.4	1,116.7	37.71	30.612		
6,800.0	6,712.4	6,719.4	6,712.4	24.2	13.8	179.69	7.0	268.9	1,163.2	1,125.2	37.99	30.622		
6,840.0	6,751.9	6,759.0	6,751.9	24.3	13.8	179.69	7.0	268.9	1,169.3	1,131.1	38.18	30.624		
6,900.0	6,811.3	6,818.3	6,811.3	24.6	13.9	179.69	7.0	268.9	1,177.8	1,139.4	38.48	30.613		
6,935.0	6,846.0	6,853.0	6,846.0	24.7	13.9	179.69	7.0	268.9	1,182.6	1,143.9	38.64	30.602		
7,000.0	6,910.5	6,917.5	6,910.5	25.0	13.9	179.69	7.0	268.9	1,190.8	1,151.8	38.96	30.568		
7,030.0	6,940.3	6,947.3	6,940.3	25.1	14.0	179.70	7.0	268.9	1,194.3	1,155.2	39.10	30.549		
7,100.0	7,009.8	7,016.9	7,009.8	25.4	14.0	179.70	7.0	268.9	1,202.0	1,162.6	39.42	30.490		
7,125.0	7,034.7	7,041.7	7,034.7	25.5	14.0	179.70	7.0	268.9	1,204.5	1,165.0	39.54	30.467		
7,200.0	7,109.4	7,116.4	7,109.4	25.8	14.1	179.70	7.0	268.9	1,211.5	1,171.6	39.87	30.382		
7,220.0	7,129.3	7,136.3	7,129.3	25.9	14.1	179.70	7.0	268.9	1,213.2	1,173.2	39.96	30.358		
7,300.0	7,209.1	7,216.1	7,209.1	26.2	14.1	179.70	7.0	268.9	1,219.2	1,178.9	40.31	30.245		
7,315.0	7,224.0	7,231.1	7,224.0	26.2	14.1	179.70	7.0	268.9	1,220.2	1,179.8	40.37	30.224		
7,400.0	7,308.9	7,315.9	7,308.9	26.5	14.2	179.70	7.0	268.9	1,225.2	1,184.5	40.73	30.084		
7,410.0	7,318.9	7,325.9	7,318.9	26.6	14.2	179.70	7.0	268.9	1,225.7	1,184.9	40.76	30.068		
7,500.0	7,408.8	7,415.8	7,408.8	26.9	14.3	179.71	7.0	268.9	1,229.4	1,188.3	41.11	29.903		
7,505.0	7,413.8	7,420.8	7,413.8	26.9	14.3	179.71	7.0	268.9	1,229.6	1,188.5	41.13	29.895		
7,600.0	7,508.8	7,515.8	7,508.8	27.1	14.3	179.71	7.0	268.9	1,231.9	1,190.5	41.47	29.710		
7,693.5	7,602.3	7,609.3	7,602.3	27.3	14.4	89.56	7.0	268.9	1,232.7	1,191.1	41.66	29.590		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,695.0	7,603.8	7,610.8	7,603.8	27.3	14.4	89.56	7.0	268.9	1,232.7	1,191.0	41.66	29.590	
7,700.0	7,608.8	7,615.8	7,608.8	27.3	14.4	89.56	7.0	268.9	1,232.7	1,191.0	41.66	29.587	
7,790.0	7,698.8	7,705.8	7,698.8	27.3	14.5	89.56	7.0	268.9	1,232.7	1,191.0	41.75	29.529	
7,800.0	7,708.8	7,715.8	7,708.8	27.3	14.5	89.56	7.0	268.9	1,232.7	1,191.0	41.76	29.522	
7,885.0	7,793.8	7,800.8	7,793.8	27.3	14.5	89.56	7.0	268.9	1,232.7	1,190.9	41.83	29.467	
7,900.0	7,808.8	7,815.8	7,808.8	27.3	14.5	89.56	7.0	268.9	1,232.7	1,190.9	41.85	29.457	
7,980.0	7,888.8	7,895.8	7,888.8	27.4	14.6	89.56	7.0	268.9	1,232.7	1,190.8	41.92	29.405	
8,000.0	7,908.8	7,915.8	7,908.8	27.4	14.6	89.56	7.0	268.9	1,232.7	1,190.8	41.94	29.392	
8,075.0	7,983.8	7,990.8	7,983.8	27.4	14.6	89.56	7.0	268.9	1,232.7	1,190.7	42.01	29.343	
8,100.0	8,008.8	8,015.8	8,008.8	27.4	14.7	89.56	7.0	268.9	1,232.7	1,190.7	42.03	29.327	
8,170.0	8,078.8	8,085.8	8,078.8	27.4	14.7	89.56	7.0	268.9	1,232.7	1,190.6	42.10	29.281	
8,200.0	8,108.8	8,115.8	8,108.8	27.4	14.7	89.56	7.0	268.9	1,232.7	1,190.6	42.13	29.262	
8,265.0	8,173.8	8,180.8	8,173.8	27.4	14.8	89.56	7.0	268.9	1,232.7	1,190.5	42.19	29.220	
8,300.0	8,208.8	8,215.8	8,208.8	27.4	14.8	89.56	7.0	268.9	1,232.7	1,190.5	42.22	29.197	
8,360.0	8,268.8	8,275.8	8,268.8	27.5	14.8	89.56	7.0	268.9	1,232.7	1,190.4	42.28	29.158	
8,400.0	8,308.8	8,315.8	8,308.8	27.5	14.9	89.56	7.0	268.9	1,232.7	1,190.4	42.31	29.132	
8,455.0	8,363.8	8,370.8	8,363.8	27.5	14.9	89.56	7.0	268.9	1,232.7	1,190.3	42.37	29.096	
8,500.0	8,408.8	8,415.8	8,408.8	27.5	14.9	89.56	7.0	268.9	1,232.7	1,190.3	42.41	29.067	
8,550.0	8,458.8	8,465.8	8,458.8	27.5	15.0	89.56	7.0	268.9	1,232.7	1,190.3	42.46	29.035	
8,600.0	8,508.8	8,515.8	8,508.8	27.5	15.0	89.56	7.0	268.9	1,232.7	1,190.2	42.50	29.002	
8,645.0	8,553.8	8,560.8	8,553.8	27.5	15.0	89.56	7.0	268.9	1,232.7	1,190.2	42.55	28.973	
8,700.0	8,608.8	8,615.8	8,608.8	27.6	15.0	89.56	7.0	268.9	1,232.7	1,190.1	42.60	28.937	
8,740.0	8,648.8	8,655.8	8,648.8	27.6	15.1	89.56	7.0	268.9	1,232.7	1,190.1	42.64	28.912	
8,800.0	8,708.8	8,715.8	8,708.8	27.6	15.1	89.56	7.0	268.9	1,232.7	1,190.0	42.69	28.873	
8,835.0	8,743.8	8,750.8	8,743.8	27.6	15.1	89.56	7.0	268.9	1,232.7	1,190.0	42.73	28.850	
8,900.0	8,808.8	8,815.8	8,808.8	27.6	15.2	89.56	7.0	268.9	1,232.7	1,189.9	42.79	28.808	
8,930.0	8,838.8	8,845.8	8,838.8	27.6	15.2	89.56	7.0	268.9	1,232.7	1,189.9	42.82	28.789	
9,000.0	8,908.8	8,915.8	8,908.8	27.6	15.2	89.56	7.0	268.9	1,232.7	1,189.8	42.89	28.743	
9,025.0	8,933.8	8,940.8	8,933.8	27.7	15.3	89.56	7.0	268.9	1,232.7	1,189.8	42.91	28.727	
9,100.0	9,008.8	9,015.8	9,008.8	27.7	15.3	89.56	7.0	268.9	1,232.7	1,189.7	42.98	28.679	
9,120.0	9,028.8	9,035.8	9,028.8	27.7	15.3	89.56	7.0	268.9	1,232.7	1,189.7	43.00	28.666	
9,200.0	9,108.8	9,115.8	9,108.8	27.7	15.4	89.56	7.0	268.9	1,232.7	1,189.6	43.08	28.614	
9,215.0	9,123.8	9,130.8	9,123.8	27.7	15.4	89.56	7.0	268.9	1,232.7	1,189.6	43.10	28.604	
9,300.0	9,208.8	9,215.8	9,208.8	27.7	15.5	89.56	7.0	268.9	1,232.7	1,189.5	43.18	28.550	
9,310.0	9,218.8	9,225.8	9,218.8	27.7	15.5	89.56	7.0	268.9	1,232.7	1,189.5	43.19	28.543	
9,400.0	9,308.8	9,315.8	9,308.8	27.8	15.5	89.56	7.0	268.9	1,232.7	1,189.4	43.28	28.485	
9,405.0	9,313.8	9,320.8	9,313.8	27.8	15.5	89.56	7.0	268.9	1,232.7	1,189.4	43.28	28.482	
9,500.0	9,408.8	9,415.8	9,408.8	27.8	15.6	89.56	7.0	268.9	1,232.7	1,189.3	43.37	28.421	
9,595.0	9,503.8	9,510.8	9,503.8	27.8	15.6	89.56	7.0	268.9	1,232.7	1,189.2	43.47	28.360	
9,600.0	9,508.8	9,515.8	9,508.8	27.8	15.7	89.56	7.0	268.9	1,232.7	1,189.2	43.47	28.356	
9,690.0	9,598.8	9,605.8	9,598.8	27.9	15.7	89.56	7.0	268.9	1,232.7	1,189.1	43.56	28.299	
9,700.0	9,608.8	9,615.8	9,608.8	27.9	15.7	89.56	7.0	268.9	1,232.7	1,189.1	43.57	28.292	
9,785.0	9,693.8	9,700.8	9,693.8	27.9	15.8	89.56	7.0	268.9	1,232.7	1,189.1	43.65	28.238	
9,800.0	9,708.8	9,715.8	9,708.8	27.9	15.8	89.56	7.0	268.9	1,232.7	1,189.0	43.67	28.228	
9,880.0	9,788.8	9,795.8	9,788.8	27.9	15.8	89.56	7.0	268.9	1,232.7	1,189.0	43.75	28.177	
9,900.0	9,808.8	9,815.8	9,808.8	27.9	15.9	89.56	7.0	268.9	1,232.7	1,188.9	43.77	28.164	
9,975.0	9,883.8	9,890.8	9,883.8	27.9	15.9	89.56	7.0	268.9	1,232.7	1,188.9	43.84	28.116	
10,000.0	9,908.8	9,915.8	9,908.8	28.0	15.9	89.56	7.0	268.9	1,232.7	1,188.8	43.87	28.100	
10,070.0	9,978.8	9,985.8	9,978.8	28.0	16.0	89.56	7.0	268.9	1,232.7	1,188.8	43.94	28.055	
10,100.0	10,008.8	10,015.8	10,008.8	28.0	16.0	89.56	7.0	268.9	1,232.7	1,188.7	43.97	28.036	
10,165.0	10,073.8	10,080.8	10,073.8	28.0	16.0	89.56	7.0	268.9	1,232.7	1,188.7	44.03	27.994	
10,200.0	10,108.8	10,115.8	10,108.8	28.0	16.1	89.56	7.0	268.9	1,232.7	1,188.6	44.07	27.972	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,260.0	10,168.8	10,175.8	10,168.8	28.0	16.1	89.56	7.0	268.9	1,232.7	1,188.6	44.13	27.934	
10,300.0	10,208.8	10,215.8	10,208.8	28.0	16.1	89.56	7.0	268.9	1,232.7	1,188.5	44.17	27.908	
10,355.0	10,263.8	10,270.8	10,263.8	28.1	16.2	89.56	7.0	268.9	1,232.7	1,188.5	44.23	27.873	
10,400.0	10,308.8	10,315.8	10,308.8	28.1	16.2	89.56	7.0	268.9	1,232.7	1,188.4	44.27	27.845	
10,450.0	10,358.8	10,365.8	10,358.8	28.1	16.2	89.56	7.0	268.9	1,232.7	1,188.4	44.32	27.813	
10,500.0	10,408.8	10,415.8	10,408.8	28.1	16.3	89.56	7.0	268.9	1,232.7	1,188.3	44.37	27.781	
10,545.0	10,453.8	10,460.8	10,453.8	28.1	16.3	89.56	7.0	268.9	1,232.7	1,188.3	44.42	27.752	
10,600.0	10,508.8	10,515.8	10,508.8	28.1	16.3	89.56	7.0	268.9	1,232.7	1,188.2	44.47	27.718	
10,640.0	10,548.8	10,555.8	10,548.8	28.2	16.4	89.56	7.0	268.9	1,232.7	1,188.2	44.51	27.692	
10,700.0	10,608.8	10,615.8	10,608.8	28.2	16.4	89.56	7.0	268.9	1,232.7	1,188.1	44.58	27.654	
10,735.0	10,643.8	10,650.8	10,643.8	28.2	16.4	89.56	7.0	268.9	1,232.7	1,188.1	44.61	27.632	
10,800.0	10,708.8	10,715.8	10,708.8	28.2	16.5	89.56	7.0	268.9	1,232.7	1,188.0	44.68	27.591	
10,830.0	10,738.8	10,745.8	10,738.8	28.2	16.5	89.56	7.0	268.9	1,232.7	1,188.0	44.71	27.572	
10,900.0	10,808.8	10,815.8	10,808.8	28.2	16.5	89.56	7.0	268.9	1,232.7	1,187.9	44.78	27.528	
10,925.0	10,833.8	10,840.8	10,833.8	28.3	16.6	89.56	7.0	268.9	1,232.7	1,187.9	44.81	27.512	
11,000.0	10,908.8	10,915.8	10,908.8	28.3	16.6	89.56	7.0	268.9	1,232.7	1,187.8	44.88	27.467	
11,020.0	10,928.8	10,935.8	10,928.8	28.3	16.6	89.56	7.0	268.9	1,232.7	1,187.8	44.90	27.457	
11,100.0	11,008.8	11,015.9	11,008.8	28.3	16.6	89.50	8.1	268.9	1,232.7	1,187.8	44.95	27.425	
11,107.1	11,015.8	11,022.9	11,015.8	28.3	16.6	89.48	8.6	268.9	1,232.7	1,187.8	44.95	27.424	
11,115.0	11,023.8	11,030.8	11,023.7	28.3	16.6	89.45	9.4	268.9	1,232.7	1,187.8	44.95	27.422	
11,200.0	11,108.8	11,113.0	11,104.4	28.3	16.7	88.75	24.4	268.8	1,232.8	1,187.8	44.98	27.410	
11,210.0	11,118.8	11,122.3	11,113.3	28.3	16.7	88.63	27.0	268.8	1,232.9	1,187.9	44.98	27.412	
11,237.8	11,146.5	11,147.4	11,137.2	28.3	16.7	88.26	34.8	268.7	1,233.0	1,188.1	44.97	27.421	
11,250.0	11,158.8	11,158.2	11,147.3	28.3	16.7	88.60	38.6	268.7	1,233.1	1,188.2	44.96	27.427	
11,275.0	11,183.7	11,180.2	11,167.6	28.4	16.7	88.24	46.9	268.6	1,233.4	1,188.4	44.95	27.440	
11,300.0	11,208.6	11,201.8	11,187.3	28.4	16.7	87.88	56.0	268.5	1,233.7	1,188.7	44.93	27.455	
11,305.0	11,213.5	11,206.1	11,191.1	28.4	16.7	87.81	57.9	268.5	1,233.7	1,188.8	44.93	27.458	
11,325.0	11,233.3	11,223.2	11,206.2	28.4	16.7	87.52	65.9	268.4	1,234.0	1,189.1	44.92	27.471	
11,350.0	11,257.7	11,244.3	11,224.5	28.4	16.7	87.17	76.5	268.3	1,234.4	1,189.5	44.91	27.488	
11,375.0	11,281.9	11,265.2	11,242.1	28.4	16.7	86.83	87.7	268.2	1,234.8	1,189.9	44.89	27.507	
11,400.0	11,305.7	11,285.8	11,259.0	28.4	16.7	86.50	99.5	268.1	1,235.2	1,190.4	44.88	27.525	
11,425.0	11,329.0	11,306.3	11,275.2	28.4	16.7	86.17	112.0	268.0	1,235.7	1,190.8	44.86	27.544	
11,450.0	11,351.9	11,325.0	11,289.6	28.4	16.7	85.87	124.0	267.9	1,236.2	1,191.4	44.85	27.564	
11,475.0	11,374.1	11,346.6	11,305.6	28.4	16.7	85.55	138.5	267.8	1,236.7	1,191.9	44.84	27.580	
11,495.0	11,391.5	11,362.5	11,316.9	28.4	16.7	85.31	149.6	267.7	1,237.1	1,192.3	44.83	27.593	
11,500.0	11,395.8	11,366.5	11,319.7	28.4	16.7	85.25	152.5	267.6	1,237.3	1,192.4	44.83	27.597	
11,525.0	11,416.8	11,386.2	11,333.1	28.4	16.7	84.96	166.9	267.5	1,237.8	1,193.0	44.83	27.612	
11,550.0	11,437.0	11,405.8	11,345.8	28.4	16.7	84.68	181.8	267.4	1,238.3	1,193.5	44.83	27.626	
11,575.0	11,456.4	11,425.0	11,357.7	28.4	16.7	84.42	196.9	267.2	1,238.9	1,194.1	44.83	27.638	
11,590.0	11,467.7	11,436.8	11,364.7	28.4	16.7	84.27	206.5	267.1	1,239.2	1,194.4	44.83	27.644	
11,600.0	11,475.0	11,444.6	11,369.2	28.4	16.7	84.17	212.8	267.1	1,239.4	1,194.6	44.83	27.648	
11,625.0	11,492.7	11,463.8	11,379.8	28.4	16.8	83.93	228.8	266.9	1,239.9	1,195.1	44.84	27.655	
11,650.0	11,509.4	11,482.9	11,389.7	28.4	16.8	83.70	245.2	266.8	1,240.5	1,195.6	44.85	27.661	
11,675.0	11,525.2	11,500.0	11,398.0	28.4	16.8	83.50	260.1	266.6	1,241.0	1,196.1	44.86	27.665	
11,685.0	11,531.2	11,509.5	11,402.4	28.4	16.8	83.41	268.5	266.6	1,241.1	1,196.3	44.87	27.664	
11,700.0	11,539.9	11,520.8	11,407.4	28.4	16.8	83.29	278.7	266.5	1,241.4	1,196.6	44.88	27.664	
11,725.0	11,553.5	11,539.7	11,415.2	28.4	16.8	83.11	295.9	266.3	1,241.9	1,197.0	44.90	27.661	
11,750.0	11,566.0	11,558.5	11,422.2	28.4	16.8	82.94	313.3	266.2	1,242.3	1,197.4	44.92	27.656	
11,775.0	11,577.4	11,575.0	11,427.9	28.4	16.8	82.80	328.8	266.0	1,242.7	1,197.8	44.94	27.649	
11,780.0	11,579.5	11,580.9	11,429.8	28.4	16.8	82.76	334.4	266.0	1,242.8	1,197.8	44.95	27.646	
11,800.0	11,587.6	11,595.8	11,434.3	28.5	16.9	82.65	348.6	265.8	1,243.0	1,198.1	44.98	27.637	
11,825.0	11,596.5	11,614.4	11,439.2	28.5	16.9	82.53	366.5	265.7	1,243.4	1,198.4	45.01	27.624	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
11,850.0	11,604.3	11,633.0	11,443.4	28.5	16.9	82.42	384.6	265.5	1,243.6	1,198.6	45.05	27.607	
11,875.0	11,610.7	11,650.0	11,446.7	28.5	16.9	82.34	401.3	265.4	1,243.9	1,198.8	45.09	27.589	
11,900.0	11,616.0	11,670.0	11,449.8	28.5	17.0	82.26	421.1	265.2	1,244.1	1,198.9	45.13	27.566	
11,925.0	11,619.9	11,688.5	11,451.9	28.5	17.0	82.21	439.4	265.0	1,244.2	1,199.0	45.18	27.541	
11,950.0	11,622.5	11,706.9	11,453.3	28.6	17.0	82.17	457.8	264.9	1,244.3	1,199.1	45.23	27.514	
11,970.0	11,623.7	11,721.7	11,453.9	28.6	17.0	82.15	472.6	264.7	1,244.4	1,199.1	45.27	27.491	
11,975.0	11,623.8	11,725.0	11,453.9	28.6	17.0	82.15	475.9	264.7	1,244.4	1,199.1	45.28	27.485	
11,987.8	11,624.0	11,735.2	11,454.0	28.6	17.1	82.15	486.1	264.6	1,244.4	1,199.1	45.30	27.468	
12,000.0	11,624.0	11,747.4	11,454.0	28.6	17.1	82.15	498.3	264.5	1,244.4	1,199.1	45.34	27.448	
12,065.0	11,624.0	11,812.4	11,454.0	28.7	17.2	82.15	563.3	263.9	1,244.4	1,198.9	45.53	27.330	
12,100.0	11,624.0	11,847.4	11,454.0	28.7	17.3	82.15	598.3	263.6	1,244.4	1,198.8	45.65	27.261	
12,160.0	11,624.0	11,907.4	11,454.0	28.8	17.4	82.15	658.3	263.0	1,244.4	1,198.5	45.86	27.134	
12,200.0	11,624.0	11,947.4	11,454.0	28.9	17.5	82.15	698.3	262.7	1,244.4	1,198.4	46.01	27.044	
12,255.0	11,624.0	12,002.4	11,454.0	28.9	17.6	82.15	753.3	262.2	1,244.4	1,198.2	46.23	26.915	
12,300.0	11,624.0	12,047.4	11,454.0	29.0	17.8	82.15	798.3	261.8	1,244.4	1,198.0	46.43	26.803	
12,350.0	11,624.0	12,097.4	11,454.0	29.1	17.9	82.15	848.3	261.3	1,244.4	1,197.8	46.65	26.674	
12,400.0	11,624.0	12,147.4	11,454.0	29.2	18.0	82.15	898.3	260.9	1,244.4	1,197.5	46.89	26.539	
12,445.0	11,624.0	12,192.4	11,454.0	29.3	18.2	82.15	943.3	260.4	1,244.4	1,197.3	47.11	26.413	
12,500.0	11,624.0	12,247.4	11,454.0	29.4	18.4	82.15	998.3	259.9	1,244.4	1,197.0	47.40	26.254	
12,540.0	11,624.0	12,287.4	11,454.0	29.5	18.5	82.15	1,038.3	259.6	1,244.4	1,196.8	47.62	26.134	
12,600.0	11,624.0	12,347.4	11,454.0	29.6	18.7	82.15	1,098.3	259.0	1,244.4	1,196.5	47.95	25.951	
12,635.0	11,624.0	12,382.4	11,454.0	29.7	18.8	82.15	1,133.3	258.7	1,244.4	1,196.3	48.16	25.840	
12,700.0	11,624.0	12,447.4	11,454.0	29.8	19.1	82.15	1,198.3	258.1	1,244.4	1,195.9	48.55	25.632	
12,730.0	11,624.0	12,477.4	11,454.0	29.9	19.2	82.15	1,228.3	257.9	1,244.4	1,195.7	48.74	25.533	
12,800.0	11,624.0	12,547.4	11,454.0	30.1	19.4	82.15	1,298.3	257.2	1,244.4	1,195.2	49.19	25.300	
12,825.0	11,624.0	12,572.4	11,454.0	30.2	19.5	82.15	1,323.3	257.0	1,244.4	1,195.1	49.35	25.214	
12,900.0	11,624.0	12,647.4	11,454.0	30.4	19.9	82.15	1,398.3	256.3	1,244.4	1,194.6	49.86	24.957	
12,920.0	11,624.0	12,667.4	11,454.0	30.4	19.9	82.15	1,418.3	256.1	1,244.4	1,194.4	50.00	24.886	
13,000.0	11,624.0	12,747.4	11,454.0	30.7	20.3	82.15	1,498.3	255.4	1,244.4	1,193.9	50.58	24.604	
13,015.0	11,624.0	12,762.4	11,454.0	30.7	20.4	82.15	1,513.3	255.3	1,244.4	1,193.8	50.69	24.550	
13,100.0	11,624.0	12,847.4	11,454.0	31.0	20.7	82.15	1,598.3	254.5	1,244.4	1,193.1	51.33	24.245	
13,110.0	11,624.0	12,857.4	11,454.0	31.0	20.8	82.15	1,608.3	254.4	1,244.4	1,193.0	51.41	24.208	
13,200.0	11,624.0	12,947.4	11,454.0	31.3	21.2	82.15	1,698.3	253.6	1,244.4	1,192.3	52.11	23.880	
13,205.0	11,624.0	12,952.4	11,454.0	31.3	21.2	82.15	1,703.3	253.6	1,244.4	1,192.3	52.15	23.862	
13,300.0	11,624.0	13,047.4	11,454.0	31.6	21.7	82.15	1,798.3	252.7	1,244.5	1,191.5	52.93	23.512	
13,395.0	11,624.0	13,142.4	11,454.0	31.9	22.2	82.15	1,893.3	251.8	1,244.5	1,190.7	53.73	23.160	
13,400.0	11,624.0	13,147.4	11,454.0	32.0	22.2	82.15	1,898.3	251.8	1,244.5	1,190.7	53.78	23.142	
13,490.0	11,624.0	13,237.4	11,454.0	32.3	22.6	82.15	1,988.3	251.0	1,244.5	1,189.9	54.56	22.807	
13,500.0	11,624.0	13,247.4	11,454.0	32.3	22.7	82.15	1,998.3	250.9	1,244.5	1,189.8	54.65	22.770	
13,585.0	11,624.0	13,332.4	11,454.0	32.6	23.1	82.15	2,083.3	250.1	1,244.5	1,189.0	55.42	22.455	
13,600.0	11,624.0	13,347.4	11,454.0	32.7	23.2	82.15	2,098.3	250.0	1,244.5	1,188.9	55.56	22.400	
13,680.0	11,624.0	13,427.4	11,454.0	33.0	23.7	82.15	2,178.2	249.2	1,244.5	1,188.2	56.30	22.104	
13,700.0	11,624.0	13,447.4	11,454.0	33.1	23.8	82.15	2,198.2	249.1	1,244.5	1,188.0	56.49	22.031	
13,775.0	11,624.0	13,522.4	11,454.0	33.4	24.2	82.15	2,273.2	248.4	1,244.5	1,187.3	57.20	21.755	
13,800.0	11,624.0	13,547.4	11,454.0	33.5	24.3	82.15	2,298.2	248.2	1,244.5	1,187.0	57.44	21.664	
13,870.0	11,624.0	13,617.4	11,454.0	33.8	24.7	82.15	2,368.2	247.5	1,244.5	1,186.4	58.13	21.409	
13,900.0	11,624.0	13,647.4	11,454.0	33.9	24.9	82.15	2,398.2	247.2	1,244.5	1,186.1	58.42	21.301	
13,965.0	11,624.0	13,712.4	11,454.0	34.2	25.3	82.15	2,463.2	246.7	1,244.5	1,185.4	59.07	21.067	
14,000.0	11,624.0	13,747.4	11,454.0	34.3	25.5	82.15	2,498.2	246.3	1,244.5	1,185.1	59.43	20.942	
14,060.0	11,624.0	13,807.4	11,454.0	34.6	25.8	82.15	2,558.2	245.8	1,244.5	1,184.4	60.04	20.728	
14,100.0	11,624.0	13,847.4	11,454.0	34.8	26.0	82.15	2,598.2	245.4	1,244.5	1,184.0	60.45	20.587	
14,155.0	11,624.0	13,902.4	11,454.0	35.0	26.4	82.15	2,653.2	244.9	1,244.5	1,183.5	61.02	20.394	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	11,624.0	13,947.4	11,454.0	35.2	26.6	82.15	2,698.2	244.5	1,244.5	1,183.0	61.49	20.238	
14,250.0	11,624.0	13,997.4	11,454.0	35.5	26.9	82.15	2,748.2	244.1	1,244.5	1,182.5	62.02	20.065	
14,300.0	11,624.0	14,047.4	11,454.0	35.7	27.2	82.15	2,798.2	243.6	1,244.5	1,181.9	62.56	19.894	
14,345.0	11,624.0	14,092.4	11,454.0	35.9	27.5	82.15	2,843.2	243.2	1,244.5	1,181.5	63.04	19.741	
14,400.0	11,624.0	14,147.4	11,454.0	36.2	27.8	82.15	2,898.2	242.7	1,244.5	1,180.9	63.64	19.556	
14,440.0	11,624.0	14,187.4	11,454.0	36.4	28.1	82.15	2,938.2	242.3	1,244.5	1,180.4	64.08	19.422	
14,500.0	11,624.0	14,247.4	11,454.0	36.6	28.5	82.15	2,998.2	241.8	1,244.5	1,179.8	64.74	19.224	
14,535.0	11,624.0	14,282.4	11,454.0	36.8	28.7	82.15	3,033.2	241.5	1,244.5	1,179.4	65.13	19.109	
14,600.0	11,624.0	14,347.4	11,454.0	37.1	29.1	82.15	3,098.2	240.9	1,244.5	1,178.7	65.85	18.898	
14,630.0	11,624.0	14,377.4	11,454.0	37.3	29.3	82.15	3,128.2	240.6	1,244.5	1,178.3	66.19	18.801	
14,700.0	11,624.0	14,447.4	11,454.0	37.6	29.7	82.15	3,198.2	240.0	1,244.5	1,177.5	66.99	18.579	
14,725.0	11,624.0	14,472.4	11,454.0	37.8	29.9	82.15	3,223.2	239.8	1,244.5	1,177.2	67.27	18.500	
14,800.0	11,624.0	14,547.4	11,454.0	38.1	30.4	82.15	3,298.2	239.1	1,244.5	1,176.4	68.13	18.266	
14,820.0	11,624.0	14,567.4	11,454.0	38.2	30.5	82.15	3,318.2	238.9	1,244.5	1,176.2	68.36	18.204	
14,900.0	11,624.0	14,647.4	11,454.0	38.7	31.0	82.15	3,398.2	238.2	1,244.5	1,175.2	69.29	17.960	
14,915.0	11,624.0	14,662.4	11,454.0	38.7	31.1	82.15	3,413.2	238.0	1,244.5	1,175.1	69.47	17.915	
15,000.0	11,624.0	14,747.4	11,454.0	39.2	31.6	82.15	3,498.2	237.3	1,244.5	1,174.1	70.47	17.661	
15,010.0	11,624.0	14,757.4	11,454.0	39.2	31.7	82.15	3,508.2	237.2	1,244.5	1,173.9	70.59	17.631	
15,100.0	11,624.0	14,847.4	11,454.0	39.7	32.3	82.15	3,598.2	236.4	1,244.5	1,172.9	71.66	17.368	
15,105.0	11,624.0	14,852.4	11,454.0	39.7	32.3	82.15	3,603.2	236.3	1,244.5	1,172.8	71.72	17.354	
15,200.0	11,624.0	14,947.4	11,454.0	40.2	33.0	82.15	3,698.2	235.4	1,244.5	1,171.7	72.86	17.082	
15,295.0	11,624.0	15,042.4	11,454.0	40.8	33.6	82.15	3,793.2	234.6	1,244.5	1,170.5	74.01	16.817	
15,300.0	11,624.0	15,047.4	11,454.0	40.8	33.6	82.15	3,798.2	234.5	1,244.5	1,170.5	74.07	16.803	
15,390.0	11,624.0	15,137.4	11,454.0	41.3	34.2	82.15	3,888.2	233.7	1,244.5	1,169.4	75.17	16.557	
15,400.0	11,624.0	15,147.4	11,454.0	41.3	34.3	82.15	3,898.2	233.6	1,244.5	1,169.3	75.29	16.530	
15,485.0	11,624.0	15,232.4	11,454.0	41.8	34.9	82.15	3,983.2	232.9	1,244.5	1,168.2	76.34	16.303	
15,500.0	11,624.0	15,247.4	11,454.0	41.9	35.0	82.15	3,998.2	232.7	1,244.5	1,168.0	76.52	16.264	
15,580.0	11,624.0	15,327.4	11,454.0	42.4	35.5	82.15	4,078.2	232.0	1,244.6	1,167.0	77.52	16.055	
15,600.0	11,624.0	15,347.4	11,454.0	42.5	35.6	82.15	4,098.2	231.8	1,244.6	1,166.8	77.77	16.004	
15,675.0	11,624.0	15,422.4	11,454.0	42.9	36.1	82.15	4,173.2	231.1	1,244.6	1,165.9	78.71	15.813	
15,700.0	11,624.0	15,447.4	11,454.0	43.0	36.3	82.15	4,198.2	230.9	1,244.6	1,165.5	79.02	15.750	
15,770.0	11,624.0	15,517.4	11,454.0	43.5	36.8	82.15	4,268.2	230.3	1,244.6	1,164.7	79.90	15.576	
15,800.0	11,624.0	15,547.4	11,454.0	43.6	37.0	82.15	4,298.2	230.0	1,244.6	1,164.3	80.28	15.502	
15,865.0	11,624.0	15,612.4	11,454.0	44.0	37.4	82.15	4,363.2	229.4	1,244.6	1,163.5	81.11	15.345	
15,900.0	11,624.0	15,647.4	11,454.0	44.2	37.7	82.15	4,398.2	229.1	1,244.6	1,163.0	81.55	15.261	
15,960.0	11,624.0	15,707.4	11,454.0	44.6	38.1	82.15	4,458.2	228.5	1,244.6	1,162.2	82.32	15.119	
16,000.0	11,624.0	15,747.4	11,454.0	44.8	38.4	82.15	4,498.2	228.2	1,244.6	1,161.7	82.83	15.025	
16,055.0	11,624.0	15,802.4	11,454.0	45.1	38.7	82.15	4,553.2	227.7	1,244.6	1,161.0	83.54	14.898	
16,100.0	11,624.0	15,847.4	11,454.0	45.4	39.0	82.15	4,598.1	227.3	1,244.6	1,160.5	84.12	14.795	
16,150.0	11,624.0	15,897.4	11,454.0	45.7	39.4	82.15	4,648.1	226.8	1,244.6	1,159.8	84.77	14.682	
16,200.0	11,624.0	15,947.4	11,454.0	46.0	39.7	82.15	4,698.1	226.4	1,244.6	1,159.2	85.42	14.571	
16,245.0	11,624.0	15,992.4	11,454.0	46.3	40.1	82.15	4,743.1	226.0	1,244.6	1,158.6	86.00	14.472	
16,300.0	11,624.0	16,047.4	11,454.0	46.6	40.4	82.15	4,798.1	225.5	1,244.6	1,157.9	86.72	14.352	
16,340.0	11,624.0	16,087.4	11,454.0	46.8	40.7	82.15	4,838.1	225.1	1,244.6	1,157.3	87.24	14.266	
16,400.0	11,624.0	16,147.4	11,454.0	47.2	41.1	82.15	4,898.1	224.6	1,244.6	1,156.6	88.03	14.139	
16,435.0	11,624.0	16,182.4	11,454.0	47.4	41.4	82.15	4,933.1	224.2	1,244.6	1,156.1	88.49	14.065	
16,500.0	11,624.0	16,247.4	11,454.0	47.8	41.8	82.15	4,998.1	223.6	1,244.6	1,155.2	89.34	13.930	
16,530.0	11,624.0	16,277.4	11,454.0	48.0	42.0	82.15	5,028.1	223.4	1,244.6	1,154.9	89.74	13.869	
16,600.0	11,624.0	16,347.4	11,454.0	48.4	42.5	82.15	5,098.1	222.7	1,244.6	1,153.9	90.67	13.727	
16,625.0	11,624.0	16,372.4	11,454.0	48.6	42.7	82.15	5,123.1	222.5	1,244.6	1,153.6	91.00	13.677	
16,700.0	11,624.0	16,447.4	11,454.0	49.1	43.2	82.15	5,198.1	221.8	1,244.6	1,152.6	92.00	13.529	
16,720.0	11,624.0	16,467.4	11,454.0	49.2	43.4	82.15	5,218.1	221.6	1,244.6	1,152.3	92.26	13.490	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS								Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
16,800.0	11,624.0	16,547.4	11,454.0	49.7	43.9	82.15	5,298.1	220.9	1,244.6	1,151.3	93.33	13.335		
16,815.0	11,624.0	16,562.4	11,454.0	49.8	44.1	82.15	5,313.1	220.8	1,244.6	1,151.1	93.53	13.307		
16,900.0	11,624.0	16,647.4	11,454.0	50.3	44.7	82.15	5,398.1	220.0	1,244.6	1,149.9	94.67	13.146		
16,910.0	11,624.0	16,657.4	11,454.0	50.4	44.7	82.15	5,408.1	219.9	1,244.6	1,149.8	94.81	13.128		
17,000.0	11,624.0	16,747.4	11,454.0	50.9	45.4	82.15	5,498.1	219.1	1,244.6	1,148.6	96.02	12.962		
17,005.0	11,624.0	16,752.4	11,454.0	51.0	45.4	82.15	5,503.1	219.1	1,244.6	1,148.5	96.09	12.953		
17,100.0	11,624.0	16,847.4	11,454.0	51.6	46.1	82.15	5,598.1	218.2	1,244.6	1,147.2	97.37	12.782		
17,195.0	11,624.0	16,942.4	11,454.0	52.2	46.8	82.15	5,693.1	217.3	1,244.6	1,146.0	98.66	12.615		
17,200.0	11,624.0	16,947.4	11,454.0	52.2	46.8	82.15	5,698.1	217.3	1,244.6	1,145.9	98.73	12.607		
17,290.0	11,624.0	17,037.4	11,454.0	52.8	47.4	82.15	5,788.1	216.5	1,244.6	1,144.7	99.95	12.452		
17,300.0	11,624.0	17,047.4	11,454.0	52.9	47.5	82.15	5,798.1	216.4	1,244.6	1,144.5	100.09	12.435		
17,385.0	11,624.0	17,132.4	11,454.0	53.4	48.1	82.15	5,883.1	215.6	1,244.6	1,143.4	101.25	12.293		
17,400.0	11,624.0	17,147.4	11,454.0	53.5	48.2	82.15	5,898.1	215.5	1,244.6	1,143.2	101.45	12.268		
17,480.0	11,624.0	17,227.4	11,454.0	54.0	48.8	82.15	5,978.1	214.8	1,244.6	1,142.1	102.55	12.137		
17,500.0	11,624.0	17,247.4	11,454.0	54.1	48.9	82.15	5,998.1	214.6	1,244.6	1,141.8	102.82	12.104		
17,575.0	11,624.0	17,322.4	11,454.0	54.6	49.5	82.15	6,073.1	213.9	1,244.6	1,140.8	103.86	11.984		
17,600.0	11,624.0	17,347.4	11,454.0	54.8	49.7	82.15	6,098.1	213.7	1,244.6	1,140.4	104.20	11.945		
17,670.0	11,624.0	17,417.4	11,454.0	55.3	50.2	82.15	6,168.1	213.0	1,244.6	1,139.5	105.16	11.835		
17,700.0	11,624.0	17,447.4	11,454.0	55.5	50.4	82.15	6,198.1	212.8	1,244.6	1,139.1	105.58	11.789		
17,765.0	11,624.0	17,512.4	11,454.0	55.9	50.8	82.15	6,263.1	212.2	1,244.6	1,138.2	106.48	11.689		
17,800.0	11,624.0	17,547.4	11,454.0	56.1	51.1	82.15	6,298.1	211.8	1,244.6	1,137.7	106.96	11.636		
17,860.0	11,624.0	17,607.4	11,454.0	56.5	51.5	82.15	6,358.1	211.3	1,244.7	1,136.9	107.79	11.547		
17,900.0	11,624.0	17,647.4	11,454.0	56.8	51.8	82.15	6,398.1	210.9	1,244.7	1,136.3	108.35	11.488		
17,955.0	11,624.0	17,702.4	11,454.0	57.1	52.2	82.15	6,453.1	210.4	1,244.7	1,135.5	109.11	11.407		
18,000.0	11,624.0	17,747.4	11,454.0	57.4	52.5	82.15	6,498.1	210.0	1,244.7	1,134.9	109.74	11.342		
18,050.0	11,624.0	17,797.4	11,454.0	57.8	52.9	82.15	6,548.1	209.6	1,244.7	1,134.2	110.44	11.270		
18,100.0	11,624.0	17,847.4	11,454.0	58.1	53.3	82.15	6,598.1	209.1	1,244.7	1,133.5	111.13	11.200		
18,145.0	11,624.0	17,892.4	11,454.0	58.4	53.6	82.15	6,643.1	208.7	1,244.7	1,132.9	111.76	11.137		
18,200.0	11,624.0	17,947.4	11,454.0	58.8	54.0	82.15	6,698.1	208.2	1,244.7	1,132.1	112.53	11.061		
18,240.0	11,624.0	17,987.4	11,454.0	59.0	54.3	82.15	6,738.1	207.9	1,244.7	1,131.6	113.09	11.006		
18,300.0	11,624.0	18,047.4	11,454.0	59.4	54.7	82.15	6,798.1	207.3	1,244.7	1,130.7	113.93	10.925		
18,335.0	11,624.0	18,082.4	11,454.0	59.7	55.0	82.15	6,833.1	207.0	1,244.7	1,130.2	114.42	10.878		
18,400.0	11,624.0	18,147.4	11,454.0	60.1	55.5	82.15	6,898.1	206.4	1,244.7	1,129.3	115.33	10.792		
18,430.0	11,624.0	18,177.4	11,454.0	60.3	55.7	82.15	6,928.1	206.1	1,244.7	1,128.9	115.76	10.753		
18,500.0	11,624.0	18,247.4	11,454.0	60.8	56.2	82.15	6,998.0	205.5	1,244.7	1,127.9	116.74	10.662		
18,525.0	11,624.0	18,272.4	11,454.0	61.0	56.4	82.15	7,023.0	205.3	1,244.7	1,127.6	117.09	10.630		
18,600.0	11,624.0	18,347.4	11,454.0	61.5	56.9	82.15	7,098.0	204.6	1,244.7	1,126.5	118.15	10.535		
18,620.0	11,624.0	18,367.4	11,454.0	61.6	57.1	82.15	7,118.0	204.4	1,244.7	1,126.2	118.43	10.510		
18,700.0	11,624.0	18,447.4	11,454.0	62.1	57.6	82.15	7,198.0	203.7	1,244.7	1,125.1	119.56	10.410		
18,715.0	11,624.0	18,462.4	11,454.0	62.2	57.8	82.15	7,213.0	203.5	1,244.7	1,124.9	119.78	10.392		
18,800.0	11,624.0	18,547.4	11,454.0	62.8	58.4	82.15	7,298.0	202.8	1,244.7	1,123.7	120.98	10.288		
18,810.0	11,624.0	18,557.4	11,454.0	62.9	58.4	82.15	7,308.0	202.7	1,244.7	1,123.6	121.12	10.276		
18,900.0	11,624.0	18,647.4	11,454.0	63.5	59.1	82.15	7,398.0	201.9	1,244.7	1,122.3	122.40	10.169		
18,905.0	11,624.0	18,652.4	11,454.0	63.5	59.1	82.15	7,403.0	201.8	1,244.7	1,122.2	122.47	10.163		
19,000.0	11,624.0	18,747.4	11,454.0	64.2	59.8	82.15	7,498.0	201.0	1,244.7	1,120.9	123.82	10.053		
19,095.0	11,624.0	18,842.4	11,454.0	64.8	60.5	82.15	7,593.0	200.1	1,244.7	1,119.5	125.17	9.944		
19,100.0	11,624.0	18,847.4	11,454.0	64.9	60.6	82.15	7,598.0	200.1	1,244.7	1,119.5	125.24	9.938		
19,190.0	11,624.0	18,937.4	11,454.0	65.5	61.2	82.15	7,688.0	199.2	1,244.7	1,118.2	126.52	9.838		
19,200.0	11,624.0	18,947.4	11,454.0	65.6	61.3	82.15	7,698.0	199.1	1,244.7	1,118.0	126.67	9.827		
19,285.0	11,624.0	19,032.4	11,454.0	66.1	61.9	82.15	7,783.0	198.4	1,244.7	1,116.8	127.88	9.733		
19,300.0	11,624.0	19,047.4	11,454.0	66.2	62.0	82.15	7,798.0	198.2	1,244.7	1,116.6	128.10	9.717		
19,380.0	11,624.0	19,127.4	11,454.0	66.8	62.6	82.15	7,878.0	197.5	1,244.7	1,115.5	129.24	9.631		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													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	
19,400.0	11,624.0	19,147.4	11,454.0	66.9	62.8	82.15	7,898.0	197.3	1,244.7	1,115.2	129.53	9.610	
19,475.0	11,624.0	19,222.4	11,454.0	67.5	63.3	82.15	7,973.0	196.6	1,244.7	1,114.1	130.60	9.531	
19,500.0	11,624.0	19,247.4	11,454.0	67.6	63.5	82.15	7,998.0	196.4	1,244.7	1,113.8	130.96	9.505	
19,570.0	11,624.0	19,317.4	11,454.0	68.1	64.0	82.15	8,068.0	195.8	1,244.7	1,112.8	131.96	9.432	
19,600.0	11,624.0	19,347.4	11,454.0	68.3	64.3	82.15	8,098.0	195.5	1,244.7	1,112.3	132.39	9.402	
19,665.0	11,624.0	19,412.4	11,454.0	68.8	64.7	82.15	8,163.0	194.9	1,244.7	1,111.4	133.33	9.336	
19,700.0	11,624.0	19,447.4	11,454.0	69.0	65.0	82.15	8,198.0	194.6	1,244.7	1,110.9	133.83	9.301	
19,760.0	11,624.0	19,507.4	11,454.0	69.4	65.4	82.15	8,258.0	194.1	1,244.7	1,110.0	134.69	9.241	
19,800.0	11,624.0	19,547.4	11,454.0	69.7	65.7	82.15	8,298.0	193.7	1,244.7	1,109.5	135.27	9.202	
19,855.0	11,624.0	19,602.4	11,454.0	70.1	66.1	82.15	8,353.0	193.2	1,244.7	1,108.7	136.06	9.148	
19,900.0	11,624.0	19,647.4	11,454.0	70.4	66.5	82.15	8,398.0	192.8	1,244.7	1,108.0	136.71	9.105	
19,950.0	11,624.0	19,697.4	11,454.0	70.8	66.8	82.15	8,448.0	192.3	1,244.7	1,107.3	137.43	9.057	
20,000.0	11,624.0	19,747.4	11,454.0	71.1	67.2	82.15	8,498.0	191.9	1,244.7	1,106.6	138.15	9.010	
20,045.0	11,624.0	19,792.4	11,454.0	71.4	67.5	82.15	8,543.0	191.5	1,244.7	1,105.9	138.80	8.968	
20,100.0	11,624.0	19,847.4	11,454.0	71.8	68.0	82.15	8,598.0	191.0	1,244.7	1,105.2	139.59	8.917	
20,140.0	11,624.0	19,887.4	11,454.0	72.1	68.2	82.15	8,638.0	190.6	1,244.7	1,104.6	140.17	8.880	
20,200.0	11,624.0	19,947.4	11,454.0	72.5	68.7	82.15	8,698.0	190.1	1,244.8	1,103.7	141.04	8.825	
20,235.0	11,624.0	19,982.4	11,454.0	72.8	69.0	82.15	8,733.0	189.7	1,244.8	1,103.2	141.55	8.794	
20,300.0	11,624.0	20,047.4	11,454.0	73.2	69.4	82.15	8,798.0	189.2	1,244.8	1,102.3	142.49	8.736	
20,330.0	11,624.0	20,077.4	11,454.0	73.4	69.7	82.15	8,828.0	188.9	1,244.8	1,101.8	142.92	8.709	
20,400.0	11,624.0	20,147.4	11,454.0	73.9	70.2	82.15	8,898.0	188.3	1,244.8	1,100.8	143.94	8.648	
20,425.0	11,624.0	20,172.4	11,454.0	74.1	70.4	82.15	8,923.0	188.0	1,244.8	1,100.5	144.30	8.626	
20,500.0	11,624.0	20,247.4	11,454.0	74.6	70.9	82.15	8,998.0	187.3	1,244.8	1,099.4	145.39	8.562	
20,520.0	11,624.0	20,267.4	11,454.0	74.8	71.1	82.15	9,018.0	187.2	1,244.8	1,099.1	145.68	8.545	
20,600.0	11,624.0	20,347.4	11,454.0	75.3	71.7	82.15	9,098.0	186.4	1,244.8	1,097.9	146.84	8.477	
20,615.0	11,624.0	20,362.4	11,454.0	75.4	71.8	82.15	9,113.0	186.3	1,244.8	1,097.7	147.06	8.464	
20,700.0	11,624.0	20,447.4	11,454.0	76.0	72.4	82.15	9,198.0	185.5	1,244.8	1,096.5	148.29	8.394	
20,710.0	11,624.0	20,457.4	11,454.0	76.1	72.5	82.15	9,208.0	185.4	1,244.8	1,096.3	148.44	8.386	
20,800.0	11,624.0	20,547.4	11,454.0	76.7	73.1	82.15	9,298.0	184.6	1,244.8	1,095.0	149.75	8.312	
20,805.0	11,624.0	20,552.4	11,454.0	76.8	73.2	82.15	9,303.0	184.6	1,244.8	1,095.0	149.82	8.308	
20,900.0	11,624.0	20,647.4	11,454.0	77.5	73.9	82.15	9,398.0	183.7	1,244.8	1,093.6	151.21	8.232	
20,995.0	11,624.0	20,742.4	11,454.0	78.1	74.6	82.15	9,492.9	182.9	1,244.8	1,092.2	152.59	8.158	
21,000.0	11,624.0	20,747.4	11,454.0	78.2	74.6	82.15	9,497.9	182.8	1,244.8	1,092.1	152.67	8.154	
21,090.0	11,624.0	20,837.4	11,454.0	78.8	75.3	82.15	9,587.9	182.0	1,244.8	1,090.8	153.98	8.084	
21,100.0	11,624.0	20,847.4	11,454.0	78.9	75.4	82.15	9,597.9	181.9	1,244.8	1,090.7	154.12	8.077	
21,185.0	11,624.0	20,932.4	11,454.0	79.5	76.0	82.15	9,682.9	181.1	1,244.8	1,089.4	155.37	8.012	
21,200.0	11,624.0	20,947.4	11,454.0	79.6	76.1	82.15	9,697.9	181.0	1,244.8	1,089.2	155.59	8.001	
21,280.0	11,624.0	21,027.4	11,454.0	80.2	76.7	82.15	9,777.9	180.3	1,244.8	1,088.0	156.76	7.941	
21,300.0	11,624.0	21,047.4	11,454.0	80.3	76.9	82.15	9,797.9	180.1	1,244.8	1,087.8	157.05	7.926	
21,375.0	11,624.0	21,122.4	11,454.0	80.8	77.4	82.15	9,872.9	179.4	1,244.8	1,086.7	158.15	7.871	
21,400.0	11,624.0	21,147.4	11,454.0	81.0	77.6	82.15	9,897.9	179.2	1,244.8	1,086.3	158.51	7.853	
21,470.0	11,624.0	21,217.4	11,454.0	81.5	78.1	82.15	9,967.9	178.5	1,244.8	1,085.3	159.54	7.803	
21,500.0	11,624.0	21,247.4	11,454.0	81.7	78.4	82.15	9,997.9	178.3	1,244.8	1,084.8	159.98	7.781	
21,565.0	11,624.0	21,312.4	11,454.0	82.2	78.8	82.15	10,062.9	177.7	1,244.8	1,083.9	160.93	7.735	
21,600.0	11,624.0	21,347.4	11,454.0	82.4	79.1	82.15	10,097.9	177.4	1,244.8	1,083.4	161.44	7.711	
21,660.0	11,624.0	21,407.4	11,454.0	82.9	79.6	82.15	10,157.9	176.8	1,244.8	1,082.5	162.32	7.669	
21,700.0	11,624.0	21,447.4	11,454.0	83.2	79.9	82.15	10,197.9	176.5	1,244.8	1,081.9	162.91	7.641	
21,755.0	11,624.0	21,502.4	11,454.0	83.6	80.3	82.15	10,252.9	176.0	1,244.8	1,081.1	163.72	7.604	
21,800.0	11,624.0	21,547.4	11,454.0	83.9	80.6	82.15	10,297.9	175.5	1,244.8	1,080.4	164.38	7.573	
21,850.0	11,624.0	21,597.4	11,454.0	84.2	81.0	82.15	10,347.9	175.1	1,244.8	1,079.7	165.11	7.539	
21,900.0	11,624.0	21,647.4	11,454.0	84.6	81.4	82.15	10,397.9	174.6	1,244.8	1,079.0	165.85	7.506	
21,945.0	11,624.0	21,692.4	11,454.0	84.9	81.7	82.15	10,442.9	174.2	1,244.8	1,078.3	166.51	7.476	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 10984-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
21,945.0	11,624.0	21,692.5	11,454.0	84.9	81.7	82.15	10,442.9	174.2	1,244.8	1,078.3	166.51	7.476		
22,000.0	11,624.0	21,724.9	11,454.0	85.3	81.9	82.15	10,475.4	173.9	1,245.0	1,077.9	167.09	7.451 SF		
22,040.0	11,624.0	21,724.9	11,454.0	85.6	81.9	82.15	10,475.4	173.9	1,246.4	1,079.2	167.16	7.456		
22,049.9	11,624.0	21,724.9	11,454.0	85.7	81.9	82.15	10,475.4	173.9	1,246.9	1,079.8	167.15	7.460		
22,050.7	11,624.0	21,724.9	11,454.0	85.7	81.9	82.15	10,475.4	173.9	1,247.0	1,079.8	167.15	7.460		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.55	0.9	120.3	120.3					
95.0	95.0	95.0	95.0	3.0	3.0	89.55	0.9	120.3	120.3	114.3	6.03	19.967		
100.0	100.0	100.0	100.0	3.0	3.0	89.55	0.9	120.3	120.3	114.3	6.03	19.956		
190.0	190.0	190.0	190.0	3.1	3.1	89.55	0.9	120.3	120.3	114.2	6.15	19.556		
200.0	200.0	200.0	200.0	3.1	3.1	89.55	0.9	120.3	120.3	114.1	6.17	19.494		
285.0	285.0	285.0	285.0	3.2	3.2	89.55	0.9	120.3	120.3	114.0	6.31	19.065		
300.0	300.0	300.0	300.0	3.2	3.2	89.55	0.9	120.3	120.3	114.0	6.34	18.980		
380.0	380.0	380.0	380.0	3.3	3.3	89.55	0.9	120.3	120.3	113.8	6.49	18.544		
400.0	400.0	400.0	400.0	3.3	3.3	89.55	0.9	120.3	120.3	113.8	6.53	18.427		
475.0	475.0	475.0	475.0	3.4	3.4	89.55	0.9	120.3	120.3	113.6	6.68	18.000		
500.0	500.0	500.0	500.0	3.4	3.4	89.55	0.9	120.3	120.3	113.6	6.74	17.852		
570.0	570.0	570.0	570.0	3.5	3.5	89.55	0.9	120.3	120.3	113.4	6.90	17.443		
600.0	600.0	600.0	600.0	3.5	3.5	89.55	0.9	120.3	120.3	113.3	6.97	17.264		
665.0	665.0	665.0	665.0	3.6	3.6	89.55	0.9	120.3	120.3	113.2	7.13	16.881		
700.0	700.0	700.0	700.0	3.7	3.7	89.55	0.9	120.3	120.3	113.1	7.22	16.674		
760.0	760.0	760.0	760.0	3.8	3.8	89.55	0.9	120.3	120.3	112.9	7.37	16.323		
800.0	800.0	800.0	800.0	3.8	3.8	89.55	0.9	120.3	120.3	112.8	7.48	16.090		
855.0	855.0	855.0	855.0	3.9	3.9	89.55	0.9	120.3	120.3	112.7	7.63	15.774		
900.0	900.0	900.0	900.0	4.0	4.0	89.55	0.9	120.3	120.3	112.6	7.75	15.518		
950.0	950.0	950.0	950.0	4.1	4.1	89.55	0.9	120.3	120.3	112.4	7.90	15.238		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.55	0.9	120.3	120.3	112.3	8.04	14.962		
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.55	0.9	120.3	120.3	112.1	8.17	14.718		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.55	0.9	120.3	120.3	112.0	8.34	14.425		
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.55	0.9	120.3	120.3	111.9	8.46	14.217		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.55	0.9	120.3	120.3	111.7	8.65	13.910		
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.55	0.9	120.3	120.3	111.6	8.76	13.735		
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.55	0.9	120.3	120.3	111.3	8.97	13.417		
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.55	0.9	120.3	120.3	111.2	9.06	13.273		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.55	0.9	120.3	120.3	111.0	9.29	12.946		
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.55	0.9	120.3	120.3	110.9	9.38	12.832		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.55	0.9	120.3	120.3	110.7	9.63	12.498		
1,520.0	1,520.0	1,520.0	1,520.0	5.1	5.1	89.55	0.9	120.3	120.3	110.6	9.69	12.411		
1,600.0	1,600.0	1,600.0	1,600.0	5.3	5.3	89.55	0.9	120.3	120.3	110.3	9.97	12.072		
1,615.0	1,615.0	1,615.0	1,615.0	5.3	5.3	89.55	0.9	120.3	120.3	110.3	10.02	12.010		
1,700.0	1,700.0	1,700.0	1,700.0	5.5	5.5	89.55	0.9	120.3	120.3	110.0	10.31	11.667		
1,710.0	1,710.0	1,710.0	1,710.0	5.5	5.5	89.55	0.9	120.3	120.3	110.0	10.35	11.628		
1,800.0	1,800.0	1,800.0	1,800.0	5.7	5.7	89.55	0.9	120.3	120.3	109.7	10.66	11.284		
1,805.0	1,805.0	1,805.0	1,805.0	5.7	5.7	89.55	0.9	120.3	120.3	109.6	10.68	11.265		
1,900.0	1,900.0	1,900.0	1,900.0	5.9	5.9	89.55	0.9	120.3	120.3	109.3	11.02	10.919		
1,995.0	1,995.0	1,995.0	1,995.0	6.1	6.1	89.55	0.9	120.3	120.3	109.0	11.36	10.591		
2,000.0	2,000.0	2,000.0	2,000.0	6.1	6.1	89.55	0.9	120.3	120.3	108.9	11.38	10.574 CC, ES		
2,090.0	2,090.0	2,086.3	2,086.3	6.2	6.2	179.70	1.0	121.6	123.1	111.3	11.76	10.468 SF		
2,100.0	2,100.0	2,095.9	2,095.8	6.2	6.2	179.70	1.0	121.9	123.7	111.9	11.80	10.486		
2,185.0	2,184.9	2,176.8	2,176.7	6.3	6.3	179.70	1.0	125.8	132.0	119.8	12.16	10.857		
2,200.0	2,199.8	2,191.1	2,190.9	6.3	6.3	179.70	1.0	126.7	134.0	121.7	12.22	10.962		
2,280.0	2,279.6	2,266.3	2,265.9	6.4	6.4	179.69	1.1	132.7	147.0	134.4	12.57	11.693		
2,300.0	2,299.5	2,284.9	2,284.5	6.5	6.4	179.69	1.1	134.5	150.9	138.3	12.66	11.922		
2,375.0	2,373.9	2,354.1	2,353.2	6.6	6.5	179.69	1.3	142.2	168.0	155.0	13.00	12.919		
2,400.0	2,398.7	2,376.9	2,375.8	6.6	6.6	179.69	1.3	145.1	174.5	161.3	13.11	13.303		
2,470.0	2,467.9	2,442.5	2,440.8	6.8	6.7	179.68	1.4	154.1	194.5	181.0	13.44	14.469		
2,500.0	2,497.5	2,471.1	2,469.1	6.9	6.8	179.68	1.5	158.1	203.6	190.0	13.58	14.991		
2,565.0	2,561.3	2,532.7	2,530.1	7.1	6.9	179.68	1.6	166.7	224.4	210.5	13.86	16.191		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,575.0	2,571.1	2,542.1	2,539.5	7.1	6.9	179.68	1.6	168.0	227.7	213.8	13.90	16.379	
2,600.0	2,595.6	2,565.7	2,562.8	7.1	7.0	179.68	1.7	171.2	236.0	222.0	14.00	16.864	
2,660.0	2,654.4	2,622.3	2,618.8	7.3	7.1	179.68	1.8	179.1	256.1	241.8	14.28	17.938	
2,700.0	2,693.6	2,660.0	2,656.1	7.4	7.2	179.69	1.9	184.4	269.4	255.0	14.46	18.627	
2,755.0	2,747.5	2,711.8	2,707.5	7.5	7.3	179.69	2.0	191.6	287.8	273.0	14.74	19.527	
2,800.0	2,791.6	2,754.2	2,749.5	7.6	7.4	179.69	2.1	197.5	302.8	287.8	14.97	20.232	
2,850.0	2,840.6	2,801.4	2,796.2	7.8	7.6	179.69	2.2	204.0	319.5	304.3	15.23	20.977	
2,900.0	2,889.6	2,848.5	2,842.8	7.9	7.7	179.69	2.3	210.6	336.2	320.7	15.50	21.688	
2,945.0	2,933.7	2,890.9	2,884.8	8.1	7.8	179.69	2.4	216.5	351.2	335.5	15.75	22.296	
3,000.0	2,987.6	2,942.8	2,936.2	8.2	8.0	179.69	2.5	223.7	369.6	353.5	16.06	23.005	
3,040.0	3,026.8	2,980.5	2,973.5	8.4	8.1	179.69	2.5	229.0	382.9	366.6	16.30	23.493	
3,100.0	3,085.6	3,037.0	3,029.5	8.6	8.2	179.70	2.6	236.8	402.9	386.3	16.65	24.194	
3,135.0	3,119.9	3,070.0	3,062.2	8.7	8.3	179.70	2.7	241.4	414.6	397.8	16.87	24.581	
3,200.0	3,183.6	3,131.3	3,122.9	8.9	8.5	179.70	2.8	250.0	436.3	419.1	17.27	25.268	
3,230.0	3,213.0	3,159.6	3,150.9	9.0	8.6	179.70	2.9	253.9	446.3	428.9	17.46	25.568	
3,300.0	3,281.6	3,225.6	3,216.2	9.3	8.8	179.70	3.0	263.1	469.7	451.8	17.90	26.238	
3,325.0	3,306.1	3,249.1	3,239.6	9.3	8.9	179.70	3.1	266.3	478.1	460.0	18.06	26.463	
3,400.0	3,379.6	3,319.8	3,309.6	9.6	9.1	179.70	3.2	276.2	503.1	484.5	18.56	27.113	
3,420.0	3,399.2	3,338.7	3,328.2	9.7	9.2	179.70	3.3	278.8	509.8	491.1	18.69	27.277	
3,500.0	3,477.6	3,414.1	3,402.9	10.0	9.4	179.70	3.4	289.3	536.5	517.2	19.23	27.905	
3,515.0	3,492.3	3,428.2	3,416.9	10.0	9.5	179.70	3.4	291.3	541.5	522.1	19.33	28.016	
3,600.0	3,575.6	3,508.3	3,496.3	10.4	9.8	179.70	3.6	302.4	569.8	549.9	19.91	28.621	
3,610.0	3,585.4	3,517.8	3,505.6	10.4	9.8	179.70	3.6	303.7	573.2	553.2	19.98	28.688	
3,700.0	3,673.6	3,602.6	3,589.6	10.7	10.1	179.70	3.8	315.5	603.2	582.6	20.61	29.270	
3,705.0	3,678.5	3,607.3	3,594.3	10.8	10.1	179.70	3.8	316.2	604.9	584.3	20.64	29.300	
3,800.0	3,771.6	3,696.9	3,683.0	11.1	10.4	179.70	4.0	328.7	636.6	615.3	21.32	29.858	
3,895.0	3,864.6	3,786.4	3,771.6	11.5	10.7	179.70	4.2	341.1	668.3	646.3	22.01	30.368	
3,900.0	3,869.5	3,791.1	3,776.3	11.5	10.8	179.70	4.2	341.8	670.0	647.9	22.04	30.393	
3,990.0	3,957.7	3,876.0	3,860.3	11.9	11.1	179.70	4.4	353.6	700.0	677.3	22.70	30.834	
4,000.0	3,967.5	3,885.4	3,869.7	11.9	11.1	179.70	4.4	354.9	703.4	680.6	22.78	30.881	
4,085.0	4,050.8	3,965.5	3,949.0	12.3	11.4	179.70	4.5	366.0	731.7	708.3	23.41	31.261	
4,100.0	4,065.5	3,979.7	3,963.0	12.3	11.4	179.70	4.6	368.0	736.7	713.2	23.52	31.326	
4,180.0	4,143.9	4,055.1	4,037.7	12.7	11.7	179.70	4.7	378.5	763.5	739.3	24.12	31.653	
4,200.0	4,163.5	4,073.9	4,056.3	12.7	11.8	179.70	4.8	381.1	770.1	745.9	24.27	31.732	
4,275.0	4,237.0	4,144.6	4,126.4	13.1	12.1	179.70	4.9	391.0	795.2	770.3	24.84	32.014	
4,300.0	4,261.5	4,168.2	4,149.7	13.2	12.1	179.70	5.0	394.2	803.5	778.5	25.03	32.105	
4,370.0	4,330.1	4,234.2	4,215.0	13.5	12.4	179.70	5.1	403.4	826.9	801.3	25.56	32.347	
4,400.0	4,359.5	4,262.5	4,243.0	13.6	12.5	179.70	5.1	407.4	836.9	811.1	25.79	32.447	
4,465.0	4,423.2	4,323.7	4,303.7	13.9	12.7	179.70	5.3	415.9	858.6	832.3	26.29	32.654	
4,500.0	4,457.5	4,356.7	4,336.4	14.0	12.9	179.70	5.3	420.5	870.3	843.7	26.56	32.761	
4,560.0	4,516.3	4,413.3	4,392.4	14.3	13.1	179.70	5.5	428.4	890.3	863.3	27.03	32.938	
4,600.0	4,555.5	4,451.0	4,429.7	14.4	13.2	179.71	5.5	433.6	903.6	876.3	27.34	33.051	
4,655.0	4,609.4	4,502.8	4,481.1	14.7	13.4	179.71	5.6	440.8	922.0	894.2	27.77	33.200	
4,700.0	4,653.5	4,545.3	4,523.1	14.9	13.6	179.71	5.7	446.7	937.0	908.9	28.12	33.318	
4,750.0	4,702.5	4,592.4	4,569.8	15.1	13.8	179.71	5.8	453.3	953.7	925.2	28.52	33.444	
4,800.0	4,751.5	4,639.5	4,616.4	15.3	14.0	179.71	5.9	459.8	970.4	941.5	28.91	33.565	
4,845.0	4,795.6	4,681.9	4,658.4	15.5	14.1	179.71	6.0	465.7	985.4	956.2	29.27	33.670	
4,900.0	4,849.5	4,733.8	4,709.8	15.7	14.3	179.71	6.1	473.0	1,003.8	974.1	29.70	33.794	
4,940.0	4,888.7	4,771.5	4,747.1	15.9	14.5	179.71	6.2	478.2	1,017.1	987.1	30.02	33.880	
5,000.0	4,947.5	4,828.1	4,803.1	16.2	14.7	179.71	6.3	486.1	1,037.2	1,006.7	30.50	34.006	
5,035.0	4,981.8	4,861.0	4,835.8	16.3	14.8	179.71	6.4	490.7	1,048.9	1,018.1	30.78	34.076	
5,100.0	5,045.5	4,922.3	4,896.5	16.6	15.1	179.71	6.5	499.2	1,070.5	1,039.2	31.30	34.203	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,130.0	5,074.9	4,950.6	4,924.5	16.7	15.2	179.71	6.6	503.1	1,080.6	1,049.0	31.54	34.259		
5,200.0	5,143.4	5,016.6	4,989.8	17.0	15.5	179.71	6.7	512.3	1,103.9	1,071.8	32.10	34.386		
5,225.0	5,167.9	5,040.1	5,013.2	17.1	15.6	179.71	6.7	515.6	1,112.3	1,080.0	32.31	34.430		
5,300.0	5,241.4	5,110.8	5,083.2	17.5	15.8	179.71	6.9	525.4	1,137.3	1,104.4	32.91	34.557		
5,320.0	5,261.0	5,129.7	5,101.8	17.6	15.9	179.71	6.9	528.0	1,144.0	1,110.9	33.07	34.590		
5,400.0	5,339.4	5,205.1	5,176.5	17.9	16.2	179.71	7.1	538.5	1,170.7	1,137.0	33.72	34.717		
5,415.0	5,354.1	5,219.2	5,190.5	18.0	16.3	179.71	7.1	540.5	1,175.7	1,141.9	33.84	34.740		
5,500.0	5,437.4	5,299.4	5,269.9	18.4	16.6	179.71	7.3	551.7	1,204.1	1,169.5	34.53	34.866		
5,510.0	5,447.2	5,308.8	5,279.2	18.4	16.6	179.71	7.3	553.0	1,207.4	1,172.8	34.62	34.880		
5,600.0	5,535.4	5,393.6	5,363.2	18.8	17.0	179.71	7.5	564.8	1,237.4	1,202.1	35.35	35.005		
5,605.0	5,540.3	5,398.3	5,367.9	18.8	17.0	179.71	7.5	565.4	1,239.1	1,203.7	35.39	35.012		
5,700.0	5,633.4	5,496.3	5,464.9	19.2	17.4	179.71	7.7	578.8	1,270.6	1,234.4	36.22	35.081		
5,795.0	5,726.5	5,597.5	5,565.3	19.7	17.8	179.71	7.9	591.8	1,301.3	1,264.2	37.08	35.092		
5,800.0	5,731.4	5,602.9	5,570.6	19.7	17.8	179.71	7.9	592.5	1,302.9	1,265.8	37.13	35.092		

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11062-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	89.59	1.1	150.3	150.3				
95.0	95.0	95.0	95.0	3.0	3.0	89.59	1.1	150.3	150.3	144.3	6.03	24.946	
100.0	100.0	100.0	100.0	3.0	3.0	89.59	1.1	150.3	150.3	144.3	6.03	24.932	
190.0	190.0	190.0	190.0	3.1	3.1	89.59	1.1	150.3	150.3	144.2	6.15	24.432	
200.0	200.0	200.0	200.0	3.1	3.1	89.59	1.1	150.3	150.3	144.1	6.17	24.355	
285.0	285.0	285.0	285.0	3.2	3.2	89.59	1.1	150.3	150.3	144.0	6.31	23.819	
300.0	300.0	300.0	300.0	3.2	3.2	89.59	1.1	150.3	150.3	144.0	6.34	23.712	
380.0	380.0	380.0	380.0	3.3	3.3	89.59	1.1	150.3	150.3	143.8	6.49	23.168	
400.0	400.0	400.0	400.0	3.3	3.3	89.59	1.1	150.3	150.3	143.8	6.53	23.022	
475.0	475.0	475.0	475.0	3.4	3.4	89.59	1.1	150.3	150.3	143.6	6.68	22.488	
500.0	500.0	500.0	500.0	3.4	3.4	89.59	1.1	150.3	150.3	143.6	6.74	22.303	
570.0	570.0	570.0	570.0	3.5	3.5	89.59	1.1	150.3	150.3	143.4	6.90	21.792	
600.0	600.0	600.0	600.0	3.5	3.5	89.59	1.1	150.3	150.3	143.3	6.97	21.568	
665.0	665.0	665.0	665.0	3.6	3.6	89.59	1.1	150.3	150.3	143.2	7.13	21.091	
700.0	700.0	700.0	700.0	3.7	3.7	89.59	1.1	150.3	150.3	143.1	7.22	20.832	
760.0	760.0	760.0	760.0	3.8	3.8	89.59	1.1	150.3	150.3	142.9	7.37	20.394	
800.0	800.0	800.0	800.0	3.8	3.8	89.59	1.1	150.3	150.3	142.8	7.48	20.102	
855.0	855.0	855.0	855.0	3.9	3.9	89.59	1.1	150.3	150.3	142.7	7.63	19.708	
900.0	900.0	900.0	900.0	4.0	4.0	89.59	1.1	150.3	150.3	142.6	7.75	19.387	
950.0	950.0	950.0	950.0	4.1	4.1	89.59	1.1	150.3	150.3	142.4	7.90	19.038	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.59	1.1	150.3	150.3	142.3	8.04	18.693	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.59	1.1	150.3	150.3	142.1	8.17	18.388	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.59	1.1	150.3	150.3	142.0	8.34	18.022	
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.59	1.1	150.3	150.3	141.9	8.46	17.762	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.59	1.1	150.3	150.3	141.7	8.65	17.378	
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.59	1.1	150.3	150.3	141.6	8.76	17.160	
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.59	1.1	150.3	150.3	141.3	8.97	16.762	
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.59	1.1	150.3	150.3	141.2	9.06	16.583	
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.59	1.1	150.3	150.3	141.0	9.29	16.174	
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.59	1.1	150.3	150.3	140.9	9.38	16.032	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.59	1.1	150.3	150.3	140.7	9.63	15.614 CC	
1,520.0	1,520.0	1,519.0	1,519.0	5.1	5.1	89.59	1.1	150.4	150.4	140.7	9.70	15.496 ES	
1,600.0	1,600.0	1,595.0	1,595.0	5.3	5.2	89.59	1.1	151.9	152.0	142.0	10.01	15.176	
1,615.0	1,615.0	1,609.2	1,609.2	5.3	5.2	89.59	1.1	152.4	152.5	142.4	10.07	15.139	
1,700.0	1,700.0	1,689.8	1,689.8	5.5	5.3	89.58	1.2	156.6	156.9	146.5	10.42	15.064 SF	
1,710.0	1,710.0	1,700.0	1,699.8	5.5	5.4	89.58	1.2	157.3	157.6	147.2	10.46	15.064	
1,800.0	1,800.0	1,784.1	1,783.6	5.7	5.5	89.56	1.3	164.4	165.2	154.4	10.83	15.253	
1,805.0	1,805.0	1,788.8	1,788.3	5.7	5.5	89.56	1.3	164.9	165.7	154.8	10.85	15.270	
1,900.0	1,900.0	1,877.9	1,876.8	5.9	5.8	89.54	1.4	175.2	176.7	165.5	11.25	15.708	
1,995.0	1,995.0	1,966.2	1,964.1	6.1	6.1	89.52	1.6	188.2	190.7	179.0	11.66	16.351	
2,000.0	2,000.0	1,970.8	1,968.7	6.1	6.1	89.52	1.6	188.9	191.5	179.8	11.68	16.391	
2,090.0	2,090.0	2,053.6	2,050.1	6.2	6.3	179.65	1.8	203.6	208.9	196.8	12.04	17.348	
2,100.0	2,100.0	2,063.3	2,059.7	6.2	6.3	179.65	1.8	205.5	211.1	199.0	12.08	17.473	
2,185.0	2,184.9	2,145.8	2,140.7	6.3	6.5	179.64	2.0	221.2	231.5	219.0	12.48	18.551	
2,200.0	2,199.8	2,160.3	2,154.9	6.3	6.6	179.64	2.0	224.0	235.3	222.8	12.55	18.746	
2,280.0	2,279.6	2,237.3	2,230.5	6.4	6.8	179.63	2.2	238.7	257.1	244.1	12.97	19.823	
2,300.0	2,299.5	2,256.5	2,249.3	6.5	6.8	179.63	2.3	242.3	262.9	249.8	13.08	20.104	
2,375.0	2,373.9	2,327.9	2,319.4	6.6	7.1	179.62	2.5	256.0	285.7	272.2	13.49	21.184	
2,400.0	2,398.7	2,351.6	2,342.6	6.6	7.1	179.62	2.5	260.5	293.8	280.1	13.63	21.556	
2,470.0	2,467.9	2,417.5	2,407.3	6.8	7.3	179.62	2.7	273.0	317.4	303.3	14.03	22.616	
2,500.0	2,497.5	2,445.5	2,434.9	6.9	7.4	179.62	2.7	278.4	328.0	313.8	14.21	23.083	
2,565.0	2,561.3	2,505.9	2,494.2	7.1	7.6	179.63	2.9	289.9	351.9	337.4	14.56	24.176	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11062-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,575.0	2,571.1	2,515.2	2,503.3	7.1	7.7	179.63	2.9	291.7	355.8	341.1	14.61	24.346	
2,600.0	2,595.6	2,538.3	2,525.9	7.1	7.7	179.63	3.0	296.1	365.3	350.6	14.74	24.791	
2,660.0	2,654.4	2,593.7	2,580.4	7.3	7.9	179.63	3.1	306.7	388.3	373.2	15.07	25.757	
2,700.0	2,693.6	2,630.7	2,616.6	7.4	8.1	179.63	3.2	313.7	403.6	388.3	15.30	26.372	
2,755.0	2,747.5	2,681.5	2,666.5	7.5	8.2	179.64	3.3	323.4	424.6	409.0	15.63	27.167	
2,800.0	2,791.6	2,723.1	2,707.3	7.6	8.4	179.64	3.4	331.4	441.9	426.0	15.90	27.789	
2,850.0	2,840.6	2,769.3	2,752.7	7.8	8.6	179.64	3.6	340.2	461.0	444.8	16.21	28.437	
2,900.0	2,889.6	2,815.4	2,798.0	7.9	8.7	179.65	3.7	349.0	480.1	463.6	16.52	29.058	
2,945.0	2,933.7	2,857.0	2,838.8	8.1	8.9	179.65	3.8	356.9	497.3	480.5	16.81	29.581	
3,000.0	2,987.6	2,907.8	2,888.7	8.2	9.1	179.65	3.9	366.6	518.4	501.2	17.17	30.194	
3,040.0	3,026.8	2,944.8	2,925.0	8.4	9.2	179.65	4.0	373.7	533.7	516.3	17.43	30.611	
3,100.0	3,085.6	3,000.2	2,979.4	8.6	9.4	179.65	4.1	384.2	556.7	538.8	17.83	31.212	
3,135.0	3,119.9	3,032.6	3,011.1	8.7	9.6	179.65	4.2	390.4	570.1	552.0	18.07	31.539	
3,200.0	3,183.6	3,092.6	3,070.1	8.9	9.8	179.66	4.4	401.9	594.9	576.4	18.52	32.123	
3,230.0	3,213.0	3,120.3	3,097.3	9.0	9.9	179.66	4.4	407.2	606.4	587.7	18.73	32.376	
3,300.0	3,281.6	3,185.0	3,160.8	9.3	10.2	179.66	4.6	419.5	633.2	614.0	19.22	32.942	
3,325.0	3,306.1	3,208.1	3,183.4	9.3	10.3	179.66	4.7	423.9	642.8	623.4	19.40	33.132	
3,400.0	3,379.6	3,277.4	3,251.5	9.6	10.5	179.66	4.8	437.1	671.5	651.5	19.94	33.677	
3,420.0	3,399.2	3,295.9	3,269.6	9.7	10.6	179.66	4.9	440.6	679.1	659.0	20.08	33.815	
3,500.0	3,477.6	3,369.8	3,342.2	10.0	10.9	179.66	5.1	454.7	709.7	689.1	20.67	34.340	
3,515.0	3,492.3	3,383.6	3,355.8	10.0	11.0	179.66	5.1	457.4	715.5	694.7	20.78	34.433	
3,600.0	3,575.6	3,462.2	3,432.8	10.4	11.3	179.67	5.3	472.4	748.0	726.6	21.41	34.938	
3,610.0	3,585.4	3,471.4	3,441.9	10.4	11.3	179.67	5.3	474.1	751.8	730.3	21.48	34.994	
3,700.0	3,673.6	3,554.6	3,523.5	10.7	11.7	179.67	5.5	490.0	786.3	764.1	22.16	35.478	
3,705.0	3,678.5	3,559.2	3,528.1	10.8	11.7	179.67	5.5	490.9	788.2	766.0	22.20	35.504	
3,800.0	3,771.6	3,646.9	3,614.2	11.1	12.1	179.67	5.7	507.6	824.5	801.6	22.92	35.968	
3,895.0	3,864.6	3,734.7	3,700.4	11.5	12.4	179.67	6.0	524.4	860.9	837.2	23.66	36.392	
3,900.0	3,869.5	3,739.3	3,704.9	11.5	12.5	179.67	6.0	525.3	862.8	839.1	23.69	36.413	
3,990.0	3,957.7	3,822.5	3,786.5	11.9	12.8	179.67	6.2	541.1	897.2	872.8	24.40	36.779	
4,000.0	3,967.5	3,831.7	3,795.6	11.9	12.9	179.67	6.2	542.9	901.1	876.6	24.47	36.818	
4,085.0	4,050.8	3,910.2	3,872.7	12.3	13.2	179.67	6.4	557.9	933.6	908.5	25.14	37.134	
4,100.0	4,065.5	3,924.1	3,886.3	12.3	13.2	179.67	6.4	560.5	939.3	914.1	25.26	37.188	
4,180.0	4,143.9	3,998.0	3,958.9	12.7	13.6	179.67	6.6	574.6	970.0	944.1	25.89	37.460	
4,200.0	4,163.5	4,016.5	3,977.0	12.7	13.6	179.67	6.7	578.1	977.6	951.6	26.05	37.525	
4,275.0	4,237.0	4,085.8	4,045.0	13.1	13.9	179.67	6.8	591.4	1,006.3	979.7	26.65	37.759	
4,300.0	4,261.5	4,108.9	4,067.7	13.2	14.0	179.68	6.9	595.8	1,015.9	989.0	26.85	37.835	
4,370.0	4,330.1	4,173.6	4,131.2	13.5	14.3	179.68	7.1	608.1	1,042.7	1,015.2	27.41	38.035	
4,400.0	4,359.5	4,201.3	4,158.4	13.6	14.4	179.68	7.1	613.4	1,054.1	1,026.5	27.65	38.119	
4,465.0	4,423.2	4,261.3	4,217.3	13.9	14.7	179.68	7.3	624.8	1,079.0	1,050.8	28.18	38.290	
4,500.0	4,457.5	4,293.7	4,249.1	14.0	14.8	179.68	7.4	631.0	1,092.4	1,063.9	28.46	38.380	
4,560.0	4,516.3	4,349.1	4,303.5	14.3	15.1	179.68	7.5	641.6	1,115.4	1,086.4	28.95	38.526	
4,600.0	4,555.5	4,386.0	4,339.8	14.4	15.2	179.68	7.6	648.6	1,130.7	1,101.4	29.28	38.620	
4,655.0	4,609.4	4,436.9	4,389.6	14.7	15.5	179.68	7.7	658.3	1,151.7	1,122.0	29.73	38.744	
4,700.0	4,653.5	4,478.4	4,430.4	14.9	15.7	179.68	7.8	666.3	1,168.9	1,138.9	30.09	38.842	
4,750.0	4,702.5	4,524.6	4,475.8	15.1	15.9	179.68	7.9	675.1	1,188.1	1,157.6	30.51	38.946	
4,800.0	4,751.5	4,570.8	4,521.1	15.3	16.1	179.68	8.1	683.9	1,207.2	1,176.3	30.92	39.047	
4,845.0	4,795.6	4,612.4	4,561.9	15.5	16.2	179.68	8.2	691.8	1,224.4	1,193.1	31.29	39.135	
4,900.0	4,849.5	4,663.2	4,611.8	15.7	16.5	179.68	8.3	701.5	1,245.5	1,213.7	31.74	39.238	
4,940.0	4,888.7	4,700.2	4,648.1	15.9	16.6	179.68	8.4	708.6	1,260.8	1,228.7	32.07	39.310	
5,000.0	4,947.5	4,755.6	4,702.5	16.2	16.9	179.68	8.5	719.1	1,283.7	1,251.2	32.57	39.414	
5,035.0	4,981.8	4,787.9	4,734.3	16.3	17.0	179.68	8.6	725.3	1,297.1	1,264.3	32.86	39.473	

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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31ft @ 3195.0usft

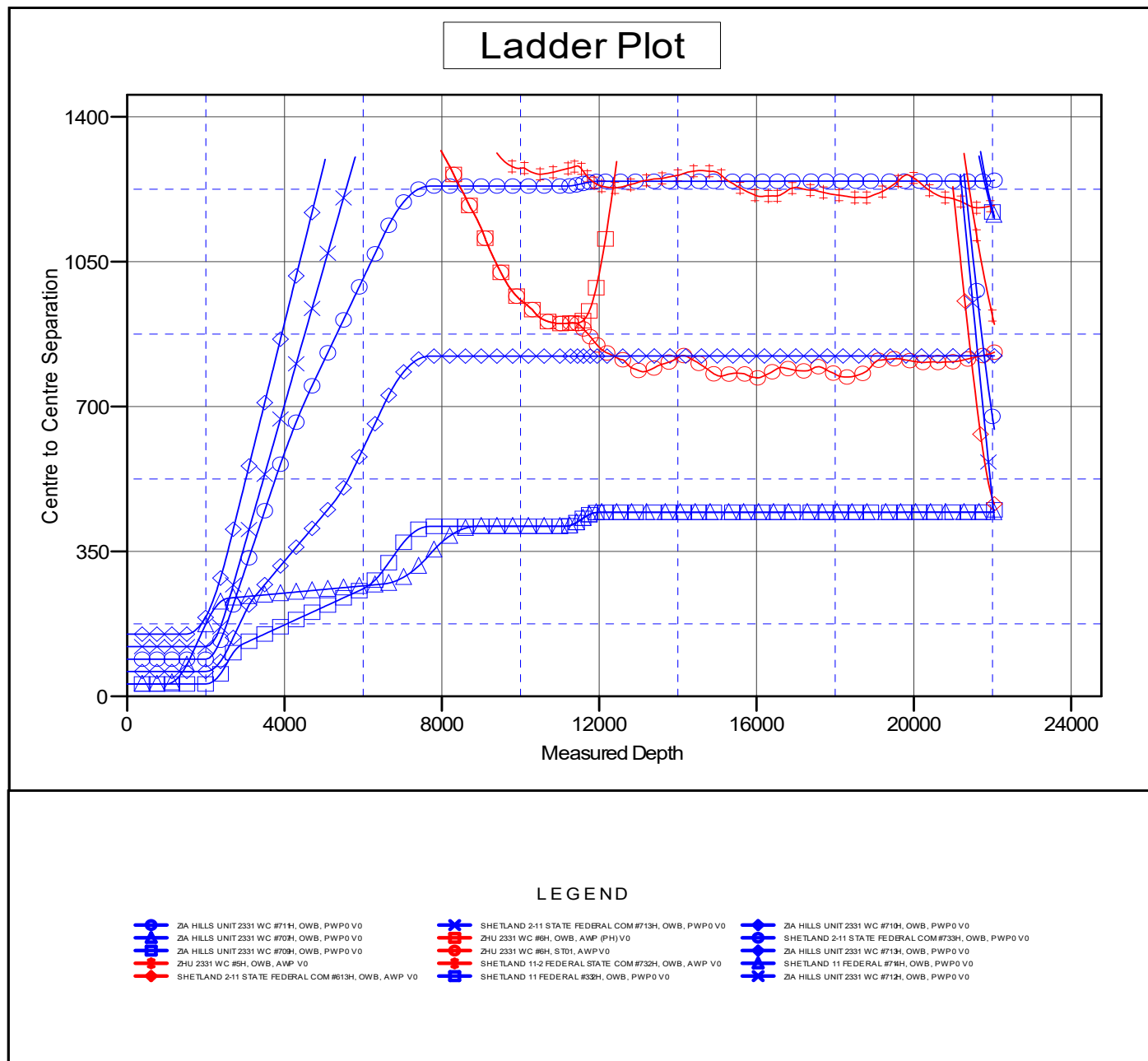
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2331 WC #708H

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

Grid Convergence at Surface is: 0.31°



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 ZIA HILLS UNIT 2331 WC #708H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=31ft @ 3195.0usft
Reference Site:	ZIA HILLS UNIT 2331 PROJECT	MD Reference:	KB=31ft @ 3195.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=31ft @ 3195.0usft

Offset Depths are relative to Offset Datum

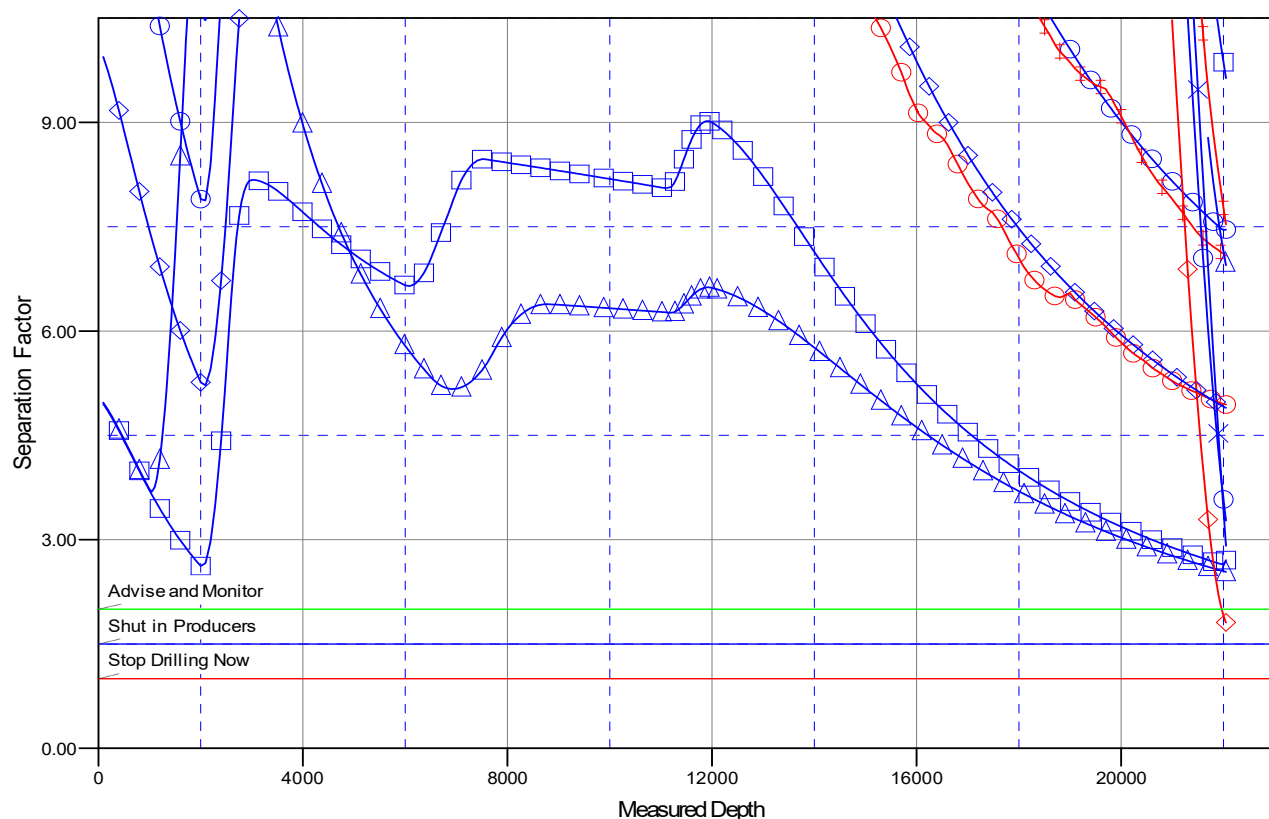
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2331 WC #708H

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

Grid Convergence at Surface is: 0.31°

Separation Factor Plot



LEGEND

● ZIA HILLS UNIT 2331 WC #711H, OWB, PWP0 V0	✕ SHELTLAND 2-11 STATE FEDERAL COM #713H, OWB, PWP0 V0	● ZIA HILLS UNIT 2331 WC #710H, OWB, PWP0 V0
■ ZIA HILLS UNIT 2331 WC #708H, OWB, PWP0 V0	■ ZHU 2331 WC #6H, OWB, AWP (PH) V0	● SHELTLAND 2-11 STATE FEDERAL COM #733H, OWB, PWP0 V0
▲ ZIA HILLS UNIT 2331 WC #709H, OWB, PWP0 V0	■ ZHU 2331 WC #6H, ST01, AWP V0	● ZIA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
● ZHU 2331 WC #5H, OWB, AWP V0	■ SHELTLAND 11-2 FEDERAL STATE COM #732H, OWB, AWP V0	● SHELTLAND 11 FEDERAL #714H, OWB, PWP0 V0
● SHELTLAND 2-11 STATE FEDERAL COM #613H, OWB, AWP V0	■ SHELTLAND 11 FEDERAL #323H, OWB, PWP0 V0	● ZIA HILLS UNIT 2331 WC #712H, OWB, PWP0 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)

ZIA HILLS UNIT 2331 PROJECT

ZIA HILLS UNIT 2331 WC #708H

OWB

Plan: PWP0

Standard Planning Report

16 November, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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

Site	ZIA HILLS UNIT 2331 PROJECT					
Site Position:		Northing:	371,734.97 usft	Latitude:	32° 1' 14.533 N	
From:	Map	Easting:	678,649.42 usft	Longitude:	103° 45' 24.875 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.31

Well	ZIA HILLS UNIT 2331 WC #708H					
Well Position	+N/-S	105.5 usft	Northing:	371,840.49 usft	Latitude:	32° 1' 15.352 N
	+E/-W	4,214.7 usft	Easting:	682,864.14 usft	Longitude:	103° 44' 35.914 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,164.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.34	59.52	47,263.54767720

Design	PWP0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	354.26	

Plan Survey Tool Program	Date	11/16/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,000.0 PWP0 (OWB)	r.5 SDI_KPR_ADK SDI Keeper ADK rev.5		
2	2,000.0	11,237.8 PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,237.8	22,049.9 PWP0 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,575.0	11.50	269.85	2,571.1	-0.2	-57.5	2.00	2.00	0.00	269.85	
6,543.5	11.50	269.85	6,460.0	-2.2	-848.7	0.00	0.00	0.00	0.00	
7,693.5	0.00	0.00	7,602.3	-2.6	-963.7	1.00	-1.00	0.00	180.00	
11,237.8	0.00	0.00	11,146.5	-2.6	-963.7	0.00	0.00	0.00	0.00	
11,987.8	90.00	359.48	11,624.0	474.9	-968.1	12.00	12.00	-0.07	359.48	
22,049.9	90.00	359.48	11,624.0	10,536.6	-1,059.8	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	2.00	269.85	2,100.0	0.0	-1.7	0.2	2.00	2.00	0.00
2,200.0	4.00	269.85	2,199.8	0.0	-7.0	0.7	2.00	2.00	0.00
2,300.0	6.00	269.85	2,299.5	0.0	-15.7	1.5	2.00	2.00	0.00
2,400.0	8.00	269.85	2,398.7	-0.1	-27.9	2.7	2.00	2.00	0.00
2,500.0	10.00	269.85	2,497.5	-0.1	-43.5	4.2	2.00	2.00	0.00
2,575.0	11.50	269.85	2,571.1	-0.2	-57.5	5.6	2.00	2.00	0.00
2,600.0	11.50	269.85	2,595.6	-0.2	-62.5	6.1	0.00	0.00	0.00
2,700.0	11.50	269.85	2,693.6	-0.2	-82.4	8.0	0.00	0.00	0.00
2,800.0	11.50	269.85	2,791.6	-0.3	-102.4	10.0	0.00	0.00	0.00
2,900.0	11.50	269.85	2,889.6	-0.3	-122.3	11.9	0.00	0.00	0.00
3,000.0	11.50	269.85	2,987.6	-0.4	-142.2	13.9	0.00	0.00	0.00
3,100.0	11.50	269.85	3,085.6	-0.4	-162.2	15.8	0.00	0.00	0.00
3,200.0	11.50	269.85	3,183.6	-0.5	-182.1	17.7	0.00	0.00	0.00
3,300.0	11.50	269.85	3,281.6	-0.5	-202.1	19.7	0.00	0.00	0.00
3,400.0	11.50	269.85	3,379.6	-0.6	-222.0	21.6	0.00	0.00	0.00
3,500.0	11.50	269.85	3,477.6	-0.6	-241.9	23.6	0.00	0.00	0.00
3,600.0	11.50	269.85	3,575.6	-0.7	-261.9	25.5	0.00	0.00	0.00
3,700.0	11.50	269.85	3,673.6	-0.7	-281.8	27.5	0.00	0.00	0.00
3,800.0	11.50	269.85	3,771.6	-0.8	-301.7	29.4	0.00	0.00	0.00
3,900.0	11.50	269.85	3,869.5	-0.9	-321.7	31.3	0.00	0.00	0.00
4,000.0	11.50	269.85	3,967.5	-0.9	-341.6	33.3	0.00	0.00	0.00
4,100.0	11.50	269.85	4,065.5	-1.0	-361.5	35.2	0.00	0.00	0.00
4,200.0	11.50	269.85	4,163.5	-1.0	-381.5	37.2	0.00	0.00	0.00
4,300.0	11.50	269.85	4,261.5	-1.1	-401.4	39.1	0.00	0.00	0.00
4,400.0	11.50	269.85	4,359.5	-1.1	-421.4	41.1	0.00	0.00	0.00
4,500.0	11.50	269.85	4,457.5	-1.2	-441.3	43.0	0.00	0.00	0.00
4,600.0	11.50	269.85	4,555.5	-1.2	-461.2	44.9	0.00	0.00	0.00
4,700.0	11.50	269.85	4,653.5	-1.3	-481.2	46.9	0.00	0.00	0.00
4,800.0	11.50	269.85	4,751.5	-1.3	-501.1	48.8	0.00	0.00	0.00
4,900.0	11.50	269.85	4,849.5	-1.4	-521.0	50.8	0.00	0.00	0.00
5,000.0	11.50	269.85	4,947.5	-1.4	-541.0	52.7	0.00	0.00	0.00
5,100.0	11.50	269.85	5,045.5	-1.5	-560.9	54.7	0.00	0.00	0.00
5,200.0	11.50	269.85	5,143.4	-1.5	-580.9	56.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	11.50	269.85	5,241.4	-1.6	-600.8	58.5	0.00	0.00	0.00
5,400.0	11.50	269.85	5,339.4	-1.6	-620.7	60.5	0.00	0.00	0.00
5,500.0	11.50	269.85	5,437.4	-1.7	-640.7	62.4	0.00	0.00	0.00
5,600.0	11.50	269.85	5,535.4	-1.7	-660.6	64.4	0.00	0.00	0.00
5,700.0	11.50	269.85	5,633.4	-1.8	-680.5	66.3	0.00	0.00	0.00
5,800.0	11.50	269.85	5,731.4	-1.9	-700.5	68.3	0.00	0.00	0.00
5,900.0	11.50	269.85	5,829.4	-1.9	-720.4	70.2	0.00	0.00	0.00
6,000.0	11.50	269.85	5,927.4	-2.0	-740.3	72.1	0.00	0.00	0.00
6,100.0	11.50	269.85	6,025.4	-2.0	-760.3	74.1	0.00	0.00	0.00
6,200.0	11.50	269.85	6,123.4	-2.1	-780.2	76.0	0.00	0.00	0.00
6,300.0	11.50	269.85	6,221.4	-2.1	-800.2	78.0	0.00	0.00	0.00
6,400.0	11.50	269.85	6,319.4	-2.2	-820.1	79.9	0.00	0.00	0.00
6,500.0	11.50	269.85	6,417.4	-2.2	-840.0	81.9	0.00	0.00	0.00
6,543.5	11.50	269.85	6,460.0	-2.2	-848.7	82.7	0.00	0.00	0.00
6,600.0	10.94	269.85	6,515.4	-2.3	-859.7	83.8	1.00	-1.00	0.00
6,700.0	9.94	269.85	6,613.7	-2.3	-877.8	85.5	1.00	-1.00	0.00
6,800.0	8.94	269.85	6,712.4	-2.4	-894.2	87.1	1.00	-1.00	0.00
6,900.0	7.94	269.85	6,811.3	-2.4	-908.9	88.6	1.00	-1.00	0.00
7,000.0	6.94	269.85	6,910.5	-2.4	-921.8	89.8	1.00	-1.00	0.00
7,100.0	5.94	269.85	7,009.8	-2.5	-933.0	90.9	1.00	-1.00	0.00
7,200.0	4.94	269.85	7,109.4	-2.5	-942.5	91.8	1.00	-1.00	0.00
7,300.0	3.94	269.85	7,209.1	-2.5	-950.2	92.6	1.00	-1.00	0.00
7,400.0	2.94	269.85	7,308.9	-2.5	-956.2	93.2	1.00	-1.00	0.00
7,500.0	1.94	269.85	7,408.8	-2.5	-960.5	93.6	1.00	-1.00	0.00
7,600.0	0.94	269.85	7,508.8	-2.5	-963.0	93.8	1.00	-1.00	0.00
7,693.5	0.00	0.00	7,602.3	-2.6	-963.7	93.9	1.00	-1.00	0.00
7,700.0	0.00	0.00	7,608.8	-2.6	-963.7	93.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,708.8	-2.6	-963.7	93.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,808.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,908.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,008.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,108.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,208.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,308.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,408.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,508.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,608.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,708.8	-2.6	-963.7	93.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,808.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,908.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,100.0	0.00	0.00	9,008.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,108.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,208.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,308.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,408.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,508.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,608.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,708.8	-2.6	-963.7	93.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,808.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,908.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,008.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,108.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,208.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,308.8	-2.6	-963.7	93.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,408.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,508.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,608.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,708.8	-2.6	-963.7	93.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,808.8	-2.6	-963.7	93.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,908.8	-2.6	-963.7	93.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,008.8	-2.6	-963.7	93.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,108.8	-2.6	-963.7	93.9	0.00	0.00	0.00
11,237.8	0.00	0.00	11,146.5	-2.6	-963.7	93.9	0.00	0.00	0.00
11,250.0	1.47	359.48	11,158.8	-2.4	-963.7	94.1	12.00	12.00	0.00
11,275.0	4.47	359.48	11,183.7	-1.1	-963.7	95.4	12.00	12.00	0.00
11,300.0	7.47	359.48	11,208.6	1.5	-963.8	97.9	12.00	12.00	0.00
11,325.0	10.47	359.48	11,233.3	5.4	-963.8	101.8	12.00	12.00	0.00
11,350.0	13.47	359.48	11,257.7	10.6	-963.8	107.0	12.00	12.00	0.00
11,375.0	16.47	359.48	11,281.9	17.0	-963.9	113.4	12.00	12.00	0.00
11,400.0	19.47	359.48	11,305.7	24.7	-964.0	121.1	12.00	12.00	0.00
11,425.0	22.47	359.48	11,329.0	33.7	-964.1	130.0	12.00	12.00	0.00
11,450.0	25.47	359.48	11,351.9	43.8	-964.2	140.1	12.00	12.00	0.00
11,475.0	28.47	359.48	11,374.1	55.2	-964.3	151.4	12.00	12.00	0.00
11,500.0	31.47	359.48	11,395.8	67.7	-964.4	163.8	12.00	12.00	0.00
11,525.0	34.47	359.48	11,416.8	81.3	-964.5	177.4	12.00	12.00	0.00
11,550.0	37.47	359.48	11,437.0	96.0	-964.6	192.0	12.00	12.00	0.00
11,575.0	40.47	359.48	11,456.4	111.7	-964.8	207.7	12.00	12.00	0.00
11,600.0	43.47	359.48	11,475.0	128.4	-964.9	224.3	12.00	12.00	0.00
11,625.0	46.47	359.48	11,492.7	146.1	-965.1	241.9	12.00	12.00	0.00
11,650.0	49.47	359.48	11,509.4	164.6	-965.3	260.4	12.00	12.00	0.00
11,675.0	52.47	359.48	11,525.2	184.0	-965.4	279.7	12.00	12.00	0.00
11,700.0	55.47	359.48	11,539.9	204.2	-965.6	299.9	12.00	12.00	0.00
11,725.0	58.47	359.48	11,553.5	225.2	-965.8	320.7	12.00	12.00	0.00
11,750.0	61.47	359.48	11,566.0	246.8	-966.0	342.3	12.00	12.00	0.00
11,775.0	64.47	359.48	11,577.4	269.1	-966.2	364.5	12.00	12.00	0.00
11,800.0	67.47	359.48	11,587.6	291.9	-966.4	387.2	12.00	12.00	0.00
11,825.0	70.47	359.48	11,596.5	315.3	-966.6	410.4	12.00	12.00	0.00
11,850.0	73.47	359.48	11,604.3	339.0	-966.8	434.1	12.00	12.00	0.00
11,875.0	76.47	359.48	11,610.7	363.2	-967.1	458.1	12.00	12.00	0.00
11,900.0	79.47	359.48	11,616.0	387.6	-967.3	482.5	12.00	12.00	0.00
11,925.0	82.47	359.48	11,619.9	412.3	-967.5	507.1	12.00	12.00	0.00
11,950.0	85.47	359.48	11,622.5	437.2	-967.7	531.8	12.00	12.00	0.00
11,975.0	88.47	359.48	11,623.8	462.1	-968.0	556.7	12.00	12.00	0.00
11,987.8	90.00	359.48	11,624.0	474.9	-968.1	569.4	12.00	12.00	0.00
12,000.0	90.00	359.48	11,624.0	487.1	-968.2	581.6	0.00	0.00	0.00
12,100.0	90.00	359.48	11,624.0	587.1	-969.1	681.2	0.00	0.00	0.00
12,200.0	90.00	359.48	11,624.0	687.1	-970.0	780.8	0.00	0.00	0.00
12,300.0	90.00	359.48	11,624.0	787.1	-970.9	880.3	0.00	0.00	0.00
12,400.0	90.00	359.48	11,624.0	887.1	-971.8	979.9	0.00	0.00	0.00
12,500.0	90.00	359.48	11,624.0	987.1	-972.8	1,079.5	0.00	0.00	0.00
12,600.0	90.00	359.48	11,624.0	1,087.1	-973.7	1,179.1	0.00	0.00	0.00
12,700.0	90.00	359.48	11,624.0	1,187.1	-974.6	1,278.7	0.00	0.00	0.00
12,800.0	90.00	359.48	11,624.0	1,287.1	-975.5	1,378.3	0.00	0.00	0.00
12,900.0	90.00	359.48	11,624.0	1,387.1	-976.4	1,477.8	0.00	0.00	0.00
13,000.0	90.00	359.48	11,624.0	1,487.1	-977.3	1,577.4	0.00	0.00	0.00
13,100.0	90.00	359.48	11,624.0	1,587.1	-978.2	1,677.0	0.00	0.00	0.00
13,200.0	90.00	359.48	11,624.0	1,687.1	-979.1	1,776.6	0.00	0.00	0.00
13,300.0	90.00	359.48	11,624.0	1,787.1	-980.0	1,876.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	359.48	11,624.0	1,887.1	-981.0	1,975.8	0.00	0.00	0.00
13,500.0	90.00	359.48	11,624.0	1,987.1	-981.9	2,075.4	0.00	0.00	0.00
13,600.0	90.00	359.48	11,624.0	2,087.1	-982.8	2,174.9	0.00	0.00	0.00
13,700.0	90.00	359.48	11,624.0	2,187.1	-983.7	2,274.5	0.00	0.00	0.00
13,800.0	90.00	359.48	11,624.0	2,287.1	-984.6	2,374.1	0.00	0.00	0.00
13,900.0	90.00	359.48	11,624.0	2,387.1	-985.5	2,473.7	0.00	0.00	0.00
14,000.0	90.00	359.48	11,624.0	2,487.0	-986.4	2,573.3	0.00	0.00	0.00
14,100.0	90.00	359.48	11,624.0	2,587.0	-987.3	2,672.9	0.00	0.00	0.00
14,200.0	90.00	359.48	11,624.0	2,687.0	-988.3	2,772.5	0.00	0.00	0.00
14,300.0	90.00	359.48	11,624.0	2,787.0	-989.2	2,872.0	0.00	0.00	0.00
14,400.0	90.00	359.48	11,624.0	2,887.0	-990.1	2,971.6	0.00	0.00	0.00
14,500.0	90.00	359.48	11,624.0	2,987.0	-991.0	3,071.2	0.00	0.00	0.00
14,600.0	90.00	359.48	11,624.0	3,087.0	-991.9	3,170.8	0.00	0.00	0.00
14,700.0	90.00	359.48	11,624.0	3,187.0	-992.8	3,270.4	0.00	0.00	0.00
14,800.0	90.00	359.48	11,624.0	3,287.0	-993.7	3,370.0	0.00	0.00	0.00
14,900.0	90.00	359.48	11,624.0	3,387.0	-994.6	3,469.5	0.00	0.00	0.00
15,000.0	90.00	359.48	11,624.0	3,487.0	-995.6	3,569.1	0.00	0.00	0.00
15,100.0	90.00	359.48	11,624.0	3,587.0	-996.5	3,668.7	0.00	0.00	0.00
15,200.0	90.00	359.48	11,624.0	3,687.0	-997.4	3,768.3	0.00	0.00	0.00
15,300.0	90.00	359.48	11,624.0	3,787.0	-998.3	3,867.9	0.00	0.00	0.00
15,400.0	90.00	359.48	11,624.0	3,887.0	-999.2	3,967.5	0.00	0.00	0.00
15,500.0	90.00	359.48	11,624.0	3,987.0	-1,000.1	4,067.1	0.00	0.00	0.00
15,600.0	90.00	359.48	11,624.0	4,087.0	-1,001.0	4,166.6	0.00	0.00	0.00
15,700.0	90.00	359.48	11,624.0	4,187.0	-1,001.9	4,266.2	0.00	0.00	0.00
15,800.0	90.00	359.48	11,624.0	4,287.0	-1,002.8	4,365.8	0.00	0.00	0.00
15,900.0	90.00	359.48	11,624.0	4,387.0	-1,003.8	4,465.4	0.00	0.00	0.00
16,000.0	90.00	359.48	11,624.0	4,487.0	-1,004.7	4,565.0	0.00	0.00	0.00
16,100.0	90.00	359.48	11,624.0	4,587.0	-1,005.6	4,664.6	0.00	0.00	0.00
16,200.0	90.00	359.48	11,624.0	4,687.0	-1,006.5	4,764.2	0.00	0.00	0.00
16,300.0	90.00	359.48	11,624.0	4,787.0	-1,007.4	4,863.7	0.00	0.00	0.00
16,400.0	90.00	359.48	11,624.0	4,886.9	-1,008.3	4,963.3	0.00	0.00	0.00
16,500.0	90.00	359.48	11,624.0	4,986.9	-1,009.2	5,062.9	0.00	0.00	0.00
16,600.0	90.00	359.48	11,624.0	5,086.9	-1,010.1	5,162.5	0.00	0.00	0.00
16,700.0	90.00	359.48	11,624.0	5,186.9	-1,011.1	5,262.1	0.00	0.00	0.00
16,800.0	90.00	359.48	11,624.0	5,286.9	-1,012.0	5,361.7	0.00	0.00	0.00
16,900.0	90.00	359.48	11,624.0	5,386.9	-1,012.9	5,461.2	0.00	0.00	0.00
17,000.0	90.00	359.48	11,624.0	5,486.9	-1,013.8	5,560.8	0.00	0.00	0.00
17,100.0	90.00	359.48	11,624.0	5,586.9	-1,014.7	5,660.4	0.00	0.00	0.00
17,200.0	90.00	359.48	11,624.0	5,686.9	-1,015.6	5,760.0	0.00	0.00	0.00
17,300.0	90.00	359.48	11,624.0	5,786.9	-1,016.5	5,859.6	0.00	0.00	0.00
17,400.0	90.00	359.48	11,624.0	5,886.9	-1,017.4	5,959.2	0.00	0.00	0.00
17,500.0	90.00	359.48	11,624.0	5,986.9	-1,018.3	6,058.8	0.00	0.00	0.00
17,600.0	90.00	359.48	11,624.0	6,086.9	-1,019.3	6,158.3	0.00	0.00	0.00
17,700.0	90.00	359.48	11,624.0	6,186.9	-1,020.2	6,257.9	0.00	0.00	0.00
17,800.0	90.00	359.48	11,624.0	6,286.9	-1,021.1	6,357.5	0.00	0.00	0.00
17,900.0	90.00	359.48	11,624.0	6,386.9	-1,022.0	6,457.1	0.00	0.00	0.00
18,000.0	90.00	359.48	11,624.0	6,486.9	-1,022.9	6,556.7	0.00	0.00	0.00
18,100.0	90.00	359.48	11,624.0	6,586.9	-1,023.8	6,656.3	0.00	0.00	0.00
18,200.0	90.00	359.48	11,624.0	6,686.9	-1,024.7	6,755.9	0.00	0.00	0.00
18,300.0	90.00	359.48	11,624.0	6,786.9	-1,025.6	6,855.4	0.00	0.00	0.00
18,400.0	90.00	359.48	11,624.0	6,886.9	-1,026.6	6,955.0	0.00	0.00	0.00
18,500.0	90.00	359.48	11,624.0	6,986.9	-1,027.5	7,054.6	0.00	0.00	0.00
18,600.0	90.00	359.48	11,624.0	7,086.9	-1,028.4	7,154.2	0.00	0.00	0.00
18,700.0	90.00	359.48	11,624.0	7,186.9	-1,029.3	7,253.8	0.00	0.00	0.00

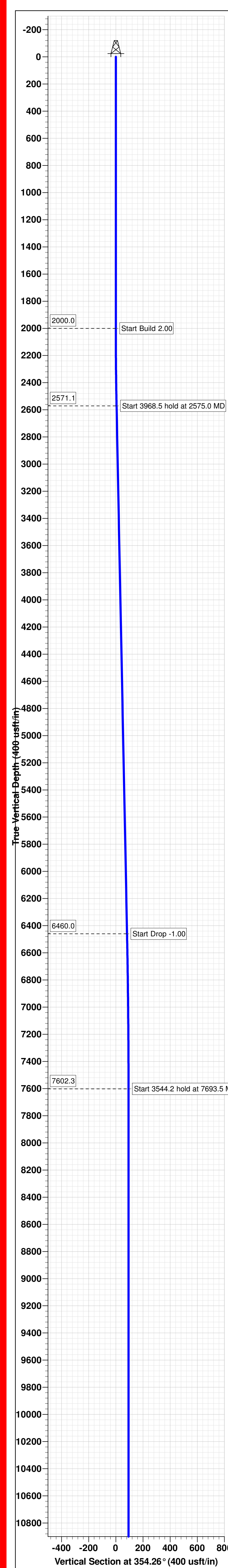
ConocoPhillips

Planning Report

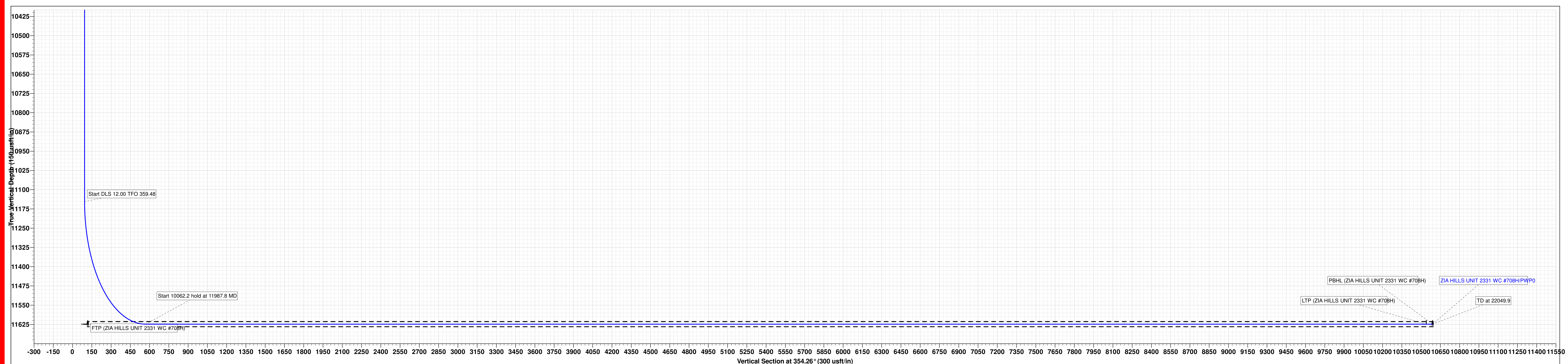
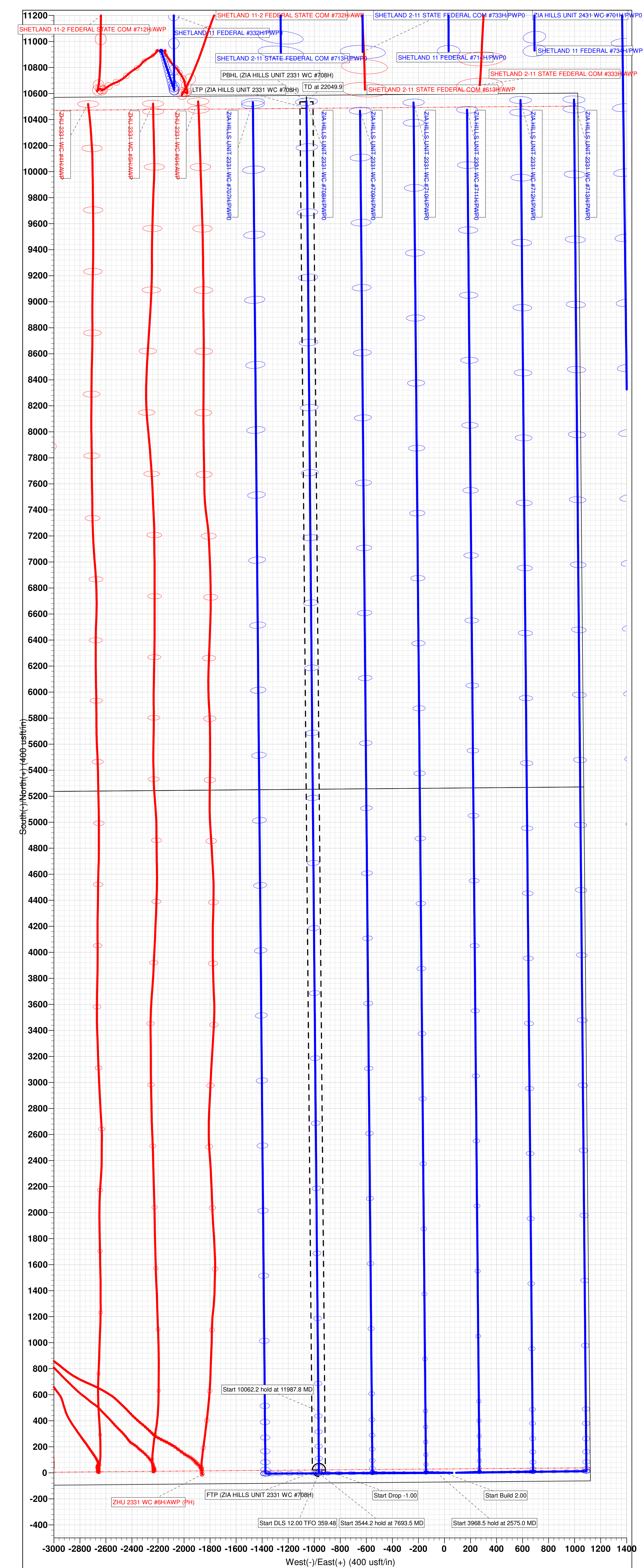
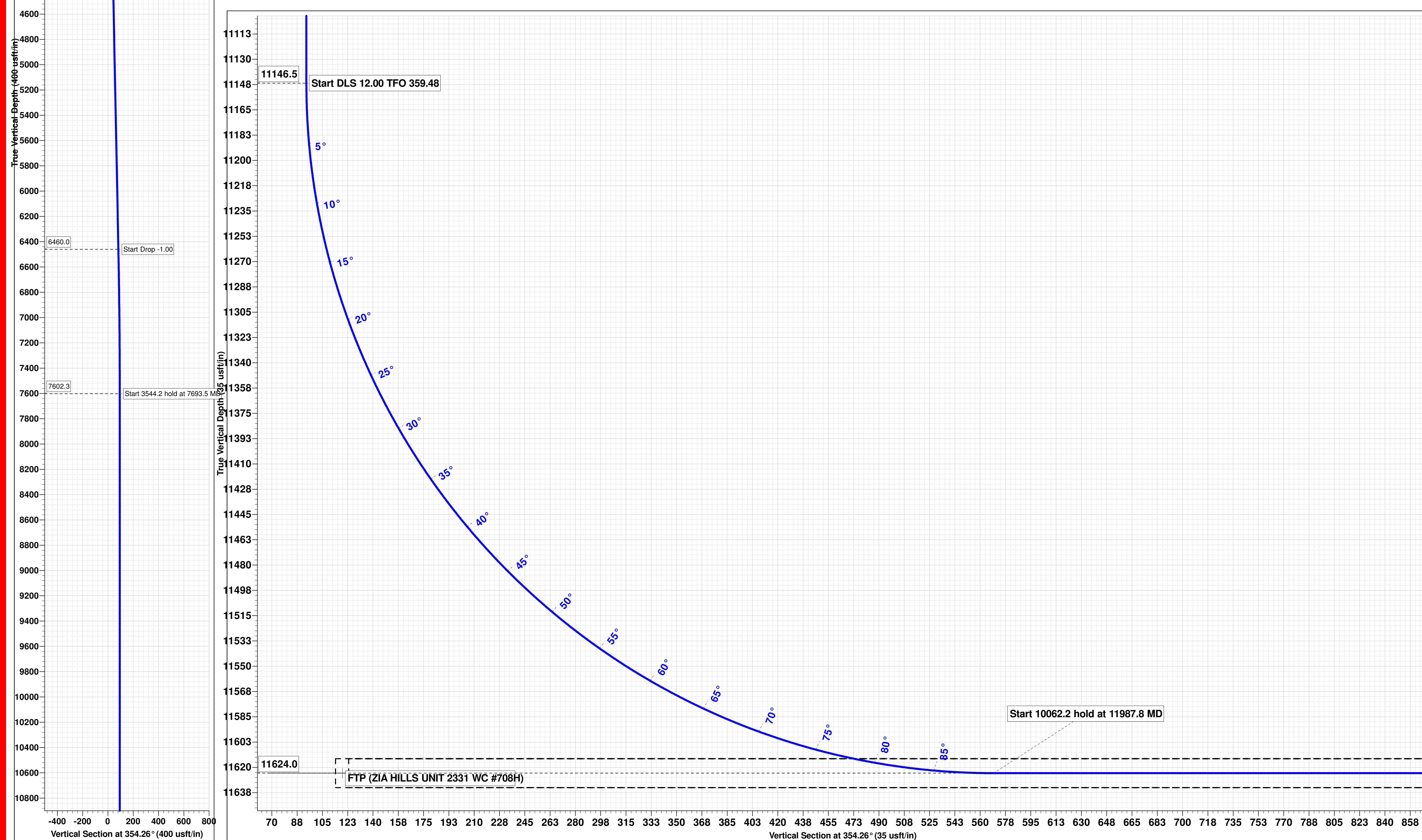
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=31ft @ 3195.0usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=31ft @ 3195.0usft
Site:	ZIA HILLS UNIT 2331 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2331 WC #708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,800.0	90.00	359.48	11,624.0	7,286.8	-1,030.2	7,353.4	0.00	0.00	0.00	
18,900.0	90.00	359.48	11,624.0	7,386.8	-1,031.1	7,453.0	0.00	0.00	0.00	
19,000.0	90.00	359.48	11,624.0	7,486.8	-1,032.0	7,552.5	0.00	0.00	0.00	
19,100.0	90.00	359.48	11,624.0	7,586.8	-1,032.9	7,652.1	0.00	0.00	0.00	
19,200.0	90.00	359.48	11,624.0	7,686.8	-1,033.9	7,751.7	0.00	0.00	0.00	
19,300.0	90.00	359.48	11,624.0	7,786.8	-1,034.8	7,851.3	0.00	0.00	0.00	
19,400.0	90.00	359.48	11,624.0	7,886.8	-1,035.7	7,950.9	0.00	0.00	0.00	
19,500.0	90.00	359.48	11,624.0	7,986.8	-1,036.6	8,050.5	0.00	0.00	0.00	
19,600.0	90.00	359.48	11,624.0	8,086.8	-1,037.5	8,150.0	0.00	0.00	0.00	
19,700.0	90.00	359.48	11,624.0	8,186.8	-1,038.4	8,249.6	0.00	0.00	0.00	
19,800.0	90.00	359.48	11,624.0	8,286.8	-1,039.3	8,349.2	0.00	0.00	0.00	
19,900.0	90.00	359.48	11,624.0	8,386.8	-1,040.2	8,448.8	0.00	0.00	0.00	
20,000.0	90.00	359.48	11,624.0	8,486.8	-1,041.1	8,548.4	0.00	0.00	0.00	
20,100.0	90.00	359.48	11,624.0	8,586.8	-1,042.1	8,648.0	0.00	0.00	0.00	
20,200.0	90.00	359.48	11,624.0	8,686.8	-1,043.0	8,747.6	0.00	0.00	0.00	
20,300.0	90.00	359.48	11,624.0	8,786.8	-1,043.9	8,847.1	0.00	0.00	0.00	
20,400.0	90.00	359.48	11,624.0	8,886.8	-1,044.8	8,946.7	0.00	0.00	0.00	
20,500.0	90.00	359.48	11,624.0	8,986.8	-1,045.7	9,046.3	0.00	0.00	0.00	
20,600.0	90.00	359.48	11,624.0	9,086.8	-1,046.6	9,145.9	0.00	0.00	0.00	
20,700.0	90.00	359.48	11,624.0	9,186.8	-1,047.5	9,245.5	0.00	0.00	0.00	
20,800.0	90.00	359.48	11,624.0	9,286.8	-1,048.4	9,345.1	0.00	0.00	0.00	
20,900.0	90.00	359.48	11,624.0	9,386.8	-1,049.4	9,444.7	0.00	0.00	0.00	
21,000.0	90.00	359.48	11,624.0	9,486.8	-1,050.3	9,544.2	0.00	0.00	0.00	
21,100.0	90.00	359.48	11,624.0	9,586.8	-1,051.2	9,643.8	0.00	0.00	0.00	
21,200.0	90.00	359.48	11,624.0	9,686.7	-1,052.1	9,743.4	0.00	0.00	0.00	
21,300.0	90.00	359.48	11,624.0	9,786.7	-1,053.0	9,843.0	0.00	0.00	0.00	
21,400.0	90.00	359.48	11,624.0	9,886.7	-1,053.9	9,942.6	0.00	0.00	0.00	
21,500.0	90.00	359.48	11,624.0	9,986.7	-1,054.8	10,042.2	0.00	0.00	0.00	
21,600.0	90.00	359.48	11,624.0	10,086.7	-1,055.7	10,141.7	0.00	0.00	0.00	
21,700.0	90.00	359.48	11,624.0	10,186.7	-1,056.6	10,241.3	0.00	0.00	0.00	
21,800.0	90.00	359.48	11,624.0	10,286.7	-1,057.6	10,340.9	0.00	0.00	0.00	
21,900.0	90.00	359.48	11,624.0	10,386.7	-1,058.5	10,440.5	0.00	0.00	0.00	
22,000.0	90.00	359.48	11,624.0	10,486.7	-1,059.4	10,540.1	0.00	0.00	0.00	
22,049.9	90.00	359.48	11,624.0	10,536.6	-1,059.8	10,589.8	0.00	0.00	0.00	

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP (ZIA HILLS UNIT 23 - plan misses target center by 0.1usft at 21999.9usft MD (11624.0 TVD, 10486.7 N, -1059.4 E) - Point	0.00	0.00	11,624.0	10,486.6	-1,059.4	382,327.14	681,804.70	32° 2' 59.187 N	103° 44' 47.558 W	
FTP (ZIA HILLS UNIT 23 - plan misses target center by 180.3usft at 11625.0usft MD (11492.7 TVD, 146.1 N, -965.1 E) - Circle (radius 50.0)	0.00	0.00	11,624.0	22.5	-963.9	371,862.97	681,900.21	32° 1' 15.627 N	103° 44' 47.109 W	
PBHL (ZIA HILLS UNIT 23 - plan hits target center - Rectangle (sides W100.0 H10,514.9 D20.0)	0.00	179.48	11,624.0	10,536.6	-1,059.8	382,377.13	681,804.30	32° 2' 59.682 N	103° 44' 47.559 W	



WELL DETAILS: ZIA HILLS UNIT 2331 WC #708H									
+N-S 0.0	+E-W 0.0	Northing 371840.49	Easting 682864.14	Latitude 32° 1' 15.352 N	Longitude 103° 44' 35.914 W				
DESIGN TARGET DETAILS									
Name			TVD	+N-S	+E-W	Northing	Easting		
FTP (ZIA HILLS UNIT 2331 WC #708H)			11624.0	22.5	-963.9	371862.97	681900.21		
LTP (ZIA HILLS UNIT 2331 WC #708H)			11624.0	10486.7	-1059.4	382327.14	681804.70		
PBHL (ZIA HILLS UNIT 2331 WC #708H)			11624.0	10536.6	-1059.8	382377.13	681804.30		
SECTION DETAILS									
	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSection
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0
	2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	0.0
	2575.0	11.50	269.85	2571.1	-0.2	-57.5	2.00	269.85	5.6
	6543.5	11.50	269.85	6460.0	-2.3	-848.7	0.00	0.00	82.7
	7693.5	0.00	0.00	7602.3	-2.6	-963.7	1.00	180.00	93.9
	11237.8	0.00	0.00	11146.5	-2.6	-963.7	0.00	0.00	93.9
	11987.8	90.00	359.48	11624.0	474.9	-968.1	12.00	359.48	569.4
	22049.9	90.00	359.48	11624.0	10536.6	-1059.8	0.00	0.00	10589.8



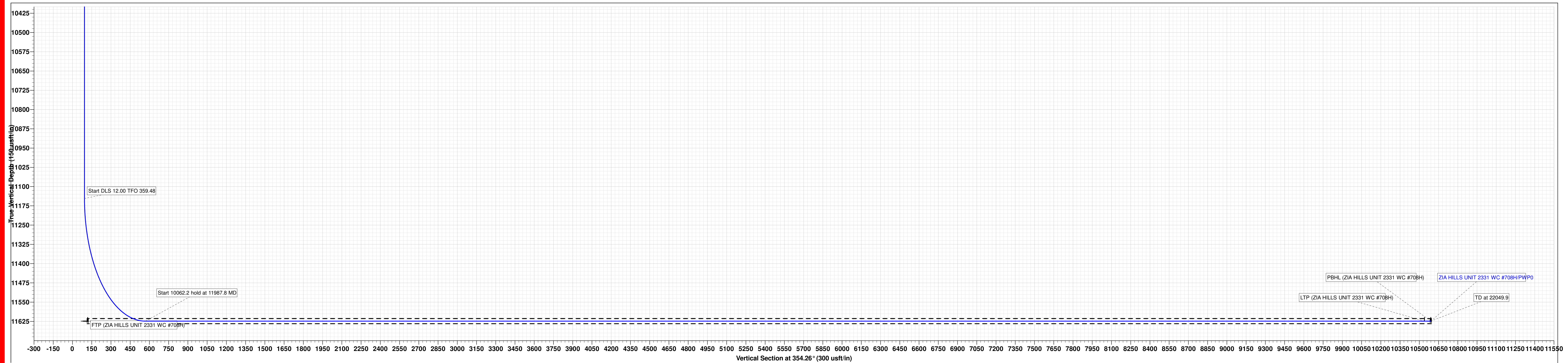
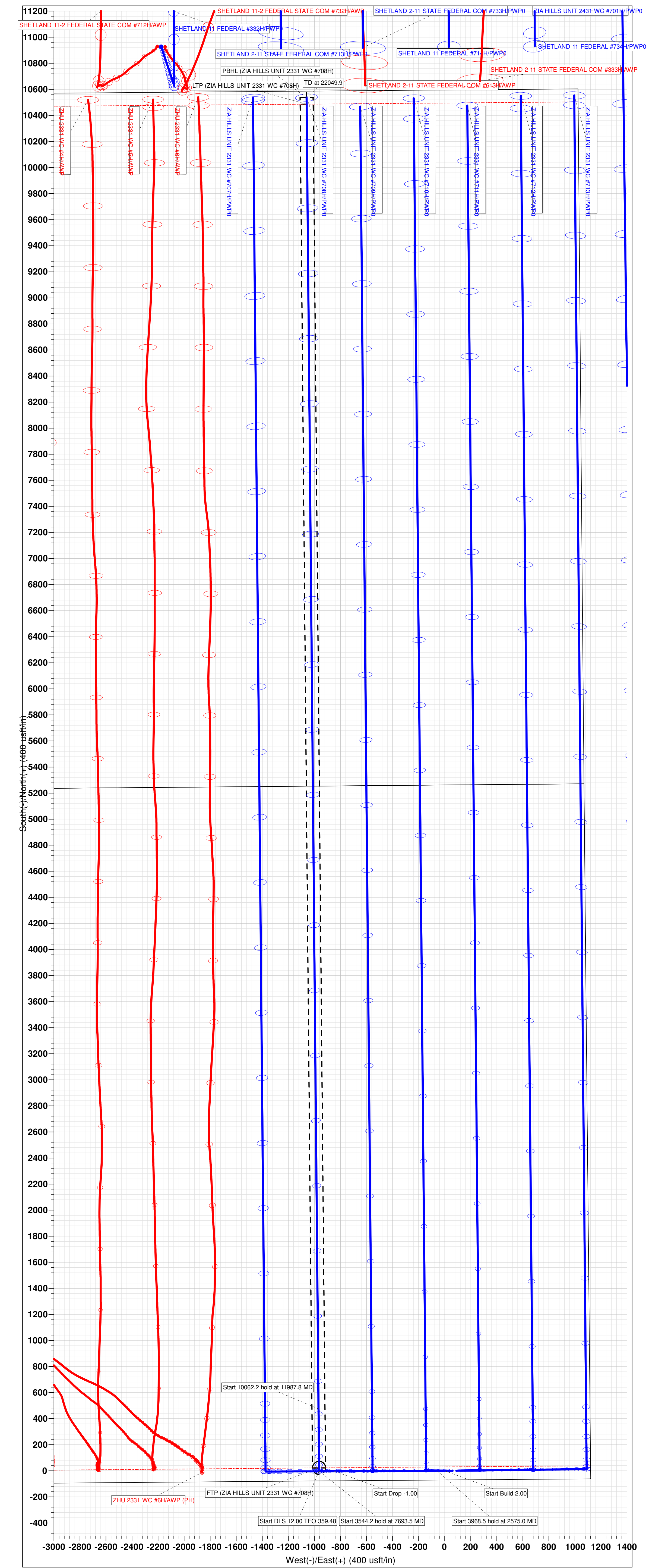
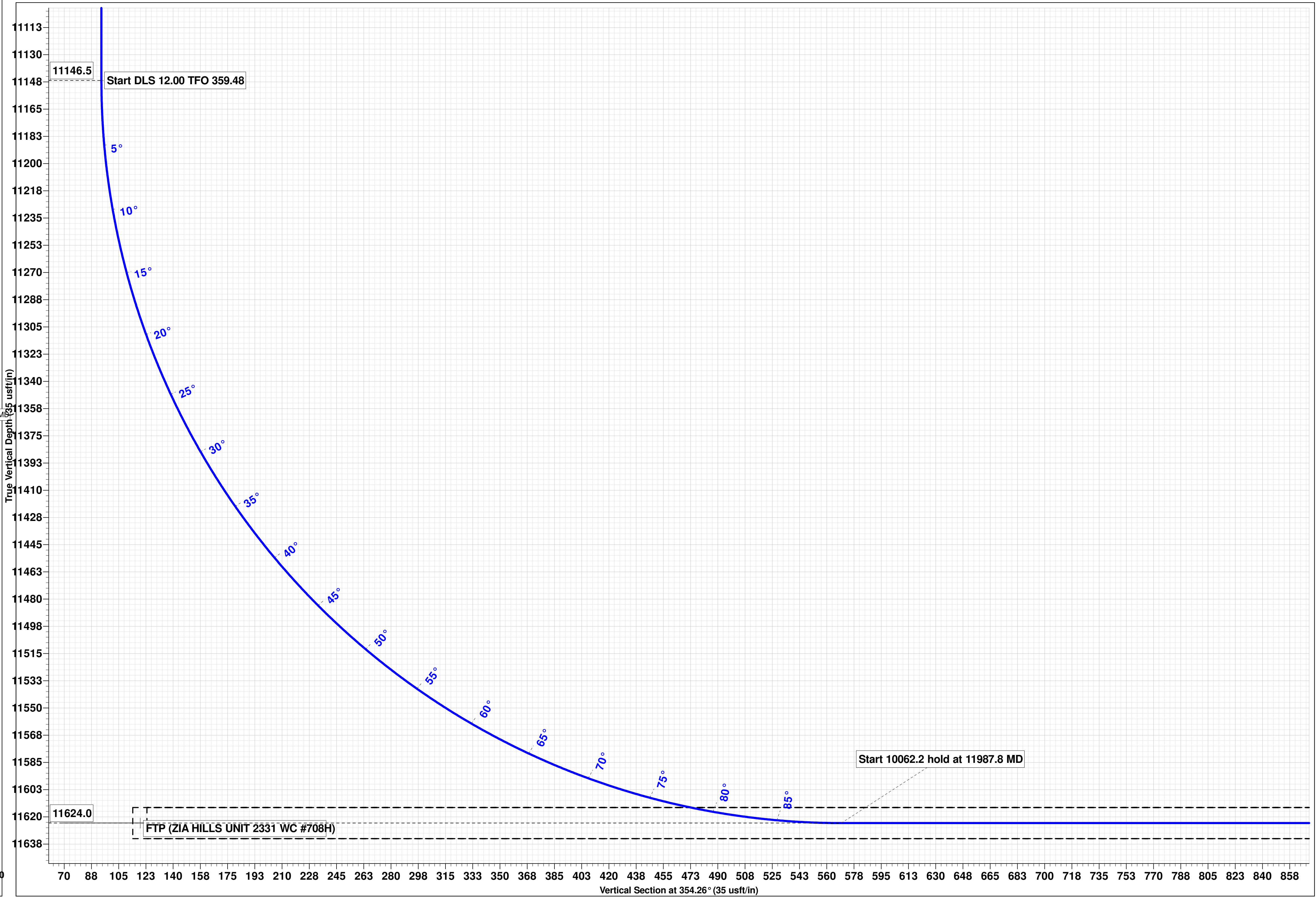
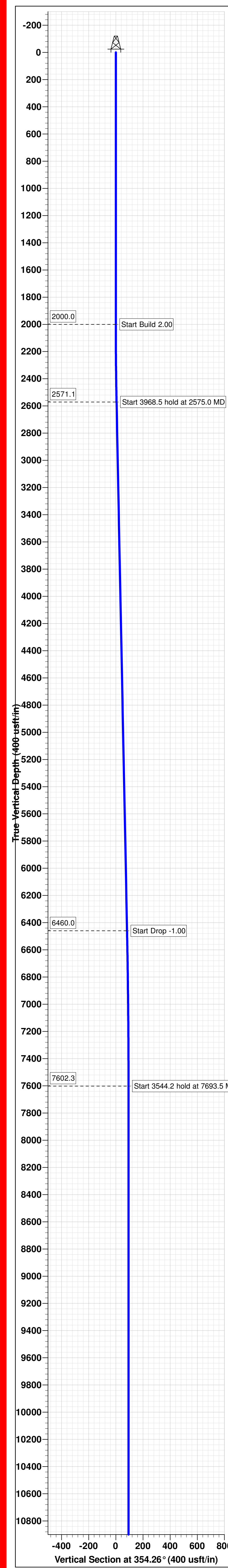


Project: BULLDOG PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2331 PROJECT
Well: ZIA HILLS UNIT 2331 WC #708H
Wellbore: OWB
Design: PWP0
GL: 3164.0
KB=31ft @ 3195.0usft

WELL DETAILS: ZIA HILLS UNIT 2331 WC #708H						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	371840.49	682864.14	32° 1' 15.352 N	103° 44' 35.914 W	

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	
FTP (ZIA HILLS UNIT 2331 WC #708H)	11624.0	22.5	-963.9	371862.97	681900.21	
LTP (ZIA HILLS UNIT 2331 WC #708H)	11624.0	10466.7	-1059.4	382327.14	681804.70	
PBHL (ZIA HILLS UNIT 2331 WC #708H)	11624.0	10536.6	-1059.8	382377.13	681804.30	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
2575.0	11.50	269.85	2571.1	-0.2	-57.5	2.00	269.85	5.6	
6543.5	11.50	269.85	6480.0	-2.2	-849.7	0.00	0.00	82.7	
7693.5	0.00	0.00	7602.3	-2.6	-963.7	1.00	180.00	93.9	
11237.8	0.00	0.00	11146.5	-2.6	-963.7	0.00	0.00	93.9	
11987.8	90.00	359.48	11624.0	474.9	-968.1	12.00	359.48	569.4	
22049.9	90.00	359.48	11624.0	10536.6	-1059.8	0.00	0.00	10589.8	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips
LEASE NO.:	NMLC064756
LOCATION:	Section 23, T.26 S, R.31 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Zia Hills Unit 2331 WC 708H
SURFACE HOLE FOOTAGE:	70'/S & 1120'/E
BOTTOM HOLE FOOTAGE:	50'/N & 2084'/E

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Brushy Canyon and Cherry Canyon** formation. As a result, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1050** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

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

 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)**Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure

- rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE.

If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 10/17/2023

CONOCOPHILLIPS
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

CONOCOPHILLIPS has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED**
- 2. HARD HATS REQUIRED**
- 3. SMOKING IN DESIGNATED AREAS ONLY**
- 4. BE WIND CONSCIOUS AT ALL TIMES**
- 5. CK WITH CONOCOPHILLIPS FOREMAN AT MAIN OFFICE**

CONOCOPHILLIPS

1-575-748-6940

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 288931

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288931
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	12/8/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	12/8/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	12/8/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	12/8/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	12/8/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	12/8/2023