

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. 30-015-54440
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)



Additional Operator Remarks

Location of Well

0. SHL: SESE / 70 FSL / 1090 FEL / TWSP: 26S / RANGE: 31E / SECTION: 23 / LAT: 32.0210565 / LONG: -103.7436853 (TVD: 0 feet, MD: 0 feet)

PPP: SWSE / 100 FSL / 1673 FEL / TWSP: 26S / RANGE: 31E / SECTION: 23 / LAT: 32.0211353 / LONG: -103.7455652 (TVD: 11322 feet, MD: 11406 feet)

BHL: NWNE / 50 FNL / 1673 FEL / TWSP: 26S / RANGE: 31E / SECTION: 14 / LAT: 32.0500397 / LONG: -103.7456914 (TVD: 11532 feet, MD: 21760 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- 54440		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 709H
7 OGRID No. 217817		8 Operator Name CONOCOPHILLIPS COMPANY			9 Elevation 3164.30'

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	1090'	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	1673'	EAST	EDDY

12 Dedicated Acres 640	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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=724080.98 LAT.= 32.02105653° N Y=371897.84 LONG.= 103.74368534° W 70' FSL, 1090' FEL - SECTION 23 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=723498.19 LAT.= 32.02113534° N Y=371923.34 LONG.= 103.74556528° W 100' FSL, 1673' FEL - SECTION 23 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=723401.87 LAT.= 32.04990229° N Y=382387.92 LONG.= 103.74569235° W 100' FNL, 1673' FEL - SECTION 14 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=723401.87 LAT.= 32.05003972° N Y=382437.92 LONG.= 103.74569147° W 50' FNL, 1673' 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. 10/21/2022 Date of Survey Signature and Seal of Professional Surveyor: <i>Charles C. Surica</i> 25490 Certificate Number
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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 709H	30-015-	P-23-26S-31E	70' FSL & 1090' FEL 50' FNL & 1673' 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 709H	Pending	4/28/2024	± 25 days from spud	8/26/2024	9/10/2024	9/15/2024

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 709H

1. Geologic Formations

TVD of target	11,532' EOL	Pilot hole depth	NA
MD at TD:	21,760'	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	6465	Oil/Gas	
BSPG	8116	Oil/Gas	
BS1S	9152	Oil/Gas	
BS2S	9803	Oil/Gas	
BS3C	10275	Oil/Gas	
BS3S	10972	Oil/Gas	
WFMP	11355	Oil/Gas	
Wolfcamp A Sand	11532	Target Oil/Gas	
WFMP B	11883	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	1.15	2.88	2.88
8.750"	8500	10,900	7.625"	29.7	P110-ICY	W513	1.38	1.75	3.30	1.98
6.75"	0	10400	5.5"	23	P110-CY	TXP BTC	2.15	2.54	3.05	3.05
6.75"	10400	21,760	5.5"	23	P110-CY	W441	1.94	2.29	2.75	2.50
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 709H

	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 709H

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.	800	10.5	3.5	22.3	24	NeoCem
Stage 1	250	16.4	1.08	4.52	7	Tail: Class H
Prod	578	12.5	1.67	10.7	72	Lead: 50:50:10 H Blend
	896	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	10,400'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2331 WC 709H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	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 709H

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
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6. Logging and Testing Procedures

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

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

ConocoPhillips Company - Zia Hills Unit 2331 WC 709H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7500 psi at 11532' TVD
Abnormal Temperature	NO 170 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

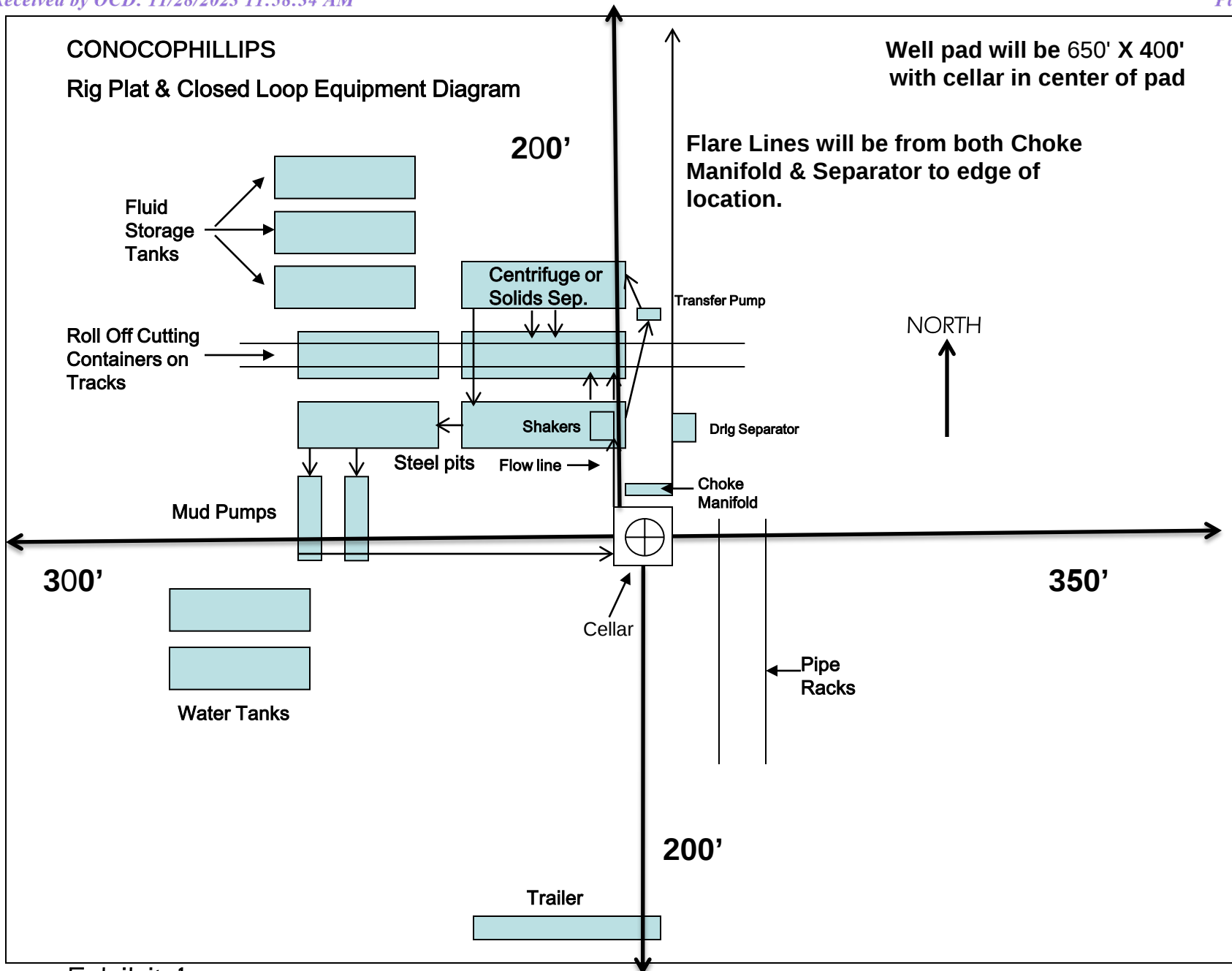


Exhibit 1

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
ZIA HILLS UNIT 2331 PROJECT
ZIA HILLS UNIT 2331 WC #709H**

**OWB
PWP0**

Anticollision Report

16 November, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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	2,500.0	PWP0 (OWB)	r.5 SDI_KPR_ADK	SDI Keeper ADK rev.5
2,500.0	11,019.6	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
11,019.6	21,760.3	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
SHETLAND 11 FEDERAL #332H - OWB - PWP0						Out of range
SHETLAND 11 FEDERAL #714H - OWB - PWP0	21,760.3	16,466.2	843.2	693.9	5.648	CC, ES, SF
SHETLAND 11 FEDERAL #734H - OWB - PWP0						Out of range
SHETLAND 11-2 FEDERAL STATE COM #712H - OWB						Out of range
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	21,760.3	11,741.9	1,302.0	1,181.7	10.820	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	21,760.3	21,907.0	943.8	686.0	3.661	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	21,760.3	22,089.0	190.1	65.0	1.520	Advise and Monitor, CC, ES,
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	21,760.3	21,917.2	786.9	571.4	3.651	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	21,760.3	22,097.6	643.6	510.3	4.830	CC, ES, SF
ZHU 2331 WC #3H - OWB - AWP						Out of range
ZHU 2331 WC #4H - OWB - AWP						Out of range
ZHU 2331 WC #5H - OWB - AWP						Out of range
ZHU 2331 WC #6H - OWB - AWP (PH)	11,013.0	11,136.9	1,311.2	1,274.0	35.241	CC
ZHU 2331 WC #6H - OWB - AWP (PH)	11,025.0	11,147.3	1,311.2	1,274.0	35.231	ES
ZHU 2331 WC #6H - OWB - AWP (PH)	11,325.0	11,428.1	1,314.3	1,276.8	35.047	SF
ZHU 2331 WC #6H - ST01 - AWP	15,814.1	16,053.2	1,198.5	1,117.4	14.774	CC
ZHU 2331 WC #6H - ST01 - AWP	20,900.0	21,131.0	1,239.8	1,086.7	8.099	ES
ZHU 2331 WC #6H - ST01 - AWP	21,760.3	21,971.2	1,255.7	1,090.1	7.585	SF
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	1,000.0	1,000.0	59.8	51.7	7.434	CC, ES
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	21,760.3	21,846.2	822.2	650.4	4.785	SF
ZIA HILLS UNIT 2331 WC #708H - 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	2,500.0	2,501.0	30.1	16.8	2.273	CC, ES, SF
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	2,000.0	2,000.0	60.0	48.6	5.275	CC, ES
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	21,760.3	21,724.9	822.0	656.7	4.973	SF
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	2,000.0	2,000.0	90.5	79.1	7.952	CC, ES
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	21,760.3	21,925.7	1,244.5	1,077.3	7.445	SF
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,500.0	1,500.0	120.5	110.9	12.515	CC
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,520.0	1,519.2	120.6	110.8	12.422	ES
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	1,615.0	1,610.3	122.7	112.6	12.177	SF

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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 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 #709H
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 #709H	Survey Calculation Method:	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	21,760.3	14,160.0				Out of Range @TD
SHETLAND 11 FEDERAL #332H - OWB - PWP0	21,760.3	11,218.6				Out of Range @TD
SHETLAND 11 FEDERAL #714H - OWB - PWP0	21,760.3	16,466.2	843.2	693.9	5.648	CC, ES, SF
SHETLAND 11 FEDERAL #734H - OWB - PWP0	21,760.3	16,703.1				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #712H - OWB	21,760.3	11,602.0				Out of Range @TD
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	21,760.3	11,741.9	1,302.0	1,181.7	10.820	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	21,760.3	21,907.0	943.8	686.0	3.661	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	21,760.3	22,089.0	190.1	65.0	1.520	Advise and Monitor, CC, ES,
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	21,760.3	21,917.2	786.9	571.4	3.651	CC, ES, SF
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	21,760.3	22,097.6	643.6	510.3	4.830	CC, ES, SF
ZHU 2331 WC #3H - OWB - AWP	21,760.3	21,717.9				Out of Range @TD
ZHU 2331 WC #4H - OWB - AWP	21,760.3	21,909.3				Out of Range @TD
ZHU 2331 WC #5H - OWB - AWP	21,760.3	21,887.5				Out of Range @TD
ZHU 2331 WC #6H - OWB - AWP (PH)	21,760.3	11,172.3				Out of Range @TD
ZHU 2331 WC #6H - ST01 - AWP	21,760.3	21,971.2	1,255.7	1,090.1	7.585	SF
ZIA HILLS UNIT 2331 WC #707H - OWB - PWP0	21,760.3	21,846.2	822.2	650.4	4.785	SF
ZIA HILLS UNIT 2331 WC #708H - OWB - PWP0	21,760.3	21,977.8	444.9	276.6	2.642	
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	21,760.3	21,897.0	445.1	278.8	2.677	
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	21,760.3	21,724.9	822.0	656.7	4.973	SF
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	21,760.3	21,925.7	1,244.5	1,077.3	7.445	SF
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	21,760.3	21,804.6				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	21,760.3	22,100.8				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	21,760.3	21,915.1				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	21,760.3	22,051.6				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	21,760.3	21,890.7				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	21,760.3	22,090.3				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	21,760.3	21,959.5				Out of Range @TD

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
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
21,185.0	11,454.0	16,466.2	11,736.9	79.2	88.0	106.11	10,925.5	2.3	1,249.4	1,136.7	112.72	11.084	
21,200.0	11,454.0	16,466.2	11,736.9	79.3	88.0	106.11	10,925.5	2.3	1,237.1	1,123.7	113.43	10.907	
21,280.0	11,454.0	16,466.2	11,736.9	79.9	88.0	106.11	10,925.5	2.3	1,172.6	1,055.2	117.41	9.987	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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
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)			
21,300.0	11,454.0	16,466.2	11,736.9	80.0	88.0	106.11	10,925.5	2.3	1,156.8	1,038.3	118.47	9.764	
21,375.0	11,454.0	16,466.2	11,736.9	80.6	88.0	106.11	10,925.5	2.3	1,098.7	976.0	122.66	8.957	
21,400.0	11,454.0	16,466.2	11,736.9	80.8	88.0	106.11	10,925.5	2.3	1,079.7	955.6	124.14	8.698	
21,470.0	11,454.0	16,466.2	11,736.9	81.3	88.0	106.11	10,925.5	2.3	1,028.2	899.7	128.49	8.002	
21,500.0	11,454.0	16,466.2	11,736.9	81.5	88.0	106.11	10,925.5	2.3	1,006.7	876.3	130.45	7.718	
21,565.0	11,454.0	16,466.2	11,736.9	82.0	88.0	106.11	10,925.5	2.3	961.9	827.0	134.88	7.132	
21,600.0	11,454.0	16,466.2	11,736.9	82.2	88.0	106.11	10,925.5	2.3	938.7	801.4	137.36	6.834	
21,660.0	11,454.0	16,466.2	11,736.9	82.7	88.0	106.11	10,925.5	2.3	900.8	759.1	141.74	6.355	
21,700.0	11,454.0	16,466.2	11,736.9	83.0	88.0	106.11	10,925.5	2.3	876.9	732.2	144.73	6.059	
21,755.0	11,454.0	16,466.2	11,736.9	83.4	88.0	106.11	10,925.5	2.3	846.0	697.1	148.88	5.682	
21,760.3	11,454.0	16,466.2	11,736.9	83.4	88.0	106.11	10,925.5	2.3	843.2	693.9	149.28	5.648	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 #709H
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 #709H	Survey Calculation Method:	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 11-2 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		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)	
21,755.0	11,454.0	11,738.8	11,555.3	83.4	42.0	-92.75	10,895.9	-1,906.2	1,303.8	1,183.6	120.24	10.843		
21,760.3	11,454.0	11,741.9	11,556.5	83.4	42.0	-92.80	10,898.5	-1,905.2	1,302.0	1,181.7	120.33	10.820 CC, ES, SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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 #333H - 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		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)			
21,090.0	11,454.0	21,907.0	11,495.6	78.5	178.7	85.00	10,664.6	241.7	1,261.8	1,062.8	199.02	6.340	
21,100.0	11,454.0	21,907.0	11,495.6	78.6	178.7	85.00	10,664.6	241.7	1,255.1	1,055.1	199.94	6.277	
21,185.0	11,454.0	21,907.0	11,495.6	79.2	178.7	85.00	10,664.6	241.7	1,199.2	991.3	207.94	5.767	
21,200.0	11,454.0	21,907.0	11,495.6	79.3	178.7	85.00	10,664.6	241.7	1,189.8	980.4	209.39	5.682	
21,280.0	11,454.0	21,907.0	11,495.6	79.9	178.7	85.00	10,664.6	241.7	1,141.1	923.9	217.17	5.254	
21,300.0	11,454.0	21,907.0	11,495.6	80.0	178.7	85.00	10,664.6	241.7	1,129.5	910.4	219.14	5.154	
21,375.0	11,454.0	21,907.0	11,495.6	80.6	178.7	85.00	10,664.6	241.7	1,088.2	861.7	226.50	4.804	
21,400.0	11,454.0	21,907.0	11,495.6	80.8	178.7	85.00	10,664.6	241.7	1,075.2	846.3	228.94	4.697	
21,470.0	11,454.0	21,907.0	11,495.6	81.3	178.7	85.00	10,664.6	241.7	1,041.3	805.6	235.63	4.419	
21,500.0	11,454.0	21,907.0	11,495.6	81.5	178.7	85.00	10,664.6	241.7	1,027.8	789.4	238.41	4.311	
21,565.0	11,454.0	21,907.0	11,495.6	82.0	178.7	85.00	10,664.6	241.7	1,001.2	757.0	244.17	4.100	
21,600.0	11,454.0	21,907.0	11,495.6	82.2	178.7	85.00	10,664.6	241.7	988.3	741.2	247.07	4.000	
21,660.0	11,454.0	21,907.0	11,495.6	82.7	178.7	85.00	10,664.6	241.7	968.8	717.1	251.65	3.850	
21,700.0	11,454.0	21,907.0	11,495.6	83.0	178.7	85.00	10,664.6	241.7	957.6	703.3	254.35	3.765	
21,755.0	11,454.0	21,907.0	11,495.6	83.4	178.7	85.00	10,664.6	241.7	944.9	687.3	257.56	3.669	
21,760.3	11,454.0	21,907.0	11,495.6	83.4	178.7	85.00	10,664.6	241.7	943.8	686.0	257.83	3.661 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 #709H
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 #709H	Survey Calculation Method:	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		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)			
20,615.0	11,454.0	22,089.0	11,669.7	75.0	179.6	157.45	10,629.5	-640.6	1,310.2	1,227.7	82.51	15.880	
20,700.0	11,454.0	22,089.0	11,669.7	75.6	179.6	157.45	10,629.5	-640.6	1,225.5	1,142.7	82.81	14.800	
20,710.0	11,454.0	22,089.0	11,669.7	75.7	179.6	157.45	10,629.5	-640.6	1,215.6	1,132.7	82.84	14.673	
20,800.0	11,454.0	22,089.0	11,669.7	76.4	179.6	157.45	10,629.5	-640.6	1,125.9	1,042.7	83.20	13.532	
20,805.0	11,454.0	22,089.0	11,669.7	76.4	179.6	157.45	10,629.5	-640.6	1,120.9	1,037.7	83.22	13.469	
20,900.0	11,454.0	22,089.0	11,669.7	77.1	179.6	157.45	10,629.5	-640.6	1,026.3	942.7	83.66	12.267	
20,995.0	11,454.0	22,089.0	11,669.7	77.8	179.6	157.45	10,629.5	-640.6	931.8	847.6	84.20	11.067	
21,000.0	11,454.0	22,089.0	11,669.7	77.8	179.6	157.45	10,629.5	-640.6	926.9	842.6	84.23	11.004	
21,090.0	11,454.0	22,089.0	11,669.7	78.5	179.6	157.45	10,629.5	-640.6	837.5	752.6	84.86	9.868	
21,100.0	11,454.0	22,089.0	11,669.7	78.6	179.6	157.45	10,629.5	-640.6	827.5	742.6	84.94	9.742	
21,185.0	11,454.0	22,089.0	11,669.7	79.2	179.6	157.45	10,629.5	-640.6	743.2	657.5	85.73	8.670	
21,200.0	11,454.0	22,089.0	11,669.7	79.3	179.6	157.45	10,629.5	-640.6	728.4	642.5	85.89	8.480	
21,280.0	11,454.0	22,089.0	11,669.7	79.9	179.6	157.45	10,629.5	-640.6	649.3	562.3	86.91	7.470	
21,300.0	11,454.0	22,089.0	11,669.7	80.0	179.6	157.45	10,629.5	-640.6	629.5	542.3	87.22	7.218	
21,375.0	11,454.0	22,089.0	11,669.7	80.6	179.6	157.45	10,629.5	-640.6	555.6	467.0	88.62	6.269	
21,400.0	11,454.0	22,089.0	11,669.7	80.8	179.6	157.45	10,629.5	-640.6	531.0	441.8	89.21	5.953	
21,470.0	11,454.0	22,089.0	11,669.7	81.3	179.6	157.45	10,629.5	-640.6	462.5	371.2	91.29	5.067	
21,500.0	11,454.0	22,089.0	11,669.7	81.5	179.6	157.45	10,629.5	-640.6	433.3	340.8	92.45	4.687	
21,565.0	11,454.0	22,089.0	11,669.7	82.0	179.6	157.45	10,629.5	-640.6	370.4	274.6	95.83	3.865	
21,600.0	11,454.0	22,089.0	11,669.7	82.2	179.6	157.45	10,629.5	-640.6	336.8	238.5	98.34	3.425	
21,660.0	11,454.0	22,089.0	11,669.7	82.7	179.6	157.45	10,629.5	-640.6	280.2	175.7	104.50	2.681	
21,700.0	11,454.0	22,089.0	11,669.7	83.0	179.6	157.45	10,629.5	-640.6	243.3	132.7	110.62	2.199	
21,755.0	11,454.0	22,089.0	11,669.7	83.4	179.6	157.45	10,629.5	-640.6	194.6	71.1	123.49	1.576 Advise and Monitor	
21,760.3	11,454.0	22,089.0	11,669.7	83.4	179.6	157.45	10,629.5	-640.6	190.1	65.0	125.09	1.520 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 #709H
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 #709H	Survey Calculation Method:	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		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
21,090.0	11,454.0	21,917.2	11,800.0	78.5	175.0	-110.25	10,914.2	-1,286.5	1,293.8	1,145.4	148.39	8.719		
21,100.0	11,454.0	21,917.2	11,800.0	78.6	175.0	-110.25	10,914.2	-1,286.5	1,285.1	1,136.0	149.07	8.621		
21,185.0	11,454.0	21,917.2	11,800.0	79.2	175.0	-110.25	10,914.2	-1,286.5	1,212.3	1,057.1	155.21	7.811		
21,200.0	11,454.0	21,917.2	11,800.0	79.3	175.0	-110.25	10,914.2	-1,286.5	1,199.6	1,043.3	156.36	7.672		
21,280.0	11,454.0	21,917.2	11,800.0	79.9	175.0	-110.25	10,914.2	-1,286.5	1,133.0	970.1	162.87	6.957		
21,300.0	11,454.0	21,917.2	11,800.0	80.0	175.0	-110.25	10,914.2	-1,286.5	1,116.6	952.0	164.59	6.784		
21,375.0	11,454.0	21,917.2	11,800.0	80.6	175.0	-110.25	10,914.2	-1,286.5	1,056.2	884.8	171.45	6.161		
21,400.0	11,454.0	21,917.2	11,800.0	80.8	175.0	-110.25	10,914.2	-1,286.5	1,036.5	862.7	173.87	5.961		
21,470.0	11,454.0	21,917.2	11,800.0	81.3	175.0	-110.25	10,914.2	-1,286.5	982.7	801.7	181.02	5.429		
21,500.0	11,454.0	21,917.2	11,800.0	81.5	175.0	-110.25	10,914.2	-1,286.5	960.2	776.0	184.24	5.212		
21,565.0	11,454.0	21,917.2	11,800.0	82.0	175.0	-110.25	10,914.2	-1,286.5	913.1	721.5	191.55	4.767		
21,600.0	11,454.0	21,917.2	11,800.0	82.2	175.0	-110.25	10,914.2	-1,286.5	888.6	693.0	195.66	4.542		
21,660.0	11,454.0	21,917.2	11,800.0	82.7	175.0	-110.25	10,914.2	-1,286.5	848.4	645.5	202.94	4.181		
21,700.0	11,454.0	21,917.2	11,800.0	83.0	175.0	-110.25	10,914.2	-1,286.5	823.0	615.1	207.91	3.958		
21,755.0	11,454.0	21,917.2	11,800.0	83.4	175.0	-110.25	10,914.2	-1,286.5	790.0	575.1	214.84	3.677		
21,760.3	11,454.0	21,917.2	11,800.0	83.4	175.0	-110.25	10,914.2	-1,286.5	786.9	571.4	215.51	3.651	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 #709H
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 #709H	Survey Calculation Method:	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		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	11,454.0	22,097.6	12,034.9	77.8	173.7	176.89	10,919.5	-657.1	1,300.1	1,207.1	93.01	13.979	
21,000.0	11,454.0	22,097.6	12,034.9	77.8	173.7	176.89	10,919.5	-657.1	1,295.5	1,202.3	93.13	13.911	
21,090.0	11,454.0	22,097.6	12,034.9	78.5	173.7	176.89	10,919.5	-657.1	1,211.7	1,116.3	95.43	12.698	
21,100.0	11,454.0	22,097.6	12,034.9	78.6	173.7	176.89	10,919.5	-657.1	1,202.5	1,106.8	95.71	12.564	
21,185.0	11,454.0	22,097.6	12,034.9	79.2	173.7	176.89	10,919.5	-657.1	1,124.4	1,026.1	98.29	11.439	
21,200.0	11,454.0	22,097.6	12,034.9	79.3	173.7	176.89	10,919.5	-657.1	1,110.7	1,011.9	98.79	11.243	
21,280.0	11,454.0	22,097.6	12,034.9	79.9	173.7	176.89	10,919.5	-657.1	1,038.4	936.7	101.71	10.209	
21,300.0	11,454.0	22,097.6	12,034.9	80.0	173.7	176.89	10,919.5	-657.1	1,020.5	918.0	102.51	9.955	
21,375.0	11,454.0	22,097.6	12,034.9	80.6	173.7	176.89	10,919.5	-657.1	954.1	848.3	105.82	9.016	
21,400.0	11,454.0	22,097.6	12,034.9	80.8	173.7	176.89	10,919.5	-657.1	932.2	825.2	107.04	8.709	
21,470.0	11,454.0	22,097.6	12,034.9	81.3	173.7	176.89	10,919.5	-657.1	872.0	761.2	110.79	7.871	
21,500.0	11,454.0	22,097.6	12,034.9	81.5	173.7	176.89	10,919.5	-657.1	846.6	734.1	112.57	7.521	
21,565.0	11,454.0	22,097.6	12,034.9	82.0	173.7	176.89	10,919.5	-657.1	792.8	676.0	116.81	6.787	
21,600.0	11,454.0	22,097.6	12,034.9	82.2	173.7	176.89	10,919.5	-657.1	764.5	645.2	119.33	6.407	
21,660.0	11,454.0	22,097.6	12,034.9	82.7	173.7	176.89	10,919.5	-657.1	717.4	593.4	124.08	5.782	
21,700.0	11,454.0	22,097.6	12,034.9	83.0	173.7	176.89	10,919.5	-657.1	687.2	559.6	127.55	5.387	
21,755.0	11,454.0	22,097.6	12,034.9	83.4	173.7	176.89	10,919.5	-657.1	647.3	514.5	132.74	4.876	
21,760.3	11,454.0	22,097.6	12,034.9	83.4	173.7	176.89	10,919.5	-657.1	643.6	510.3	133.26	4.830	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 #709H
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 #709H	Survey Calculation Method:	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		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
10,545.0	10,501.9	10,719.7	10,569.1	22.5	15.5	-88.29	39.7	-1,900.8	1,319.6	1,283.0	36.53	36.119
10,600.0	10,556.9	10,770.0	10,619.3	22.5	15.6	-88.42	36.6	-1,899.0	1,317.5	1,280.8	36.63	35.963
10,640.0	10,596.9	10,804.7	10,653.9	22.5	15.6	-88.50	34.7	-1,897.9	1,316.1	1,279.4	36.71	35.856
10,700.0	10,656.9	10,850.0	10,699.1	22.5	15.6	-88.59	32.7	-1,896.6	1,314.4	1,277.6	36.82	35.698
10,735.0	10,691.9	10,878.1	10,727.2	22.6	15.7	-88.64	31.5	-1,896.1	1,313.8	1,276.9	36.88	35.626
10,800.0	10,756.9	10,947.7	10,796.7	22.6	15.7	-88.77	28.5	-1,895.1	1,312.8	1,275.8	36.94	35.539
10,830.0	10,786.9	10,975.0	10,824.0	22.6	15.7	-88.82	27.4	-1,894.6	1,312.2	1,275.3	36.98	35.486
10,900.0	10,856.9	11,033.1	10,882.0	22.6	15.7	-88.92	25.2	-1,894.0	1,311.4	1,274.4	37.08	35.366
10,925.0	10,881.9	11,050.1	10,899.0	22.6	15.7	-88.94	24.6	-1,894.0	1,311.3	1,274.2	37.13	35.321
11,000.0	10,956.9	11,125.9	10,974.8	22.7	15.8	-89.05	22.1	-1,893.9	1,311.2	1,274.0	37.19	35.256
11,013.0	10,970.0	11,136.9	10,985.9	22.7	15.8	-89.07	21.7	-1,893.9	1,311.2	1,274.0	37.21	35.241 CC
11,019.6	10,976.5	11,142.6	10,991.5	22.7	15.8	-89.08	21.5	-1,893.9	1,311.2	1,274.0	37.21	35.235
11,020.0	10,976.9	11,143.0	10,991.9	22.7	15.8	-88.56	21.5	-1,893.9	1,311.2	1,274.0	37.21	35.235
11,025.0	10,981.9	11,147.3	10,996.2	22.7	15.8	-88.57	21.3	-1,893.9	1,311.2	1,274.0	37.22	35.231 ES
11,050.0	11,006.9	11,168.9	11,017.8	22.7	15.8	-88.64	20.4	-1,894.0	1,311.3	1,274.0	37.24	35.213
11,075.0	11,031.8	11,190.4	11,039.2	22.7	15.8	-88.75	19.5	-1,894.1	1,311.3	1,274.1	37.26	35.195
11,100.0	11,056.5	11,212.0	11,060.8	22.7	15.8	-88.91	18.5	-1,894.3	1,311.5	1,274.2	37.27	35.187
11,115.0	11,071.3	11,226.8	11,075.6	22.7	15.8	-89.05	17.8	-1,894.4	1,311.5	1,274.3	37.28	35.177
11,125.0	11,081.1	11,236.9	11,085.7	22.7	15.8	-89.15	17.4	-1,894.5	1,311.6	1,274.3	37.29	35.170
11,150.0	11,105.3	11,261.8	11,110.6	22.7	15.8	-89.45	16.3	-1,894.7	1,311.7	1,274.4	37.32	35.153
11,175.0	11,129.2	11,286.4	11,135.1	22.7	15.9	-89.79	15.2	-1,894.9	1,311.9	1,274.5	37.34	35.134
11,200.0	11,152.7	11,310.7	11,159.5	22.7	15.9	-90.18	14.2	-1,895.0	1,312.1	1,274.7	37.36	35.115
11,210.0	11,161.9	11,321.0	11,169.7	22.7	15.9	-90.35	13.8	-1,895.1	1,312.2	1,274.8	37.38	35.108
11,225.0	11,175.6	11,336.3	11,185.0	22.7	15.9	-90.63	13.2	-1,895.2	1,312.3	1,274.9	37.39	35.097
11,250.0	11,198.1	11,361.1	11,209.8	22.7	15.9	-91.11	12.2	-1,895.3	1,312.6	1,275.2	37.42	35.080
11,275.0	11,219.9	11,385.3	11,233.9	22.7	15.9	-91.61	11.2	-1,895.3	1,313.0	1,275.6	37.45	35.064
11,300.0	11,241.1	11,407.8	11,256.5	22.7	15.9	-92.10	10.3	-1,895.2	1,313.5	1,276.1	37.47	35.053
11,305.0	11,245.2	11,411.9	11,260.6	22.7	15.9	-92.19	10.2	-1,895.2	1,313.7	1,276.2	37.48	35.051
11,325.0	11,261.5	11,428.1	11,276.8	22.7	15.9	-92.55	9.5	-1,895.2	1,314.3	1,276.8	37.50	35.047 SF
11,350.0	11,281.2	11,447.6	11,296.2	22.7	15.9	-92.99	8.7	-1,895.2	1,315.2	1,277.7	37.53	35.047
11,375.0	11,300.0	11,466.1	11,314.7	22.7	15.9	-93.39	7.9	-1,895.1	1,316.5	1,278.9	37.55	35.056
11,400.0	11,317.9	11,483.5	11,332.1	22.7	16.0	-93.76	7.1	-1,895.0	1,318.0	1,280.5	37.58	35.073
11,425.0	11,334.9	11,499.8	11,348.4	22.7	16.0	-94.07	6.3	-1,895.0	1,319.9	1,282.3	37.61	35.100

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 (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	10,501.9	10,719.7	10,569.1	22.5	15.5	-88.29	39.7	-1,900.8	1,319.6	1,283.0	36.53	36.119		
10,600.0	10,556.9	10,770.0	10,619.3	22.5	15.6	-88.42	36.6	-1,899.0	1,317.5	1,280.8	36.63	35.963		
10,640.0	10,596.9	10,804.7	10,653.9	22.5	15.6	-88.50	34.7	-1,897.9	1,316.1	1,279.4	36.71	35.856		
10,700.0	10,656.9	10,850.0	10,699.1	22.5	15.6	-88.59	32.7	-1,896.6	1,314.4	1,277.6	36.82	35.698		
10,735.0	10,691.9	10,878.1	10,727.2	22.6	15.7	-88.64	31.5	-1,896.1	1,313.8	1,276.9	36.88	35.626		
10,800.0	10,756.9	10,947.7	10,796.7	22.6	15.7	-88.77	28.5	-1,895.1	1,312.8	1,275.8	36.94	35.539		
10,830.0	10,786.9	10,975.0	10,824.0	22.6	15.7	-88.82	27.4	-1,894.6	1,312.2	1,275.3	36.98	35.486		
10,900.0	10,856.9	11,033.1	10,882.0	22.6	15.7	-88.92	25.2	-1,894.0	1,311.4	1,274.4	37.08	35.366		
10,925.0	10,881.9	11,050.1	10,899.0	22.6	15.7	-88.94	24.6	-1,894.0	1,311.3	1,274.2	37.13	35.321		
11,000.0	10,956.9	11,125.9	10,974.8	22.7	15.8	-89.05	22.1	-1,893.9	1,311.2	1,274.0	37.19	35.256		
11,018.7	10,975.6	11,142.6	10,991.5	22.7	15.9	-89.07	21.6	-1,893.9	1,311.2	1,273.7	37.55	34.921		
11,019.6	10,976.5	11,143.4	10,992.3	22.7	16.0	-89.08	21.6	-1,893.9	1,311.2	1,273.6	37.56	34.905		
11,020.0	10,976.9	11,143.8	10,992.7	22.7	16.0	-88.56	21.5	-1,893.9	1,311.2	1,273.6	37.57	34.899		
11,025.0	10,981.9	11,148.3	10,997.2	22.7	16.0	-88.56	21.4	-1,893.9	1,311.2	1,273.5	37.66	34.815		
11,050.0	11,006.9	11,170.9	11,019.8	22.7	16.3	-88.62	21.0	-1,893.9	1,311.2	1,273.1	38.12	34.401		
11,075.0	11,031.8	11,193.5	11,042.4	22.7	16.6	-88.71	20.8	-1,894.0	1,311.2	1,272.7	38.57	33.997		
11,100.0	11,056.5	11,216.0	11,064.9	22.7	17.0	-88.84	20.9	-1,894.1	1,311.3	1,272.3	39.02	33.603		
11,115.0	11,071.3	11,229.4	11,078.3	22.7	17.2	-88.93	21.1	-1,894.2	1,311.3	1,272.0	39.30	33.370		
11,125.0	11,081.1	11,238.4	11,087.3	22.7	17.4	-89.00	21.3	-1,894.2	1,311.4	1,271.9	39.48	33.218		
11,150.0	11,105.3	11,260.6	11,109.5	22.7	17.8	-89.20	21.9	-1,894.4	1,311.5	1,271.5	39.93	32.843		
11,175.0	11,129.2	11,282.7	11,131.6	22.7	18.2	-89.43	22.8	-1,894.6	1,311.6	1,271.3	40.38	32.481		
11,200.0	11,152.7	11,306.0	11,154.8	22.7	18.7	-89.70	24.1	-1,894.9	1,311.9	1,271.0	40.85	32.112		
11,210.0	11,161.9	11,314.0	11,162.8	22.7	18.7	-89.80	24.6	-1,895.0	1,312.0	1,271.1	40.86	32.109		
11,225.0	11,175.6	11,328.3	11,177.0	22.7	18.7	-89.97	26.0	-1,895.2	1,312.1	1,271.3	40.87	32.104		
11,250.0	11,198.1	11,358.9	11,207.2	22.7	18.7	-90.34	30.6	-1,895.5	1,312.4	1,271.5	40.89	32.098		
11,275.0	11,219.9	11,397.6	11,245.0	22.7	18.7	-90.80	39.3	-1,895.7	1,312.5	1,271.6	40.90	32.088		
11,300.0	11,241.1	11,432.5	11,278.3	22.7	18.8	-91.20	49.8	-1,895.5	1,312.5	1,271.5	40.92	32.071		
11,305.0	11,245.2	11,439.6	11,284.9	22.7	18.8	-91.28	52.1	-1,895.4	1,312.4	1,271.5	40.93	32.066		
11,325.0	11,261.5	11,468.0	11,311.3	22.7	18.9	-91.59	62.7	-1,895.1	1,312.3	1,271.3	40.95	32.049		
11,350.0	11,281.2	11,560.5	11,392.0	22.7	19.0	-92.35	107.4	-1,891.9	1,311.5	1,270.6	40.95	32.025		
11,375.0	11,300.0	11,654.7	11,460.9	22.7	19.1	-92.51	170.8	-1,884.5	1,309.3	1,268.4	40.95	31.976		
11,400.0	11,317.9	11,678.9	11,477.0	22.7	19.1	-92.77	188.8	-1,882.1	1,306.6	1,265.6	40.96	31.898		
11,425.0	11,334.9	11,714.7	11,500.0	22.7	19.2	-93.04	216.0	-1,878.5	1,303.8	1,262.9	40.98	31.818		
11,450.0	11,351.0	11,753.7	11,522.9	22.7	19.2	-93.30	247.2	-1,874.3	1,300.9	1,259.9	40.99	31.735		
11,475.0	11,365.9	11,793.7	11,543.7	22.7	19.2	-93.53	281.1	-1,869.8	1,297.8	1,256.8	41.00	31.651		
11,495.0	11,377.2	11,811.8	11,552.5	22.8	19.2	-93.78	296.8	-1,867.8	1,295.2	1,254.2	41.03	31.572		
11,500.0	11,379.9	11,816.9	11,554.9	22.8	19.2	-93.84	301.3	-1,867.2	1,294.6	1,253.6	41.03	31.552		
11,525.0	11,392.7	11,841.8	11,566.4	22.8	19.3	-94.16	323.2	-1,864.5	1,291.5	1,250.5	41.06	31.454		
11,550.0	11,404.4	11,865.5	11,576.4	22.8	19.3	-94.48	344.5	-1,861.9	1,288.6	1,247.5	41.10	31.354		
11,575.0	11,414.9	11,893.7	11,587.3	22.8	19.3	-94.79	370.4	-1,859.0	1,285.7	1,244.6	41.13	31.257		
11,590.0	11,420.6	11,915.0	11,595.0	22.8	19.3	-94.99	390.1	-1,856.7	1,284.0	1,242.8	41.15	31.200		
11,600.0	11,424.2	11,929.2	11,600.0	22.8	19.3	-95.14	403.3	-1,855.1	1,282.8	1,241.6	41.17	31.161		
11,625.0	11,432.3	11,954.2	11,608.8	22.8	19.4	-95.54	426.5	-1,852.4	1,279.9	1,238.7	41.22	31.053		
11,650.0	11,439.1	11,976.0	11,616.4	22.9	19.4	-95.96	446.8	-1,849.9	1,277.1	1,235.8	41.27	30.943		
11,675.0	11,444.7	11,996.0	11,623.2	22.9	19.4	-96.39	465.5	-1,847.8	1,274.5	1,233.2	41.34	30.831		
11,685.0	11,446.5	12,003.1	11,625.5	22.9	19.4	-96.55	472.2	-1,847.1	1,273.6	1,232.2	41.37	30.788		
11,700.0	11,448.9	12,013.8	11,628.8	22.9	19.4	-96.79	482.3	-1,846.0	1,272.3	1,230.8	41.41	30.724		
11,725.0	11,451.9	12,038.7	11,635.9	22.9	19.4	-97.24	506.0	-1,843.8	1,270.3	1,228.8	41.48	30.624		
11,750.0	11,453.6	12,073.2	11,645.2	23.0	19.5	-97.81	539.1	-1,840.5	1,268.3	1,226.7	41.55	30.526		
11,769.6	11,454.0	12,087.6	11,648.7	23.0	19.5	-98.13	553.0	-1,839.1	1,266.9	1,225.3	41.61	30.443		
11,780.0	11,454.0	12,095.8	11,650.5	23.0	19.5	-98.22	560.9	-1,838.4	1,266.2	1,224.5	41.65	30.401		
11,800.0	11,454.0	12,111.7	11,653.7	23.0	19.5	-98.37	576.5	-1,837.0	1,264.9	1,223.2	41.72	30.320		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 (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
11,875.0	11,454.0	12,176.5	11,663.9	23.1	19.6	-98.87	640.3	-1,832.3	1,260.5	1,218.5	42.00	30.014	
11,900.0	11,454.0	12,195.5	11,666.2	23.2	19.6	-98.98	659.1	-1,831.1	1,259.2	1,217.1	42.10	29.909	
11,970.0	11,454.0	12,260.0	11,671.1	23.3	19.7	-99.22	723.3	-1,828.2	1,256.2	1,213.8	42.40	29.625	
12,000.0	11,454.0	12,278.1	11,671.7	23.3	19.8	-99.26	741.4	-1,827.6	1,255.1	1,212.6	42.53	29.514	
12,065.0	11,454.0	12,350.7	11,674.2	23.5	19.9	-99.39	814.0	-1,825.0	1,252.6	1,209.8	42.81	29.260	
12,100.0	11,454.0	12,388.4	11,675.1	23.5	20.0	-99.45	851.6	-1,823.6	1,251.1	1,208.2	42.97	29.115	
12,160.0	11,454.0	12,453.0	11,676.0	23.7	20.1	-99.51	916.1	-1,821.1	1,248.4	1,205.1	43.26	28.857	
12,200.0	11,454.0	12,496.8	11,676.1	23.8	20.2	-99.54	959.9	-1,819.3	1,246.4	1,203.0	43.46	28.678	
12,255.0	11,454.0	12,542.0	11,676.1	23.9	20.3	-99.55	1,005.1	-1,817.3	1,243.6	1,199.9	43.75	28.428	
12,300.0	11,454.0	12,574.1	11,676.2	24.0	20.4	-99.57	1,037.2	-1,816.2	1,241.8	1,197.8	44.01	28.217	
12,350.0	11,454.0	12,601.6	11,676.4	24.2	20.5	-99.58	1,064.6	-1,815.7	1,240.6	1,196.3	44.29	28.010	
12,400.0	11,454.0	12,766.6	11,680.9	24.3	21.2	-99.86	1,229.2	-1,807.5	1,238.7	1,193.7	45.03	27.509	
12,445.0	11,454.0	12,808.7	11,682.4	24.4	21.3	-99.97	1,271.0	-1,803.1	1,233.9	1,188.6	45.31	27.232	
12,500.0	11,454.0	12,824.0	11,683.0	24.6	21.4	-100.01	1,286.2	-1,801.5	1,228.8	1,183.2	45.64	26.927	
12,540.0	11,454.0	12,860.9	11,684.4	24.7	21.5	-100.11	1,323.0	-1,798.4	1,225.4	1,179.5	45.96	26.660	
12,600.0	11,454.0	12,889.2	11,685.4	24.9	21.7	-100.17	1,351.2	-1,796.8	1,222.0	1,175.6	46.38	26.350	
12,635.0	11,454.0	12,917.0	11,686.3	25.0	21.8	-100.22	1,379.0	-1,796.0	1,220.8	1,174.2	46.65	26.168	
12,700.0	11,454.0	12,972.8	11,687.7	25.2	22.0	-100.30	1,434.7	-1,794.8	1,219.1	1,172.0	47.10	25.885	
12,730.0	11,454.0	13,013.5	11,688.2	25.3	22.2	-100.33	1,475.4	-1,793.7	1,218.1	1,170.8	47.33	25.734	
12,800.0	11,454.0	13,076.8	11,688.4	25.6	22.4	-100.36	1,538.7	-1,791.9	1,215.5	1,167.7	47.84	25.409	
12,825.0	11,454.0	13,099.6	11,688.3	25.6	22.5	-100.36	1,561.5	-1,791.3	1,214.7	1,166.7	48.02	25.293	
12,900.0	11,454.0	13,139.8	11,688.2	25.9	22.7	-100.37	1,601.7	-1,790.9	1,213.3	1,164.7	48.56	24.984	
12,908.9	11,454.0	13,144.4	11,688.2	26.0	22.7	-100.37	1,606.3	-1,790.9	1,213.3	1,164.7	48.63	24.950	
12,920.0	11,454.0	13,150.0	11,688.2	26.0	22.7	-100.37	1,611.9	-1,791.0	1,213.3	1,164.6	48.71	24.910	
13,000.0	11,454.0	13,200.0	11,688.7	26.3	23.0	-100.38	1,661.9	-1,792.6	1,215.0	1,165.7	49.31	24.642	
13,015.0	11,454.0	13,200.0	11,688.7	26.4	23.0	-100.38	1,661.9	-1,792.6	1,215.6	1,166.2	49.38	24.618	
13,100.0	11,454.0	13,305.9	11,688.6	26.7	23.4	-100.34	1,767.7	-1,797.3	1,218.5	1,168.3	50.15	24.296	
13,110.0	11,454.0	13,293.0	11,688.8	26.7	23.4	-100.35	1,754.8	-1,796.8	1,218.9	1,168.8	50.15	24.304	
13,200.0	11,454.0	13,368.0	11,687.7	27.1	23.7	-100.28	1,829.7	-1,800.8	1,222.7	1,171.9	50.88	24.033	
13,205.0	11,454.0	13,371.4	11,687.6	27.1	23.7	-100.27	1,833.1	-1,801.0	1,223.0	1,172.1	50.92	24.020	
13,300.0	11,454.0	13,492.1	11,684.6	27.5	24.3	-100.08	1,953.5	-1,808.8	1,227.9	1,176.0	51.87	23.674	
13,395.0	11,454.0	13,598.9	11,683.1	28.0	24.8	-99.98	2,060.1	-1,813.3	1,230.8	1,178.0	52.79	23.317	
13,400.0	11,454.0	13,603.8	11,683.0	28.0	24.8	-99.97	2,065.1	-1,813.5	1,230.9	1,178.1	52.83	23.299	
13,490.0	11,454.0	13,692.8	11,681.5	28.4	25.2	-99.88	2,153.9	-1,817.0	1,233.3	1,179.6	53.68	22.976	
13,500.0	11,454.0	13,702.5	11,681.3	28.4	25.3	-99.87	2,163.7	-1,817.4	1,233.6	1,179.8	53.77	22.941	
13,585.0	11,454.0	13,782.8	11,679.8	28.8	25.7	-99.78	2,243.9	-1,820.7	1,236.0	1,181.4	54.57	22.648	
13,600.0	11,454.0	13,795.7	11,679.6	28.9	25.7	-99.77	2,256.7	-1,821.2	1,236.4	1,181.7	54.71	22.600	
13,680.0	11,454.0	13,860.0	11,678.7	29.3	26.1	-99.71	2,321.0	-1,824.4	1,239.4	1,184.0	55.43	22.361	
13,700.0	11,454.0	13,878.0	11,678.6	29.4	26.2	-99.70	2,339.0	-1,825.4	1,240.3	1,184.7	55.62	22.300	
13,775.0	11,454.0	13,932.3	11,678.7	29.8	26.4	-99.68	2,393.1	-1,828.9	1,244.5	1,188.2	56.27	22.114	
13,800.0	11,454.0	13,952.0	11,679.0	29.9	26.5	-99.68	2,412.8	-1,830.3	1,246.1	1,189.6	56.50	22.055	
13,870.0	11,454.0	14,038.6	11,680.0	30.2	27.0	-99.69	2,499.2	-1,836.4	1,250.5	1,193.1	57.32	21.815	
13,900.0	11,454.0	14,141.6	11,680.0	30.4	27.6	-99.66	2,602.1	-1,840.1	1,251.3	1,193.3	58.03	21.563	
13,965.0	11,454.0	14,233.1	11,680.6	30.7	28.1	-99.70	2,693.5	-1,839.5	1,250.4	1,191.6	58.83	21.254	
14,000.0	11,454.0	14,283.5	11,682.0	30.9	28.4	-99.78	2,743.9	-1,838.1	1,249.3	1,190.1	59.27	21.080	
14,060.0	11,454.0	14,359.8	11,685.3	31.2	28.8	-99.96	2,820.1	-1,834.7	1,246.6	1,186.6	59.98	20.784	
14,100.0	11,454.0	14,403.7	11,687.2	31.4	29.1	-100.07	2,863.9	-1,832.4	1,244.5	1,184.0	60.43	20.595	
14,155.0	11,454.0	14,452.8	11,689.4	31.7	29.4	-100.20	2,912.8	-1,829.8	1,241.6	1,180.6	61.02	20.347	
14,200.0	11,454.0	14,488.9	11,691.4	32.0	29.6	-100.30	2,948.9	-1,828.1	1,239.5	1,178.0	61.49	20.157	
14,250.0	11,454.0	14,539.8	11,694.6	32.2	29.8	-100.47	2,999.6	-1,826.0	1,237.6	1,175.5	62.06	19.940	
14,300.0	11,454.0	14,615.8	11,698.4	32.5	30.3	-100.68	3,075.4	-1,821.9	1,234.9	1,172.2	62.71	19.692	
14,345.0	11,454.0	14,657.3	11,700.0	32.8	30.5	-100.78	3,116.8	-1,819.4	1,232.2	1,169.0	63.22	19.491	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 (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	
14,400.0	11,454.0	14,710.9	11,701.9	33.1	30.8	-100.90	3,170.2	-1,816.2	1,228.9	1,165.0	63.84	19.248		
14,440.0	11,454.0	14,750.7	11,703.2	33.3	31.1	-100.98	3,210.0	-1,813.9	1,226.5	1,162.2	64.31	19.072		
14,500.0	11,454.0	14,814.0	11,705.0	33.6	31.4	-101.10	3,273.1	-1,810.3	1,222.9	1,157.9	65.02	18.810		
14,535.0	11,454.0	14,859.1	11,705.3	33.8	31.7	-101.15	3,318.1	-1,807.6	1,220.6	1,155.2	65.45	18.649		
14,600.0	11,454.0	14,924.4	11,704.0	34.2	32.1	-101.13	3,383.3	-1,803.6	1,215.8	1,149.6	66.21	18.362		
14,630.0	11,454.0	14,948.7	11,703.6	34.4	32.3	-101.12	3,407.6	-1,802.2	1,213.8	1,147.2	66.55	18.238		
14,700.0	11,454.0	15,003.7	11,702.7	34.8	32.6	-101.11	3,462.5	-1,799.4	1,209.5	1,142.2	67.34	17.961		
14,725.0	11,454.0	15,022.2	11,702.3	34.9	32.7	-101.10	3,481.0	-1,798.7	1,208.3	1,140.6	67.62	17.868		
14,800.0	11,454.0	15,079.0	11,700.5	35.3	33.1	-101.04	3,537.7	-1,797.3	1,205.2	1,136.8	68.46	17.605		
14,820.0	11,454.0	15,079.0	11,700.5	35.5	33.1	-101.04	3,537.7	-1,797.3	1,204.7	1,136.1	68.62	17.558		
14,882.0	11,454.0	15,120.7	11,699.3	35.8	33.4	-100.99	3,579.4	-1,797.2	1,203.9	1,134.6	69.29	17.375		
14,900.0	11,454.0	15,130.0	11,699.2	35.9	33.4	-100.98	3,588.7	-1,797.3	1,203.9	1,134.5	69.46	17.332		
14,915.0	11,454.0	15,137.8	11,699.1	36.0	33.5	-100.97	3,596.5	-1,797.5	1,204.1	1,134.5	69.61	17.298		
15,000.0	11,454.0	15,193.5	11,699.2	36.5	33.8	-100.96	3,652.1	-1,799.8	1,206.6	1,136.1	70.48	17.119		
15,010.0	11,454.0	15,205.4	11,699.2	36.6	33.9	-100.96	3,664.1	-1,800.3	1,206.9	1,136.3	70.62	17.091		
15,100.0	11,454.0	15,315.2	11,698.8	37.1	34.6	-100.91	3,773.8	-1,804.5	1,209.5	1,137.6	71.86	16.831		
15,105.0	11,454.0	15,321.5	11,698.8	37.2	34.6	-100.91	3,780.1	-1,804.7	1,209.6	1,137.6	71.93	16.816		
15,200.0	11,454.0	15,422.4	11,698.5	37.7	35.3	-100.88	3,881.0	-1,807.1	1,210.8	1,137.7	73.15	16.553		
15,295.0	11,454.0	15,548.8	11,697.5	38.3	36.1	-100.83	4,007.4	-1,809.0	1,211.4	1,136.9	74.52	16.256		
15,300.0	11,454.0	15,556.6	11,697.4	38.4	36.2	-100.83	4,015.1	-1,809.0	1,211.3	1,136.7	74.60	16.238		
15,390.0	11,454.0	15,634.5	11,696.5	38.9	36.7	-100.79	4,093.0	-1,809.2	1,210.5	1,134.9	75.67	15.997		
15,400.0	11,454.0	15,645.0	11,696.4	39.0	36.7	-100.78	4,103.5	-1,809.2	1,210.5	1,134.7	75.80	15.969		
15,485.0	11,454.0	15,776.7	11,694.1	39.5	37.6	-100.70	4,235.2	-1,807.8	1,208.7	1,131.6	77.10	15.677		
15,500.0	11,454.0	15,803.2	11,692.9	39.6	37.8	-100.65	4,261.7	-1,807.0	1,207.9	1,130.6	77.33	15.620		
15,580.0	11,454.0	15,872.6	11,688.9	40.1	38.2	-100.49	4,330.9	-1,804.4	1,203.5	1,125.2	78.32	15.366		
15,600.0	11,454.0	15,885.2	11,688.3	40.2	38.3	-100.47	4,343.4	-1,804.1	1,202.7	1,124.1	78.55	15.310		
15,675.0	11,454.0	15,935.9	11,686.7	40.7	38.6	-100.40	4,394.1	-1,803.5	1,200.7	1,121.3	79.42	15.118		
15,700.0	11,454.0	15,961.9	11,686.1	40.9	38.8	-100.38	4,420.1	-1,803.4	1,200.2	1,120.5	79.75	15.050		
15,770.0	11,454.0	16,021.0	11,684.9	41.3	39.2	-100.33	4,479.2	-1,802.9	1,198.9	1,118.3	80.60	14.874		
15,800.0	11,454.0	16,045.3	11,684.5	41.5	39.4	-100.31	4,503.5	-1,802.9	1,198.5	1,117.5	80.97	14.802		
15,814.1	11,454.0	16,053.2	11,684.4	41.6	39.4	-100.31	4,511.4	-1,803.0	1,198.5	1,117.4	81.12	14.774 CC		
15,865.0	11,454.0	16,081.9	11,684.0	41.9	39.6	-100.29	4,540.1	-1,803.6	1,199.0	1,117.3	81.66	14.682		
15,900.0	11,454.0	16,115.0	11,683.7	42.1	39.9	-100.27	4,573.2	-1,804.9	1,200.0	1,117.8	82.12	14.613		
15,960.0	11,454.0	16,149.0	11,683.3	42.5	40.1	-100.24	4,607.2	-1,806.7	1,202.2	1,119.4	82.71	14.535		
16,000.0	11,454.0	16,186.5	11,682.6	42.8	40.4	-100.19	4,644.5	-1,808.8	1,203.9	1,120.6	83.21	14.467		
16,055.0	11,454.0	16,243.4	11,681.1	43.1	40.7	-100.09	4,701.3	-1,812.1	1,206.3	1,122.3	83.96	14.368		
16,100.0	11,454.0	16,293.4	11,680.4	43.4	41.1	-100.04	4,751.3	-1,814.7	1,208.1	1,123.5	84.59	14.281		
16,150.0	11,454.0	16,332.6	11,680.6	43.8	41.3	-100.04	4,790.4	-1,816.7	1,210.2	1,125.0	85.17	14.209		
16,200.0	11,454.0	16,368.4	11,681.5	44.1	41.6	-100.07	4,826.1	-1,818.8	1,212.8	1,127.1	85.71	14.150		
16,245.0	11,454.0	16,401.5	11,683.1	44.4	41.8	-100.12	4,859.1	-1,820.9	1,215.7	1,129.5	86.20	14.103		
16,300.0	11,454.0	16,456.7	11,686.5	44.7	42.2	-100.26	4,914.1	-1,824.6	1,219.4	1,132.5	86.94	14.027		
16,340.0	11,454.0	16,501.4	11,689.8	45.0	42.5	-100.39	4,958.5	-1,827.5	1,222.1	1,134.6	87.52	13.964		
16,400.0	11,454.0	16,620.1	11,695.9	45.4	43.3	-100.64	5,077.0	-1,832.5	1,224.8	1,135.9	88.83	13.787		
16,435.0	11,454.0	16,663.1	11,696.2	45.6	43.6	-100.65	5,120.0	-1,832.8	1,224.6	1,135.2	89.37	13.703		
16,448.9	11,454.0	16,710.3	11,696.2	45.7	43.9	-100.65	5,167.2	-1,832.9	1,224.4	1,134.6	89.75	13.642		
16,500.0	11,454.0	16,769.3	11,695.2	46.1	44.3	-100.61	5,226.2	-1,832.4	1,223.3	1,132.9	90.48	13.521		
16,530.0	11,454.0	16,799.2	11,694.5	46.3	44.5	-100.59	5,256.1	-1,832.1	1,222.6	1,131.7	90.88	13.453		
16,600.0	11,454.0	16,868.0	11,693.2	46.7	45.0	-100.54	5,324.8	-1,831.3	1,221.0	1,129.2	91.82	13.298		
16,625.0	11,454.0	16,894.7	11,692.7	46.9	45.2	-100.52	5,351.5	-1,831.0	1,220.4	1,128.3	92.17	13.241		
16,700.0	11,454.0	16,973.4	11,690.6	47.4	45.7	-100.44	5,430.2	-1,830.0	1,218.4	1,125.2	93.20	13.073		
16,720.0	11,454.0	16,989.8	11,690.1	47.5	45.8	-100.42	5,446.6	-1,829.8	1,217.9	1,124.5	93.46	13.032		
16,800.0	11,454.0	17,057.0	11,688.8	48.1	46.3	-100.37	5,513.8	-1,829.4	1,216.5	1,122.0	94.48	12.875		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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 (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	
16,815.0	11,454.0	17,068.1	11,688.6	48.2	46.4	-100.36	5,524.9	-1,829.4	1,216.3	1,121.6	94.67	12.848		
16,900.0	11,454.0	17,142.1	11,688.3	48.8	46.9	-100.35	5,598.9	-1,829.7	1,215.8	1,120.0	95.77	12.695		
16,910.0	11,454.0	17,152.0	11,688.3	48.8	47.0	-100.35	5,608.8	-1,829.8	1,215.8	1,119.9	95.90	12.677		
17,000.0	11,454.0	17,248.6	11,688.2	49.4	47.6	-100.35	5,705.4	-1,830.3	1,215.5	1,118.3	97.18	12.508		
17,005.0	11,454.0	17,246.0	11,688.2	49.5	47.6	-100.35	5,702.8	-1,830.3	1,215.5	1,118.2	97.20	12.505		
17,023.1	11,454.0	17,262.5	11,688.2	49.6	47.7	-100.35	5,719.3	-1,830.4	1,215.4	1,118.0	97.44	12.473		
17,100.0	11,454.0	17,312.6	11,688.4	50.1	48.1	-100.35	5,769.4	-1,831.4	1,216.3	1,118.0	98.32	12.371		
17,195.0	11,454.0	17,376.6	11,689.5	50.8	48.5	-100.38	5,833.3	-1,834.2	1,219.7	1,120.4	99.37	12.274		
17,200.0	11,454.0	17,380.1	11,689.6	50.8	48.6	-100.39	5,836.8	-1,834.4	1,220.0	1,120.5	99.43	12.270		
17,290.0	11,454.0	17,475.8	11,693.2	51.4	49.3	-100.51	5,932.2	-1,840.2	1,225.3	1,124.5	100.74	12.162		
17,300.0	11,454.0	17,507.8	11,694.0	51.5	49.5	-100.54	5,964.2	-1,841.5	1,225.6	1,124.5	101.08	12.125		
17,385.0	11,454.0	17,618.9	11,696.7	52.1	50.3	-100.65	6,075.3	-1,843.5	1,226.6	1,124.1	102.47	11.971		
17,400.0	11,454.0	17,664.6	11,697.7	52.2	50.6	-100.71	6,121.0	-1,843.3	1,226.5	1,123.6	102.87	11.923		
17,480.0	11,454.0	17,790.9	11,696.4	52.7	51.5	-100.69	6,247.1	-1,839.1	1,222.7	1,118.5	104.16	11.739		
17,500.0	11,454.0	17,815.3	11,696.0	52.8	51.7	-100.69	6,271.5	-1,837.9	1,221.5	1,117.1	104.44	11.695		
17,575.0	11,454.0	17,874.8	11,695.7	53.4	52.1	-100.70	6,331.0	-1,835.3	1,217.5	1,112.1	105.45	11.546		
17,600.0	11,454.0	17,899.0	11,695.9	53.5	52.2	-100.72	6,355.1	-1,834.3	1,216.3	1,110.6	105.80	11.497		
17,670.0	11,454.0	17,958.2	11,696.2	54.0	52.7	-100.76	6,414.3	-1,832.3	1,213.4	1,106.7	106.74	11.368		
17,700.0	11,454.0	17,985.1	11,696.2	54.2	52.9	-100.76	6,441.2	-1,831.5	1,212.3	1,105.1	107.15	11.314		
17,765.0	11,454.0	18,079.5	11,695.3	54.7	53.5	-100.76	6,535.5	-1,828.0	1,209.3	1,101.1	108.15	11.182		
17,800.0	11,454.0	18,106.0	11,695.0	54.9	53.7	-100.76	6,561.9	-1,826.7	1,207.2	1,098.6	108.62	11.114		
17,860.0	11,454.0	18,145.0	11,694.2	55.3	54.0	-100.74	6,600.9	-1,825.4	1,204.5	1,095.1	109.40	11.010		
17,900.0	11,454.0	18,179.0	11,693.4	55.6	54.2	-100.71	6,634.9	-1,824.9	1,203.3	1,093.4	109.95	10.945		
17,955.0	11,454.0	18,214.3	11,692.3	56.0	54.5	-100.66	6,670.3	-1,824.8	1,202.2	1,091.6	110.62	10.868		
18,000.0	11,454.0	18,251.6	11,691.2	56.3	54.8	-100.61	6,707.5	-1,824.9	1,201.7	1,090.5	111.21	10.805		
18,050.0	11,454.0	18,297.1	11,689.8	56.7	55.1	-100.55	6,753.0	-1,825.3	1,201.4	1,089.5	111.89	10.737		
18,100.0	11,454.0	18,347.1	11,687.9	57.0	55.4	-100.46	6,802.9	-1,825.9	1,201.2	1,088.6	112.60	10.668		
18,145.0	11,454.0	18,387.3	11,686.0	57.3	55.7	-100.37	6,843.1	-1,826.4	1,201.0	1,087.8	113.20	10.610		
18,149.3	11,454.0	18,390.8	11,685.9	57.4	55.8	-100.36	6,846.6	-1,826.5	1,201.0	1,087.8	113.26	10.604		
18,200.0	11,454.0	18,431.5	11,684.0	57.7	56.0	-100.27	6,887.2	-1,827.3	1,201.2	1,087.3	113.90	10.546		
18,240.0	11,454.0	18,462.0	11,682.8	58.0	56.3	-100.20	6,917.7	-1,828.2	1,201.7	1,087.3	114.40	10.505		
18,300.0	11,454.0	18,517.4	11,680.3	58.4	56.7	-100.08	6,973.0	-1,830.1	1,202.7	1,087.5	115.21	10.440		
18,335.0	11,454.0	18,548.7	11,678.8	58.7	56.9	-100.00	7,004.3	-1,831.4	1,203.5	1,087.8	115.67	10.404		
18,400.0	11,454.0	18,612.0	11,675.4	59.1	57.3	-99.82	7,067.3	-1,834.1	1,205.1	1,088.5	116.58	10.337		
18,430.0	11,454.0	18,641.5	11,673.7	59.3	57.6	-99.73	7,096.8	-1,835.4	1,205.8	1,088.8	117.00	10.306		
18,500.0	11,454.0	18,696.6	11,671.0	59.8	58.0	-99.59	7,151.8	-1,838.1	1,208.0	1,090.1	117.86	10.249		
18,525.0	11,454.0	18,715.6	11,670.4	60.0	58.1	-99.56	7,170.8	-1,839.1	1,209.0	1,090.8	118.16	10.232		
18,600.0	11,454.0	18,744.0	11,670.0	60.5	58.3	-99.53	7,199.1	-1,840.7	1,213.2	1,094.5	118.68	10.222		
18,620.0	11,454.0	18,774.1	11,670.0	60.7	58.5	-99.51	7,229.1	-1,842.9	1,214.2	1,095.1	119.11	10.194		
18,700.0	11,454.0	18,838.0	11,670.8	61.3	59.0	-99.50	7,292.7	-1,849.6	1,221.7	1,101.6	120.07	10.175		
18,715.0	11,454.0	18,838.0	11,670.8	61.4	59.0	-99.50	7,292.7	-1,849.6	1,223.0	1,103.0	120.07	10.186		
18,800.0	11,454.0	18,891.9	11,672.4	62.0	59.4	-99.52	7,346.1	-1,856.4	1,233.0	1,112.2	120.80	10.207		
18,810.0	11,454.0	18,901.4	11,672.7	62.0	59.5	-99.53	7,355.5	-1,857.6	1,234.2	1,113.3	120.93	10.206		
18,900.0	11,454.0	19,104.5	11,679.5	62.7	61.0	-99.73	7,557.7	-1,873.3	1,240.2	1,116.5	123.76	10.021		
18,905.0	11,454.0	19,138.0	11,680.7	62.7	61.2	-99.79	7,591.2	-1,874.0	1,240.3	1,116.3	124.08	9.997		
19,000.0	11,454.0	19,227.9	11,684.1	63.4	61.9	-99.94	7,681.1	-1,875.2	1,241.3	1,115.9	125.41	9.899		
19,095.0	11,454.0	19,320.0	11,687.8	64.1	62.5	-100.10	7,773.0	-1,876.7	1,242.7	1,115.9	126.75	9.804		
19,100.0	11,454.0	19,324.9	11,688.0	64.1	62.6	-100.11	7,777.9	-1,876.8	1,242.7	1,115.9	126.83	9.799		
19,190.0	11,454.0	19,413.4	11,691.7	64.7	63.2	-100.27	7,866.3	-1,878.4	1,244.2	1,116.1	128.12	9.711		
19,200.0	11,454.0	19,424.4	11,692.1	64.8	63.3	-100.29	7,877.4	-1,878.6	1,244.3	1,116.1	128.27	9.701		
19,285.0	11,454.0	19,519.1	11,696.1	65.4	64.0	-100.46	7,971.9	-1,879.9	1,245.4	1,115.8	129.57	9.611		
19,300.0	11,454.0	19,536.8	11,696.6	65.5	64.1	-100.49	7,989.6	-1,880.0	1,245.5	1,115.7	129.81	9.595		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)			
19,380.0	11,454.0	19,630.8	11,696.9	66.1	64.8	-100.50	8,083.6	-1,880.9	1,245.5	1,114.4	131.06	9.503	
19,400.0	11,454.0	19,654.1	11,696.5	66.2	65.0	-100.48	8,106.9	-1,881.0	1,245.3	1,114.0	131.37	9.480	
19,475.0	11,454.0	19,745.4	11,694.1	66.8	65.6	-100.38	8,198.2	-1,880.9	1,244.3	1,111.8	132.54	9.388	
19,500.0	11,454.0	19,777.0	11,693.0	67.0	65.9	-100.34	8,229.8	-1,880.7	1,243.7	1,110.8	132.93	9.356	
19,570.0	11,454.0	19,839.8	11,690.7	67.5	66.3	-100.24	8,292.5	-1,880.1	1,242.0	1,108.1	133.90	9.275	
19,600.0	11,454.0	19,865.2	11,689.7	67.7	66.5	-100.20	8,317.9	-1,880.0	1,241.4	1,107.1	134.31	9.242	
19,665.0	11,454.0	19,936.0	11,687.0	68.1	67.0	-100.08	8,388.7	-1,879.8	1,240.3	1,105.0	135.28	9.168	
19,700.0	11,454.0	19,978.2	11,684.9	68.4	67.3	-100.00	8,430.8	-1,879.5	1,239.4	1,103.6	135.82	9.126	
19,760.0	11,454.0	20,027.1	11,683.1	68.8	67.7	-99.92	8,479.6	-1,879.2	1,238.0	1,101.4	136.63	9.061	
19,800.0	11,454.0	20,059.9	11,682.7	69.1	67.9	-99.90	8,512.5	-1,879.0	1,237.4	1,100.3	137.18	9.021	
19,855.0	11,454.0	20,114.9	11,683.0	69.5	68.3	-99.92	8,567.4	-1,878.8	1,236.8	1,098.8	137.98	8.964	
19,900.0	11,454.0	20,162.7	11,683.7	69.8	68.7	-99.96	8,615.3	-1,878.5	1,236.2	1,097.5	138.65	8.916	
19,950.0	11,454.0	20,202.4	11,684.6	70.2	69.0	-100.01	8,654.9	-1,878.2	1,235.6	1,096.3	139.32	8.869	
19,986.1	11,454.0	20,230.5	11,685.3	70.5	69.2	-100.04	8,683.0	-1,878.3	1,235.5	1,095.7	139.79	8.838	
20,000.0	11,454.0	20,241.2	11,685.7	70.6	69.2	-100.06	8,693.7	-1,878.3	1,235.5	1,095.5	139.97	8.827	
20,045.0	11,454.0	20,280.1	11,687.0	70.9	69.5	-100.12	8,732.6	-1,878.7	1,235.8	1,095.2	140.58	8.790	
20,100.0	11,454.0	20,333.8	11,688.7	71.3	69.9	-100.20	8,786.3	-1,879.3	1,236.2	1,094.8	141.38	8.744	
20,140.0	11,454.0	20,370.9	11,689.9	71.6	70.2	-100.25	8,823.4	-1,879.8	1,236.6	1,094.7	141.94	8.712	
20,200.0	11,454.0	20,423.1	11,692.0	72.0	70.6	-100.34	8,875.5	-1,880.6	1,237.4	1,094.7	142.75	8.668	
20,235.0	11,454.0	20,456.8	11,693.7	72.3	70.8	-100.42	8,909.2	-1,881.2	1,238.1	1,094.8	143.26	8.643	
20,300.0	11,454.0	20,554.7	11,697.8	72.7	71.5	-100.60	9,006.9	-1,881.9	1,238.4	1,094.0	144.45	8.573	
20,330.0	11,454.0	20,588.3	11,698.8	73.0	71.8	-100.66	9,040.6	-1,881.7	1,238.2	1,093.3	144.91	8.544	
20,400.0	11,454.0	20,637.0	11,700.1	73.5	72.1	-100.72	9,089.2	-1,881.2	1,237.4	1,091.6	145.80	8.487	
20,425.0	11,454.0	20,670.4	11,701.0	73.6	72.4	-100.77	9,122.6	-1,881.0	1,237.1	1,090.9	146.23	8.460	
20,427.0	11,454.0	20,671.6	11,701.1	73.7	72.4	-100.77	9,123.8	-1,881.0	1,237.1	1,090.8	146.25	8.459	
20,427.7	11,454.0	20,672.0	11,701.1	73.7	72.4	-100.77	9,124.3	-1,881.0	1,237.1	1,090.8	146.26	8.458	
20,500.0	11,454.0	20,731.0	11,703.6	74.2	72.8	-100.88	9,183.2	-1,882.0	1,238.1	1,090.8	147.23	8.409	
20,520.0	11,454.0	20,731.0	11,703.6	74.3	72.8	-100.88	9,183.2	-1,882.0	1,238.1	1,091.1	147.34	8.405	
20,600.0	11,454.0	20,851.2	11,705.0	74.9	73.7	-100.94	9,303.3	-1,883.8	1,239.0	1,090.1	148.84	8.324	
20,615.0	11,454.0	20,864.8	11,704.7	75.0	73.8	-100.93	9,316.9	-1,883.9	1,238.9	1,089.9	149.05	8.312	
20,669.0	11,454.0	20,913.7	11,703.7	75.4	74.2	-100.88	9,365.8	-1,884.4	1,238.8	1,089.0	149.81	8.269	
20,700.0	11,454.0	20,943.2	11,703.1	75.6	74.4	-100.85	9,395.3	-1,884.8	1,238.8	1,088.6	150.25	8.245	
20,710.0	11,454.0	20,952.9	11,702.8	75.7	74.5	-100.84	9,405.0	-1,885.0	1,238.8	1,088.4	150.40	8.237	
20,800.0	11,454.0	21,039.3	11,700.7	76.4	75.1	-100.73	9,491.3	-1,886.4	1,239.1	1,087.4	151.69	8.169	
20,805.0	11,454.0	21,044.0	11,700.5	76.4	75.1	-100.73	9,496.0	-1,886.5	1,239.1	1,087.3	151.76	8.165	
20,900.0	11,454.0	21,131.0	11,698.1	77.1	75.8	-100.61	9,582.9	-1,888.4	1,239.8	1,086.7	153.09	8.099 ES	
20,995.0	11,454.0	21,214.4	11,695.8	77.8	76.4	-100.49	9,666.3	-1,891.0	1,241.4	1,087.0	154.38	8.041	
21,000.0	11,454.0	21,219.6	11,695.7	77.8	76.4	-100.48	9,671.5	-1,891.2	1,241.5	1,087.0	154.45	8.038	
21,090.0	11,454.0	21,313.6	11,692.8	78.5	77.1	-100.33	9,765.4	-1,894.3	1,243.1	1,087.3	155.81	7.979	
21,100.0	11,454.0	21,323.8	11,692.5	78.6	77.2	-100.32	9,775.6	-1,894.6	1,243.3	1,087.4	155.96	7.972	
21,185.0	11,454.0	21,408.2	11,689.7	79.2	77.8	-100.17	9,859.9	-1,897.3	1,244.7	1,087.5	157.20	7.918	
21,200.0	11,454.0	21,421.6	11,689.3	79.3	77.9	-100.15	9,873.2	-1,897.8	1,245.0	1,087.6	157.41	7.909	
21,280.0	11,454.0	21,493.9	11,687.8	79.9	78.5	-100.07	9,945.6	-1,900.4	1,246.8	1,088.3	158.51	7.866	
21,300.0	11,454.0	21,516.8	11,687.4	80.0	78.6	-100.05	9,968.4	-1,901.2	1,247.3	1,088.4	158.83	7.853	
21,375.0	11,454.0	21,600.6	11,685.4	80.6	79.3	-99.94	10,052.2	-1,903.9	1,248.6	1,088.6	160.02	7.803	
21,400.0	11,454.0	21,626.1	11,684.7	80.8	79.4	-99.90	10,077.6	-1,904.6	1,249.0	1,088.6	160.39	7.788	
21,470.0	11,454.0	21,695.7	11,682.7	81.3	80.0	-99.80	10,147.2	-1,906.7	1,250.1	1,088.7	161.41	7.745	
21,500.0	11,454.0	21,723.6	11,681.9	81.5	80.2	-99.76	10,175.0	-1,907.5	1,250.6	1,088.7	161.84	7.727	
21,565.0	11,454.0	21,785.6	11,680.3	82.0	80.6	-99.68	10,237.0	-1,909.5	1,251.8	1,089.0	162.77	7.691	
21,600.0	11,454.0	21,822.7	11,679.3	82.2	80.9	-99.63	10,274.1	-1,910.8	1,252.5	1,089.2	163.30	7.670	
21,660.0	11,454.0	21,883.4	11,677.6	82.7	81.4	-99.54	10,334.7	-1,912.6	1,253.5	1,089.3	164.19	7.634	
21,700.0	11,454.0	21,919.0	11,676.6	83.0	81.6	-99.49	10,370.3	-1,913.8	1,254.2	1,089.5	164.74	7.613	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
21,755.0	11,454.0	21,963.0	11,675.5	83.4	81.9	-99.43	10,414.2	-1,915.4	1,255.5	1,090.1	165.45	7.589	
21,760.3	11,454.0	21,971.2	11,675.3	83.4	82.0	-99.42	10,422.4	-1,915.8	1,255.7	1,090.1	165.55	7.585 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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)	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	-90.40	-0.4	-59.8	59.8				
95.0	95.0	95.0	95.0	3.0	3.0	-90.40	-0.4	-59.8	59.8	53.8	6.03	9.921	
100.0	100.0	100.0	100.0	3.0	3.0	-90.40	-0.4	-59.8	59.8	53.8	6.03	9.916	
190.0	190.0	190.0	190.0	3.1	3.1	-90.40	-0.4	-59.8	59.8	53.6	6.15	9.717	
200.0	200.0	200.0	200.0	3.1	3.1	-90.40	-0.4	-59.8	59.8	53.6	6.17	9.686	
285.0	285.0	285.0	285.0	3.2	3.2	-90.40	-0.4	-59.8	59.8	53.5	6.31	9.473	
300.0	300.0	300.0	300.0	3.2	3.2	-90.40	-0.4	-59.8	59.8	53.4	6.34	9.431	
380.0	380.0	380.0	380.0	3.3	3.3	-90.40	-0.4	-59.8	59.8	53.3	6.49	9.214	
400.0	400.0	400.0	400.0	3.3	3.3	-90.40	-0.4	-59.8	59.8	53.3	6.53	9.156	
475.0	475.0	475.0	475.0	3.4	3.4	-90.40	-0.4	-59.8	59.8	53.1	6.68	8.944	
500.0	500.0	500.0	500.0	3.4	3.4	-90.40	-0.4	-59.8	59.8	53.0	6.74	8.870	
570.0	570.0	570.0	570.0	3.5	3.5	-90.40	-0.4	-59.8	59.8	52.9	6.90	8.667	
600.0	600.0	600.0	600.0	3.5	3.5	-90.40	-0.4	-59.8	59.8	52.8	6.97	8.578	
665.0	665.0	665.0	665.0	3.6	3.6	-90.40	-0.4	-59.8	59.8	52.7	7.13	8.388	
700.0	700.0	700.0	700.0	3.7	3.7	-90.40	-0.4	-59.8	59.8	52.6	7.22	8.285	
760.0	760.0	760.0	760.0	3.8	3.8	-90.40	-0.4	-59.8	59.8	52.4	7.37	8.111	
800.0	800.0	800.0	800.0	3.8	3.8	-90.40	-0.4	-59.8	59.8	52.3	7.48	7.995	
855.0	855.0	855.0	855.0	3.9	3.9	-90.40	-0.4	-59.8	59.8	52.2	7.63	7.838	
900.0	900.0	900.0	900.0	4.0	4.0	-90.40	-0.4	-59.8	59.8	52.0	7.75	7.711	
950.0	950.0	950.0	950.0	4.1	4.1	-90.40	-0.4	-59.8	59.8	51.9	7.90	7.572	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-90.40	-0.4	-59.8	59.8	51.7	8.04	7.434 CC, ES	
1,045.0	1,045.0	1,044.1	1,044.1	4.2	4.2	-90.40	-0.4	-60.1	60.1	51.9	8.22	7.319	
1,100.0	1,100.0	1,097.9	1,097.9	4.3	4.3	-90.40	-0.4	-61.5	61.5	53.1	8.43	7.292	
1,140.0	1,140.0	1,137.0	1,137.0	4.4	4.4	-90.39	-0.4	-63.1	63.1	54.5	8.61	7.335	
1,200.0	1,200.0	1,195.6	1,195.5	4.5	4.6	-90.39	-0.4	-66.5	66.6	57.7	8.87	7.509	
1,235.0	1,235.0	1,229.7	1,229.5	4.6	4.7	-90.38	-0.5	-69.0	69.2	60.2	9.03	7.667	
1,300.0	1,300.0	1,292.8	1,292.3	4.7	4.9	-90.37	-0.5	-74.7	75.1	65.8	9.32	8.062	
1,330.0	1,330.0	1,321.9	1,321.2	4.7	5.0	-90.36	-0.5	-77.8	78.3	68.9	9.45	8.286	
1,400.0	1,400.0	1,389.4	1,388.2	4.9	5.2	-90.35	-0.5	-86.2	87.0	77.2	9.78	8.900	
1,425.0	1,425.0	1,413.4	1,412.0	4.9	5.3	-90.35	-0.5	-89.6	90.5	80.6	9.89	9.148	
1,500.0	1,500.0	1,485.1	1,482.8	5.1	5.5	-90.33	-0.6	-100.8	102.2	92.0	10.25	9.977	
1,520.0	1,520.0	1,504.1	1,501.5	5.1	5.6	-90.33	-0.6	-104.0	105.7	95.3	10.34	10.218	
1,600.0	1,600.0	1,579.7	1,575.7	5.3	5.9	-90.32	-0.7	-118.2	120.7	110.0	10.72	11.255	
1,615.0	1,615.0	1,593.8	1,589.5	5.3	5.9	-90.32	-0.7	-121.1	123.7	112.9	10.80	11.462	
1,700.0	1,700.0	1,676.7	1,670.6	5.5	6.2	-90.30	-0.7	-138.3	141.4	130.2	11.20	12.625	
1,710.0	1,710.0	1,686.4	1,680.2	5.5	6.2	-90.30	-0.7	-140.4	143.5	132.2	11.25	12.756	
1,800.0	1,800.0	1,774.5	1,766.3	5.7	6.5	-90.30	-0.8	-158.7	162.2	150.5	11.70	13.868	
1,805.0	1,805.0	1,779.4	1,771.1	5.7	6.5	-90.29	-0.8	-159.7	163.2	151.5	11.72	13.927	
1,900.0	1,900.0	1,872.3	1,862.0	5.9	6.8	-90.29	-0.9	-179.0	183.0	170.8	12.21	14.986	
1,995.0	1,995.0	1,965.2	1,952.8	6.1	7.1	-90.28	-1.0	-198.3	202.7	190.0	12.72	15.943	
2,000.0	2,000.0	1,970.1	1,957.6	6.1	7.2	-90.28	-1.0	-199.3	203.8	191.0	12.74	15.991	
2,090.0	2,090.0	2,058.1	2,043.7	6.3	7.5	-90.28	-1.1	-217.6	222.5	209.3	13.24	16.810	
2,100.0	2,100.0	2,067.9	2,053.3	6.3	7.5	-90.28	-1.1	-219.7	224.6	211.3	13.29	16.896	
2,185.0	2,185.0	2,151.1	2,134.6	6.5	7.8	-90.27	-1.1	-237.0	242.2	228.5	13.77	17.596	
2,200.0	2,200.0	2,165.7	2,149.0	6.5	7.9	-90.27	-1.1	-240.0	245.4	231.5	13.85	17.713	
2,280.0	2,280.0	2,244.0	2,225.5	6.7	8.2	-90.27	-1.2	-256.3	262.0	247.7	14.31	18.310	
2,300.0	2,300.0	2,263.5	2,244.7	6.7	8.3	-90.27	-1.2	-260.3	266.2	251.7	14.42	18.452	
2,375.0	2,375.0	2,336.9	2,316.4	6.9	8.5	-90.27	-1.3	-275.6	281.8	266.9	14.86	18.961	
2,400.0	2,400.0	2,361.4	2,340.3	6.9	8.6	-90.27	-1.3	-280.7	286.9	271.9	15.01	19.122	
2,470.0	2,470.0	2,429.8	2,407.3	7.1	8.9	-90.26	-1.4	-294.9	301.5	286.1	15.42	19.554	
2,500.0	2,500.0	2,459.2	2,436.0	7.2	9.0	-90.26	-1.4	-301.0	307.7	292.1	15.60	19.731	
2,565.0	2,565.0	2,522.9	2,498.4	7.2	9.3	-0.30	-1.4	-314.3	320.5	304.5	15.99	20.043	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,600.0	2,600.0	2,557.3	2,532.0	7.3	9.4	-0.30	-1.5	-321.4	326.8	310.6	16.21	20.167	
2,660.0	2,659.9	2,616.5	2,589.9	7.4	9.7	-0.30	-1.5	-333.7	336.6	320.0	16.57	20.314	
2,700.0	2,699.8	2,656.1	2,628.6	7.4	9.8	-0.30	-1.6	-342.0	342.5	325.6	16.82	20.364	
2,755.0	2,754.7	2,710.6	2,682.0	7.4	10.1	-0.30	-1.6	-353.3	349.6	332.4	17.17	20.366	
2,800.0	2,799.5	2,755.3	2,725.7	7.5	10.3	-0.31	-1.6	-362.6	354.6	337.2	17.45	20.320	
2,850.0	2,849.1	2,805.1	2,774.4	7.5	10.5	-0.31	-1.7	-372.9	359.4	341.7	17.79	20.210	
2,900.0	2,898.7	2,855.0	2,823.2	7.6	10.7	-0.31	-1.7	-383.3	363.4	345.2	18.12	20.056	
2,945.0	2,943.2	2,899.9	2,867.1	7.6	10.9	-0.32	-1.8	-392.6	366.2	347.8	18.37	19.928	
2,950.0	2,948.2	2,904.9	2,872.0	7.6	10.9	-0.32	-1.8	-393.7	366.4	348.0	18.40	19.912	
3,000.0	2,997.5	2,954.8	2,920.8	7.6	11.1	-0.32	-1.8	-404.1	369.0	350.3	18.69	19.744	
3,040.0	3,037.0	2,994.7	2,959.9	7.7	11.3	-0.33	-1.8	-412.4	371.1	352.2	18.95	19.585	
3,100.0	3,096.3	3,054.7	3,018.5	7.8	11.5	-0.33	-1.9	-424.8	374.3	354.9	19.35	19.346	
3,135.0	3,130.9	3,089.6	3,052.7	7.9	11.7	-0.34	-1.9	-432.1	376.1	356.5	19.58	19.207	
3,200.0	3,195.1	3,154.5	3,116.2	8.0	12.0	-0.34	-2.0	-445.6	379.5	359.5	20.02	18.953	
3,230.0	3,224.7	3,184.5	3,145.5	8.1	12.1	-0.35	-2.0	-451.8	381.1	360.8	20.23	18.835	
3,300.0	3,293.8	3,254.4	3,213.9	8.3	12.4	-0.35	-2.1	-466.3	384.7	364.0	20.72	18.567	
3,325.0	3,318.5	3,279.3	3,238.3	8.3	12.5	-0.36	-2.1	-471.5	386.0	365.1	20.90	18.470	
3,400.0	3,392.6	3,354.2	3,311.5	8.5	12.9	-0.36	-2.1	-487.1	390.0	368.5	21.44	18.189	
3,420.0	3,412.4	3,374.2	3,331.1	8.6	12.9	-0.37	-2.2	-491.3	391.0	369.4	21.59	18.114	
3,500.0	3,491.4	3,454.1	3,409.2	8.8	13.3	-0.37	-2.2	-507.9	395.2	373.0	22.17	17.822	
3,515.0	3,506.2	3,469.1	3,423.9	8.8	13.4	-0.37	-2.2	-511.0	396.0	373.7	22.29	17.768	
3,600.0	3,590.1	3,554.0	3,506.9	9.1	13.7	-0.38	-2.3	-528.6	400.4	377.5	22.93	17.467	
3,610.0	3,600.0	3,564.0	3,516.7	9.1	13.8	-0.38	-2.3	-530.7	401.0	378.0	23.00	17.432	
3,700.0	3,688.9	3,653.8	3,604.6	9.4	14.2	-0.39	-2.4	-549.4	405.7	382.0	23.69	17.124	
3,705.0	3,693.9	3,658.8	3,609.5	9.4	14.2	-0.39	-2.4	-550.4	405.9	382.2	23.73	17.107	
3,800.0	3,787.7	3,753.7	3,702.3	9.7	14.6	-0.40	-2.5	-570.2	410.9	386.4	24.47	16.793	
3,895.0	3,881.5	3,848.6	3,795.1	10.0	15.1	-0.41	-2.5	-589.9	415.9	390.7	25.22	16.491	
3,900.0	3,886.5	3,853.6	3,799.9	10.0	15.1	-0.41	-2.6	-590.9	416.1	390.9	25.26	16.476	
3,990.0	3,975.3	3,943.4	3,887.8	10.3	15.5	-0.42	-2.6	-609.6	420.8	394.9	25.98	16.200	
4,000.0	3,985.2	3,953.4	3,897.6	10.3	15.5	-0.42	-2.6	-611.7	421.4	395.3	26.06	16.171	
4,085.0	4,069.2	4,038.3	3,980.6	10.6	15.9	-0.42	-2.7	-629.3	425.8	399.1	26.75	15.921	
4,100.0	4,084.0	4,053.3	3,995.3	10.7	16.0	-0.43	-2.7	-632.4	426.6	399.7	26.87	15.878	
4,180.0	4,163.0	4,133.2	4,073.4	11.0	16.4	-0.43	-2.8	-649.1	430.8	403.3	27.52	15.653	
4,200.0	4,182.8	4,153.1	4,093.0	11.0	16.4	-0.43	-2.8	-653.2	431.8	404.2	27.69	15.598	
4,275.0	4,256.8	4,228.0	4,166.2	11.3	16.8	-0.44	-2.9	-668.8	435.8	407.5	28.30	15.395	
4,300.0	4,281.5	4,253.0	4,190.7	11.4	16.9	-0.44	-2.9	-674.0	437.1	408.6	28.51	15.330	
4,370.0	4,350.7	4,322.9	4,259.0	11.6	17.2	-0.45	-2.9	-688.5	440.7	411.6	29.09	15.148	
4,400.0	4,380.3	4,352.9	4,288.3	11.7	17.4	-0.45	-3.0	-694.7	442.3	413.0	29.35	15.073	
4,465.0	4,444.5	4,417.8	4,351.8	12.0	17.7	-0.45	-3.0	-708.2	445.7	415.8	29.89	14.911	
4,500.0	4,479.1	4,452.7	4,386.0	12.1	17.8	-0.46	-3.1	-715.5	447.5	417.4	30.18	14.827	
4,560.0	4,538.3	4,512.7	4,444.6	12.3	18.1	-0.46	-3.1	-728.0	450.7	420.0	30.69	14.684	
4,600.0	4,577.8	4,552.6	4,483.7	12.5	18.3	-0.46	-3.1	-736.3	452.8	421.7	31.03	14.591	
4,655.0	4,632.2	4,607.5	4,537.4	12.7	18.5	-0.47	-3.2	-747.7	455.7	424.2	31.50	14.466	
4,700.0	4,676.6	4,652.5	4,581.4	12.8	18.7	-0.47	-3.2	-757.0	458.0	426.1	31.88	14.366	
4,750.0	4,726.0	4,702.4	4,630.2	13.0	19.0	-0.47	-3.3	-767.4	460.6	428.3	32.31	14.257	
4,800.0	4,775.4	4,752.3	4,679.1	13.2	19.2	-0.48	-3.3	-777.8	463.2	430.5	32.74	14.150	
4,845.0	4,819.8	4,797.3	4,723.0	13.4	19.4	-0.48	-3.3	-787.1	465.6	432.5	33.13	14.056	
4,900.0	4,874.1	4,852.2	4,776.7	13.6	19.6	-0.48	-3.4	-798.5	468.5	434.9	33.60	13.943	
4,940.0	4,913.7	4,892.1	4,815.8	13.8	19.8	-0.49	-3.4	-806.8	470.6	436.6	33.94	13.863	
5,000.0	4,972.9	4,952.1	4,874.4	14.0	20.1	-0.49	-3.5	-819.3	473.7	439.2	34.46	13.745	
5,035.0	5,007.5	4,987.0	4,908.6	14.1	20.3	-0.49	-3.5	-826.6	475.5	440.8	34.77	13.678	
5,100.0	5,071.7	5,051.9	4,972.1	14.4	20.6	-0.50	-3.6	-840.1	478.9	443.6	35.33	13.555	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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	
5,130.0	5,101.3	5,081.9	5,001.4	14.5	20.7	-0.50	-3.6	-846.3	480.5	444.9	35.59	13.500	
5,200.0	5,170.5	5,151.8	5,069.8	14.8	21.0	-0.50	-3.6	-860.8	484.2	448.0	36.21	13.373	
5,225.0	5,195.1	5,176.7	5,094.2	14.9	21.1	-0.50	-3.7	-866.0	485.5	449.1	36.42	13.329	
5,300.0	5,269.2	5,251.6	5,167.5	15.2	21.5	-0.51	-3.7	-881.6	489.4	452.3	37.08	13.199	
5,320.0	5,289.0	5,271.6	5,187.0	15.3	21.6	-0.51	-3.7	-885.7	490.5	453.2	37.26	13.165	
5,400.0	5,368.0	5,351.5	5,265.1	15.6	22.0	-0.51	-3.8	-902.4	494.6	456.7	37.96	13.031	
5,415.0	5,382.8	5,366.5	5,279.8	15.6	22.0	-0.51	-3.8	-905.5	495.4	457.3	38.09	13.006	
5,500.0	5,466.8	5,451.4	5,362.8	16.0	22.4	-0.52	-3.9	-923.1	499.9	461.0	38.84	12.870	
5,510.0	5,476.6	5,461.4	5,372.6	16.0	22.5	-0.52	-3.9	-925.2	500.4	461.5	38.93	12.854	
5,600.0	5,565.5	5,551.2	5,460.5	16.4	22.9	-0.53	-4.0	-943.9	505.1	465.4	39.73	12.715	
5,605.0	5,570.5	5,556.2	5,465.4	16.4	22.9	-0.53	-4.0	-944.9	505.4	465.6	39.77	12.708	
5,700.0	5,664.3	5,651.1	5,558.2	16.8	23.4	-0.53	-4.1	-964.6	510.4	469.7	40.61	12.567	
5,795.0	5,758.1	5,746.0	5,651.0	17.2	23.8	-0.54	-4.1	-984.4	515.3	473.9	41.46	12.431	
5,800.0	5,763.1	5,751.0	5,655.9	17.2	23.8	-0.54	-4.1	-985.4	515.6	474.1	41.50	12.424	
5,890.0	5,852.0	5,840.8	5,743.8	17.6	24.2	-0.54	-4.2	-1,004.1	520.3	478.0	42.30	12.299	
5,900.0	5,861.8	5,850.8	5,753.5	17.6	24.3	-0.54	-4.2	-1,006.2	520.8	478.4	42.39	12.286	
5,985.0	5,945.8	5,935.7	5,836.6	18.0	24.7	-0.55	-4.3	-1,023.8	525.3	482.1	43.15	12.173	
5,999.4	5,960.0	5,950.1	5,850.6	18.0	24.7	-0.55	-4.3	-1,026.8	526.0	482.7	43.28	12.154	
6,080.0	6,039.7	6,030.5	5,929.3	18.3	25.1	-0.55	-4.4	-1,043.5	530.8	486.8	44.00	12.065	
6,100.0	6,059.5	6,050.5	5,948.9	18.4	25.2	-0.55	-4.4	-1,047.7	532.2	488.0	44.17	12.047	
6,175.0	6,133.8	6,125.3	6,022.0	18.7	25.6	-0.55	-4.4	-1,063.2	537.9	493.1	44.83	11.998	
6,200.0	6,158.6	6,150.2	6,046.4	18.8	25.7	-0.56	-4.5	-1,068.4	540.0	495.0	45.05	11.987	
6,270.0	6,228.2	6,219.9	6,114.5	19.1	26.0	-0.56	-4.5	-1,082.9	546.6	500.9	45.66	11.971	
6,300.0	6,258.0	6,249.7	6,143.7	19.2	26.2	-0.56	-4.6	-1,089.1	549.6	503.7	45.92	11.970	
6,365.0	6,322.7	6,314.3	6,206.9	19.5	26.5	-0.56	-4.6	-1,102.5	556.8	510.3	46.47	11.982	
6,400.0	6,357.5	6,349.1	6,240.9	19.6	26.6	-0.56	-4.6	-1,109.8	561.0	514.2	46.77	11.994	
6,460.0	6,417.3	6,408.6	6,299.1	19.8	26.9	-0.56	-4.7	-1,122.1	568.6	521.3	47.27	12.029	
6,500.0	6,457.2	6,448.2	6,337.9	20.0	27.1	-0.56	-4.7	-1,130.4	574.0	526.4	47.60	12.058	
6,555.0	6,512.1	6,502.6	6,391.1	20.1	27.3	-0.55	-4.8	-1,141.7	581.9	533.9	48.05	12.111	
6,600.0	6,557.0	6,547.1	6,434.6	20.3	27.5	-0.55	-4.8	-1,150.9	588.8	540.4	48.41	12.163	
6,650.0	6,607.0	6,598.3	6,484.7	20.5	27.8	-0.55	-4.8	-1,161.5	596.8	548.0	48.81	12.227	
6,700.0	6,657.0	6,650.4	6,535.7	20.6	28.0	-0.55	-4.9	-1,172.1	605.0	555.8	49.22	12.292	
6,745.0	6,701.9	6,697.2	6,581.6	20.7	28.2	-0.55	-4.9	-1,181.4	612.6	563.0	49.57	12.357	
6,800.0	6,756.9	6,754.5	6,637.8	20.9	28.5	-0.54	-5.0	-1,192.5	622.0	572.0	50.00	12.441	
6,840.0	6,796.9	6,796.1	6,678.7	21.0	28.7	-0.54	-5.0	-1,200.4	629.1	578.8	50.26	12.517	
6,899.4	6,856.3	6,858.0	6,739.4	21.0	29.0	-90.50	-5.0	-1,211.8	639.8	589.2	50.64	12.635	
6,935.0	6,891.9	6,895.1	6,775.9	21.1	29.1	-90.49	-5.1	-1,218.6	646.2	595.4	50.82	12.716	
7,000.0	6,956.9	6,962.9	6,842.7	21.1	29.4	-90.49	-5.1	-1,230.5	657.7	606.6	51.16	12.857	
7,030.0	6,986.9	6,994.3	6,873.6	21.1	29.6	-90.49	-5.1	-1,235.9	662.9	611.6	51.31	12.919	
7,100.0	7,056.9	7,067.5	6,945.8	21.1	29.9	-90.48	-5.2	-1,248.2	674.6	623.0	51.67	13.057	
7,125.0	7,081.9	7,093.8	6,971.7	21.1	30.0	-90.48	-5.2	-1,252.5	678.7	626.9	51.79	13.104	
7,200.0	7,156.9	7,172.5	7,049.5	21.2	30.4	-90.48	-5.3	-1,265.0	690.6	638.5	52.17	13.239	
7,220.0	7,176.9	7,193.5	7,070.2	21.2	30.5	-90.47	-5.3	-1,268.3	693.7	641.5	52.27	13.272	
7,300.0	7,256.9	7,277.8	7,153.5	21.2	30.8	-90.47	-5.3	-1,280.9	705.7	653.1	52.66	13.401	
7,315.0	7,271.9	7,293.6	7,169.2	21.2	30.9	-90.47	-5.3	-1,283.2	707.9	655.2	52.74	13.424	
7,400.0	7,356.9	7,383.3	7,258.0	21.2	31.3	-90.47	-5.4	-1,295.9	719.9	666.8	53.15	13.547	
7,410.0	7,366.9	7,393.9	7,268.5	21.2	31.4	-90.46	-5.4	-1,297.4	721.3	668.1	53.19	13.560	
7,500.0	7,456.9	7,489.2	7,362.9	21.3	31.8	-90.46	-5.4	-1,310.0	733.2	679.6	53.62	13.674	
7,505.0	7,461.9	7,494.5	7,368.1	21.3	31.8	-90.46	-5.4	-1,310.7	733.9	680.2	53.64	13.680	
7,600.0	7,556.9	7,595.2	7,468.1	21.3	32.2	-90.46	-5.5	-1,323.1	745.6	691.5	54.08	13.786	
7,695.0	7,651.9	7,696.2	7,568.5	21.3	32.6	-90.45	-5.5	-1,334.7	756.5	702.0	54.51	13.877	
7,700.0	7,656.9	7,701.5	7,573.8	21.3	32.6	-90.45	-5.5	-1,335.3	757.0	702.5	54.54	13.881	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,790.0	7,746.9	7,797.4	7,669.1	21.4	33.0	-90.45	-5.6	-1,345.4	766.5	711.6	54.94	13.954	
7,800.0	7,756.9	7,808.1	7,679.7	21.4	33.1	-90.45	-5.6	-1,346.5	767.6	712.6	54.98	13.961	
7,885.0	7,841.9	7,898.8	7,770.0	21.4	33.4	-90.45	-5.6	-1,355.2	775.8	720.4	55.34	14.017	
7,900.0	7,856.9	7,914.8	7,785.9	21.4	33.5	-90.45	-5.6	-1,356.7	777.2	721.7	55.41	14.026	
7,980.0	7,936.9	8,000.3	7,871.1	21.4	33.8	-90.44	-5.7	-1,364.2	784.2	728.4	55.74	14.068	
8,000.0	7,956.9	8,021.7	7,892.4	21.4	33.9	-90.44	-5.7	-1,366.0	785.8	730.0	55.82	14.077	
8,075.0	8,031.9	8,102.0	7,972.5	21.5	34.2	-90.44	-5.7	-1,372.3	791.7	735.6	56.13	14.105	
8,100.0	8,056.9	8,128.8	7,999.2	21.5	34.3	-90.44	-5.7	-1,374.3	793.6	737.3	56.23	14.114	
8,170.0	8,126.9	8,203.8	8,074.1	21.5	34.6	-90.44	-5.7	-1,379.5	798.4	741.9	56.50	14.131	
8,200.0	8,156.9	8,236.0	8,106.2	21.5	34.7	-90.44	-5.7	-1,381.6	800.4	743.7	56.61	14.137	
8,265.0	8,221.9	8,305.8	8,175.8	21.5	35.0	-90.44	-5.7	-1,385.8	804.3	747.4	56.86	14.146	
8,300.0	8,256.9	8,343.4	8,213.4	21.6	35.1	-90.44	-5.8	-1,387.9	806.2	749.2	56.98	14.148	
8,360.0	8,316.9	8,407.8	8,277.7	21.6	35.3	-90.44	-5.8	-1,391.2	809.3	752.1	57.20	14.149	
8,400.0	8,356.9	8,450.8	8,320.7	21.6	35.5	-90.44	-5.8	-1,393.2	811.2	753.8	57.34	14.147	
8,455.0	8,411.9	8,510.0	8,379.8	21.6	35.7	-90.44	-5.8	-1,395.7	813.5	756.0	57.52	14.142	
8,500.0	8,456.9	8,558.4	8,428.1	21.6	35.8	-90.44	-5.8	-1,397.5	815.2	757.5	57.67	14.135	
8,550.0	8,506.9	8,612.2	8,481.9	21.7	36.0	-90.44	-5.8	-1,399.2	816.8	759.0	57.83	14.125	
8,600.0	8,556.9	8,666.0	8,535.7	21.7	36.1	-90.44	-5.8	-1,400.8	818.2	760.2	57.98	14.113	
8,645.0	8,601.9	8,714.5	8,584.2	21.7	36.3	-90.43	-5.8	-1,401.9	819.3	761.2	58.11	14.100	
8,700.0	8,656.9	8,773.7	8,643.4	21.7	36.4	-90.43	-5.8	-1,403.1	820.3	762.1	58.26	14.082	
8,740.0	8,696.9	8,816.8	8,686.4	21.7	36.5	-90.43	-5.8	-1,403.7	820.9	762.6	58.36	14.068	
8,800.0	8,756.9	8,881.4	8,751.1	21.8	36.7	-90.43	-5.8	-1,404.3	821.5	763.0	58.49	14.045	
8,835.0	8,791.9	8,919.1	8,788.8	21.8	36.8	-90.43	-5.8	-1,404.5	821.7	763.2	58.55	14.036	
8,900.0	8,856.9	8,987.2	8,856.9	21.8	36.8	-90.43	-5.8	-1,404.6	821.8	763.2	58.59	14.026	
8,930.0	8,886.9	9,017.2	8,886.9	21.8	36.8	-90.43	-5.8	-1,404.6	821.8	763.2	58.61	14.022	
9,000.0	8,956.9	9,087.2	8,956.9	21.8	36.8	-90.43	-5.8	-1,404.6	821.8	763.1	58.65	14.012	
9,025.0	8,981.9	9,112.2	8,981.9	21.8	36.8	-90.43	-5.8	-1,404.6	821.8	763.1	58.66	14.009	
9,100.0	9,056.9	9,187.2	9,056.9	21.9	36.8	-90.43	-5.8	-1,404.6	821.8	763.1	58.71	13.998	
9,120.0	9,076.9	9,207.2	9,076.9	21.9	36.8	-90.43	-5.8	-1,404.6	821.8	763.1	58.72	13.995	
9,200.0	9,156.9	9,287.2	9,156.9	21.9	36.9	-90.43	-5.8	-1,404.6	821.8	763.0	58.77	13.983	
9,215.0	9,171.9	9,302.2	9,171.9	21.9	36.9	-90.43	-5.8	-1,404.6	821.8	763.0	58.78	13.981	
9,300.0	9,256.9	9,387.2	9,256.9	22.0	36.9	-90.43	-5.8	-1,404.6	821.8	763.0	58.83	13.969	
9,310.0	9,266.9	9,397.2	9,266.9	22.0	36.9	-90.43	-5.8	-1,404.6	821.8	763.0	58.84	13.967	
9,400.0	9,356.9	9,487.2	9,356.9	22.0	36.9	-90.43	-5.8	-1,404.6	821.8	762.9	58.89	13.954	
9,405.0	9,361.9	9,492.2	9,361.9	22.0	36.9	-90.43	-5.8	-1,404.6	821.8	762.9	58.89	13.954	
9,500.0	9,456.9	9,587.2	9,456.9	22.0	36.9	-90.43	-5.8	-1,404.6	821.8	762.8	58.95	13.940	
9,595.0	9,551.9	9,682.2	9,551.9	22.1	36.9	-90.43	-5.8	-1,404.6	821.8	762.8	59.01	13.926	
9,600.0	9,556.9	9,687.2	9,556.9	22.1	36.9	-90.43	-5.8	-1,404.6	821.8	762.8	59.02	13.925	
9,690.0	9,646.9	9,777.2	9,646.9	22.1	37.0	-90.43	-5.8	-1,404.6	821.8	762.7	59.07	13.912	
9,700.0	9,656.9	9,787.2	9,656.9	22.1	37.0	-90.43	-5.8	-1,404.6	821.8	762.7	59.08	13.910	
9,785.0	9,741.9	9,872.2	9,741.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.7	59.13	13.898	
9,800.0	9,756.9	9,887.2	9,756.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.7	59.14	13.895	
9,880.0	9,836.9	9,967.2	9,836.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.6	59.19	13.884	
9,900.0	9,856.9	9,987.2	9,856.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.6	59.20	13.881	
9,975.0	9,931.9	10,062.2	9,931.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.5	59.25	13.869	
10,000.0	9,956.9	10,087.2	9,956.9	22.2	37.0	-90.43	-5.8	-1,404.6	821.8	762.5	59.27	13.866	
10,070.0	10,026.9	10,157.2	10,026.9	22.3	37.0	-90.43	-5.8	-1,404.6	821.8	762.5	59.31	13.855	
10,100.0	10,056.9	10,187.2	10,056.9	22.3	37.1	-90.43	-5.8	-1,404.6	821.8	762.5	59.33	13.851	
10,165.0	10,121.9	10,252.2	10,121.9	22.3	37.1	-90.43	-5.8	-1,404.6	821.8	762.4	59.37	13.841	
10,200.0	10,156.9	10,287.2	10,156.9	22.3	37.1	-90.43	-5.8	-1,404.6	821.8	762.4	59.40	13.836	
10,260.0	10,216.9	10,347.2	10,216.9	22.4	37.1	-90.43	-5.8	-1,404.6	821.8	762.4	59.44	13.827	
10,300.0	10,256.9	10,387.2	10,256.9	22.4	37.1	-90.43	-5.8	-1,404.6	821.8	762.3	59.46	13.821	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	
10,355.0	10,311.9	10,442.2	10,311.9	22.4	37.1	-90.43	-5.8	-1,404.6	821.8	762.3	59.50	13.812	
10,400.0	10,356.9	10,487.2	10,356.9	22.4	37.1	-90.43	-5.8	-1,404.6	821.8	762.3	59.53	13.805	
10,450.0	10,406.9	10,537.2	10,406.9	22.4	37.1	-90.43	-5.8	-1,404.6	821.8	762.2	59.56	13.798	
10,500.0	10,456.9	10,587.2	10,456.9	22.5	37.1	-90.43	-5.8	-1,404.6	821.8	762.2	59.59	13.790	
10,545.0	10,501.9	10,632.2	10,501.9	22.5	37.2	-90.43	-5.8	-1,404.6	821.8	762.2	59.62	13.783	
10,600.0	10,556.9	10,687.2	10,556.9	22.5	37.2	-90.43	-5.8	-1,404.6	821.8	762.1	59.66	13.775	
10,640.0	10,596.9	10,727.2	10,596.9	22.5	37.2	-90.43	-5.8	-1,404.6	821.8	762.1	59.69	13.769	
10,700.0	10,656.9	10,787.2	10,656.9	22.5	37.2	-90.43	-5.8	-1,404.6	821.8	762.1	59.73	13.760	
10,735.0	10,691.9	10,822.2	10,691.9	22.6	37.2	-90.43	-5.8	-1,404.6	821.8	762.0	59.75	13.754	
10,800.0	10,756.9	10,887.2	10,756.9	22.6	37.2	-90.43	-5.8	-1,404.6	821.8	762.0	59.79	13.744	
10,830.0	10,786.9	10,917.2	10,786.9	22.6	37.2	-90.43	-5.8	-1,404.6	821.8	762.0	59.81	13.740	
10,900.0	10,856.9	10,987.2	10,856.9	22.6	37.2	-90.43	-5.8	-1,404.6	821.8	761.9	59.86	13.729	
10,925.0	10,881.9	11,012.2	10,881.9	22.6	37.2	-90.43	-5.8	-1,404.6	821.8	761.9	59.88	13.725	
11,000.0	10,956.9	11,087.2	10,956.9	22.7	37.3	-90.43	-5.8	-1,404.6	821.8	761.9	59.93	13.713	
11,019.6	10,976.5	11,106.9	10,976.5	22.7	37.3	-90.43	-5.8	-1,404.6	821.8	761.9	59.93	13.711	
11,020.0	10,976.9	11,107.2	10,976.9	22.7	37.3	-89.91	-5.8	-1,404.6	821.8	761.9	59.94	13.711	
11,025.0	10,981.9	11,112.2	10,981.9	22.7	37.3	-89.91	-5.8	-1,404.6	821.8	761.9	59.94	13.711	
11,050.0	11,006.9	11,137.2	11,006.8	22.7	37.3	-89.91	-4.9	-1,404.6	821.8	761.9	59.94	13.711	
11,075.0	11,031.8	11,162.1	11,031.6	22.7	37.3	-89.91	-2.6	-1,404.6	821.8	761.9	59.94	13.710	
11,100.0	11,056.5	11,187.0	11,056.3	22.7	37.3	-89.92	0.9	-1,404.7	821.8	761.8	59.94	13.709	
11,115.0	11,071.3	11,202.0	11,071.0	22.7	37.3	-89.92	3.6	-1,404.7	821.8	761.8	59.95	13.709	
11,125.0	11,081.1	11,212.0	11,080.8	22.7	37.3	-89.92	5.7	-1,404.7	821.8	761.8	59.95	13.708	
11,150.0	11,105.3	11,236.9	11,105.0	22.7	37.3	-89.92	11.8	-1,404.8	821.8	761.8	59.95	13.708	
11,175.0	11,129.2	11,261.8	11,128.8	22.7	37.3	-89.92	19.1	-1,404.8	821.8	761.8	59.96	13.707	
11,200.0	11,152.7	11,286.8	11,152.2	22.7	37.3	-89.92	27.7	-1,404.9	821.8	761.8	59.96	13.706	
11,210.0	11,161.9	11,296.8	11,161.5	22.7	37.3	-89.92	31.4	-1,405.0	821.8	761.8	59.96	13.706	
11,225.0	11,175.6	11,311.7	11,175.2	22.7	37.3	-89.92	37.5	-1,405.0	821.8	761.8	59.96	13.705	
11,250.0	11,198.1	11,336.7	11,197.6	22.7	37.3	-89.92	48.4	-1,405.1	821.8	761.8	59.97	13.704	
11,275.0	11,219.9	11,361.6	11,219.4	22.7	37.3	-89.93	60.5	-1,405.2	821.8	761.8	59.97	13.703	
11,300.0	11,241.1	11,386.5	11,240.5	22.7	37.3	-89.93	73.8	-1,405.3	821.8	761.8	59.98	13.701	
11,305.0	11,245.2	11,391.5	11,244.6	22.7	37.3	-89.93	76.6	-1,405.4	821.8	761.8	59.98	13.701	
11,325.0	11,261.5	11,411.5	11,260.9	22.7	37.3	-89.93	88.1	-1,405.5	821.8	761.8	59.99	13.700	
11,350.0	11,281.2	11,436.4	11,280.6	22.7	37.3	-89.93	103.5	-1,405.6	821.8	761.8	59.99	13.698	
11,375.0	11,300.0	11,461.4	11,299.4	22.7	37.3	-89.94	119.9	-1,405.8	821.8	761.8	60.00	13.696	
11,400.0	11,317.9	11,486.3	11,317.3	22.7	37.3	-89.94	137.2	-1,405.9	821.8	761.8	60.01	13.694	
11,425.0	11,334.9	11,511.3	11,334.3	22.7	37.3	-89.94	155.5	-1,406.1	821.8	761.8	60.03	13.691	
11,450.0	11,351.0	11,536.3	11,350.3	22.7	37.3	-89.95	174.6	-1,406.3	821.8	761.8	60.04	13.688	
11,475.0	11,365.9	11,561.2	11,365.4	22.7	37.3	-89.95	194.5	-1,406.4	821.8	761.7	60.06	13.684	
11,495.0	11,377.2	11,581.2	11,376.6	22.8	37.3	-89.95	211.0	-1,406.6	821.8	761.7	60.07	13.681	
11,500.0	11,379.9	11,586.2	11,379.3	22.8	37.3	-89.95	215.2	-1,406.6	821.8	761.7	60.07	13.680	
11,525.0	11,392.7	11,611.1	11,392.2	22.8	37.3	-89.96	236.6	-1,406.8	821.8	761.7	60.09	13.675	
11,550.0	11,404.4	11,636.1	11,403.9	22.8	37.3	-89.96	258.7	-1,407.0	821.8	761.7	60.12	13.670	
11,575.0	11,414.9	11,661.1	11,414.4	22.8	37.3	-89.97	281.3	-1,407.2	821.8	761.7	60.14	13.665	
11,590.0	11,420.6	11,676.1	11,420.2	22.8	37.3	-89.97	295.1	-1,407.4	821.8	761.6	60.16	13.661	
11,600.0	11,424.2	11,686.1	11,423.8	22.8	37.3	-89.97	304.4	-1,407.4	821.8	761.6	60.17	13.658	
11,625.0	11,432.3	11,711.0	11,431.9	22.8	37.4	-89.97	328.1	-1,407.7	821.8	761.6	60.20	13.652	
11,650.0	11,439.1	11,736.0	11,438.8	22.9	37.4	-89.98	352.1	-1,407.9	821.8	761.6	60.23	13.644	
11,675.0	11,444.7	11,761.0	11,444.4	22.9	37.4	-89.98	376.4	-1,408.1	821.8	761.5	60.27	13.636	
11,685.0	11,446.5	11,771.0	11,446.3	22.9	37.4	-89.98	386.2	-1,408.2	821.8	761.5	60.28	13.633	
11,700.0	11,448.9	11,786.0	11,448.7	22.9	37.4	-89.99	401.0	-1,408.3	821.8	761.5	60.30	13.628	
11,725.0	11,451.9	11,811.0	11,451.8	22.9	37.4	-89.99	425.8	-1,408.5	821.8	761.5	60.35	13.618	
11,750.0	11,453.6	11,836.0	11,453.5	23.0	37.4	-90.00	450.7	-1,408.8	821.8	761.4	60.39	13.609	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	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
11,769.6	11,454.0	11,855.6	11,454.0	23.0	37.4	-90.00	470.4	-1,409.0	821.8	761.4	60.43	13.600	
11,780.0	11,454.0	11,866.0	11,454.0	23.0	37.5	-90.00	480.7	-1,409.0	821.8	761.4	60.45	13.596	
11,800.0	11,454.0	11,886.0	11,454.0	23.0	37.5	-90.00	500.7	-1,409.2	821.8	761.3	60.49	13.587	
11,875.0	11,454.0	11,961.0	11,454.0	23.1	37.5	-90.00	575.7	-1,409.9	821.8	761.1	60.67	13.546	
11,900.0	11,454.0	11,986.0	11,454.0	23.2	37.6	-90.00	600.7	-1,410.1	821.8	761.1	60.73	13.533	
11,970.0	11,454.0	12,056.0	11,454.0	23.3	37.6	-90.00	670.7	-1,410.8	821.8	760.9	60.93	13.489	
12,000.0	11,454.0	12,086.0	11,454.0	23.3	37.7	-90.00	700.7	-1,411.0	821.8	760.8	61.01	13.470	
12,065.0	11,454.0	12,151.0	11,454.0	23.5	37.7	-90.00	765.7	-1,411.6	821.8	760.6	61.22	13.424	
12,100.0	11,454.0	12,186.0	11,454.0	23.5	37.8	-90.00	800.7	-1,412.0	821.8	760.5	61.33	13.400	
12,160.0	11,454.0	12,246.0	11,454.0	23.7	37.9	-90.00	860.7	-1,412.5	821.8	760.3	61.55	13.353	
12,200.0	11,454.0	12,286.0	11,454.0	23.8	37.9	-90.00	900.7	-1,412.9	821.8	760.1	61.69	13.322	
12,255.0	11,454.0	12,341.0	11,454.0	23.9	38.0	-90.00	955.7	-1,413.4	821.8	759.9	61.91	13.275	
12,300.0	11,454.0	12,386.0	11,454.0	24.0	38.1	-90.00	1,000.7	-1,413.8	821.8	759.7	62.09	13.237	
12,350.0	11,454.0	12,436.0	11,454.0	24.2	38.2	-90.00	1,050.7	-1,414.2	821.8	759.5	62.30	13.191	
12,400.0	11,454.0	12,486.0	11,454.0	24.3	38.3	-90.00	1,100.7	-1,414.7	821.8	759.3	62.52	13.145	
12,445.0	11,454.0	12,531.0	11,454.0	24.4	38.3	-90.00	1,145.7	-1,415.1	821.8	759.1	62.73	13.101	
12,500.0	11,454.0	12,586.0	11,454.0	24.6	38.4	-90.00	1,200.7	-1,415.6	821.8	758.9	62.99	13.048	
12,540.0	11,454.0	12,626.0	11,454.0	24.7	38.5	-90.00	1,240.7	-1,416.0	821.8	758.7	63.19	13.006	
12,600.0	11,454.0	12,686.0	11,454.0	24.9	38.6	-90.00	1,300.7	-1,416.5	821.8	758.4	63.49	12.944	
12,635.0	11,454.0	12,721.0	11,454.0	25.0	38.7	-90.00	1,335.7	-1,416.8	821.8	758.2	63.68	12.907	
12,700.0	11,454.0	12,786.0	11,454.0	25.2	38.9	-90.00	1,400.7	-1,417.4	821.8	757.8	64.03	12.836	
12,730.0	11,454.0	12,816.0	11,454.0	25.3	38.9	-90.00	1,430.7	-1,417.7	821.8	757.7	64.19	12.802	
12,800.0	11,454.0	12,886.0	11,454.0	25.6	39.1	-90.00	1,500.7	-1,418.3	821.8	757.3	64.59	12.723	
12,825.0	11,454.0	12,911.0	11,454.0	25.6	39.1	-90.00	1,525.7	-1,418.6	821.8	757.1	64.74	12.694	
12,900.0	11,454.0	12,986.0	11,454.0	25.9	39.3	-90.00	1,600.7	-1,419.3	821.9	756.7	65.19	12.606	
12,920.0	11,454.0	13,006.0	11,454.0	26.0	39.4	-90.00	1,620.7	-1,419.4	821.9	756.5	65.32	12.582	
13,000.0	11,454.0	13,086.0	11,454.0	26.3	39.6	-90.00	1,700.7	-1,420.2	821.9	756.0	65.82	12.486	
13,015.0	11,454.0	13,101.0	11,454.0	26.4	39.6	-90.00	1,715.7	-1,420.3	821.9	755.9	65.92	12.467	
13,100.0	11,454.0	13,186.0	11,454.0	26.7	39.8	-90.00	1,800.7	-1,421.1	821.9	755.4	66.48	12.362	
13,110.0	11,454.0	13,196.0	11,454.0	26.7	39.9	-90.00	1,810.7	-1,421.2	821.9	755.3	66.55	12.349	
13,200.0	11,454.0	13,286.0	11,454.0	27.1	40.1	-90.00	1,900.7	-1,422.0	821.9	754.7	67.17	12.235	
13,205.0	11,454.0	13,291.0	11,454.0	27.1	40.1	-90.00	1,905.7	-1,422.0	821.9	754.7	67.21	12.229	
13,300.0	11,454.0	13,386.0	11,454.0	27.5	40.4	-90.00	2,000.7	-1,422.9	821.9	754.0	67.89	12.106	
13,395.0	11,454.0	13,481.0	11,454.0	28.0	40.7	-90.00	2,095.7	-1,423.8	821.9	753.3	68.59	11.982	
13,400.0	11,454.0	13,486.0	11,454.0	28.0	40.7	-90.00	2,100.7	-1,423.8	821.9	753.2	68.63	11.975	
13,490.0	11,454.0	13,576.0	11,454.0	28.4	41.0	-90.00	2,190.7	-1,424.6	821.9	752.6	69.32	11.856	
13,500.0	11,454.0	13,586.0	11,454.0	28.4	41.0	-90.00	2,200.7	-1,424.7	821.9	752.5	69.40	11.843	
13,585.0	11,454.0	13,671.0	11,454.0	28.8	41.3	-90.00	2,285.7	-1,425.5	821.9	751.8	70.07	11.729	
13,600.0	11,454.0	13,686.0	11,454.0	28.9	41.4	-90.00	2,300.7	-1,425.6	821.9	751.7	70.19	11.709	
13,680.0	11,454.0	13,766.0	11,454.0	29.3	41.6	-90.00	2,380.7	-1,426.4	821.9	751.0	70.84	11.601	
13,700.0	11,454.0	13,786.0	11,454.0	29.4	41.7	-90.00	2,400.7	-1,426.5	821.9	750.9	71.01	11.575	
13,775.0	11,454.0	13,861.0	11,454.0	29.8	42.0	-90.00	2,475.7	-1,427.2	821.9	750.2	71.64	11.473	
13,800.0	11,454.0	13,886.0	11,454.0	29.9	42.1	-90.00	2,500.7	-1,427.5	821.9	750.0	71.85	11.439	
13,870.0	11,454.0	13,956.0	11,454.0	30.2	42.3	-90.00	2,570.7	-1,428.1	821.9	749.4	72.45	11.344	
13,900.0	11,454.0	13,986.0	11,454.0	30.4	42.4	-90.00	2,600.7	-1,428.4	821.9	749.2	72.71	11.304	
13,965.0	11,454.0	14,051.0	11,454.0	30.7	42.7	-90.00	2,665.6	-1,429.0	821.9	748.6	73.28	11.215	
14,000.0	11,454.0	14,086.0	11,454.0	30.9	42.8	-90.00	2,700.6	-1,429.3	821.9	748.3	73.59	11.168	
14,060.0	11,454.0	14,146.0	11,454.0	31.2	43.0	-90.00	2,760.6	-1,429.8	821.9	747.8	74.13	11.087	
14,100.0	11,454.0	14,186.0	11,454.0	31.4	43.2	-90.00	2,800.6	-1,430.2	821.9	747.4	74.50	11.033	
14,155.0	11,454.0	14,241.0	11,454.0	31.7	43.4	-90.00	2,855.6	-1,430.7	821.9	746.9	75.00	10.958	
14,200.0	11,454.0	14,286.0	11,454.0	32.0	43.6	-90.00	2,900.6	-1,431.1	821.9	746.5	75.42	10.898	
14,250.0	11,454.0	14,336.0	11,454.0	32.2	43.8	-90.00	2,950.6	-1,431.6	821.9	746.0	75.89	10.830	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)			
14,300.0	11,454.0	14,386.0	11,454.0	32.5	44.0	-90.00	3,000.6	-1,432.0	821.9	745.5	76.36	10.763	
14,345.0	11,454.0	14,431.0	11,454.0	32.8	44.2	-90.00	3,045.6	-1,432.4	821.9	745.1	76.79	10.703	
14,400.0	11,454.0	14,486.0	11,454.0	33.1	44.4	-90.00	3,100.6	-1,432.9	821.9	744.6	77.32	10.629	
14,440.0	11,454.0	14,526.0	11,454.0	33.3	44.6	-90.00	3,140.6	-1,433.3	821.9	744.2	77.71	10.576	
14,500.0	11,454.0	14,586.0	11,454.0	33.6	44.8	-90.00	3,200.6	-1,433.8	821.9	743.6	78.30	10.497	
14,535.0	11,454.0	14,621.0	11,454.0	33.8	45.0	-90.00	3,235.6	-1,434.1	821.9	743.3	78.65	10.450	
14,600.0	11,454.0	14,686.0	11,454.0	34.2	45.2	-90.00	3,300.6	-1,434.7	821.9	742.6	79.30	10.365	
14,630.0	11,454.0	14,716.0	11,454.0	34.4	45.4	-90.00	3,330.6	-1,435.0	821.9	742.3	79.60	10.326	
14,700.0	11,454.0	14,786.0	11,454.0	34.8	45.7	-90.00	3,400.6	-1,435.7	821.9	741.6	80.31	10.234	
14,725.0	11,454.0	14,811.0	11,454.0	34.9	45.8	-90.00	3,425.6	-1,435.9	821.9	741.4	80.57	10.202	
14,800.0	11,454.0	14,886.0	11,454.0	35.3	46.1	-90.00	3,500.6	-1,436.6	821.9	740.6	81.34	10.105	
14,820.0	11,454.0	14,906.0	11,454.0	35.5	46.2	-90.00	3,520.6	-1,436.7	821.9	740.4	81.54	10.079	
14,900.0	11,454.0	14,986.0	11,454.0	35.9	46.6	-90.00	3,600.6	-1,437.5	821.9	739.5	82.38	9.977	
14,915.0	11,454.0	15,001.0	11,454.0	36.0	46.7	-90.00	3,615.6	-1,437.6	821.9	739.4	82.54	9.958	
15,000.0	11,454.0	15,086.0	11,454.0	36.5	47.1	-90.00	3,700.6	-1,438.4	821.9	738.5	83.44	9.851	
15,010.0	11,454.0	15,096.0	11,454.0	36.6	47.1	-90.00	3,710.6	-1,438.5	821.9	738.4	83.54	9.838	
15,100.0	11,454.0	15,186.0	11,454.0	37.1	47.5	-90.00	3,800.6	-1,439.3	821.9	737.4	84.51	9.726	
15,105.0	11,454.0	15,191.0	11,454.0	37.2	47.5	-90.00	3,805.6	-1,439.3	821.9	737.4	84.56	9.720	
15,200.0	11,454.0	15,286.0	11,454.0	37.7	48.0	-90.00	3,900.6	-1,440.2	821.9	736.3	85.59	9.603	
15,295.0	11,454.0	15,381.0	11,454.0	38.3	48.5	-90.00	3,995.6	-1,441.1	821.9	735.3	86.63	9.487	
15,300.0	11,454.0	15,386.0	11,454.0	38.4	48.5	-90.00	4,000.6	-1,441.1	821.9	735.3	86.69	9.481	
15,390.0	11,454.0	15,476.0	11,454.0	38.9	48.9	-90.00	4,090.6	-1,441.9	821.9	734.3	87.69	9.373	
15,400.0	11,454.0	15,486.0	11,454.0	39.0	49.0	-90.00	4,100.6	-1,442.0	821.9	734.1	87.80	9.362	
15,485.0	11,454.0	15,571.0	11,454.0	39.5	49.4	-90.00	4,185.6	-1,442.8	821.9	733.2	88.75	9.261	
15,500.0	11,454.0	15,586.0	11,454.0	39.6	49.5	-90.00	4,200.6	-1,442.9	821.9	733.0	88.92	9.244	
15,580.0	11,454.0	15,666.0	11,454.0	40.1	49.9	-90.00	4,280.6	-1,443.7	822.0	732.1	89.83	9.150	
15,600.0	11,454.0	15,686.0	11,454.0	40.2	50.0	-90.00	4,300.6	-1,443.9	822.0	731.9	90.05	9.127	
15,675.0	11,454.0	15,761.0	11,454.0	40.7	50.4	-90.00	4,375.6	-1,444.5	822.0	731.0	90.91	9.041	
15,700.0	11,454.0	15,786.0	11,454.0	40.9	50.5	-90.00	4,400.6	-1,444.8	822.0	730.8	91.20	9.013	
15,770.0	11,454.0	15,856.0	11,454.0	41.3	50.9	-90.00	4,470.6	-1,445.4	822.0	730.0	92.01	8.934	
15,800.0	11,454.0	15,886.0	11,454.0	41.5	51.0	-90.00	4,500.6	-1,445.7	822.0	729.6	92.35	8.900	
15,865.0	11,454.0	15,951.0	11,454.0	41.9	51.4	-90.00	4,565.6	-1,446.3	822.0	728.9	93.11	8.828	
15,900.0	11,454.0	15,986.0	11,454.0	42.1	51.6	-90.00	4,600.6	-1,446.6	822.0	728.4	93.52	8.789	
15,960.0	11,454.0	16,046.0	11,454.0	42.5	51.9	-90.00	4,660.6	-1,447.1	822.0	727.7	94.22	8.723	
16,000.0	11,454.0	16,086.0	11,454.0	42.8	52.1	-90.00	4,700.6	-1,447.5	822.0	727.3	94.70	8.680	
16,055.0	11,454.0	16,141.0	11,454.0	43.1	52.4	-90.00	4,755.6	-1,448.0	822.0	726.6	95.35	8.621	
16,100.0	11,454.0	16,186.0	11,454.0	43.4	52.6	-90.00	4,800.6	-1,448.4	822.0	726.1	95.88	8.573	
16,150.0	11,454.0	16,236.0	11,454.0	43.8	52.9	-90.00	4,850.6	-1,448.9	822.0	725.5	96.48	8.520	
16,200.0	11,454.0	16,286.0	11,454.0	44.1	53.2	-90.00	4,900.6	-1,449.3	822.0	724.9	97.07	8.467	
16,245.0	11,454.0	16,331.0	11,454.0	44.4	53.4	-90.00	4,945.6	-1,449.7	822.0	724.4	97.62	8.421	
16,300.0	11,454.0	16,386.0	11,454.0	44.7	53.7	-90.00	5,000.6	-1,450.2	822.0	723.7	98.28	8.364	
16,340.0	11,454.0	16,426.0	11,454.0	45.0	53.9	-90.00	5,040.6	-1,450.6	822.0	723.2	98.76	8.323	
16,400.0	11,454.0	16,486.0	11,454.0	45.4	54.3	-90.00	5,100.5	-1,451.1	822.0	722.5	99.49	8.262	
16,435.0	11,454.0	16,521.0	11,454.0	45.6	54.5	-90.00	5,135.5	-1,451.5	822.0	722.1	99.92	8.227	
16,500.0	11,454.0	16,586.0	11,454.0	46.1	54.8	-90.00	5,200.5	-1,452.1	822.0	721.3	100.71	8.162	
16,530.0	11,454.0	16,616.0	11,454.0	46.3	55.0	-90.00	5,230.5	-1,452.3	822.0	720.9	101.08	8.132	
16,600.0	11,454.0	16,686.0	11,454.0	46.7	55.4	-90.00	5,300.5	-1,453.0	822.0	720.1	101.94	8.064	
16,625.0	11,454.0	16,711.0	11,454.0	46.9	55.5	-90.00	5,325.5	-1,453.2	822.0	719.7	102.25	8.039	
16,700.0	11,454.0	16,786.0	11,454.0	47.4	56.0	-90.00	5,400.5	-1,453.9	822.0	718.8	103.17	7.967	
16,720.0	11,454.0	16,806.0	11,454.0	47.5	56.1	-90.00	5,420.5	-1,454.1	822.0	718.6	103.42	7.948	
16,800.0	11,454.0	16,886.0	11,454.0	48.1	56.5	-90.00	5,500.5	-1,454.8	822.0	717.6	104.42	7.872	
16,815.0	11,454.0	16,901.0	11,454.0	48.2	56.6	-90.00	5,515.5	-1,454.9	822.0	717.4	104.60	7.858	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	Distance	Rule Assigned:									
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
16,900.0	11,454.0	16,986.0	11,454.0	48.8	57.1	-90.00	5,600.5	-1,455.7	822.0	716.3	105.67	7.779	
16,910.0	11,454.0	16,996.0	11,454.0	48.8	57.2	-90.00	5,610.5	-1,455.8	822.0	716.2	105.79	7.770	
17,000.0	11,454.0	17,086.0	11,454.0	49.4	57.7	-90.00	5,700.5	-1,456.6	822.0	715.1	106.93	7.688	
17,005.0	11,454.0	17,091.0	11,454.0	49.5	57.7	-90.00	5,705.5	-1,456.7	822.0	715.0	106.99	7.683	
17,100.0	11,454.0	17,186.0	11,454.0	50.1	58.3	-90.00	5,800.5	-1,457.5	822.0	713.8	108.19	7.598	
17,195.0	11,454.0	17,281.0	11,454.0	50.8	58.8	-90.00	5,895.5	-1,458.4	822.0	712.6	109.40	7.514	
17,200.0	11,454.0	17,286.0	11,454.0	50.8	58.9	-90.00	5,900.5	-1,458.4	822.0	712.5	109.46	7.510	
17,290.0	11,454.0	17,376.0	11,454.0	51.4	59.4	-90.00	5,990.5	-1,459.3	822.0	711.4	110.61	7.432	
17,300.0	11,454.0	17,386.0	11,454.0	51.5	59.4	-90.00	6,000.5	-1,459.3	822.0	711.3	110.74	7.423	
17,385.0	11,454.0	17,471.0	11,454.0	52.1	60.0	-90.00	6,085.5	-1,460.1	822.0	710.2	111.83	7.351	
17,400.0	11,454.0	17,486.0	11,454.0	52.2	60.0	-90.00	6,100.5	-1,460.3	822.0	710.0	112.02	7.338	
17,480.0	11,454.0	17,566.0	11,454.0	52.7	60.5	-90.00	6,180.5	-1,461.0	822.0	709.0	113.05	7.271	
17,500.0	11,454.0	17,586.0	11,454.0	52.8	60.6	-90.00	6,200.5	-1,461.2	822.0	708.7	113.31	7.255	
17,575.0	11,454.0	17,661.0	11,454.0	53.4	61.1	-90.00	6,275.5	-1,461.9	822.0	707.7	114.28	7.193	
17,600.0	11,454.0	17,686.0	11,454.0	53.5	61.2	-90.00	6,300.5	-1,462.1	822.0	707.4	114.60	7.173	
17,670.0	11,454.0	17,756.0	11,454.0	54.0	61.7	-90.00	6,370.5	-1,462.7	822.0	706.5	115.51	7.116	
17,700.0	11,454.0	17,786.0	11,454.0	54.2	61.9	-90.00	6,400.5	-1,463.0	822.0	706.1	115.91	7.092	
17,765.0	11,454.0	17,851.0	11,454.0	54.7	62.3	-90.00	6,465.5	-1,463.6	822.0	705.3	116.75	7.041	
17,800.0	11,454.0	17,886.0	11,454.0	54.9	62.5	-90.00	6,500.5	-1,463.9	822.0	704.8	117.21	7.013	
17,860.0	11,454.0	17,946.0	11,454.0	55.3	62.8	-90.00	6,560.5	-1,464.4	822.0	704.0	118.00	6.967	
17,900.0	11,454.0	17,986.0	11,454.0	55.6	63.1	-90.00	6,600.5	-1,464.8	822.0	703.5	118.52	6.936	
17,955.0	11,454.0	18,041.0	11,454.0	56.0	63.4	-90.00	6,655.5	-1,465.3	822.0	702.8	119.24	6.894	
18,000.0	11,454.0	18,086.0	11,454.0	56.3	63.7	-90.00	6,700.5	-1,465.7	822.0	702.2	119.84	6.860	
18,050.0	11,454.0	18,136.0	11,454.0	56.7	64.0	-90.00	6,750.5	-1,466.2	822.0	701.5	120.50	6.822	
18,100.0	11,454.0	18,186.0	11,454.0	57.0	64.3	-90.00	6,800.5	-1,466.6	822.0	700.9	121.16	6.785	
18,145.0	11,454.0	18,231.0	11,454.0	57.3	64.6	-90.00	6,845.5	-1,467.0	822.0	700.3	121.75	6.752	
18,200.0	11,454.0	18,286.0	11,454.0	57.7	64.9	-90.00	6,900.5	-1,467.5	822.0	699.6	122.48	6.712	
18,240.0	11,454.0	18,326.0	11,454.0	58.0	65.2	-90.00	6,940.5	-1,467.9	822.0	699.0	123.01	6.683	
18,300.0	11,454.0	18,386.0	11,454.0	58.4	65.6	-90.00	7,000.5	-1,468.5	822.1	698.2	123.81	6.639	
18,335.0	11,454.0	18,421.0	11,454.0	58.7	65.8	-90.00	7,035.5	-1,468.8	822.1	697.8	124.28	6.615	
18,400.0	11,454.0	18,486.0	11,454.0	59.1	66.2	-90.00	7,100.5	-1,469.4	822.1	696.9	125.15	6.569	
18,430.0	11,454.0	18,516.0	11,454.0	59.3	66.4	-90.00	7,130.5	-1,469.6	822.1	696.5	125.55	6.548	
18,500.0	11,454.0	18,586.0	11,454.0	59.8	66.8	-90.00	7,200.5	-1,470.3	822.1	695.6	126.48	6.499	
18,525.0	11,454.0	18,611.0	11,454.0	60.0	67.0	-90.00	7,225.5	-1,470.5	822.1	695.2	126.82	6.482	
18,600.0	11,454.0	18,686.0	11,454.0	60.5	67.5	-90.00	7,300.5	-1,471.2	822.1	694.2	127.83	6.431	
18,620.0	11,454.0	18,706.0	11,454.0	60.7	67.6	-90.00	7,320.5	-1,471.4	822.1	694.0	128.10	6.418	
18,700.0	11,454.0	18,786.0	11,454.0	61.3	68.1	-90.00	7,400.5	-1,472.1	822.1	692.9	129.17	6.364	
18,715.0	11,454.0	18,801.0	11,454.0	61.4	68.2	-90.00	7,415.5	-1,472.2	822.1	692.7	129.38	6.354	
18,800.0	11,454.0	18,886.0	11,454.0	62.0	68.7	-90.00	7,500.4	-1,473.0	822.1	691.5	130.52	6.298	
18,810.0	11,454.0	18,896.0	11,454.0	62.0	68.8	-90.00	7,510.4	-1,473.1	822.1	691.4	130.66	6.292	
18,900.0	11,454.0	18,986.0	11,454.0	62.7	69.4	-90.00	7,600.4	-1,473.9	822.1	690.2	131.88	6.234	
18,905.0	11,454.0	18,991.0	11,454.0	62.7	69.4	-90.00	7,605.4	-1,474.0	822.1	690.1	131.95	6.230	
19,000.0	11,454.0	19,086.0	11,454.0	63.4	70.0	-90.00	7,700.4	-1,474.8	822.1	688.8	133.24	6.170	
19,095.0	11,454.0	19,181.0	11,454.0	64.1	70.6	-90.00	7,795.4	-1,475.7	822.1	687.6	134.53	6.111	
19,100.0	11,454.0	19,186.0	11,454.0	64.1	70.7	-90.00	7,800.4	-1,475.7	822.1	687.5	134.60	6.108	
19,190.0	11,454.0	19,276.0	11,454.0	64.7	71.3	-90.00	7,890.4	-1,476.6	822.1	686.3	135.83	6.053	
19,200.0	11,454.0	19,286.0	11,454.0	64.8	71.3	-90.00	7,900.4	-1,476.7	822.1	686.1	135.96	6.046	
19,285.0	11,454.0	19,371.0	11,454.0	65.4	71.9	-90.00	7,985.4	-1,477.4	822.1	685.0	137.12	5.995	
19,300.0	11,454.0	19,386.0	11,454.0	65.5	72.0	-90.00	8,000.4	-1,477.6	822.1	684.8	137.33	5.986	
19,380.0	11,454.0	19,466.0	11,454.0	66.1	72.5	-90.00	8,080.4	-1,478.3	822.1	683.7	138.43	5.939	
19,400.0	11,454.0	19,486.0	11,454.0	66.2	72.6	-90.00	8,100.4	-1,478.5	822.1	683.4	138.70	5.927	
19,475.0	11,454.0	19,561.0	11,454.0	66.8	73.1	-90.00	8,175.4	-1,479.2	822.1	682.4	139.73	5.883	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.0	11,454.0	19,586.0	11,454.0	67.0	73.3	-90.00	8,200.4	-1,479.4	822.1	682.0	140.08	5.869	
19,570.0	11,454.0	19,656.0	11,454.0	67.5	73.8	-90.00	8,270.4	-1,480.0	822.1	681.1	141.04	5.829	
19,600.0	11,454.0	19,686.0	11,454.0	67.7	73.9	-90.00	8,300.4	-1,480.3	822.1	680.6	141.45	5.812	
19,665.0	11,454.0	19,751.0	11,454.0	68.1	74.4	-90.00	8,365.4	-1,480.9	822.1	679.8	142.35	5.775	
19,700.0	11,454.0	19,786.0	11,454.0	68.4	74.6	-90.00	8,400.4	-1,481.2	822.1	679.3	142.83	5.756	
19,760.0	11,454.0	19,846.0	11,454.0	68.8	75.0	-90.00	8,460.4	-1,481.8	822.1	678.4	143.66	5.722	
19,800.0	11,454.0	19,886.0	11,454.0	69.1	75.3	-90.00	8,500.4	-1,482.1	822.1	677.9	144.22	5.700	
19,855.0	11,454.0	19,941.0	11,454.0	69.5	75.6	-90.00	8,555.4	-1,482.6	822.1	677.1	144.98	5.671	
19,900.0	11,454.0	19,986.0	11,454.0	69.8	75.9	-90.00	8,600.4	-1,483.0	822.1	676.5	145.60	5.646	
19,950.0	11,454.0	20,036.0	11,454.0	70.2	76.3	-90.00	8,650.4	-1,483.5	822.1	675.8	146.30	5.619	
20,000.0	11,454.0	20,086.0	11,454.0	70.6	76.6	-90.00	8,700.4	-1,483.9	822.1	675.1	146.99	5.593	
20,045.0	11,454.0	20,131.0	11,454.0	70.9	76.9	-90.00	8,745.4	-1,484.4	822.1	674.5	147.62	5.569	
20,100.0	11,454.0	20,186.0	11,454.0	71.3	77.3	-90.00	8,800.4	-1,484.9	822.1	673.7	148.38	5.540	
20,140.0	11,454.0	20,226.0	11,454.0	71.6	77.5	-90.00	8,840.4	-1,485.2	822.1	673.2	148.94	5.520	
20,200.0	11,454.0	20,286.0	11,454.0	72.0	77.9	-90.00	8,900.4	-1,485.8	822.1	672.3	149.78	5.489	
20,235.0	11,454.0	20,321.0	11,454.0	72.3	78.2	-90.00	8,935.4	-1,486.1	822.1	671.9	150.27	5.471	
20,300.0	11,454.0	20,386.0	11,454.0	72.7	78.6	-90.00	9,000.4	-1,486.7	822.1	671.0	151.17	5.438	
20,330.0	11,454.0	20,416.0	11,454.0	73.0	78.8	-90.00	9,030.4	-1,487.0	822.1	670.5	151.59	5.423	
20,400.0	11,454.0	20,486.0	11,454.0	73.5	79.3	-90.00	9,100.4	-1,487.6	822.1	669.6	152.57	5.388	
20,425.0	11,454.0	20,511.0	11,454.0	73.6	79.4	-90.00	9,125.4	-1,487.8	822.1	669.2	152.92	5.376	
20,500.0	11,454.0	20,586.0	11,454.0	74.2	80.0	-90.00	9,200.4	-1,488.5	822.1	668.2	153.98	5.339	
20,520.0	11,454.0	20,606.0	11,454.0	74.3	80.1	-90.00	9,220.4	-1,488.7	822.1	667.9	154.26	5.330	
20,600.0	11,454.0	20,686.0	11,454.0	74.9	80.6	-90.00	9,300.4	-1,489.4	822.1	666.8	155.38	5.291	
20,615.0	11,454.0	20,701.0	11,454.0	75.0	80.7	-90.00	9,315.4	-1,489.6	822.1	666.5	155.59	5.284	
20,700.0	11,454.0	20,786.0	11,454.0	75.6	81.3	-90.00	9,400.4	-1,490.3	822.1	665.4	156.79	5.244	
20,710.0	11,454.0	20,796.0	11,454.0	75.7	81.4	-90.00	9,410.4	-1,490.4	822.1	665.2	156.93	5.239	
20,800.0	11,454.0	20,886.0	11,454.0	76.4	82.0	-90.00	9,500.4	-1,491.2	822.1	663.9	158.19	5.197	
20,805.0	11,454.0	20,891.0	11,454.0	76.4	82.0	-90.00	9,505.4	-1,491.3	822.1	663.9	158.26	5.195	
20,900.0	11,454.0	20,986.0	11,454.0	77.1	82.7	-90.00	9,600.4	-1,492.2	822.1	662.5	159.60	5.151	
20,995.0	11,454.0	21,081.0	11,454.0	77.8	83.3	-90.00	9,695.4	-1,493.0	822.2	661.2	160.95	5.108	
21,000.0	11,454.0	21,086.0	11,454.0	77.8	83.3	-90.00	9,700.4	-1,493.1	822.2	661.1	161.02	5.106	
21,090.0	11,454.0	21,176.0	11,454.0	78.5	84.0	-90.00	9,790.4	-1,493.9	822.2	659.9	162.29	5.066	
21,100.0	11,454.0	21,186.0	11,454.0	78.6	84.0	-90.00	9,800.4	-1,494.0	822.2	659.7	162.43	5.062	
21,185.0	11,454.0	21,271.0	11,454.0	79.2	84.6	-90.00	9,885.3	-1,494.7	822.2	658.5	163.64	5.024	
21,200.0	11,454.0	21,286.0	11,454.0	79.3	84.7	-90.00	9,900.3	-1,494.9	822.2	658.3	163.85	5.018	
21,280.0	11,454.0	21,366.0	11,454.0	79.9	85.3	-90.00	9,980.3	-1,495.6	822.2	657.2	164.98	4.983	
21,300.0	11,454.0	21,386.0	11,454.0	80.0	85.4	-90.00	10,000.3	-1,495.8	822.2	656.9	165.27	4.975	
21,375.0	11,454.0	21,461.0	11,454.0	80.6	85.9	-90.00	10,075.3	-1,496.5	822.2	655.8	166.33	4.943	
21,400.0	11,454.0	21,486.0	11,454.0	80.8	86.1	-90.00	10,100.3	-1,496.7	822.2	655.5	166.69	4.932	
21,470.0	11,454.0	21,556.0	11,454.0	81.3	86.6	-90.00	10,170.3	-1,497.3	822.2	654.5	167.68	4.903	
21,500.0	11,454.0	21,586.0	11,454.0	81.5	86.8	-90.00	10,200.3	-1,497.6	822.2	654.1	168.11	4.891	
21,565.0	11,454.0	21,651.0	11,454.0	82.0	87.2	-90.00	10,265.3	-1,498.2	822.2	653.1	169.04	4.864	
21,600.0	11,454.0	21,686.0	11,454.0	82.2	87.5	-90.00	10,300.3	-1,498.5	822.2	652.6	169.53	4.850	
21,660.0	11,454.0	21,746.0	11,454.0	82.7	87.9	-90.00	10,360.3	-1,499.1	822.2	651.8	170.39	4.825	
21,700.0	11,454.0	21,786.0	11,454.0	83.0	88.2	-90.00	10,400.3	-1,499.4	822.2	651.2	170.96	4.809	
21,755.0	11,454.0	21,841.0	11,454.0	83.4	88.5	-90.00	10,455.3	-1,499.9	822.2	650.4	171.74	4.787	
21,760.3	11,454.0	21,846.2	11,454.0	83.4	88.6	-90.00	10,460.6	-1,500.0	822.2	650.4	171.82	4.785 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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	-90.36	-0.2	-29.8	29.8					
95.0	95.0	95.0	95.0	3.0	3.0	-90.36	-0.2	-29.8	29.8	23.8	6.03	4.951		
100.0	100.0	100.0	100.0	3.0	3.0	-90.36	-0.2	-29.8	29.8	23.8	6.03	4.948		
190.0	190.0	190.0	190.0	3.1	3.1	-90.36	-0.2	-29.8	29.8	23.7	6.15	4.849		
200.0	200.0	200.0	200.0	3.1	3.1	-90.36	-0.2	-29.8	29.8	23.7	6.17	4.833		
285.0	285.0	285.0	285.0	3.2	3.2	-90.36	-0.2	-29.8	29.8	23.5	6.31	4.727		
300.0	300.0	300.0	300.0	3.2	3.2	-90.36	-0.2	-29.8	29.8	23.5	6.34	4.706		
380.0	380.0	380.0	380.0	3.3	3.3	-90.36	-0.2	-29.8	29.8	23.3	6.49	4.598		
400.0	400.0	400.0	400.0	3.3	3.3	-90.36	-0.2	-29.8	29.8	23.3	6.53	4.569		
475.0	475.0	475.0	475.0	3.4	3.4	-90.36	-0.2	-29.8	29.8	23.1	6.68	4.463		
500.0	500.0	500.0	500.0	3.4	3.4	-90.36	-0.2	-29.8	29.8	23.1	6.74	4.426		
570.0	570.0	570.0	570.0	3.5	3.5	-90.36	-0.2	-29.8	29.8	22.9	6.90	4.325		
600.0	600.0	600.0	600.0	3.5	3.5	-90.36	-0.2	-29.8	29.8	22.9	6.97	4.280		
665.0	665.0	665.0	665.0	3.6	3.6	-90.36	-0.2	-29.8	29.8	22.7	7.13	4.186		
700.0	700.0	700.0	700.0	3.7	3.7	-90.36	-0.2	-29.8	29.8	22.6	7.22	4.134		
760.0	760.0	760.0	760.0	3.8	3.8	-90.36	-0.2	-29.8	29.8	22.5	7.37	4.047		
800.0	800.0	800.0	800.0	3.8	3.8	-90.36	-0.2	-29.8	29.8	22.4	7.48	3.989		
855.0	855.0	855.0	855.0	3.9	3.9	-90.36	-0.2	-29.8	29.8	22.2	7.63	3.911		
900.0	900.0	900.0	900.0	4.0	4.0	-90.36	-0.2	-29.8	29.8	22.1	7.75	3.847		
950.0	950.0	950.0	950.0	4.1	4.1	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-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	-90.36	-0.2	-29.8	29.8	18.5	11.38	2.622 CC, ES, SF		
2,090.0	2,090.0	2,089.0	2,089.0	6.3	6.2	-90.36	-0.2	-31.2	31.2	19.5	11.73	2.662		
2,100.0	2,100.0	2,098.9	2,098.9	6.3	6.2	-90.35	-0.2	-31.5	31.6	19.8	11.77	2.681		
2,185.0	2,185.0	2,182.8	2,182.7	6.5	6.3	-90.33	-0.2	-35.7	35.7	23.6	12.10	2.954		
2,200.0	2,200.0	2,197.6	2,197.5	6.5	6.3	-90.33	-0.2	-36.6	36.7	24.6	12.16	3.021		
2,280.0	2,280.0	2,276.3	2,275.8	6.7	6.4	-90.30	-0.2	-43.1	43.3	30.9	12.47	3.475		
2,300.0	2,300.0	2,295.9	2,295.3	6.7	6.5	-90.29	-0.2	-45.1	45.3	32.8	12.55	3.612		
2,375.0	2,375.0	2,369.1	2,368.1	6.9	6.5	-90.27	-0.3	-53.6	54.0	41.2	12.85	4.203		
2,400.0	2,400.0	2,393.4	2,392.2	6.9	6.6	-90.26	-0.3	-56.8	57.3	44.4	12.95	4.427		
2,470.0	2,470.0	2,461.1	2,459.1	7.1	6.8	-90.25	-0.3	-66.9	67.7	54.5	13.24	5.116		
2,500.0	2,500.0	2,490.0	2,487.6	7.2	6.9	-90.24	-0.3	-71.6	72.7	59.3	13.36	5.439		
2,565.0	2,565.0	2,552.4	2,548.9	7.2	7.0	-0.27	-0.3	-82.9	83.7	70.1	13.61	6.154		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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
2,600.0	2,600.0	2,586.2	2,582.1	7.3	7.1	-0.27	-0.3	-89.6	89.6	75.9	13.73	6.528	
2,660.0	2,659.9	2,645.5	2,640.2	7.4	7.2	-0.26	-0.4	-101.4	98.9	84.9	13.99	7.072	
2,700.0	2,699.8	2,685.1	2,679.0	7.4	7.3	-0.26	-0.4	-109.3	104.4	90.2	14.17	7.370	
2,755.0	2,754.7	2,739.7	2,732.5	7.4	7.5	-0.27	-0.4	-120.2	111.1	96.6	14.43	7.695	
2,800.0	2,799.5	2,784.4	2,776.4	7.5	7.6	-0.27	-0.5	-129.1	115.7	101.1	14.65	7.897	
2,850.0	2,849.1	2,834.2	2,825.2	7.5	7.7	-0.28	-0.5	-139.0	120.1	105.2	14.92	8.050	
2,900.0	2,898.7	2,884.1	2,874.1	7.6	7.9	-0.28	-0.5	-149.0	123.6	108.4	15.18	8.139	
2,945.0	2,943.2	2,929.1	2,918.1	7.6	8.0	-0.29	-0.5	-157.9	126.0	110.6	15.38	8.189	
2,950.0	2,948.2	2,934.1	2,923.0	7.6	8.0	-0.29	-0.5	-158.9	126.2	110.8	15.41	8.191	
3,000.0	2,997.5	2,984.0	2,971.9	7.6	8.2	-0.30	-0.6	-168.9	128.4	112.7	15.63	8.211	
3,040.0	3,037.0	3,024.0	3,011.1	7.7	8.3	-0.31	-0.6	-176.9	130.1	114.3	15.85	8.210	
3,100.0	3,096.3	3,083.9	3,069.8	7.8	8.5	-0.32	-0.6	-188.8	132.7	116.6	16.18	8.205	
3,135.0	3,130.9	3,118.9	3,104.1	7.9	8.6	-0.33	-0.6	-195.8	134.3	117.9	16.38	8.198	
3,200.0	3,195.1	3,183.8	3,167.7	8.0	8.8	-0.34	-0.7	-208.7	137.1	120.3	16.75	8.183	
3,230.0	3,224.7	3,213.8	3,197.1	8.1	9.0	-0.34	-0.7	-214.7	138.4	121.5	16.93	8.173	
3,300.0	3,293.8	3,283.7	3,265.6	8.3	9.2	-0.36	-0.7	-228.6	141.5	124.1	17.36	8.148	
3,325.0	3,318.5	3,308.7	3,290.1	8.3	9.3	-0.36	-0.7	-233.6	142.5	125.0	17.52	8.137	
3,400.0	3,392.6	3,383.6	3,363.5	8.5	9.5	-0.37	-0.8	-248.6	145.8	127.8	18.00	8.103	
3,420.0	3,412.4	3,403.6	3,383.1	8.6	9.6	-0.37	-0.8	-252.5	146.7	128.6	18.13	8.093	
3,500.0	3,491.4	3,483.5	3,461.4	8.8	9.9	-0.39	-0.8	-268.5	150.2	131.5	18.65	8.051	
3,515.0	3,506.2	3,498.5	3,476.1	8.8	10.0	-0.39	-0.8	-271.5	150.8	132.1	18.76	8.042	
3,600.0	3,590.1	3,583.4	3,559.3	9.1	10.3	-0.40	-0.9	-288.4	154.5	135.2	19.33	7.993	
3,610.0	3,600.0	3,593.4	3,569.1	9.1	10.3	-0.40	-0.9	-290.4	155.0	135.6	19.40	7.987	
3,700.0	3,688.9	3,683.3	3,657.2	9.4	10.7	-0.41	-0.9	-308.3	158.9	138.9	20.04	7.931	
3,705.0	3,693.9	3,688.3	3,662.1	9.4	10.7	-0.41	-0.9	-309.3	159.1	139.1	20.07	7.928	
3,800.0	3,787.7	3,783.2	3,755.1	9.7	11.1	-0.42	-1.0	-328.2	163.3	142.5	20.75	7.867	
3,895.0	3,881.5	3,878.2	3,848.1	10.0	11.4	-0.44	-1.0	-347.1	167.4	146.0	21.45	7.804	
3,900.0	3,886.5	3,883.2	3,853.0	10.0	11.5	-0.44	-1.0	-348.1	167.6	146.1	21.49	7.801	
3,990.0	3,975.3	3,973.1	3,941.1	10.3	11.8	-0.45	-1.1	-366.1	171.6	149.4	22.16	7.741	
4,000.0	3,985.2	3,983.1	3,950.9	10.3	11.9	-0.45	-1.1	-368.1	172.0	149.8	22.24	7.734	
4,085.0	4,069.2	4,068.0	4,034.1	10.6	12.2	-0.46	-1.1	-385.0	175.7	152.8	22.89	7.677	
4,100.0	4,084.0	4,083.0	4,048.8	10.7	12.3	-0.46	-1.1	-388.0	176.4	153.4	23.00	7.667	
4,180.0	4,163.0	4,162.9	4,127.2	11.0	12.6	-0.47	-1.2	-403.9	179.8	156.2	23.62	7.614	
4,200.0	4,182.8	4,182.9	4,146.7	11.0	12.7	-0.47	-1.2	-407.9	180.7	156.9	23.78	7.601	
4,275.0	4,256.8	4,257.8	4,220.2	11.3	13.0	-0.48	-1.2	-422.8	184.0	159.6	24.36	7.552	
4,300.0	4,281.5	4,282.8	4,244.6	11.4	13.1	-0.48	-1.2	-427.8	185.1	160.5	24.56	7.536	
4,370.0	4,350.7	4,352.7	4,313.2	11.6	13.4	-0.48	-1.3	-441.8	188.1	163.0	25.12	7.490	
4,400.0	4,380.3	4,382.7	4,342.5	11.7	13.5	-0.49	-1.3	-447.7	189.4	164.1	25.36	7.471	
4,465.0	4,444.5	4,447.6	4,406.2	12.0	13.8	-0.49	-1.3	-460.7	192.3	166.4	25.88	7.430	
4,500.0	4,479.1	4,482.6	4,440.4	12.1	13.9	-0.50	-1.3	-467.7	193.8	167.6	26.16	7.409	
4,560.0	4,538.3	4,542.5	4,499.2	12.3	14.2	-0.50	-1.4	-479.6	196.4	169.8	26.65	7.371	
4,600.0	4,577.8	4,582.5	4,538.3	12.5	14.3	-0.50	-1.4	-487.6	198.2	171.2	26.97	7.347	
4,655.0	4,632.2	4,637.4	4,592.2	12.7	14.6	-0.51	-1.4	-498.5	200.6	173.1	27.42	7.314	
4,700.0	4,676.6	4,682.4	4,636.2	12.8	14.8	-0.51	-1.5	-507.5	202.5	174.7	27.79	7.288	
4,750.0	4,726.0	4,732.3	4,685.2	13.0	15.0	-0.52	-1.5	-517.4	204.7	176.5	28.20	7.258	
4,800.0	4,775.4	4,782.3	4,734.1	13.2	15.2	-0.52	-1.5	-527.4	206.9	178.3	28.62	7.230	
4,845.0	4,819.8	4,827.3	4,778.2	13.4	15.4	-0.52	-1.5	-536.4	208.9	179.9	28.99	7.204	
4,900.0	4,874.1	4,882.2	4,832.0	13.6	15.6	-0.53	-1.6	-547.3	211.3	181.8	29.45	7.174	
4,940.0	4,913.7	4,922.2	4,871.2	13.8	15.8	-0.53	-1.6	-555.3	213.0	183.2	29.78	7.151	
5,000.0	4,972.9	4,982.1	4,929.9	14.0	16.1	-0.53	-1.6	-567.2	215.6	185.3	30.29	7.119	
5,035.0	5,007.5	5,017.1	4,964.2	14.1	16.2	-0.54	-1.6	-574.2	217.1	186.6	30.58	7.100	
5,100.0	5,071.7	5,082.0	5,027.8	14.4	16.5	-0.54	-1.7	-587.2	220.0	188.8	31.13	7.066	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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	5,101.3	5,112.0	5,057.2	14.5	16.6	-0.54	-1.7	-593.1	221.3	189.9	31.38	7.051	
5,200.0	5,170.5	5,181.9	5,125.7	14.8	16.9	-0.55	-1.7	-607.1	224.3	192.4	31.98	7.015	
5,225.0	5,195.1	5,206.9	5,150.2	14.9	17.1	-0.55	-1.7	-612.1	225.4	193.2	32.19	7.003	
5,300.0	5,269.2	5,281.8	5,223.6	15.2	17.4	-0.55	-1.8	-627.0	228.7	195.9	32.83	6.966	
5,320.0	5,289.0	5,301.8	5,243.2	15.3	17.5	-0.56	-1.8	-631.0	229.6	196.6	33.00	6.957	
5,400.0	5,368.0	5,381.7	5,321.5	15.6	17.8	-0.56	-1.8	-646.9	233.1	199.4	33.69	6.919	
5,415.0	5,382.8	5,396.7	5,336.2	15.6	17.9	-0.56	-1.8	-649.9	233.7	199.9	33.82	6.912	
5,500.0	5,466.8	5,481.6	5,419.4	16.0	18.3	-0.57	-1.9	-666.8	237.4	202.9	34.55	6.873	
5,510.0	5,476.6	5,491.6	5,429.2	16.0	18.3	-0.57	-1.9	-668.8	237.9	203.2	34.63	6.868	
5,600.0	5,565.5	5,581.5	5,517.3	16.4	18.7	-0.57	-1.9	-686.7	241.8	206.4	35.41	6.828	
5,605.0	5,570.5	5,586.5	5,522.2	16.4	18.7	-0.57	-1.9	-687.7	242.0	206.6	35.45	6.826	
5,700.0	5,664.3	5,681.4	5,615.2	16.8	19.2	-0.58	-2.0	-706.7	246.2	209.9	36.28	6.785	
5,795.0	5,758.1	5,776.3	5,708.2	17.2	19.6	-0.58	-2.0	-725.6	250.3	213.2	37.10	6.746	
5,800.0	5,763.1	5,781.3	5,713.1	17.2	19.6	-0.58	-2.0	-726.6	250.5	213.4	37.15	6.744	
5,890.0	5,852.0	5,871.3	5,801.2	17.6	20.0	-0.59	-2.1	-744.5	254.4	216.5	37.93	6.708	
5,900.0	5,861.8	5,881.2	5,811.0	17.6	20.1	-0.59	-2.1	-746.5	254.9	216.9	38.02	6.704	
5,985.0	5,945.8	5,966.2	5,894.2	18.0	20.4	-0.59	-2.1	-763.4	258.6	219.8	38.76	6.671	
5,999.4	5,960.0	5,980.5	5,908.3	18.0	20.5	-0.59	-2.1	-766.3	259.2	220.3	38.89	6.665	
6,080.0	6,039.7	6,061.0	5,987.2	18.3	20.9	-0.59	-2.2	-782.3	263.3	223.7	39.59	6.650	
6,100.0	6,059.5	6,081.0	6,006.8	18.4	21.0	-0.60	-2.2	-786.3	264.5	224.7	39.77	6.651	
6,175.0	6,133.8	6,155.8	6,080.1	18.7	21.3	-0.60	-2.2	-801.2	269.6	229.1	40.41	6.670	
6,200.0	6,158.6	6,180.8	6,104.5	18.8	21.4	-0.59	-2.2	-806.2	271.5	230.8	40.63	6.682	
6,270.0	6,228.2	6,250.5	6,172.9	19.1	21.7	-0.59	-2.3	-820.1	277.4	236.2	41.22	6.729	
6,300.0	6,258.0	6,280.4	6,202.1	19.2	21.9	-0.59	-2.3	-826.1	280.2	238.7	41.48	6.755	
6,365.0	6,322.7	6,345.0	6,265.5	19.5	22.1	-0.59	-2.3	-839.0	286.8	244.8	42.02	6.825	
6,400.0	6,357.5	6,379.8	6,299.6	19.6	22.3	-0.58	-2.4	-845.9	290.7	248.3	42.32	6.869	
6,460.0	6,417.3	6,439.4	6,358.0	19.8	22.6	-0.58	-2.4	-857.8	297.8	255.0	42.81	6.956	
6,500.0	6,457.2	6,479.1	6,396.9	20.0	22.8	-0.57	-2.4	-865.7	302.9	259.7	43.14	7.021	
6,555.0	6,512.1	6,533.6	6,450.3	20.1	23.0	-0.57	-2.4	-876.6	310.3	266.7	43.57	7.122	
6,600.0	6,557.0	6,580.1	6,495.9	20.3	23.2	-0.56	-2.5	-885.7	316.7	272.7	43.94	7.207	
6,650.0	6,607.0	6,632.6	6,547.4	20.5	23.4	-0.56	-2.5	-895.6	323.7	279.4	44.34	7.301	
6,700.0	6,657.0	6,685.1	6,599.0	20.6	23.7	-0.55	-2.5	-905.0	330.8	286.0	44.74	7.393	
6,745.0	6,701.9	6,732.4	6,645.6	20.7	23.9	-0.54	-2.5	-913.1	337.1	292.0	45.08	7.478	
6,800.0	6,756.9	6,790.3	6,702.8	20.9	24.1	-0.54	-2.6	-922.5	344.8	299.3	45.49	7.579	
6,840.0	6,796.9	6,832.4	6,744.5	21.0	24.3	-0.53	-2.6	-929.0	350.4	304.7	45.73	7.662	
6,899.4	6,856.3	6,895.1	6,806.5	21.0	24.6	-90.48	-2.6	-938.0	358.7	312.6	46.09	7.783	
6,935.0	6,891.9	6,932.8	6,843.8	21.1	24.7	-90.48	-2.6	-943.1	363.5	317.2	46.25	7.859	
7,000.0	6,956.9	7,001.7	6,912.1	21.1	25.0	-90.47	-2.6	-951.8	371.7	325.2	46.55	7.986	
7,030.0	6,986.9	7,033.6	6,943.8	21.1	25.2	-90.47	-2.6	-955.6	375.2	328.6	46.68	8.039	
7,100.0	7,056.9	7,108.1	7,017.9	21.1	25.5	-90.46	-2.7	-963.7	382.8	335.9	46.98	8.150	
7,125.0	7,081.9	7,134.7	7,044.4	21.1	25.6	-90.46	-2.7	-966.3	385.3	338.3	47.08	8.185	
7,200.0	7,156.9	7,214.9	7,124.2	21.2	25.9	-90.45	-2.7	-973.6	392.1	344.7	47.38	8.276	
7,220.0	7,176.9	7,236.3	7,145.5	21.2	25.9	-90.45	-2.7	-975.3	393.7	346.3	47.45	8.297	
7,300.0	7,256.9	7,322.0	7,231.0	21.2	26.3	-90.45	-2.7	-981.5	399.5	351.8	47.75	8.368	
7,315.0	7,271.9	7,338.1	7,247.1	21.2	26.3	-90.45	-2.7	-982.5	400.5	352.7	47.80	8.378	
7,400.0	7,356.9	7,429.4	7,338.2	21.2	26.6	-90.44	-2.7	-987.5	405.1	357.0	48.08	8.425	
7,410.0	7,366.9	7,440.1	7,349.0	21.2	26.7	-90.44	-2.7	-988.0	405.5	357.4	48.11	8.429	
7,500.0	7,456.9	7,537.0	7,445.7	21.3	27.0	-90.44	-2.7	-991.4	408.7	360.4	48.36	8.451	
7,505.0	7,461.9	7,542.3	7,451.1	21.3	27.0	-90.44	-2.7	-991.6	408.9	360.5	48.38	8.452	
7,600.0	7,556.9	7,644.6	7,553.4	21.3	27.2	-90.44	-2.7	-993.3	410.5	362.0	48.55	8.457	
7,695.0	7,651.9	7,743.1	7,651.9	21.3	27.3	-90.44	-2.7	-993.6	410.7	362.1	48.61	8.449	
7,700.0	7,656.9	7,748.1	7,656.9	21.3	27.3	-90.44	-2.7	-993.6	410.7	362.1	48.62	8.448	

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

ConocoPhillips

Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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
7,790.0	7,746.9	7,838.1	7,746.9	21.4	27.3	-90.44	-2.7	-993.6	410.7	362.1	48.67	8.438	
7,800.0	7,756.9	7,848.1	7,756.9	21.4	27.3	-90.44	-2.7	-993.6	410.7	362.0	48.68	8.437	
7,885.0	7,841.9	7,933.1	7,841.9	21.4	27.3	-90.44	-2.7	-993.6	410.7	362.0	48.74	8.428	
7,900.0	7,856.9	7,948.1	7,856.9	21.4	27.3	-90.44	-2.7	-993.6	410.7	362.0	48.74	8.426	
7,980.0	7,936.9	8,028.1	7,936.9	21.4	27.4	-90.44	-2.7	-993.6	410.7	361.9	48.80	8.417	
8,000.0	7,956.9	8,048.1	7,956.9	21.4	27.4	-90.44	-2.7	-993.6	410.7	361.9	48.81	8.415	
8,075.0	8,031.9	8,123.1	8,031.9	21.5	27.4	-90.44	-2.7	-993.6	410.7	361.9	48.86	8.406	
8,100.0	8,056.9	8,148.1	8,056.9	21.5	27.4	-90.44	-2.7	-993.6	410.7	361.9	48.88	8.404	
8,170.0	8,126.9	8,218.1	8,126.9	21.5	27.4	-90.44	-2.7	-993.6	410.7	361.8	48.92	8.396	
8,200.0	8,156.9	8,248.1	8,156.9	21.5	27.4	-90.44	-2.7	-993.6	410.7	361.8	48.94	8.392	
8,265.0	8,221.9	8,313.1	8,221.9	21.5	27.4	-90.44	-2.7	-993.6	410.7	361.7	48.98	8.385	
8,300.0	8,256.9	8,348.1	8,256.9	21.6	27.5	-90.44	-2.7	-993.6	410.7	361.7	49.01	8.381	
8,360.0	8,316.9	8,408.1	8,316.9	21.6	27.5	-90.44	-2.7	-993.6	410.7	361.7	49.05	8.374	
8,400.0	8,356.9	8,448.1	8,356.9	21.6	27.5	-90.44	-2.7	-993.6	410.7	361.7	49.07	8.370	
8,455.0	8,411.9	8,503.1	8,411.9	21.6	27.5	-90.44	-2.7	-993.6	410.7	361.6	49.11	8.363	
8,500.0	8,456.9	8,548.1	8,456.9	21.6	27.5	-90.44	-2.7	-993.6	410.7	361.6	49.14	8.358	
8,550.0	8,506.9	8,598.1	8,506.9	21.7	27.5	-90.44	-2.7	-993.6	410.7	361.6	49.18	8.352	
8,600.0	8,556.9	8,648.1	8,556.9	21.7	27.5	-90.44	-2.7	-993.6	410.7	361.5	49.21	8.347	
8,645.0	8,601.9	8,693.1	8,601.9	21.7	27.6	-90.44	-2.7	-993.6	410.7	361.5	49.24	8.341	
8,700.0	8,656.9	8,748.1	8,656.9	21.7	27.6	-90.44	-2.7	-993.6	410.7	361.5	49.28	8.335	
8,740.0	8,696.9	8,788.1	8,696.9	21.7	27.6	-90.44	-2.7	-993.6	410.7	361.4	49.30	8.330	
8,800.0	8,756.9	8,848.1	8,756.9	21.8	27.6	-90.44	-2.7	-993.6	410.7	361.4	49.35	8.324	
8,835.0	8,791.9	8,883.1	8,791.9	21.8	27.6	-90.44	-2.7	-993.6	410.7	361.4	49.37	8.319	
8,900.0	8,856.9	8,948.1	8,856.9	21.8	27.6	-90.44	-2.7	-993.6	410.7	361.3	49.41	8.312	
8,930.0	8,886.9	8,978.1	8,886.9	21.8	27.6	-90.44	-2.7	-993.6	410.7	361.3	49.44	8.308	
9,000.0	8,956.9	9,048.1	8,956.9	21.8	27.7	-90.44	-2.7	-993.6	410.7	361.2	49.48	8.300	
9,025.0	8,981.9	9,073.1	8,981.9	21.8	27.7	-90.44	-2.7	-993.6	410.7	361.2	49.50	8.297	
9,100.0	9,056.9	9,148.1	9,056.9	21.9	27.7	-90.44	-2.7	-993.6	410.7	361.2	49.55	8.289	
9,120.0	9,076.9	9,168.1	9,076.9	21.9	27.7	-90.44	-2.7	-993.6	410.7	361.2	49.57	8.286	
9,200.0	9,156.9	9,248.1	9,156.9	21.9	27.7	-90.44	-2.7	-993.6	410.7	361.1	49.62	8.277	
9,215.0	9,171.9	9,263.1	9,171.9	21.9	27.7	-90.44	-2.7	-993.6	410.7	361.1	49.63	8.275	
9,300.0	9,256.9	9,348.1	9,256.9	22.0	27.7	-90.44	-2.7	-993.6	410.7	361.0	49.70	8.265	
9,310.0	9,266.9	9,358.1	9,266.9	22.0	27.8	-90.44	-2.7	-993.6	410.7	361.0	49.70	8.264	
9,400.0	9,356.9	9,448.1	9,356.9	22.0	27.8	-90.44	-2.7	-993.6	410.7	361.0	49.77	8.253	
9,405.0	9,361.9	9,453.1	9,361.9	22.0	27.8	-90.44	-2.7	-993.6	410.7	361.0	49.77	8.253	
9,500.0	9,456.9	9,548.1	9,456.9	22.0	27.8	-90.44	-2.7	-993.6	410.7	360.9	49.84	8.241	
9,595.0	9,551.9	9,643.1	9,551.9	22.1	27.8	-90.44	-2.7	-993.6	410.7	360.8	49.91	8.230	
9,600.0	9,556.9	9,648.1	9,556.9	22.1	27.8	-90.44	-2.7	-993.6	410.7	360.8	49.91	8.229	
9,690.0	9,646.9	9,738.1	9,646.9	22.1	27.9	-90.44	-2.7	-993.6	410.7	360.8	49.98	8.219	
9,700.0	9,656.9	9,748.1	9,656.9	22.1	27.9	-90.44	-2.7	-993.6	410.7	360.7	49.98	8.217	
9,785.0	9,741.9	9,833.1	9,741.9	22.2	27.9	-90.44	-2.7	-993.6	410.7	360.7	50.04	8.207	
9,800.0	9,756.9	9,848.1	9,756.9	22.2	27.9	-90.44	-2.7	-993.6	410.7	360.7	50.06	8.205	
9,880.0	9,836.9	9,928.1	9,836.9	22.2	27.9	-90.44	-2.7	-993.6	410.7	360.6	50.11	8.196	
9,900.0	9,856.9	9,948.1	9,856.9	22.2	27.9	-90.44	-2.7	-993.6	410.7	360.6	50.13	8.193	
9,975.0	9,931.9	10,023.1	9,931.9	22.2	28.0	-90.44	-2.7	-993.6	410.7	360.5	50.18	8.184	
10,000.0	9,956.9	10,048.1	9,956.9	22.2	28.0	-90.44	-2.7	-993.6	410.7	360.5	50.20	8.181	
10,070.0	10,026.9	10,118.1	10,026.9	22.3	28.0	-90.44	-2.7	-993.6	410.7	360.5	50.25	8.173	
10,100.0	10,056.9	10,148.1	10,056.9	22.3	28.0	-90.44	-2.7	-993.6	410.7	360.5	50.28	8.169	
10,165.0	10,121.9	10,213.1	10,121.9	22.3	28.0	-90.44	-2.7	-993.6	410.7	360.4	50.33	8.162	
10,200.0	10,156.9	10,248.1	10,156.9	22.3	28.0	-90.44	-2.7	-993.6	410.7	360.4	50.35	8.157	
10,260.0	10,216.9	10,308.1	10,216.9	22.4	28.0	-90.44	-2.7	-993.6	410.7	360.3	50.40	8.150	
10,300.0	10,256.9	10,348.1	10,256.9	22.4	28.1	-90.44	-2.7	-993.6	410.7	360.3	50.43	8.145	

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

ConocoPhillips

Anticollision Report

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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 #708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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	
10,355.0	10,311.9	10,403.1	10,311.9	22.4	28.1	-90.44	-2.7	-993.6	410.7	360.3	50.47	8.138	
10,400.0	10,356.9	10,448.1	10,356.9	22.4	28.1	-90.44	-2.7	-993.6	410.7	360.2	50.50	8.133	
10,450.0	10,406.9	10,498.1	10,406.9	22.4	28.1	-90.44	-2.7	-993.6	410.7	360.2	50.54	8.127	
10,500.0	10,456.9	10,548.1	10,456.9	22.5	28.1	-90.44	-2.7	-993.6	410.7	360.2	50.58	8.121	
10,545.0	10,501.9	10,593.1	10,501.9	22.5	28.1	-90.44	-2.7	-993.6	410.7	360.1	50.61	8.115	
10,600.0	10,556.9	10,648.1	10,556.9	22.5	28.2	-90.44	-2.7	-993.6	410.7	360.1	50.65	8.109	
10,640.0	10,596.9	10,688.1	10,596.9	22.5	28.2	-90.44	-2.7	-993.6	410.7	360.0	50.68	8.104	
10,700.0	10,656.9	10,748.1	10,656.9	22.5	28.2	-90.44	-2.7	-993.6	410.7	360.0	50.73	8.096	
10,735.0	10,691.9	10,783.1	10,691.9	22.6	28.2	-90.44	-2.7	-993.6	410.7	360.0	50.76	8.092	
10,800.0	10,756.9	10,848.1	10,756.9	22.6	28.2	-90.44	-2.7	-993.6	410.7	359.9	50.81	8.084	
10,830.0	10,786.9	10,878.1	10,786.9	22.6	28.2	-90.44	-2.7	-993.6	410.7	359.9	50.83	8.080	
10,900.0	10,856.9	10,948.1	10,856.9	22.6	28.3	-90.44	-2.7	-993.6	410.7	359.8	50.89	8.072	
10,925.0	10,881.9	10,973.1	10,881.9	22.6	28.3	-90.44	-2.7	-993.6	410.7	359.8	50.90	8.069	
11,000.0	10,956.9	11,048.1	10,956.9	22.7	28.3	-90.44	-2.7	-993.6	410.7	359.8	50.96	8.059	
11,019.6	10,976.5	11,067.8	10,976.5	22.7	28.3	-90.44	-2.7	-993.6	410.7	359.8	50.97	8.058	
11,020.0	10,976.9	11,068.1	10,976.9	22.7	28.3	-89.92	-2.7	-993.6	410.7	359.8	50.97	8.058	
11,025.0	10,981.9	11,073.1	10,981.9	22.7	28.3	-89.92	-2.7	-993.6	410.7	359.8	50.98	8.057	
11,043.0	10,999.9	11,091.1	10,999.9	22.7	28.3	-90.00	-2.7	-993.6	410.7	359.7	50.98	8.056	
11,050.0	11,006.9	11,098.1	11,006.9	22.7	28.3	-90.05	-2.7	-993.6	410.7	359.7	50.98	8.056	
11,075.0	11,031.8	11,123.0	11,031.8	22.7	28.3	-90.36	-2.7	-993.6	410.7	359.7	50.99	8.055	
11,100.0	11,056.5	11,147.8	11,056.5	22.7	28.3	-90.85	-2.7	-993.6	410.8	359.8	50.99	8.056	
11,115.0	11,071.3	11,162.5	11,071.3	22.7	28.3	-91.22	-2.7	-993.6	410.8	359.8	50.99	8.057	
11,125.0	11,081.1	11,172.3	11,081.1	22.7	28.3	-91.50	-2.7	-993.6	410.9	359.9	50.99	8.058	
11,150.0	11,105.3	11,196.5	11,105.3	22.7	28.3	-92.30	-2.7	-993.6	411.1	360.1	50.98	8.064	
11,175.0	11,129.2	11,220.4	11,129.2	22.7	28.3	-93.23	-2.7	-993.6	411.5	360.5	50.94	8.077	
11,200.0	11,152.7	11,244.3	11,153.1	22.7	28.3	-94.30	-2.7	-993.6	412.1	361.2	50.89	8.097	
11,210.0	11,161.9	11,254.4	11,163.2	22.7	28.3	-94.76	-2.5	-993.6	412.4	361.5	50.85	8.109	
11,225.0	11,175.6	11,269.7	11,178.4	22.7	28.3	-95.45	-1.7	-993.6	412.9	362.1	50.79	8.128	
11,250.0	11,198.1	11,295.6	11,204.2	22.7	28.4	-96.60	0.8	-993.6	413.9	363.2	50.68	8.167	
11,275.0	11,219.9	11,322.0	11,230.4	22.7	28.4	-97.74	4.7	-993.6	415.0	364.5	50.54	8.212	
11,300.0	11,241.1	11,349.1	11,256.9	22.7	28.4	-98.87	10.2	-993.7	416.4	366.0	50.38	8.264	
11,305.0	11,245.2	11,354.6	11,262.2	22.7	28.4	-99.09	11.5	-993.7	416.7	366.3	50.35	8.275	
11,325.0	11,261.5	11,376.8	11,283.6	22.7	28.4	-99.98	17.4	-993.7	417.9	367.7	50.22	8.321	
11,350.0	11,281.2	11,405.1	11,310.5	22.7	28.4	-101.08	26.3	-993.8	419.5	369.5	50.04	8.383	
11,375.0	11,300.0	11,434.2	11,337.4	22.7	28.4	-102.16	37.1	-993.9	421.3	371.4	49.86	8.448	
11,400.0	11,317.9	11,463.9	11,364.3	22.7	28.4	-103.22	49.8	-994.0	423.1	373.5	49.69	8.516	
11,425.0	11,334.9	11,494.4	11,391.0	22.7	28.4	-104.24	64.6	-994.2	425.1	375.6	49.52	8.584	
11,450.0	11,351.0	11,525.7	11,417.3	22.7	28.4	-105.23	81.5	-994.3	427.1	377.7	49.37	8.651	
11,475.0	11,365.9	11,557.7	11,443.1	22.7	28.4	-106.19	100.5	-994.5	429.1	379.9	49.23	8.716	
11,495.0	11,377.2	11,583.9	11,463.2	22.8	28.4	-106.92	117.3	-994.7	430.7	381.6	49.14	8.765	
11,500.0	11,379.9	11,590.6	11,468.1	22.8	28.4	-107.10	121.8	-994.7	431.1	382.0	49.12	8.777	
11,525.0	11,392.7	11,624.2	11,492.1	22.8	28.4	-107.96	145.3	-994.9	433.1	384.1	49.03	8.833	
11,550.0	11,404.4	11,658.6	11,515.0	22.8	28.4	-108.77	171.0	-995.1	435.0	386.0	48.97	8.883	
11,575.0	11,414.9	11,693.7	11,536.3	22.8	28.4	-109.51	198.9	-995.4	436.8	387.9	48.94	8.925	
11,590.0	11,420.6	11,715.2	11,548.3	22.8	28.4	-109.92	216.7	-995.6	437.9	388.9	48.94	8.947	
11,600.0	11,424.2	11,729.6	11,555.9	22.8	28.4	-110.19	229.0	-995.7	438.5	389.6	48.94	8.960	
11,625.0	11,432.3	11,766.2	11,573.5	22.8	28.4	-110.78	261.0	-996.0	440.1	391.1	48.97	8.987	
11,650.0	11,439.1	11,803.3	11,588.8	22.9	28.5	-111.30	294.8	-996.3	441.4	392.4	49.01	9.006	
11,675.0	11,444.7	11,841.0	11,601.6	22.9	28.5	-111.73	330.3	-996.6	442.5	393.5	49.07	9.018	
11,685.0	11,446.5	11,856.3	11,606.0	22.9	28.5	-111.88	344.9	-996.7	442.9	393.8	49.10	9.021	
11,700.0	11,448.9	11,879.2	11,611.7	22.9	28.5	-112.07	367.1	-996.9	443.4	394.3	49.14	9.023	
11,725.0	11,451.9	11,917.7	11,618.9	22.9	28.5	-112.31	404.9	-997.3	444.1	394.8	49.22	9.021	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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
11,750.0	11,453.6	11,956.4	11,623.0	23.0	28.6	-112.45	443.3	-997.6	444.4	395.1	49.31	9.014	
11,769.6	11,454.0	11,986.8	11,624.0	23.0	28.6	-112.48	473.8	-997.9	444.5	395.2	49.37	9.005	
11,780.0	11,454.0	11,997.5	11,624.0	23.0	28.6	-112.48	484.5	-998.0	444.5	395.1	49.39	9.000	
11,800.0	11,454.0	12,017.5	11,624.0	23.0	28.6	-112.48	504.5	-998.2	444.5	395.1	49.44	8.991	
11,875.0	11,454.0	12,092.5	11,624.0	23.1	28.7	-112.48	579.5	-998.9	444.5	394.9	49.65	8.954	
11,900.0	11,454.0	12,117.5	11,624.0	23.2	28.7	-112.48	604.5	-999.1	444.5	394.8	49.72	8.940	
11,970.0	11,454.0	12,187.5	11,624.0	23.3	28.8	-112.48	674.5	-999.7	444.5	394.6	49.95	8.900	
12,000.0	11,454.0	12,217.5	11,624.0	23.3	28.9	-112.48	704.5	-1,000.0	444.5	394.5	50.05	8.882	
12,065.0	11,454.0	12,282.5	11,624.0	23.5	29.0	-112.48	769.5	-1,000.6	444.6	394.3	50.29	8.840	
12,100.0	11,454.0	12,317.5	11,624.0	23.5	29.1	-112.48	804.5	-1,000.9	444.6	394.1	50.42	8.817	
12,160.0	11,454.0	12,377.5	11,624.0	23.7	29.2	-112.48	864.5	-1,001.5	444.6	393.9	50.67	8.774	
12,200.0	11,454.0	12,417.5	11,624.0	23.8	29.2	-112.48	904.5	-1,001.8	444.6	393.7	50.84	8.745	
12,255.0	11,454.0	12,472.5	11,624.0	23.9	29.3	-112.48	959.5	-1,002.3	444.6	393.5	51.09	8.702	
12,300.0	11,454.0	12,517.5	11,624.0	24.0	29.4	-112.48	1,004.5	-1,002.7	444.6	393.3	51.30	8.666	
12,350.0	11,454.0	12,567.5	11,624.0	24.2	29.5	-112.48	1,054.5	-1,003.2	444.6	393.0	51.55	8.625	
12,400.0	11,454.0	12,617.5	11,624.0	24.3	29.7	-112.48	1,104.5	-1,003.7	444.6	392.8	51.80	8.583	
12,445.0	11,454.0	12,662.5	11,624.0	24.4	29.8	-112.48	1,149.5	-1,004.1	444.6	392.5	52.04	8.543	
12,500.0	11,454.0	12,717.5	11,624.0	24.6	29.9	-112.48	1,204.5	-1,004.6	444.6	392.2	52.34	8.494	
12,540.0	11,454.0	12,757.5	11,624.0	24.7	30.0	-112.48	1,244.5	-1,004.9	444.6	392.0	52.57	8.457	
12,600.0	11,454.0	12,817.5	11,624.0	24.9	30.1	-112.48	1,304.4	-1,005.5	444.6	391.7	52.92	8.401	
12,635.0	11,454.0	12,852.5	11,624.0	25.0	30.2	-112.48	1,339.4	-1,005.8	444.6	391.4	53.13	8.367	
12,700.0	11,454.0	12,917.5	11,624.0	25.2	30.4	-112.48	1,404.4	-1,006.4	444.6	391.0	53.54	8.304	
12,730.0	11,454.0	12,947.5	11,624.0	25.3	30.5	-112.48	1,434.4	-1,006.7	444.6	390.8	53.73	8.274	
12,800.0	11,454.0	13,017.5	11,624.0	25.6	30.7	-112.48	1,504.4	-1,007.3	444.6	390.4	54.19	8.204	
12,825.0	11,454.0	13,042.5	11,624.0	25.6	30.8	-112.48	1,529.4	-1,007.5	444.6	390.2	54.36	8.178	
12,900.0	11,454.0	13,117.5	11,624.0	25.9	31.0	-112.48	1,604.4	-1,008.2	444.6	389.7	54.88	8.101	
12,920.0	11,454.0	13,137.5	11,624.0	26.0	31.1	-112.48	1,624.4	-1,008.4	444.6	389.6	55.02	8.080	
13,000.0	11,454.0	13,217.5	11,624.0	26.3	31.3	-112.48	1,704.4	-1,009.1	444.6	389.0	55.60	7.996	
13,015.0	11,454.0	13,232.5	11,624.0	26.4	31.4	-112.48	1,719.4	-1,009.3	444.6	388.9	55.71	7.980	
13,100.0	11,454.0	13,317.5	11,624.0	26.7	31.7	-112.48	1,804.4	-1,010.0	444.6	388.2	56.36	7.889	
13,110.0	11,454.0	13,327.5	11,624.0	26.7	31.7	-112.48	1,814.4	-1,010.1	444.6	388.2	56.44	7.878	
13,200.0	11,454.0	13,417.5	11,624.0	27.1	32.0	-112.48	1,904.4	-1,010.9	444.6	387.5	57.14	7.780	
13,205.0	11,454.0	13,422.5	11,624.0	27.1	32.0	-112.48	1,909.4	-1,011.0	444.6	387.4	57.19	7.775	
13,300.0	11,454.0	13,517.5	11,624.0	27.5	32.4	-112.48	2,004.4	-1,011.9	444.6	386.6	57.96	7.671	
13,395.0	11,454.0	13,612.5	11,624.0	28.0	32.8	-112.48	2,099.4	-1,012.7	444.6	385.8	58.76	7.566	
13,400.0	11,454.0	13,617.5	11,624.0	28.0	32.8	-112.48	2,104.4	-1,012.8	444.6	385.8	58.81	7.560	
13,490.0	11,454.0	13,707.5	11,624.0	28.4	33.1	-112.48	2,194.4	-1,013.6	444.6	385.0	59.59	7.461	
13,500.0	11,454.0	13,717.5	11,624.0	28.4	33.2	-112.48	2,204.4	-1,013.7	444.6	384.9	59.68	7.450	
13,585.0	11,454.0	13,802.5	11,624.0	28.8	33.5	-112.48	2,289.4	-1,014.5	444.6	384.2	60.44	7.356	
13,600.0	11,454.0	13,817.5	11,624.0	28.9	33.6	-112.48	2,304.4	-1,014.6	444.6	384.0	60.58	7.339	
13,680.0	11,454.0	13,897.5	11,624.0	29.3	33.9	-112.48	2,384.4	-1,015.3	444.6	383.3	61.32	7.251	
13,700.0	11,454.0	13,917.5	11,624.0	29.4	34.0	-112.48	2,404.4	-1,015.5	444.6	383.1	61.50	7.229	
13,775.0	11,454.0	13,992.5	11,624.0	29.8	34.3	-112.48	2,479.4	-1,016.2	444.6	382.4	62.21	7.147	
13,800.0	11,454.0	14,017.5	11,624.0	29.9	34.4	-112.48	2,504.4	-1,016.4	444.6	382.2	62.45	7.119	
13,870.0	11,454.0	14,087.5	11,624.0	30.2	34.7	-112.48	2,574.4	-1,017.1	444.6	381.5	63.13	7.043	
13,900.0	11,454.0	14,117.5	11,624.0	30.4	34.9	-112.48	2,604.4	-1,017.3	444.6	381.2	63.42	7.010	
13,965.0	11,454.0	14,182.5	11,624.0	30.7	35.2	-112.48	2,669.4	-1,017.9	444.6	380.6	64.07	6.940	
14,000.0	11,454.0	14,217.5	11,624.0	30.9	35.3	-112.48	2,704.4	-1,018.2	444.6	380.2	64.42	6.902	
14,060.0	11,454.0	14,277.5	11,624.0	31.2	35.6	-112.48	2,764.4	-1,018.8	444.6	379.6	65.02	6.838	
14,100.0	11,454.0	14,317.5	11,624.0	31.4	35.8	-112.48	2,804.4	-1,019.2	444.6	379.2	65.43	6.795	
14,155.0	11,454.0	14,372.5	11,624.0	31.7	36.0	-112.48	2,859.4	-1,019.7	444.6	378.6	66.00	6.737	
14,200.0	11,454.0	14,417.5	11,624.0	32.0	36.2	-112.48	2,904.4	-1,020.1	444.6	378.2	66.46	6.690	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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	
14,250.0	11,454.0	14,467.5	11,624.0	32.2	36.5	-112.48	2,954.4	-1,020.5	444.6	377.6	66.99	6.637	
14,300.0	11,454.0	14,517.5	11,624.0	32.5	36.7	-112.48	3,004.4	-1,021.0	444.6	377.1	67.52	6.586	
14,345.0	11,454.0	14,562.5	11,624.0	32.8	36.9	-112.48	3,049.4	-1,021.4	444.6	376.6	68.00	6.539	
14,400.0	11,454.0	14,617.5	11,624.0	33.1	37.2	-112.48	3,104.4	-1,021.9	444.6	376.1	68.59	6.483	
14,440.0	11,454.0	14,657.5	11,624.0	33.3	37.4	-112.48	3,144.4	-1,022.3	444.6	375.6	69.02	6.442	
14,500.0	11,454.0	14,717.5	11,624.0	33.6	37.7	-112.48	3,204.4	-1,022.8	444.6	375.0	69.68	6.382	
14,535.0	11,454.0	14,752.5	11,624.0	33.8	37.9	-112.48	3,239.4	-1,023.1	444.7	374.6	70.06	6.346	
14,600.0	11,454.0	14,817.5	11,624.0	34.2	38.2	-112.48	3,304.4	-1,023.7	444.7	373.9	70.78	6.282	
14,630.0	11,454.0	14,847.5	11,624.0	34.4	38.4	-112.48	3,334.4	-1,024.0	444.7	373.5	71.12	6.252	
14,700.0	11,454.0	14,917.5	11,624.0	34.8	38.7	-112.48	3,404.4	-1,024.6	444.7	372.8	71.90	6.184	
14,725.0	11,454.0	14,942.5	11,624.0	34.9	38.9	-112.48	3,429.4	-1,024.9	444.7	372.5	72.19	6.160	
14,800.0	11,454.0	15,017.5	11,624.0	35.3	39.3	-112.48	3,504.4	-1,025.5	444.7	371.6	73.04	6.088	
14,820.0	11,454.0	15,037.5	11,624.0	35.5	39.4	-112.48	3,524.4	-1,025.7	444.7	371.4	73.27	6.069	
14,900.0	11,454.0	15,117.5	11,624.0	35.9	39.8	-112.48	3,604.4	-1,026.5	444.7	370.5	74.19	5.994	
14,915.0	11,454.0	15,132.5	11,624.0	36.0	39.9	-112.48	3,619.4	-1,026.6	444.7	370.3	74.36	5.980	
15,000.0	11,454.0	15,217.5	11,624.0	36.5	40.3	-112.48	3,704.3	-1,027.4	444.7	369.3	75.35	5.901	
15,010.0	11,454.0	15,227.5	11,624.0	36.6	40.4	-112.48	3,714.3	-1,027.5	444.7	369.2	75.47	5.892	
15,100.0	11,454.0	15,317.5	11,624.0	37.1	40.9	-112.48	3,804.3	-1,028.3	444.7	368.1	76.53	5.811	
15,105.0	11,454.0	15,322.5	11,624.0	37.2	40.9	-112.48	3,809.3	-1,028.3	444.7	368.1	76.59	5.806	
15,200.0	11,454.0	15,417.5	11,624.0	37.7	41.4	-112.48	3,904.3	-1,029.2	444.7	367.0	77.72	5.722	
15,295.0	11,454.0	15,512.5	11,624.0	38.3	42.0	-112.48	3,999.3	-1,030.1	444.7	365.8	78.86	5.639	
15,300.0	11,454.0	15,517.5	11,624.0	38.4	42.0	-112.48	4,004.3	-1,030.1	444.7	365.8	78.92	5.635	
15,390.0	11,454.0	15,607.5	11,624.0	38.9	42.5	-112.48	4,094.3	-1,030.9	444.7	364.7	80.01	5.558	
15,400.0	11,454.0	15,617.5	11,624.0	39.0	42.6	-112.48	4,104.3	-1,031.0	444.7	364.6	80.13	5.550	
15,485.0	11,454.0	15,702.5	11,624.0	39.5	43.1	-112.48	4,189.3	-1,031.8	444.7	363.5	81.17	5.479	
15,500.0	11,454.0	15,717.5	11,624.0	39.6	43.1	-112.48	4,204.3	-1,031.9	444.7	363.3	81.35	5.466	
15,580.0	11,454.0	15,797.5	11,624.0	40.1	43.6	-112.48	4,284.3	-1,032.7	444.7	362.4	82.34	5.401	
15,600.0	11,454.0	15,817.5	11,624.0	40.2	43.7	-112.48	4,304.3	-1,032.8	444.7	362.1	82.59	5.385	
15,675.0	11,454.0	15,892.5	11,624.0	40.7	44.2	-112.48	4,379.3	-1,033.5	444.7	361.2	83.52	5.325	
15,700.0	11,454.0	15,917.5	11,624.0	40.9	44.3	-112.48	4,404.3	-1,033.7	444.7	360.9	83.83	5.305	
15,770.0	11,454.0	15,987.5	11,624.0	41.3	44.7	-112.48	4,474.3	-1,034.4	444.7	360.0	84.71	5.250	
15,800.0	11,454.0	16,017.5	11,624.0	41.5	44.9	-112.47	4,504.3	-1,034.7	444.7	359.6	85.08	5.227	
15,865.0	11,454.0	16,082.5	11,624.0	41.9	45.3	-112.47	4,569.3	-1,035.3	444.7	358.8	85.90	5.177	
15,900.0	11,454.0	16,117.5	11,624.0	42.1	45.5	-112.47	4,604.3	-1,035.6	444.7	358.4	86.34	5.150	
15,960.0	11,454.0	16,177.5	11,624.0	42.5	45.9	-112.47	4,664.3	-1,036.1	444.7	357.6	87.11	5.105	
16,000.0	11,454.0	16,217.5	11,624.0	42.8	46.1	-112.47	4,704.3	-1,036.5	444.7	357.1	87.61	5.076	
16,055.0	11,454.0	16,272.5	11,624.0	43.1	46.4	-112.47	4,759.3	-1,037.0	444.7	356.4	88.32	5.035	
16,100.0	11,454.0	16,317.5	11,624.0	43.4	46.7	-112.47	4,804.3	-1,037.4	444.7	355.8	88.89	5.003	
16,150.0	11,454.0	16,367.5	11,624.0	43.8	47.0	-112.47	4,854.3	-1,037.9	444.7	355.2	89.54	4.967	
16,200.0	11,454.0	16,417.5	11,624.0	44.1	47.3	-112.47	4,904.3	-1,038.3	444.7	354.5	90.18	4.931	
16,245.0	11,454.0	16,462.5	11,624.0	44.4	47.6	-112.47	4,949.3	-1,038.7	444.7	354.0	90.76	4.900	
16,300.0	11,454.0	16,517.5	11,624.0	44.7	47.9	-112.47	5,004.3	-1,039.2	444.7	353.2	91.47	4.862	
16,340.0	11,454.0	16,557.5	11,624.0	45.0	48.2	-112.47	5,044.3	-1,039.6	444.7	352.7	92.00	4.834	
16,400.0	11,454.0	16,617.5	11,624.0	45.4	48.5	-112.47	5,104.3	-1,040.1	444.7	351.9	92.78	4.794	
16,435.0	11,454.0	16,652.5	11,624.0	45.6	48.8	-112.47	5,139.3	-1,040.5	444.7	351.5	93.23	4.770	
16,500.0	11,454.0	16,717.5	11,624.0	46.1	49.2	-112.47	5,204.3	-1,041.0	444.7	350.6	94.09	4.727	
16,530.0	11,454.0	16,747.5	11,624.0	46.3	49.3	-112.47	5,234.3	-1,041.3	444.7	350.3	94.48	4.707	
16,600.0	11,454.0	16,817.5	11,624.0	46.7	49.8	-112.47	5,304.3	-1,042.0	444.7	349.3	95.40	4.662	
16,625.0	11,454.0	16,842.5	11,624.0	46.9	49.9	-112.47	5,329.3	-1,042.2	444.7	349.0	95.73	4.646	
16,700.0	11,454.0	16,917.5	11,624.0	47.4	50.4	-112.47	5,404.3	-1,042.9	444.7	348.0	96.72	4.598	
16,720.0	11,454.0	16,937.5	11,624.0	47.5	50.5	-112.47	5,424.3	-1,043.0	444.7	347.8	96.99	4.585	
16,800.0	11,454.0	17,017.5	11,624.0	48.1	51.0	-112.47	5,504.3	-1,043.8	444.7	346.7	98.05	4.536	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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 +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,815.0	11,454.0	17,032.5	11,624.0	48.2	51.1	-112.47	5,519.3	-1,043.9	444.7	346.5	98.25	4.527	
16,900.0	11,454.0	17,117.5	11,624.0	48.8	51.7	-112.47	5,604.3	-1,044.7	444.7	345.4	99.38	4.475	
16,910.0	11,454.0	17,127.5	11,624.0	48.8	51.7	-112.47	5,614.3	-1,044.8	444.7	345.2	99.52	4.469	
17,000.0	11,454.0	17,217.5	11,624.0	49.4	52.3	-112.47	5,704.3	-1,045.6	444.7	344.0	100.72	4.416	
17,005.0	11,454.0	17,222.5	11,624.0	49.5	52.4	-112.47	5,709.3	-1,045.6	444.7	344.0	100.79	4.413	
17,100.0	11,454.0	17,317.5	11,624.0	50.1	53.0	-112.47	5,804.3	-1,046.5	444.8	342.7	102.07	4.357	
17,195.0	11,454.0	17,412.5	11,624.0	50.8	53.6	-112.47	5,899.3	-1,047.4	444.8	341.4	103.35	4.303	
17,200.0	11,454.0	17,417.5	11,624.0	50.8	53.6	-112.47	5,904.3	-1,047.4	444.8	341.3	103.42	4.301	
17,290.0	11,454.0	17,507.5	11,624.0	51.4	54.2	-112.47	5,994.3	-1,048.2	444.8	340.1	104.64	4.250	
17,300.0	11,454.0	17,517.5	11,624.0	51.5	54.3	-112.47	6,004.3	-1,048.3	444.8	340.0	104.78	4.245	
17,385.0	11,454.0	17,602.5	11,624.0	52.1	54.8	-112.47	6,089.2	-1,049.1	444.8	338.8	105.93	4.199	
17,400.0	11,454.0	17,617.5	11,624.0	52.2	54.9	-112.47	6,104.2	-1,049.3	444.8	338.6	106.14	4.191	
17,480.0	11,454.0	17,697.5	11,624.0	52.7	55.4	-112.47	6,184.2	-1,050.0	444.8	337.5	107.23	4.148	
17,500.0	11,454.0	17,717.5	11,624.0	52.8	55.6	-112.47	6,204.2	-1,050.2	444.8	337.3	107.50	4.137	
17,575.0	11,454.0	17,792.5	11,624.0	53.4	56.1	-112.47	6,279.2	-1,050.8	444.8	336.2	108.53	4.098	
17,600.0	11,454.0	17,817.5	11,624.0	53.5	56.2	-112.47	6,304.2	-1,051.1	444.8	335.9	108.87	4.085	
17,670.0	11,454.0	17,887.5	11,624.0	54.0	56.7	-112.47	6,374.2	-1,051.7	444.8	334.9	109.83	4.050	
17,700.0	11,454.0	17,917.5	11,624.0	54.2	56.9	-112.47	6,404.2	-1,052.0	444.8	334.5	110.24	4.034	
17,765.0	11,454.0	17,982.5	11,624.0	54.7	57.3	-112.47	6,469.2	-1,052.6	444.8	333.6	111.14	4.002	
17,800.0	11,454.0	18,017.5	11,624.0	54.9	57.6	-112.47	6,504.2	-1,052.9	444.8	333.2	111.62	3.985	
17,860.0	11,454.0	18,077.5	11,624.0	55.3	58.0	-112.47	6,564.2	-1,053.4	444.8	332.3	112.45	3.955	
17,900.0	11,454.0	18,117.5	11,624.0	55.6	58.2	-112.47	6,604.2	-1,053.8	444.8	331.8	113.00	3.936	
17,955.0	11,454.0	18,172.5	11,624.0	56.0	58.6	-112.47	6,659.2	-1,054.3	444.8	331.0	113.77	3.910	
18,000.0	11,454.0	18,217.5	11,624.0	56.3	58.9	-112.47	6,704.2	-1,054.7	444.8	330.4	114.39	3.888	
18,050.0	11,454.0	18,267.5	11,624.0	56.7	59.2	-112.47	6,754.2	-1,055.2	444.8	329.7	115.08	3.865	
18,100.0	11,454.0	18,317.5	11,624.0	57.0	59.6	-112.47	6,804.2	-1,055.6	444.8	329.0	115.78	3.842	
18,145.0	11,454.0	18,362.5	11,624.0	57.3	59.9	-112.47	6,849.2	-1,056.0	444.8	328.4	116.41	3.821	
18,200.0	11,454.0	18,417.5	11,624.0	57.7	60.2	-112.47	6,904.2	-1,056.5	444.8	327.6	117.17	3.796	
18,240.0	11,454.0	18,457.5	11,624.0	58.0	60.5	-112.47	6,944.2	-1,056.9	444.8	327.1	117.73	3.778	
18,300.0	11,454.0	18,517.5	11,624.0	58.4	60.9	-112.47	7,004.2	-1,057.5	444.8	326.2	118.57	3.751	
18,335.0	11,454.0	18,552.5	11,624.0	58.7	61.1	-112.47	7,039.2	-1,057.8	444.8	325.7	119.06	3.736	
18,400.0	11,454.0	18,617.5	11,624.0	59.1	61.6	-112.47	7,104.2	-1,058.4	444.8	324.8	119.97	3.708	
18,430.0	11,454.0	18,647.5	11,624.0	59.3	61.8	-112.47	7,134.2	-1,058.6	444.8	324.4	120.39	3.695	
18,500.0	11,454.0	18,717.5	11,624.0	59.8	62.3	-112.47	7,204.2	-1,059.3	444.8	323.4	121.37	3.665	
18,525.0	11,454.0	18,742.5	11,624.0	60.0	62.4	-112.47	7,229.2	-1,059.5	444.8	323.1	121.73	3.654	
18,600.0	11,454.0	18,817.5	11,624.0	60.5	62.9	-112.47	7,304.2	-1,060.2	444.8	322.0	122.78	3.623	
18,620.0	11,454.0	18,837.5	11,624.0	60.7	63.1	-112.47	7,324.2	-1,060.4	444.8	321.8	123.06	3.615	
18,700.0	11,454.0	18,917.5	11,624.0	61.3	63.6	-112.47	7,404.2	-1,061.1	444.8	320.6	124.19	3.582	
18,715.0	11,454.0	18,932.5	11,624.0	61.4	63.7	-112.47	7,419.2	-1,061.2	444.8	320.4	124.40	3.576	
18,800.0	11,454.0	19,017.5	11,624.0	62.0	64.3	-112.47	7,504.2	-1,062.0	444.8	319.2	125.60	3.542	
18,810.0	11,454.0	19,027.5	11,624.0	62.0	64.4	-112.47	7,514.2	-1,062.1	444.8	319.1	125.74	3.538	
18,900.0	11,454.0	19,117.5	11,624.0	62.7	65.0	-112.47	7,604.2	-1,062.9	444.8	317.8	127.02	3.502	
18,905.0	11,454.0	19,122.5	11,624.0	62.7	65.0	-112.47	7,609.2	-1,063.0	444.8	317.7	127.09	3.500	
19,000.0	11,454.0	19,217.5	11,624.0	63.4	65.7	-112.47	7,704.2	-1,063.8	444.8	316.4	128.44	3.463	
19,095.0	11,454.0	19,312.5	11,624.0	64.1	66.3	-112.47	7,799.2	-1,064.7	444.8	315.0	129.79	3.427	
19,100.0	11,454.0	19,317.5	11,624.0	64.1	66.4	-112.47	7,804.2	-1,064.8	444.8	315.0	129.86	3.426	
19,190.0	11,454.0	19,407.5	11,624.0	64.7	67.0	-112.47	7,894.2	-1,065.6	444.8	313.7	131.14	3.392	
19,200.0	11,454.0	19,417.5	11,624.0	64.8	67.1	-112.47	7,904.2	-1,065.7	444.8	313.6	131.28	3.388	
19,285.0	11,454.0	19,502.5	11,624.0	65.4	67.6	-112.47	7,989.2	-1,066.4	444.8	312.4	132.49	3.358	
19,300.0	11,454.0	19,517.5	11,624.0	65.5	67.7	-112.47	8,004.2	-1,066.6	444.8	312.1	132.71	3.352	
19,380.0	11,454.0	19,597.5	11,624.0	66.1	68.3	-112.47	8,084.2	-1,067.3	444.8	311.0	133.85	3.324	
19,400.0	11,454.0	19,617.5	11,624.0	66.2	68.4	-112.47	8,104.2	-1,067.5	444.8	310.7	134.13	3.316	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 #708H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11238-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		
19,475.0	11,454.0	19,692.5	11,624.0	66.8	69.0	-112.47	8,179.2	-1,068.2	444.8	309.6	135.21	3.290		
19,500.0	11,454.0	19,717.5	11,624.0	67.0	69.1	-112.47	8,204.2	-1,068.4	444.9	309.3	135.56	3.281		
19,570.0	11,454.0	19,787.5	11,624.0	67.5	69.6	-112.47	8,274.2	-1,069.0	444.9	308.3	136.57	3.257		
19,600.0	11,454.0	19,817.5	11,624.0	67.7	69.8	-112.47	8,304.2	-1,069.3	444.9	307.9	137.00	3.247		
19,665.0	11,454.0	19,882.5	11,624.0	68.1	70.3	-112.47	8,369.2	-1,069.9	444.9	306.9	137.93	3.225		
19,700.0	11,454.0	19,917.5	11,624.0	68.4	70.5	-112.47	8,404.2	-1,070.2	444.9	306.4	138.43	3.214		
19,760.0	11,454.0	19,977.5	11,624.0	68.8	71.0	-112.47	8,464.2	-1,070.8	444.9	305.6	139.29	3.194		
19,800.0	11,454.0	20,017.5	11,624.0	69.1	71.2	-112.47	8,504.1	-1,071.1	444.9	305.0	139.87	3.181		
19,855.0	11,454.0	20,072.5	11,624.0	69.5	71.6	-112.47	8,559.1	-1,071.6	444.9	304.2	140.66	3.163		
19,900.0	11,454.0	20,117.5	11,624.0	69.8	71.9	-112.47	8,604.1	-1,072.0	444.9	303.6	141.31	3.148		
19,950.0	11,454.0	20,167.5	11,624.0	70.2	72.3	-112.47	8,654.1	-1,072.5	444.9	302.8	142.03	3.132		
20,000.0	11,454.0	20,217.5	11,624.0	70.6	72.6	-112.47	8,704.1	-1,073.0	444.9	302.1	142.75	3.116		
20,045.0	11,454.0	20,262.5	11,624.0	70.9	72.9	-112.47	8,749.1	-1,073.4	444.9	301.5	143.40	3.102		
20,100.0	11,454.0	20,317.5	11,624.0	71.3	73.3	-112.47	8,804.1	-1,073.9	444.9	300.7	144.19	3.085		
20,140.0	11,454.0	20,357.5	11,624.0	71.6	73.6	-112.47	8,844.1	-1,074.2	444.9	300.1	144.77	3.073		
20,200.0	11,454.0	20,417.5	11,624.0	72.0	74.0	-112.47	8,904.1	-1,074.8	444.9	299.2	145.64	3.055		
20,235.0	11,454.0	20,452.5	11,624.0	72.3	74.3	-112.47	8,939.1	-1,075.1	444.9	298.7	146.14	3.044		
20,300.0	11,454.0	20,517.5	11,624.0	72.7	74.7	-112.47	9,004.1	-1,075.7	444.9	297.8	147.08	3.025		
20,330.0	11,454.0	20,547.5	11,624.0	73.0	75.0	-112.47	9,034.1	-1,076.0	444.9	297.4	147.52	3.016		
20,400.0	11,454.0	20,617.5	11,624.0	73.5	75.5	-112.47	9,104.1	-1,076.6	444.9	296.4	148.53	2.995		
20,425.0	11,454.0	20,642.5	11,624.0	73.6	75.6	-112.47	9,129.1	-1,076.8	444.9	296.0	148.89	2.988		
20,500.0	11,454.0	20,717.5	11,624.0	74.2	76.2	-112.46	9,204.1	-1,077.5	444.9	294.9	149.98	2.966		
20,520.0	11,454.0	20,737.5	11,624.0	74.3	76.3	-112.46	9,224.1	-1,077.7	444.9	294.6	150.27	2.961		
20,600.0	11,454.0	20,817.5	11,624.0	74.9	76.9	-112.46	9,304.1	-1,078.4	444.9	293.5	151.43	2.938		
20,615.0	11,454.0	20,832.5	11,624.0	75.0	77.0	-112.46	9,319.1	-1,078.6	444.9	293.2	151.65	2.934		
20,700.0	11,454.0	20,917.5	11,624.0	75.6	77.6	-112.46	9,404.1	-1,079.3	444.9	292.0	152.89	2.910		
20,710.0	11,454.0	20,927.5	11,624.0	75.7	77.7	-112.46	9,414.1	-1,079.4	444.9	291.9	153.03	2.907		
20,800.0	11,454.0	21,017.5	11,624.0	76.4	78.3	-112.46	9,504.1	-1,080.3	444.9	290.6	154.34	2.883		
20,805.0	11,454.0	21,022.5	11,624.0	76.4	78.3	-112.46	9,509.1	-1,080.3	444.9	290.5	154.41	2.881		
20,900.0	11,454.0	21,117.5	11,624.0	77.1	79.0	-112.46	9,604.1	-1,081.2	444.9	289.1	155.80	2.856		
20,995.0	11,454.0	21,212.5	11,624.0	77.8	79.7	-112.46	9,699.1	-1,082.0	444.9	287.7	157.18	2.831		
21,000.0	11,454.0	21,217.5	11,624.0	77.8	79.7	-112.46	9,704.1	-1,082.1	444.9	287.7	157.26	2.829		
21,090.0	11,454.0	21,307.5	11,624.0	78.5	80.4	-112.46	9,794.1	-1,082.9	444.9	286.3	158.57	2.806		
21,100.0	11,454.0	21,317.5	11,624.0	78.6	80.4	-112.46	9,804.1	-1,083.0	444.9	286.2	158.72	2.803		
21,185.0	11,454.0	21,402.5	11,624.0	79.2	81.0	-112.46	9,889.1	-1,083.8	444.9	285.0	159.96	2.781		
21,200.0	11,454.0	21,417.5	11,624.0	79.3	81.1	-112.46	9,904.1	-1,083.9	444.9	284.7	160.18	2.778		
21,280.0	11,454.0	21,497.5	11,624.0	79.9	81.7	-112.46	9,984.1	-1,084.6	444.9	283.6	161.35	2.758		
21,300.0	11,454.0	21,517.5	11,624.0	80.0	81.9	-112.46	10,004.1	-1,084.8	444.9	283.3	161.64	2.753		
21,375.0	11,454.0	21,592.5	11,624.0	80.6	82.4	-112.46	10,079.1	-1,085.5	444.9	282.2	162.74	2.734		
21,400.0	11,454.0	21,617.5	11,624.0	80.8	82.6	-112.46	10,104.1	-1,085.7	444.9	281.8	163.10	2.728		
21,470.0	11,454.0	21,687.5	11,624.0	81.3	83.1	-112.46	10,174.1	-1,086.4	444.9	280.8	164.13	2.711		
21,500.0	11,454.0	21,717.5	11,624.0	81.5	83.3	-112.46	10,204.1	-1,086.6	444.9	280.4	164.57	2.704		
21,565.0	11,454.0	21,782.5	11,624.0	82.0	83.8	-112.46	10,269.1	-1,087.2	444.9	279.4	165.52	2.688		
21,600.0	11,454.0	21,817.5	11,624.0	82.2	84.0	-112.46	10,304.1	-1,087.6	444.9	278.9	166.03	2.680		
21,660.0	11,454.0	21,877.5	11,624.0	82.7	84.4	-112.46	10,364.1	-1,088.1	444.9	278.0	166.91	2.666		
21,700.0	11,454.0	21,917.5	11,624.0	83.0	84.7	-112.46	10,404.1	-1,088.5	444.9	277.4	167.50	2.656		
21,755.0	11,454.0	21,972.5	11,624.0	83.4	85.1	-112.46	10,459.1	-1,089.0	444.9	276.6	168.31	2.644		
21,760.3	11,454.0	21,977.8	11,624.0	83.4	85.2	-112.46	10,464.3	-1,089.0	444.9	276.6	168.38	2.642		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	
0.0	0.0	1.0	1.0	3.0	3.0	89.58	0.2	30.1	30.1					
95.0	95.0	96.0	96.0	3.0	3.0	89.58	0.2	30.1	30.1	24.0	6.03	4.990		
100.0	100.0	101.0	101.0	3.0	3.0	89.58	0.2	30.1	30.1	24.0	6.03	4.987		
190.0	190.0	191.0	191.0	3.1	3.1	89.58	0.2	30.1	30.1	23.9	6.15	4.887		
200.0	200.0	201.0	201.0	3.1	3.1	89.58	0.2	30.1	30.1	23.9	6.17	4.872		
285.0	285.0	286.0	286.0	3.2	3.2	89.58	0.2	30.1	30.1	23.8	6.31	4.764		
300.0	300.0	301.0	301.0	3.2	3.2	89.58	0.2	30.1	30.1	23.7	6.34	4.743		
380.0	380.0	381.0	381.0	3.3	3.3	89.58	0.2	30.1	30.1	23.6	6.49	4.634		
400.0	400.0	401.0	401.0	3.3	3.3	89.58	0.2	30.1	30.1	23.5	6.53	4.605		
475.0	475.0	476.0	476.0	3.4	3.4	89.58	0.2	30.1	30.1	23.4	6.69	4.498		
500.0	500.0	501.0	501.0	3.4	3.4	89.58	0.2	30.1	30.1	23.3	6.74	4.461		
570.0	570.0	571.0	571.0	3.5	3.5	89.58	0.2	30.1	30.1	23.2	6.90	4.359		
600.0	600.0	601.0	601.0	3.5	3.5	89.58	0.2	30.1	30.1	23.1	6.97	4.314		
665.0	665.0	666.0	666.0	3.6	3.6	89.58	0.2	30.1	30.1	22.9	7.13	4.219		
700.0	700.0	701.0	701.0	3.7	3.7	89.58	0.2	30.1	30.1	22.9	7.22	4.167		
760.0	760.0	761.0	761.0	3.8	3.8	89.58	0.2	30.1	30.1	22.7	7.37	4.079		
800.0	800.0	801.0	801.0	3.8	3.8	89.58	0.2	30.1	30.1	22.6	7.48	4.021		
855.0	855.0	856.0	856.0	3.9	3.9	89.58	0.2	30.1	30.1	22.4	7.63	3.942		
900.0	900.0	901.0	901.0	4.0	4.0	89.58	0.2	30.1	30.1	22.3	7.75	3.878		
950.0	950.0	951.0	951.0	4.1	4.1	89.58	0.2	30.1	30.1	22.2	7.90	3.808		
1,000.0	1,000.0	1,001.0	1,001.0	4.2	4.2	89.58	0.2	30.1	30.1	22.0	8.04	3.739		
1,045.0	1,045.0	1,046.0	1,046.0	4.2	4.2	89.58	0.2	30.1	30.1	21.9	8.18	3.678		
1,100.0	1,100.0	1,101.0	1,101.0	4.3	4.3	89.58	0.2	30.1	30.1	21.7	8.34	3.605		
1,140.0	1,140.0	1,141.0	1,141.0	4.4	4.4	89.58	0.2	30.1	30.1	21.6	8.46	3.553		
1,200.0	1,200.0	1,201.0	1,201.0	4.5	4.5	89.58	0.2	30.1	30.1	21.4	8.65	3.476		
1,235.0	1,235.0	1,236.0	1,236.0	4.6	4.6	89.58	0.2	30.1	30.1	21.3	8.76	3.432		
1,300.0	1,300.0	1,301.0	1,301.0	4.7	4.7	89.58	0.2	30.1	30.1	21.1	8.97	3.353		
1,330.0	1,330.0	1,331.0	1,331.0	4.7	4.7	89.58	0.2	30.1	30.1	21.0	9.07	3.317		
1,400.0	1,400.0	1,401.0	1,401.0	4.9	4.9	89.58	0.2	30.1	30.1	20.8	9.30	3.235		
1,425.0	1,425.0	1,426.0	1,426.0	4.9	4.9	89.58	0.2	30.1	30.1	20.7	9.38	3.207		
1,500.0	1,500.0	1,501.0	1,501.0	5.1	5.1	89.58	0.2	30.1	30.1	20.4	9.63	3.123		
1,520.0	1,520.0	1,521.0	1,521.0	5.1	5.1	89.58	0.2	30.1	30.1	20.4	9.70	3.101		
1,600.0	1,600.0	1,601.0	1,601.0	5.3	5.3	89.58	0.2	30.1	30.1	20.1	9.97	3.017		
1,615.0	1,615.0	1,616.0	1,616.0	5.3	5.3	89.58	0.2	30.1	30.1	20.1	10.02	3.001		
1,700.0	1,700.0	1,701.0	1,701.0	5.5	5.5	89.58	0.2	30.1	30.1	19.8	10.31	2.916		
1,710.0	1,710.0	1,711.0	1,711.0	5.5	5.5	89.58	0.2	30.1	30.1	19.7	10.35	2.906		
1,800.0	1,800.0	1,801.0	1,801.0	5.7	5.7	89.58	0.2	30.1	30.1	19.4	10.66	2.820		
1,805.0	1,805.0	1,806.0	1,806.0	5.7	5.7	89.58	0.2	30.1	30.1	19.4	10.68	2.815		
1,900.0	1,900.0	1,901.0	1,901.0	5.9	5.9	89.58	0.2	30.1	30.1	19.1	11.02	2.729		
1,995.0	1,995.0	1,996.0	1,996.0	6.1	6.1	89.58	0.2	30.1	30.1	18.7	11.36	2.647		
2,000.0	2,000.0	2,001.0	2,001.0	6.1	6.1	89.58	0.2	30.1	30.1	18.7	11.38	2.642		
2,090.0	2,090.0	2,091.0	2,091.0	6.3	6.3	89.58	0.2	30.1	30.1	18.4	11.71	2.569		
2,100.0	2,100.0	2,101.0	2,101.0	6.3	6.3	89.58	0.2	30.1	30.1	18.3	11.74	2.561		
2,185.0	2,185.0	2,186.0	2,186.0	6.5	6.5	89.58	0.2	30.1	30.1	18.0	12.06	2.494		
2,200.0	2,200.0	2,201.0	2,201.0	6.5	6.5	89.58	0.2	30.1	30.1	18.0	12.11	2.483		
2,280.0	2,280.0	2,281.0	2,281.0	6.7	6.7	89.58	0.2	30.1	30.1	17.7	12.41	2.424		
2,300.0	2,300.0	2,301.0	2,301.0	6.7	6.7	89.58	0.2	30.1	30.1	17.6	12.48	2.409		
2,375.0	2,375.0	2,376.0	2,376.0	6.9	6.9	89.58	0.2	30.1	30.1	17.3	12.76	2.356		
2,400.0	2,400.0	2,401.0	2,401.0	6.9	6.9	89.58	0.2	30.1	30.1	17.2	12.86	2.339		
2,470.0	2,470.0	2,471.0	2,471.0	7.1	7.1	89.58	0.2	30.1	30.1	17.0	13.12	2.292		
2,500.0	2,500.0	2,501.0	2,501.0	7.2	7.2	89.58	0.2	30.1	30.1	16.8	13.23	2.273 CC, ES, SF		
2,565.0	2,565.0	2,566.0	2,566.0	7.2	7.3	179.55	0.2	30.1	30.8	17.3	13.49	2.284		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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	
2,600.0	2,600.0	2,601.0	2,601.0	7.3	7.4	179.57	0.2	30.1	31.8	18.2	13.62	2.335		
2,660.0	2,659.9	2,660.9	2,660.9	7.4	7.5	179.60	0.2	30.1	34.5	20.7	13.86	2.493		
2,700.0	2,699.8	2,700.8	2,700.8	7.4	7.6	179.63	0.2	30.1	37.0	23.0	14.01	2.645		
2,755.0	2,754.7	2,755.7	2,755.7	7.4	7.7	179.67	0.2	30.1	41.4	27.2	14.23	2.910		
2,800.0	2,799.5	2,800.5	2,800.5	7.5	7.8	179.70	0.2	30.1	45.8	31.4	14.41	3.176		
2,850.0	2,849.1	2,850.1	2,850.1	7.5	7.9	179.73	0.2	30.1	51.4	36.8	14.62	3.517		
2,900.0	2,898.7	2,899.7	2,899.7	7.6	8.0	179.76	0.2	30.1	58.0	43.1	14.83	3.908		
2,945.0	2,943.2	2,944.2	2,944.2	7.6	8.1	179.78	0.2	30.1	64.6	49.6	14.98	4.311		
2,950.0	2,948.2	2,949.2	2,949.2	7.6	8.1	179.79	0.2	30.1	65.3	50.3	14.99	4.358		
3,000.0	2,997.5	2,998.5	2,998.5	7.6	8.2	179.81	0.2	30.1	73.2	58.0	15.16	4.827		
3,040.0	3,037.0	3,039.1	3,039.1	7.7	8.3	179.82	0.2	29.8	79.2	63.8	15.32	5.169		
3,100.0	3,096.3	3,100.4	3,100.4	7.8	8.4	179.82	0.2	28.3	87.1	71.5	15.55	5.601		
3,135.0	3,130.9	3,136.3	3,136.2	7.9	8.4	179.81	0.3	26.8	91.1	75.5	15.69	5.811		
3,200.0	3,195.1	3,203.2	3,203.0	8.0	8.5	179.79	0.3	22.9	97.5	81.6	15.93	6.120		
3,230.0	3,224.7	3,234.1	3,233.9	8.1	8.5	179.77	0.4	20.5	99.9	83.9	16.02	6.237		
3,300.0	3,293.8	3,304.5	3,304.0	8.3	8.5	179.73	0.5	14.4	104.8	88.6	16.24	6.455		
3,325.0	3,318.5	3,329.4	3,328.8	8.3	8.5	179.71	0.5	12.2	106.6	90.2	16.34	6.522		
3,400.0	3,392.6	3,404.3	3,403.4	8.5	8.6	179.67	0.6	5.7	111.8	95.2	16.65	6.717		
3,420.0	3,412.4	3,424.2	3,423.2	8.6	8.6	179.66	0.7	4.0	113.2	96.5	16.73	6.766		
3,500.0	3,491.4	3,504.0	3,502.7	8.8	8.7	179.62	0.8	-3.0	118.8	101.7	17.08	6.954		
3,515.0	3,506.2	3,519.0	3,517.6	8.8	8.7	179.62	0.8	-4.3	119.8	102.7	17.15	6.987		
3,600.0	3,590.1	3,603.8	3,602.1	9.1	8.8	179.58	0.9	-11.7	125.8	108.2	17.55	7.168		
3,610.0	3,600.0	3,613.7	3,612.0	9.1	8.8	179.58	0.9	-12.5	126.5	108.9	17.60	7.187		
3,700.0	3,688.9	3,703.5	3,701.5	9.4	8.9	179.54	1.1	-20.4	132.8	114.7	18.04	7.359		
3,705.0	3,693.9	3,708.5	3,706.5	9.4	8.9	179.54	1.1	-20.8	133.1	115.0	18.06	7.368		
3,800.0	3,787.7	3,803.3	3,800.9	9.7	9.0	179.51	1.2	-29.0	139.7	121.2	18.55	7.531		
3,895.0	3,881.5	3,898.1	3,895.3	10.0	9.1	179.48	1.4	-37.3	146.4	127.3	19.06	7.677		
3,900.0	3,886.5	3,903.0	3,900.2	10.0	9.1	179.47	1.4	-37.7	146.7	127.6	19.09	7.685		
3,990.0	3,975.3	3,992.8	3,989.7	10.3	9.3	179.45	1.5	-45.6	153.0	133.4	19.59	7.808		
4,000.0	3,985.2	4,002.8	3,999.6	10.3	9.3	179.45	1.5	-46.4	153.7	134.0	19.65	7.821		
4,085.0	4,069.2	4,087.6	4,084.1	10.6	9.5	179.42	1.6	-53.8	159.6	139.5	20.14	7.925		
4,100.0	4,084.0	4,102.6	4,099.0	10.7	9.5	179.42	1.7	-55.1	160.7	140.4	20.23	7.943		
4,180.0	4,163.0	4,182.4	4,178.5	11.0	9.7	179.40	1.8	-62.1	166.2	145.5	20.70	8.030		
4,200.0	4,182.8	4,202.3	4,198.4	11.0	9.8	179.40	1.8	-63.8	167.6	146.8	20.82	8.051		
4,275.0	4,256.8	4,277.1	4,272.9	11.3	10.0	179.38	1.9	-70.3	172.9	151.6	21.28	8.124		
4,300.0	4,281.5	4,302.1	4,297.7	11.4	10.0	179.37	2.0	-72.5	174.6	153.2	21.43	8.147		
4,370.0	4,350.7	4,371.9	4,367.3	11.6	10.2	179.36	2.1	-78.6	179.5	157.6	21.87	8.208		
4,400.0	4,380.3	4,401.8	4,397.1	11.7	10.3	179.35	2.1	-81.2	181.6	159.5	22.06	8.233		
4,465.0	4,444.5	4,466.7	4,461.7	12.0	10.5	179.34	2.2	-86.9	186.1	163.7	22.47	8.283		
4,500.0	4,479.1	4,501.6	4,496.5	12.1	10.6	179.33	2.3	-89.9	188.6	165.9	22.70	8.308		
4,560.0	4,538.3	4,561.4	4,556.1	12.3	10.7	179.32	2.3	-95.1	192.8	169.7	23.09	8.349		
4,600.0	4,577.8	4,601.3	4,595.9	12.5	10.8	179.32	2.4	-98.6	195.6	172.2	23.35	8.376		
4,655.0	4,632.2	4,656.2	4,650.5	12.7	11.0	179.31	2.5	-103.4	199.4	175.7	23.71	8.409		
4,700.0	4,676.6	4,701.1	4,695.3	12.8	11.1	179.30	2.5	-107.3	202.5	178.5	24.01	8.435		
4,750.0	4,726.0	4,751.0	4,744.9	13.0	11.3	179.29	2.6	-111.6	206.0	181.7	24.35	8.462		
4,800.0	4,775.4	4,800.8	4,794.6	13.2	11.4	179.28	2.7	-116.0	209.5	184.8	24.68	8.488		
4,845.0	4,819.8	4,845.7	4,839.3	13.4	11.5	179.28	2.8	-119.9	212.6	187.7	24.99	8.509		
4,900.0	4,874.1	4,900.6	4,894.0	13.6	11.7	179.27	2.8	-124.7	216.5	191.1	25.37	8.534		
4,940.0	4,913.7	4,940.5	4,933.8	13.8	11.8	179.26	2.9	-128.1	219.3	193.6	25.64	8.551		
5,000.0	4,972.9	5,000.4	4,993.4	14.0	12.0	179.26	3.0	-133.4	223.5	197.4	26.06	8.575		
5,035.0	5,007.5	5,035.3	5,028.2	14.1	12.1	179.25	3.0	-136.4	225.9	199.6	26.30	8.588		
5,100.0	5,071.7	5,100.1	5,092.8	14.4	12.3	179.24	3.1	-142.1	230.4	203.7	26.76	8.612		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	5,101.3	5,130.0	5,122.6	14.5	12.4	179.24	3.2	-144.7	232.5	205.6	26.97	8.622	
5,200.0	5,170.5	5,199.4	5,191.7	14.8	12.6	179.23	3.3	-150.7	237.4	210.0	27.45	8.649	
5,225.0	5,195.1	5,223.3	5,215.5	14.9	12.7	179.23	3.3	-152.7	239.3	211.7	27.62	8.662	
5,300.0	5,269.2	5,295.0	5,287.0	15.2	12.9	179.23	3.4	-158.0	245.4	217.3	28.14	8.723	
5,320.0	5,289.0	5,314.1	5,306.1	15.3	12.9	179.23	3.4	-159.3	247.3	219.0	28.27	8.745	
5,400.0	5,368.0	5,390.4	5,382.2	15.6	13.2	179.23	3.5	-163.8	255.1	226.3	28.81	8.855	
5,415.0	5,382.8	5,404.7	5,396.5	15.6	13.2	179.24	3.5	-164.5	256.7	227.8	28.91	8.880	
5,500.0	5,466.8	5,485.4	5,477.2	16.0	13.4	179.25	3.6	-167.9	266.4	237.0	29.46	9.044	
5,510.0	5,476.6	5,494.9	5,486.6	16.0	13.5	179.25	3.6	-168.2	267.7	238.1	29.53	9.066	
5,600.0	5,565.5	5,580.1	5,571.8	16.4	13.7	179.28	3.6	-170.5	279.4	249.3	30.08	9.289	
5,605.0	5,570.5	5,584.8	5,576.5	16.4	13.7	179.28	3.6	-170.6	280.1	250.0	30.11	9.302	
5,700.0	5,664.3	5,674.3	5,666.0	16.8	13.8	179.31	3.6	-171.5	294.0	263.4	30.61	9.606	
5,795.0	5,758.1	5,767.5	5,759.1	17.2	13.9	179.34	3.6	-171.5	308.9	277.8	31.04	9.949	
5,800.0	5,763.1	5,772.4	5,764.1	17.2	13.9	179.34	3.6	-171.5	309.6	278.6	31.07	9.967	
5,890.0	5,852.0	5,861.3	5,853.0	17.6	13.9	179.37	3.6	-171.5	323.7	292.2	31.48	10.282	
5,900.0	5,861.8	5,871.2	5,862.8	17.6	13.9	179.37	3.6	-171.5	325.3	293.8	31.53	10.317	
5,985.0	5,945.8	5,955.1	5,946.8	18.0	14.0	179.40	3.6	-171.5	338.6	306.7	31.92	10.605	
5,999.4	5,960.0	5,969.3	5,961.0	18.0	14.0	179.40	3.6	-171.5	340.8	308.8	31.99	10.654	
6,080.0	6,039.7	6,049.0	6,040.7	18.3	14.0	179.42	3.6	-171.5	352.9	320.5	32.36	10.903	
6,100.0	6,059.5	6,068.8	6,060.5	18.4	14.0	179.43	3.6	-171.5	355.7	323.2	32.46	10.959	
6,175.0	6,133.8	6,143.2	6,134.8	18.7	14.1	179.45	3.6	-171.5	365.6	332.8	32.80	11.149	
6,200.0	6,158.6	6,168.0	6,159.6	18.8	14.1	179.45	3.6	-171.5	368.7	335.8	32.91	11.204	
6,270.0	6,228.2	6,237.5	6,229.2	19.1	14.1	179.46	3.6	-171.5	376.8	343.6	33.22	11.344	
6,300.0	6,258.0	6,267.3	6,259.0	19.2	14.1	179.47	3.6	-171.5	380.0	346.7	33.35	11.395	
6,365.0	6,322.7	6,332.0	6,323.7	19.5	14.2	179.48	3.6	-171.5	386.5	352.8	33.63	11.491	
6,400.0	6,357.5	6,366.9	6,358.5	19.6	14.2	179.48	3.6	-171.5	389.6	355.8	33.78	11.533	
6,460.0	6,417.3	6,426.7	6,418.3	19.8	14.2	179.49	3.6	-171.5	394.5	360.5	34.03	11.593	
6,500.0	6,457.2	6,466.6	6,458.2	20.0	14.2	179.49	3.6	-171.5	397.5	363.3	34.20	11.622	
6,555.0	6,512.1	6,521.4	6,513.1	20.1	14.3	179.50	3.6	-171.5	401.0	366.6	34.42	11.652	
6,600.0	6,557.0	6,566.4	6,558.0	20.3	14.3	179.50	3.6	-171.5	403.5	369.0	34.59	11.665	
6,650.0	6,607.0	6,616.3	6,608.0	20.5	14.3	179.50	3.6	-171.5	405.9	371.2	34.78	11.671	
6,700.0	6,657.0	6,666.3	6,658.0	20.6	14.4	179.51	3.6	-171.5	407.9	372.9	34.97	11.665	
6,745.0	6,701.9	6,711.3	6,702.9	20.7	14.4	179.51	3.6	-171.5	409.3	374.2	35.12	11.654	
6,800.0	6,756.9	6,766.2	6,757.9	20.9	14.4	179.51	3.6	-171.5	410.5	375.2	35.31	11.627	
6,840.0	6,796.9	6,806.2	6,797.9	21.0	14.4	179.51	3.6	-171.5	411.1	375.7	35.39	11.616	
6,899.4	6,856.3	6,865.6	6,857.3	21.0	14.5	89.55	3.6	-171.5	411.4	375.9	35.51	11.584	
6,935.0	6,891.9	6,901.2	6,892.9	21.1	14.5	89.55	3.6	-171.5	411.4	375.8	35.54	11.574	
7,000.0	6,956.9	6,966.2	6,957.9	21.1	14.5	89.55	3.6	-171.5	411.4	375.8	35.60	11.554	
7,030.0	6,986.9	6,996.2	6,987.9	21.1	14.5	89.55	3.6	-171.5	411.4	375.7	35.63	11.546	
7,100.0	7,056.9	7,066.2	7,057.9	21.1	14.6	89.55	3.6	-171.5	411.4	375.7	35.69	11.525	
7,125.0	7,081.9	7,091.2	7,082.9	21.1	14.6	89.55	3.6	-171.5	411.4	375.6	35.72	11.517	
7,200.0	7,156.9	7,166.2	7,157.9	21.2	14.6	89.55	3.6	-171.5	411.4	375.6	35.79	11.495	
7,220.0	7,176.9	7,186.2	7,177.9	21.2	14.7	89.55	3.6	-171.5	411.4	375.6	35.80	11.489	
7,300.0	7,256.9	7,266.2	7,257.9	21.2	14.7	89.55	3.6	-171.5	411.4	375.5	35.88	11.465	
7,315.0	7,271.9	7,281.2	7,272.9	21.2	14.7	89.55	3.6	-171.5	411.4	375.5	35.89	11.461	
7,400.0	7,356.9	7,366.2	7,357.9	21.2	14.8	89.55	3.6	-171.5	411.4	375.4	35.97	11.436	
7,410.0	7,366.9	7,376.2	7,367.9	21.2	14.8	89.55	3.6	-171.5	411.4	375.4	35.98	11.433	
7,500.0	7,456.9	7,466.2	7,457.9	21.3	14.8	89.55	3.6	-171.5	411.4	375.3	36.07	11.406	
7,505.0	7,461.9	7,471.2	7,462.9	21.3	14.8	89.55	3.6	-171.5	411.4	375.3	36.07	11.404	
7,600.0	7,556.9	7,566.2	7,557.9	21.3	14.9	89.55	3.6	-171.5	411.4	375.2	36.16	11.376	
7,695.0	7,651.9	7,661.2	7,652.9	21.3	14.9	89.55	3.6	-171.5	411.4	375.1	36.25	11.348	
7,700.0	7,656.9	7,666.2	7,657.9	21.3	14.9	89.55	3.6	-171.5	411.4	375.1	36.26	11.346	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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
7,790.0	7,746.9	7,756.2	7,747.9	21.4	15.0	89.55	3.6	-171.5	411.4	375.0	36.34	11.320	
7,800.0	7,756.9	7,766.2	7,757.9	21.4	15.0	89.55	3.6	-171.5	411.4	375.0	36.35	11.317	
7,885.0	7,841.9	7,851.2	7,842.9	21.4	15.0	89.55	3.6	-171.5	411.4	374.9	36.43	11.292	
7,900.0	7,856.9	7,866.2	7,857.9	21.4	15.0	89.55	3.6	-171.5	411.4	374.9	36.45	11.287	
7,980.0	7,936.9	7,946.2	7,937.9	21.4	15.1	89.55	3.6	-171.5	411.4	374.8	36.52	11.263	
8,000.0	7,956.9	7,966.2	7,957.9	21.4	15.1	89.55	3.6	-171.5	411.4	374.8	36.54	11.257	
8,075.0	8,031.9	8,041.2	8,032.9	21.5	15.1	89.55	3.6	-171.5	411.4	374.8	36.61	11.235	
8,100.0	8,056.9	8,066.2	8,057.9	21.5	15.2	89.55	3.6	-171.5	411.4	374.7	36.64	11.228	
8,170.0	8,126.9	8,136.2	8,127.9	21.5	15.2	89.55	3.6	-171.5	411.4	374.7	36.71	11.207	
8,200.0	8,156.9	8,166.2	8,157.9	21.5	15.2	89.55	3.6	-171.5	411.4	374.6	36.74	11.198	
8,265.0	8,221.9	8,231.2	8,222.9	21.5	15.3	89.55	3.6	-171.5	411.4	374.6	36.80	11.179	
8,300.0	8,256.9	8,266.2	8,257.9	21.6	15.3	89.55	3.6	-171.5	411.4	374.5	36.83	11.169	
8,360.0	8,316.9	8,326.2	8,317.9	21.6	15.3	89.55	3.6	-171.5	411.4	374.5	36.89	11.151	
8,400.0	8,356.9	8,366.2	8,357.9	21.6	15.3	89.55	3.6	-171.5	411.4	374.4	36.93	11.139	
8,455.0	8,411.9	8,421.2	8,412.9	21.6	15.4	89.55	3.6	-171.5	411.4	374.4	36.98	11.123	
8,500.0	8,456.9	8,466.2	8,457.9	21.6	15.4	89.55	3.6	-171.5	411.4	374.3	37.03	11.109	
8,550.0	8,506.9	8,516.2	8,507.9	21.7	15.4	89.55	3.6	-171.5	411.4	374.3	37.08	11.095	
8,600.0	8,556.9	8,566.2	8,557.9	21.7	15.5	89.55	3.6	-171.5	411.4	374.2	37.13	11.080	
8,645.0	8,601.9	8,611.2	8,602.9	21.7	15.5	89.55	3.6	-171.5	411.4	374.2	37.17	11.067	
8,700.0	8,656.9	8,666.2	8,657.9	21.7	15.5	89.55	3.6	-171.5	411.4	374.1	37.23	11.050	
8,740.0	8,696.9	8,706.2	8,697.9	21.7	15.5	89.55	3.6	-171.5	411.4	374.1	37.27	11.038	
8,800.0	8,756.9	8,766.2	8,757.9	21.8	15.6	89.55	3.6	-171.5	411.4	374.0	37.33	11.021	
8,835.0	8,791.9	8,801.2	8,792.9	21.8	15.6	89.55	3.6	-171.5	411.4	374.0	37.36	11.010	
8,900.0	8,856.9	8,866.2	8,857.9	21.8	15.6	89.55	3.6	-171.5	411.4	373.9	37.43	10.991	
8,930.0	8,886.9	8,896.2	8,887.9	21.8	15.7	89.55	3.6	-171.5	411.4	373.9	37.46	10.982	
9,000.0	8,956.9	8,966.2	8,957.9	21.8	15.7	89.55	3.6	-171.5	411.4	373.8	37.53	10.962	
9,025.0	8,981.9	8,991.2	8,982.9	21.8	15.7	89.55	3.6	-171.5	411.4	373.8	37.55	10.955	
9,100.0	9,056.9	9,066.2	9,057.9	21.9	15.8	89.55	3.6	-171.5	411.4	373.7	37.63	10.933	
9,120.0	9,076.9	9,086.2	9,077.9	21.9	15.8	89.55	3.6	-171.5	411.4	373.7	37.65	10.927	
9,200.0	9,156.9	9,166.2	9,157.9	21.9	15.8	89.55	3.6	-171.5	411.4	373.6	37.73	10.903	
9,215.0	9,171.9	9,181.2	9,172.9	21.9	15.8	89.55	3.6	-171.5	411.4	373.6	37.74	10.899	
9,300.0	9,256.9	9,266.2	9,257.9	22.0	15.9	89.55	3.6	-171.5	411.4	373.5	37.83	10.874	
9,310.0	9,266.9	9,276.2	9,267.9	22.0	15.9	89.55	3.6	-171.5	411.4	373.5	37.84	10.871	
9,400.0	9,356.9	9,366.2	9,357.9	22.0	15.9	89.55	3.6	-171.5	411.4	373.4	37.93	10.845	
9,405.0	9,361.9	9,371.2	9,362.9	22.0	15.9	89.55	3.6	-171.5	411.4	373.4	37.94	10.843	
9,500.0	9,456.9	9,466.2	9,457.9	22.0	16.0	89.55	3.6	-171.5	411.4	373.3	38.04	10.815	
9,595.0	9,551.9	9,561.2	9,552.9	22.1	16.1	89.55	3.6	-171.5	411.4	373.2	38.13	10.788	
9,600.0	9,556.9	9,566.2	9,557.9	22.1	16.1	89.55	3.6	-171.5	411.4	373.2	38.14	10.786	
9,690.0	9,646.9	9,656.2	9,647.9	22.1	16.1	89.55	3.6	-171.5	411.4	373.1	38.23	10.760	
9,700.0	9,656.9	9,666.2	9,657.9	22.1	16.1	89.55	3.6	-171.5	411.4	373.1	38.24	10.757	
9,785.0	9,741.9	9,751.2	9,742.9	22.2	16.2	89.55	3.6	-171.5	411.4	373.0	38.33	10.732	
9,800.0	9,756.9	9,766.2	9,757.9	22.2	16.2	89.55	3.6	-171.5	411.4	373.0	38.35	10.728	
9,880.0	9,836.9	9,846.2	9,837.9	22.2	16.2	89.55	3.6	-171.5	411.4	372.9	38.43	10.705	
9,900.0	9,856.9	9,866.2	9,857.9	22.2	16.3	89.55	3.6	-171.5	411.4	372.9	38.45	10.699	
9,975.0	9,931.9	9,941.2	9,932.9	22.2	16.3	89.55	3.6	-171.5	411.4	372.8	38.53	10.677	
10,000.0	9,956.9	9,966.2	9,957.9	22.2	16.3	89.55	3.6	-171.5	411.4	372.8	38.55	10.670	
10,070.0	10,026.9	10,036.2	10,027.9	22.3	16.4	89.55	3.6	-171.5	411.4	372.7	38.63	10.650	
10,100.0	10,056.9	10,066.2	10,057.9	22.3	16.4	89.55	3.6	-171.5	411.4	372.7	38.66	10.641	
10,165.0	10,121.9	10,131.2	10,122.9	22.3	16.4	89.55	3.6	-171.5	411.4	372.6	38.73	10.622	
10,200.0	10,156.9	10,166.2	10,157.9	22.3	16.4	89.55	3.6	-171.5	411.4	372.6	38.76	10.612	
10,260.0	10,216.9	10,226.2	10,217.9	22.4	16.5	89.55	3.6	-171.5	411.4	372.5	38.83	10.595	
10,300.0	10,256.9	10,266.2	10,257.9	22.4	16.5	89.55	3.6	-171.5	411.4	372.5	38.87	10.583	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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
10,355.0	10,311.9	10,321.2	10,312.9	22.4	16.5	89.55	3.6	-171.5	411.4	372.4	38.93	10.567	
10,400.0	10,356.9	10,366.2	10,357.9	22.4	16.6	89.55	3.6	-171.5	411.4	372.4	38.98	10.554	
10,450.0	10,406.9	10,416.2	10,407.9	22.4	16.6	89.55	3.6	-171.5	411.4	372.3	39.03	10.540	
10,500.0	10,456.9	10,466.2	10,457.9	22.5	16.6	89.55	3.6	-171.5	411.4	372.3	39.08	10.526	
10,545.0	10,501.9	10,511.2	10,502.9	22.5	16.7	89.55	3.6	-171.5	411.4	372.2	39.13	10.513	
10,600.0	10,556.9	10,566.2	10,557.9	22.5	16.7	89.55	3.6	-171.5	411.4	372.2	39.19	10.497	
10,640.0	10,596.9	10,606.2	10,597.9	22.5	16.7	89.55	3.6	-171.5	411.4	372.1	39.23	10.485	
10,700.0	10,656.9	10,666.2	10,657.9	22.5	16.8	89.55	3.6	-171.5	411.4	372.1	39.30	10.468	
10,735.0	10,691.9	10,701.2	10,692.9	22.6	16.8	89.55	3.6	-171.5	411.4	372.0	39.33	10.458	
10,800.0	10,756.9	10,766.2	10,757.9	22.6	16.8	89.55	3.6	-171.5	411.4	372.0	39.40	10.440	
10,830.0	10,786.9	10,796.2	10,787.9	22.6	16.8	89.55	3.6	-171.5	411.4	371.9	39.44	10.431	
10,900.0	10,856.9	10,866.2	10,857.9	22.6	16.9	89.55	3.6	-171.5	411.4	371.9	39.51	10.411	
10,925.0	10,881.9	10,891.2	10,882.9	22.6	16.9	89.55	3.6	-171.5	411.4	371.8	39.54	10.404	
11,000.0	10,956.9	10,966.2	10,957.9	22.7	17.0	89.55	3.6	-171.5	411.4	371.7	39.62	10.383	
11,019.6	10,976.5	10,985.9	10,977.5	22.7	17.0	89.55	3.6	-171.5	411.4	371.7	39.64	10.379	
11,020.0	10,976.9	10,986.2	10,977.9	22.7	17.0	90.07	3.6	-171.5	411.4	371.7	39.64	10.378	
11,025.0	10,981.9	10,991.2	10,982.9	22.7	17.0	90.07	3.6	-171.5	411.4	371.7	39.64	10.378	
11,050.0	11,006.9	11,016.2	11,007.9	22.7	17.0	90.20	3.6	-171.5	411.4	371.7	39.66	10.373	
11,075.0	11,031.8	11,041.1	11,032.8	22.7	17.0	90.51	3.6	-171.5	411.4	371.7	39.68	10.368	
11,100.0	11,056.5	11,065.9	11,057.5	22.7	17.0	91.00	3.6	-171.5	411.4	371.7	39.70	10.364	
11,115.0	11,071.3	11,080.6	11,072.3	22.7	17.0	91.37	3.6	-171.5	411.5	371.8	39.71	10.363	
11,125.0	11,081.1	11,090.4	11,082.1	22.7	17.0	91.64	3.6	-171.5	411.5	371.8	39.71	10.363	
11,150.0	11,105.3	11,114.6	11,106.3	22.7	17.0	92.44	3.6	-171.5	411.8	372.0	39.72	10.366	
11,175.0	11,129.2	11,138.5	11,130.2	22.7	17.0	93.37	3.6	-171.5	412.2	372.4	39.72	10.376	
11,200.0	11,152.7	11,162.4	11,154.1	22.7	17.1	94.43	3.7	-171.5	412.8	373.1	39.71	10.394	
11,210.0	11,161.9	11,172.6	11,164.2	22.7	17.1	94.89	3.9	-171.5	413.1	373.4	39.71	10.402	
11,225.0	11,175.6	11,187.9	11,179.5	22.7	17.1	95.58	4.7	-171.5	413.6	373.9	39.71	10.417	
11,250.0	11,198.1	11,213.8	11,205.4	22.7	17.1	96.73	7.1	-171.5	414.6	374.9	39.70	10.445	
11,275.0	11,219.9	11,240.4	11,231.6	22.7	17.1	97.87	11.1	-171.6	415.8	376.1	39.69	10.477	
11,300.0	11,241.1	11,267.5	11,258.1	22.7	17.1	98.99	16.6	-171.6	417.2	377.5	39.69	10.512	
11,305.0	11,245.2	11,273.0	11,263.5	22.7	17.1	99.22	17.9	-171.6	417.5	377.8	39.69	10.519	
11,325.0	11,261.5	11,295.3	11,285.0	22.7	17.1	100.10	23.8	-171.7	418.7	379.0	39.69	10.549	
11,350.0	11,281.2	11,323.7	11,311.9	22.7	17.1	101.20	32.8	-171.8	420.3	380.6	39.70	10.587	
11,375.0	11,300.0	11,352.8	11,338.9	22.7	17.1	102.27	43.7	-171.8	422.1	382.4	39.74	10.623	
11,400.0	11,317.9	11,382.7	11,365.9	22.7	17.1	103.32	56.5	-172.0	424.0	384.2	39.78	10.657	
11,425.0	11,334.9	11,413.2	11,392.6	22.7	17.1	104.34	71.3	-172.1	425.9	386.1	39.86	10.687	
11,450.0	11,351.0	11,444.6	11,419.0	22.7	17.1	105.33	88.3	-172.3	427.9	388.0	39.95	10.711	
11,475.0	11,365.9	11,476.8	11,444.8	22.7	17.1	106.28	107.5	-172.4	430.0	389.9	40.08	10.728	
11,495.0	11,377.2	11,503.0	11,464.9	22.8	17.1	107.01	124.4	-172.6	431.6	391.4	40.20	10.736	
11,500.0	11,379.9	11,509.7	11,469.9	22.8	17.1	107.18	128.8	-172.6	432.0	391.7	40.23	10.737	
11,525.0	11,392.7	11,543.4	11,493.9	22.8	17.1	108.04	152.5	-172.8	433.9	393.5	40.41	10.738	
11,550.0	11,404.4	11,577.9	11,516.7	22.8	17.1	108.83	178.3	-173.1	435.8	395.2	40.62	10.730	
11,575.0	11,414.9	11,613.2	11,538.1	22.8	17.1	109.57	206.4	-173.3	437.6	396.8	40.85	10.715	
11,590.0	11,420.6	11,634.7	11,550.0	22.8	17.2	109.98	224.2	-173.5	438.7	397.7	40.99	10.702	
11,600.0	11,424.2	11,649.1	11,557.6	22.8	17.2	110.23	236.5	-173.6	439.3	398.2	41.09	10.692	
11,625.0	11,432.3	11,685.8	11,575.2	22.8	17.2	110.82	268.7	-173.9	440.8	399.5	41.34	10.664	
11,650.0	11,439.1	11,723.0	11,590.4	22.9	17.2	111.33	302.7	-174.2	442.1	400.6	41.58	10.632	
11,675.0	11,444.7	11,760.8	11,603.1	22.9	17.3	111.75	338.2	-174.5	443.2	401.4	41.82	10.598	
11,685.0	11,446.5	11,776.0	11,607.4	22.9	17.3	111.89	352.8	-174.7	443.6	401.7	41.91	10.584	
11,700.0	11,448.9	11,798.9	11,613.1	22.9	17.3	112.07	375.1	-174.9	444.1	402.1	42.04	10.563	
11,725.0	11,451.9	11,837.5	11,620.1	22.9	17.4	112.30	412.9	-175.2	444.7	402.5	42.24	10.529	
11,750.0	11,453.6	11,876.2	11,624.1	23.0	17.4	112.43	451.4	-175.6	445.0	402.6	42.40	10.497	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		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	
11,769.6	11,454.0	11,906.6	11,625.0	23.0	17.5	112.45	481.9	-175.8	445.1	402.6	42.50	10.474	
11,769.8	11,454.0	11,906.9	11,625.0	23.0	17.5	112.45	482.2	-175.8	445.1	402.6	42.50	10.474	
11,780.0	11,454.0	11,916.7	11,625.0	23.0	17.5	112.45	492.0	-175.9	445.1	402.6	42.52	10.467	
11,800.0	11,454.0	11,936.7	11,625.0	23.0	17.5	112.45	512.0	-176.1	445.1	402.5	42.58	10.453	
11,875.0	11,454.0	12,011.7	11,625.0	23.1	17.7	112.45	587.0	-176.8	445.1	402.3	42.82	10.394	
11,900.0	11,454.0	12,036.7	11,625.0	23.2	17.7	112.45	612.0	-177.0	445.1	402.2	42.91	10.373	
11,970.0	11,454.0	12,106.7	11,625.0	23.3	17.9	112.45	682.0	-177.6	445.1	401.9	43.17	10.311	
12,000.0	11,454.0	12,136.7	11,625.0	23.3	17.9	112.45	712.0	-177.9	445.1	401.8	43.29	10.282	
12,065.0	11,454.0	12,201.7	11,625.0	23.5	18.1	112.45	777.0	-178.5	445.1	401.5	43.56	10.218	
12,100.0	11,454.0	12,236.7	11,625.0	23.5	18.2	112.45	811.9	-178.8	445.1	401.4	43.72	10.181	
12,160.0	11,454.0	12,296.7	11,625.0	23.7	18.4	112.45	871.9	-179.4	445.1	401.1	44.00	10.116	
12,200.0	11,454.0	12,336.7	11,625.0	23.8	18.5	112.45	911.9	-179.7	445.1	400.9	44.20	10.070	
12,255.0	11,454.0	12,391.7	11,625.0	23.9	18.6	112.45	966.9	-180.2	445.1	400.6	44.49	10.006	
12,300.0	11,454.0	12,436.7	11,625.0	24.0	18.8	112.45	1,011.9	-180.6	445.1	400.4	44.73	9.951	
12,350.0	11,454.0	12,486.7	11,625.0	24.2	19.0	112.45	1,061.9	-181.1	445.1	400.1	45.01	9.889	
12,400.0	11,454.0	12,536.7	11,625.0	24.3	19.1	112.45	1,111.9	-181.5	445.1	399.8	45.30	9.825	
12,445.0	11,454.0	12,581.7	11,625.0	24.4	19.3	112.45	1,156.9	-182.0	445.1	399.5	45.58	9.766	
12,500.0	11,454.0	12,636.7	11,625.0	24.6	19.5	112.45	1,211.9	-182.5	445.1	399.2	45.92	9.693	
12,540.0	11,454.0	12,676.7	11,625.0	24.7	19.6	112.45	1,251.9	-182.8	445.1	398.9	46.18	9.638	
12,600.0	11,454.0	12,736.7	11,625.0	24.9	19.9	112.45	1,311.9	-183.4	445.1	398.5	46.58	9.556	
12,635.0	11,454.0	12,771.7	11,625.0	25.0	20.0	112.45	1,346.9	-183.7	445.1	398.3	46.82	9.506	
12,700.0	11,454.0	12,836.7	11,625.0	25.2	20.3	112.45	1,411.9	-184.3	445.1	397.8	47.28	9.414	
12,730.0	11,454.0	12,866.7	11,625.0	25.3	20.4	112.45	1,441.9	-184.5	445.1	397.6	47.50	9.370	
12,800.0	11,454.0	12,936.7	11,625.0	25.6	20.7	112.45	1,511.9	-185.2	445.1	397.1	48.02	9.269	
12,825.0	11,454.0	12,961.7	11,625.0	25.6	20.8	112.45	1,536.9	-185.4	445.1	396.9	48.21	9.232	
12,900.0	11,454.0	13,036.7	11,625.0	25.9	21.2	112.45	1,611.9	-186.1	445.1	396.3	48.80	9.121	
12,920.0	11,454.0	13,056.7	11,625.0	26.0	21.2	112.45	1,631.9	-186.3	445.1	396.2	48.96	9.091	
13,000.0	11,454.0	13,136.7	11,625.0	26.3	21.6	112.45	1,711.9	-187.0	445.1	395.5	49.61	8.972	
13,015.0	11,454.0	13,151.7	11,625.0	26.4	21.7	112.45	1,726.9	-187.1	445.1	395.4	49.74	8.949	
13,100.0	11,454.0	13,236.7	11,625.0	26.7	22.1	112.45	1,811.9	-187.9	445.1	394.7	50.46	8.822	
13,110.0	11,454.0	13,246.7	11,625.0	26.7	22.1	112.45	1,821.9	-188.0	445.1	394.6	50.54	8.807	
13,200.0	11,454.0	13,336.7	11,625.0	27.1	22.6	112.45	1,911.9	-188.8	445.1	393.8	51.33	8.671	
13,205.0	11,454.0	13,341.7	11,625.0	27.1	22.6	112.45	1,916.9	-188.9	445.1	393.7	51.38	8.663	
13,300.0	11,454.0	13,436.7	11,625.0	27.5	23.1	112.45	2,011.9	-189.7	445.1	392.9	52.24	8.520	
13,395.0	11,454.0	13,531.7	11,625.0	28.0	23.6	112.45	2,106.9	-190.6	445.1	392.0	53.13	8.378	
13,400.0	11,454.0	13,536.7	11,625.0	28.0	23.6	112.45	2,111.9	-190.6	445.1	391.9	53.18	8.371	
13,490.0	11,454.0	13,626.7	11,625.0	28.4	24.1	112.45	2,201.9	-191.4	445.1	391.1	54.04	8.236	
13,500.0	11,454.0	13,636.7	11,625.0	28.4	24.2	112.45	2,211.9	-191.5	445.1	391.0	54.14	8.222	
13,585.0	11,454.0	13,721.7	11,625.0	28.8	24.6	112.45	2,296.9	-192.3	445.1	390.1	54.98	8.096	
13,600.0	11,454.0	13,736.7	11,625.0	28.9	24.7	112.45	2,311.9	-192.4	445.1	390.0	55.13	8.074	
13,680.0	11,454.0	13,816.7	11,625.0	29.3	25.2	112.45	2,391.9	-193.2	445.1	389.2	55.94	7.957	
13,700.0	11,454.0	13,836.7	11,625.0	29.4	25.3	112.45	2,411.9	-193.3	445.1	389.0	56.14	7.929	
13,775.0	11,454.0	13,911.7	11,625.0	29.8	25.7	112.45	2,486.9	-194.0	445.1	388.2	56.92	7.821	
13,800.0	11,454.0	13,936.7	11,625.0	29.9	25.8	112.45	2,511.9	-194.3	445.1	387.9	57.18	7.785	
13,870.0	11,454.0	14,006.7	11,625.0	30.2	26.2	112.45	2,581.9	-194.9	445.1	387.2	57.91	7.686	
13,900.0	11,454.0	14,036.7	11,625.0	30.4	26.4	112.45	2,611.9	-195.2	445.1	386.9	58.23	7.644	
13,965.0	11,454.0	14,101.7	11,625.0	30.7	26.8	112.45	2,676.9	-195.7	445.1	386.2	58.93	7.553	
14,000.0	11,454.0	14,136.7	11,625.0	30.9	27.0	112.45	2,711.9	-196.1	445.1	385.8	59.31	7.505	
14,060.0	11,454.0	14,196.7	11,625.0	31.2	27.4	112.45	2,771.9	-196.6	445.1	385.1	59.97	7.422	
14,100.0	11,454.0	14,236.7	11,625.0	31.4	27.6	112.45	2,811.9	-197.0	445.1	384.7	60.41	7.368	
14,155.0	11,454.0	14,291.7	11,625.0	31.7	27.9	112.45	2,866.9	-197.5	445.1	384.1	61.02	7.294	
14,200.0	11,454.0	14,336.7	11,625.0	32.0	28.2	112.45	2,911.9	-197.9	445.1	383.6	61.53	7.235	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		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	
14,250.0	11,454.0	14,386.7	11,625.0	32.2	28.5	112.45	2,961.9	-198.3	445.1	383.0	62.09	7.169	
14,300.0	11,454.0	14,436.7	11,625.0	32.5	28.8	112.45	3,011.9	-198.8	445.1	382.5	62.66	7.104	
14,345.0	11,454.0	14,481.7	11,625.0	32.8	29.1	112.45	3,056.9	-199.2	445.1	381.9	63.18	7.046	
14,400.0	11,454.0	14,536.7	11,625.0	33.1	29.4	112.45	3,111.9	-199.7	445.1	381.3	63.81	6.976	
14,440.0	11,454.0	14,576.7	11,625.0	33.3	29.7	112.45	3,151.9	-200.1	445.1	380.8	64.27	6.925	
14,500.0	11,454.0	14,636.7	11,625.0	33.6	30.1	112.45	3,211.9	-200.6	445.1	380.1	64.97	6.851	
14,535.0	11,454.0	14,671.7	11,625.0	33.8	30.3	112.45	3,246.8	-200.9	445.1	379.7	65.39	6.807	
14,600.0	11,454.0	14,736.7	11,625.0	34.2	30.7	112.45	3,311.8	-201.5	445.1	379.0	66.16	6.728	
14,630.0	11,454.0	14,766.7	11,625.0	34.4	30.9	112.45	3,341.8	-201.8	445.1	378.6	66.51	6.692	
14,700.0	11,454.0	14,836.7	11,625.0	34.8	31.3	112.45	3,411.8	-202.4	445.1	377.8	67.35	6.609	
14,725.0	11,454.0	14,861.7	11,625.0	34.9	31.5	112.45	3,436.8	-202.6	445.1	377.5	67.65	6.579	
14,800.0	11,454.0	14,936.7	11,625.0	35.3	32.0	112.45	3,511.8	-203.3	445.1	376.6	68.56	6.492	
14,820.0	11,454.0	14,956.7	11,625.0	35.5	32.1	112.45	3,531.8	-203.5	445.1	376.3	68.80	6.469	
14,900.0	11,454.0	15,036.7	11,625.0	35.9	32.6	112.45	3,611.8	-204.2	445.1	375.3	69.78	6.379	
14,915.0	11,454.0	15,051.7	11,625.0	36.0	32.7	112.45	3,626.8	-204.4	445.1	375.1	69.96	6.362	
14,939.1	11,454.0	15,075.8	11,625.0	36.2	32.9	112.45	3,650.9	-204.6	445.1	374.9	70.26	6.335	
15,000.0	11,454.0	15,136.7	11,625.0	36.5	33.3	112.45	3,711.8	-205.1	445.1	374.1	71.01	6.268	
15,010.0	11,454.0	15,146.7	11,625.0	36.6	33.4	112.45	3,721.8	-205.2	445.1	374.0	71.14	6.257	
15,100.0	11,454.0	15,236.7	11,625.0	37.1	33.9	112.45	3,811.8	-206.0	445.1	372.9	72.26	6.160	
15,105.0	11,454.0	15,241.7	11,625.0	37.2	34.0	112.45	3,816.8	-206.1	445.1	372.8	72.32	6.155	
15,200.0	11,454.0	15,336.7	11,625.0	37.7	34.6	112.45	3,911.8	-207.0	445.1	371.6	73.51	6.055	
15,295.0	11,454.0	15,431.7	11,625.0	38.3	35.2	112.45	4,006.8	-207.8	445.1	370.4	74.71	5.958	
15,300.0	11,454.0	15,436.7	11,625.0	38.4	35.3	112.45	4,011.8	-207.9	445.1	370.3	74.77	5.953	
15,390.0	11,454.0	15,526.7	11,625.0	38.9	35.9	112.45	4,101.8	-208.7	445.1	369.2	75.92	5.863	
15,400.0	11,454.0	15,536.7	11,625.0	39.0	35.9	112.45	4,111.8	-208.8	445.1	369.1	76.05	5.853	
15,485.0	11,454.0	15,621.7	11,625.0	39.5	36.5	112.45	4,196.8	-209.5	445.1	368.0	77.14	5.770	
15,500.0	11,454.0	15,636.7	11,625.0	39.6	36.6	112.45	4,211.8	-209.7	445.1	367.8	77.33	5.756	
15,580.0	11,454.0	15,716.7	11,625.0	40.1	37.2	112.45	4,291.8	-210.4	445.1	366.7	78.37	5.680	
15,600.0	11,454.0	15,736.7	11,625.0	40.2	37.3	112.45	4,311.8	-210.6	445.1	366.5	78.63	5.661	
15,675.0	11,454.0	15,811.7	11,625.0	40.7	37.8	112.45	4,386.8	-211.3	445.1	365.5	79.60	5.592	
15,700.0	11,454.0	15,836.7	11,625.0	40.9	38.0	112.45	4,411.8	-211.5	445.1	365.2	79.93	5.569	
15,770.0	11,454.0	15,906.7	11,625.0	41.3	38.5	112.45	4,481.8	-212.1	445.1	364.3	80.84	5.506	
15,800.0	11,454.0	15,936.7	11,625.0	41.5	38.7	112.45	4,511.8	-212.4	445.1	363.9	81.24	5.479	
15,865.0	11,454.0	16,001.7	11,625.0	41.9	39.1	112.45	4,576.8	-213.0	445.1	363.0	82.09	5.422	
15,900.0	11,454.0	16,036.7	11,625.0	42.1	39.4	112.45	4,611.8	-213.3	445.1	362.6	82.55	5.392	
15,960.0	11,454.0	16,096.7	11,625.0	42.5	39.8	112.45	4,671.8	-213.9	445.1	361.8	83.35	5.340	
16,000.0	11,454.0	16,136.7	11,625.0	42.8	40.0	112.45	4,711.8	-214.2	445.1	361.2	83.88	5.307	
16,055.0	11,454.0	16,191.7	11,625.0	43.1	40.4	112.45	4,766.8	-214.7	445.1	360.5	84.61	5.261	
16,100.0	11,454.0	16,236.7	11,625.0	43.4	40.7	112.45	4,811.8	-215.1	445.1	359.9	85.21	5.224	
16,150.0	11,454.0	16,286.7	11,625.0	43.8	41.1	112.45	4,861.8	-215.6	445.1	359.2	85.88	5.183	
16,200.0	11,454.0	16,336.7	11,625.0	44.1	41.4	112.45	4,911.8	-216.0	445.1	358.6	86.55	5.143	
16,245.0	11,454.0	16,381.7	11,625.0	44.4	41.7	112.45	4,956.8	-216.4	445.1	358.0	87.15	5.107	
16,300.0	11,454.0	16,436.7	11,625.0	44.7	42.1	112.45	5,011.8	-216.9	445.1	357.2	87.89	5.064	
16,340.0	11,454.0	16,476.7	11,625.0	45.0	42.4	112.45	5,051.8	-217.3	445.1	356.7	88.43	5.033	
16,353.3	11,454.0	16,490.0	11,625.0	45.1	42.5	112.45	5,065.0	-217.4	445.1	356.5	88.61	5.023	
16,400.0	11,454.0	16,536.7	11,625.0	45.4	42.8	112.45	5,111.8	-217.8	445.1	355.9	89.24	4.988	
16,435.0	11,454.0	16,571.7	11,625.0	45.6	43.1	112.45	5,146.8	-218.2	445.1	355.4	89.72	4.961	
16,500.0	11,454.0	16,636.7	11,625.0	46.1	43.5	112.45	5,211.8	-218.8	445.1	354.5	90.60	4.913	
16,530.0	11,454.0	16,666.7	11,625.0	46.3	43.7	112.45	5,241.8	-219.0	445.1	354.1	91.01	4.891	
16,600.0	11,454.0	16,736.7	11,625.0	46.7	44.2	112.45	5,311.8	-219.7	445.1	353.2	91.96	4.840	
16,625.0	11,454.0	16,761.7	11,625.0	46.9	44.4	112.45	5,336.8	-219.9	445.1	352.8	92.30	4.822	
16,700.0	11,454.0	16,836.7	11,625.0	47.4	44.9	112.45	5,411.8	-220.6	445.1	351.8	93.33	4.769	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		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	
16,720.0	11,454.0	16,856.7	11,625.0	47.5	45.1	112.45	5,431.8	-220.8	445.1	351.5	93.60	4.755	
16,800.0	11,454.0	16,936.7	11,625.0	48.1	45.6	112.45	5,511.8	-221.5	445.1	350.4	94.70	4.700	
16,815.0	11,454.0	16,951.7	11,625.0	48.2	45.8	112.45	5,526.8	-221.6	445.1	350.2	94.90	4.690	
16,900.0	11,454.0	17,036.7	11,625.0	48.8	46.4	112.45	5,611.8	-222.4	445.1	349.0	96.07	4.633	
16,910.0	11,454.0	17,046.7	11,625.0	48.8	46.4	112.45	5,621.8	-222.5	445.1	348.9	96.21	4.626	
17,000.0	11,454.0	17,136.7	11,625.0	49.4	47.1	112.45	5,711.7	-223.3	445.1	347.7	97.46	4.567	
17,005.0	11,454.0	17,141.7	11,625.0	49.5	47.1	112.45	5,716.7	-223.3	445.1	347.6	97.52	4.564	
17,100.0	11,454.0	17,236.7	11,625.0	50.1	47.8	112.45	5,811.7	-224.2	445.1	346.3	98.84	4.503	
17,195.0	11,454.0	17,331.7	11,625.0	50.8	48.5	112.45	5,906.7	-225.1	445.1	344.9	100.16	4.444	
17,200.0	11,454.0	17,336.7	11,625.0	50.8	48.5	112.45	5,911.7	-225.1	445.1	344.9	100.23	4.441	
17,290.0	11,454.0	17,426.7	11,625.0	51.4	49.1	112.45	6,001.7	-225.9	445.1	343.6	101.48	4.386	
17,300.0	11,454.0	17,436.7	11,625.0	51.5	49.2	112.45	6,011.7	-226.0	445.1	343.5	101.62	4.380	
17,385.0	11,454.0	17,521.7	11,625.0	52.1	49.8	112.45	6,096.7	-226.8	445.1	342.3	102.81	4.329	
17,400.0	11,454.0	17,536.7	11,625.0	52.2	49.9	112.45	6,111.7	-226.9	445.1	342.1	103.02	4.321	
17,480.0	11,454.0	17,616.7	11,625.0	52.7	50.5	112.45	6,191.7	-227.6	445.1	341.0	104.14	4.274	
17,500.0	11,454.0	17,636.7	11,625.0	52.8	50.6	112.45	6,211.7	-227.8	445.1	340.7	104.42	4.263	
17,575.0	11,454.0	17,711.7	11,625.0	53.4	51.2	112.45	6,286.7	-228.5	445.1	339.6	105.48	4.220	
17,600.0	11,454.0	17,736.7	11,625.0	53.5	51.4	112.45	6,311.7	-228.7	445.1	339.3	105.83	4.206	
17,670.0	11,454.0	17,806.7	11,625.0	54.0	51.9	112.45	6,381.7	-229.4	445.1	338.3	106.81	4.167	
17,700.0	11,454.0	17,836.7	11,625.0	54.2	52.1	112.45	6,411.7	-229.6	445.1	337.9	107.24	4.151	
17,765.0	11,454.0	17,901.7	11,625.0	54.7	52.6	112.45	6,476.7	-230.2	445.1	337.0	108.16	4.115	
17,800.0	11,454.0	17,936.7	11,625.0	54.9	52.8	112.45	6,511.7	-230.6	445.1	336.5	108.65	4.097	
17,860.0	11,454.0	17,996.7	11,625.0	55.3	53.2	112.45	6,571.7	-231.1	445.1	335.6	109.50	4.065	
17,900.0	11,454.0	18,036.7	11,625.0	55.6	53.5	112.45	6,611.7	-231.5	445.1	335.0	110.06	4.044	
17,955.0	11,454.0	18,091.7	11,625.0	56.0	53.9	112.45	6,666.7	-232.0	445.1	334.3	110.84	4.016	
18,000.0	11,454.0	18,136.7	11,625.0	56.3	54.3	112.45	6,711.7	-232.4	445.1	333.6	111.48	3.993	
18,050.0	11,454.0	18,186.7	11,625.0	56.7	54.6	112.45	6,761.7	-232.8	445.1	332.9	112.19	3.967	
18,100.0	11,454.0	18,236.7	11,625.0	57.0	55.0	112.45	6,811.7	-233.3	445.1	332.2	112.90	3.942	
18,145.0	11,454.0	18,281.7	11,625.0	57.3	55.3	112.45	6,856.7	-233.7	445.1	331.6	113.54	3.920	
18,200.0	11,454.0	18,336.7	11,625.0	57.7	55.7	112.45	6,911.7	-234.2	445.1	330.8	114.33	3.893	
18,240.0	11,454.0	18,376.7	11,625.0	58.0	56.0	112.45	6,951.7	-234.5	445.1	330.2	114.90	3.874	
18,300.0	11,454.0	18,436.7	11,625.0	58.4	56.4	112.45	7,011.7	-235.1	445.1	329.4	115.76	3.845	
18,335.0	11,454.0	18,471.7	11,625.0	58.7	56.7	112.45	7,046.7	-235.4	445.1	328.9	116.26	3.829	
18,392.8	11,454.0	18,529.5	11,625.0	59.1	57.1	112.45	7,104.5	-235.9	445.1	328.0	117.08	3.802	
18,400.0	11,454.0	18,536.7	11,625.0	59.1	57.2	112.45	7,111.7	-236.0	445.1	327.9	117.18	3.798	
18,430.0	11,454.0	18,566.7	11,625.0	59.3	57.4	112.45	7,141.7	-236.3	445.1	327.5	117.61	3.784	
18,500.0	11,454.0	18,636.7	11,625.0	59.8	57.9	112.45	7,211.7	-236.9	445.1	326.5	118.62	3.753	
18,525.0	11,454.0	18,661.7	11,625.0	60.0	58.1	112.45	7,236.7	-237.1	445.1	326.1	118.98	3.741	
18,600.0	11,454.0	18,736.7	11,625.0	60.5	58.6	112.45	7,311.7	-237.8	445.1	325.1	120.05	3.708	
18,620.0	11,454.0	18,756.7	11,625.0	60.7	58.8	112.45	7,331.7	-238.0	445.1	324.8	120.34	3.699	
18,700.0	11,454.0	18,836.7	11,625.0	61.3	59.4	112.45	7,411.7	-238.7	445.1	323.6	121.49	3.664	
18,715.0	11,454.0	18,851.7	11,625.0	61.4	59.5	112.45	7,426.7	-238.9	445.1	323.4	121.70	3.657	
18,800.0	11,454.0	18,936.7	11,625.0	62.0	60.1	112.45	7,511.7	-239.6	445.1	322.2	122.93	3.621	
18,810.0	11,454.0	18,946.7	11,625.0	62.0	60.2	112.45	7,521.7	-239.7	445.1	322.0	123.07	3.617	
18,900.0	11,454.0	19,036.7	11,625.0	62.7	60.8	112.45	7,611.7	-240.5	445.1	320.7	124.37	3.579	
18,905.0	11,454.0	19,041.7	11,625.0	62.7	60.9	112.45	7,616.7	-240.6	445.1	320.7	124.44	3.577	
19,000.0	11,454.0	19,136.7	11,625.0	63.4	61.6	112.45	7,711.7	-241.4	445.1	319.3	125.81	3.538	
19,095.0	11,454.0	19,231.7	11,625.0	64.1	62.3	112.45	7,806.7	-242.3	445.1	317.9	127.19	3.500	
19,100.0	11,454.0	19,236.7	11,625.0	64.1	62.3	112.45	7,811.7	-242.4	445.1	317.9	127.26	3.498	
19,177.3	11,454.0	19,314.0	11,625.0	64.7	62.9	112.45	7,889.0	-243.1	445.1	316.7	128.38	3.467	
19,190.0	11,454.0	19,326.7	11,625.0	64.7	63.0	112.45	7,901.7	-243.2	445.1	316.5	128.56	3.462	
19,200.0	11,454.0	19,336.7	11,625.0	64.8	63.0	112.45	7,911.7	-243.3	445.1	316.4	128.71	3.458	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	
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		
19,285.0	11,454.0	19,421.7	11,625.0	65.4	63.7	112.45	7,996.7	-244.0	445.1	315.2	129.94	3.426		
19,300.0	11,454.0	19,436.7	11,625.0	65.5	63.8	112.45	8,011.7	-244.2	445.1	315.0	130.16	3.420		
19,380.0	11,454.0	19,516.7	11,625.0	66.1	64.4	112.45	8,091.6	-244.9	445.1	313.8	131.32	3.390		
19,400.0	11,454.0	19,536.7	11,625.0	66.2	64.5	112.45	8,111.6	-245.1	445.1	313.5	131.61	3.382		
19,475.0	11,454.0	19,611.7	11,625.0	66.8	65.1	112.45	8,186.6	-245.8	445.1	312.4	132.70	3.354		
19,500.0	11,454.0	19,636.7	11,625.0	67.0	65.2	112.45	8,211.6	-246.0	445.1	312.0	133.06	3.345		
19,570.0	11,454.0	19,706.7	11,625.0	67.5	65.8	112.45	8,281.6	-246.6	445.1	311.0	134.08	3.320		
19,600.0	11,454.0	19,736.7	11,625.0	67.7	66.0	112.45	8,311.6	-246.9	445.1	310.6	134.51	3.309		
19,665.0	11,454.0	19,801.7	11,625.0	68.1	66.5	112.45	8,376.6	-247.5	445.1	309.6	135.46	3.286		
19,700.0	11,454.0	19,836.7	11,625.0	68.4	66.7	112.45	8,411.6	-247.8	445.1	309.1	135.97	3.274		
19,760.0	11,454.0	19,896.7	11,625.0	68.8	67.2	112.45	8,471.6	-248.3	445.1	308.3	136.85	3.253		
19,800.0	11,454.0	19,936.7	11,625.0	69.1	67.4	112.45	8,511.6	-248.7	445.1	307.7	137.43	3.239		
19,855.0	11,454.0	19,991.7	11,625.0	69.5	67.9	112.45	8,566.6	-249.2	445.1	306.9	138.23	3.220		
19,900.0	11,454.0	20,036.7	11,625.0	69.8	68.2	112.45	8,611.6	-249.6	445.1	306.2	138.89	3.205		
19,950.0	11,454.0	20,086.7	11,625.0	70.2	68.6	112.45	8,661.6	-250.1	445.1	305.5	139.62	3.188		
20,000.0	11,454.0	20,136.7	11,625.0	70.6	68.9	112.45	8,711.6	-250.5	445.1	304.8	140.35	3.171		
20,045.0	11,454.0	20,181.7	11,625.0	70.9	69.3	112.45	8,756.6	-250.9	445.1	304.1	141.01	3.157		
20,100.0	11,454.0	20,236.7	11,625.0	71.3	69.7	112.45	8,811.6	-251.4	445.1	303.3	141.81	3.139		
20,140.0	11,454.0	20,276.7	11,625.0	71.6	70.0	112.45	8,851.6	-251.8	445.1	302.7	142.40	3.126		
20,200.0	11,454.0	20,336.7	11,625.0	72.0	70.4	112.45	8,911.6	-252.3	445.1	301.8	143.28	3.107		
20,235.0	11,454.0	20,371.7	11,625.0	72.3	70.7	112.45	8,946.6	-252.7	445.1	301.3	143.79	3.096		
20,300.0	11,454.0	20,436.7	11,625.0	72.7	71.2	112.45	9,011.6	-253.2	445.1	300.4	144.74	3.075		
20,330.0	11,454.0	20,466.7	11,625.0	73.0	71.4	112.45	9,041.6	-253.5	445.1	299.9	145.18	3.066		
20,400.0	11,454.0	20,536.7	11,625.0	73.5	71.9	112.45	9,111.6	-254.1	445.1	298.9	146.21	3.044		
20,425.0	11,454.0	20,561.7	11,625.0	73.6	72.1	112.45	9,136.6	-254.4	445.1	298.5	146.58	3.037		
20,500.0	11,454.0	20,636.7	11,625.0	74.2	72.6	112.45	9,211.6	-255.1	445.1	297.4	147.68	3.014		
20,520.0	11,454.0	20,656.7	11,625.0	74.3	72.8	112.45	9,231.6	-255.2	445.1	297.1	147.97	3.008		
20,542.1	11,454.0	20,678.9	11,625.0	74.5	72.9	112.45	9,253.7	-255.4	445.1	296.8	148.30	3.001		
20,600.0	11,454.0	20,736.7	11,625.0	74.9	73.4	112.45	9,311.6	-256.0	445.1	296.0	149.15	2.984		
20,615.0	11,454.0	20,751.7	11,625.0	75.0	73.5	112.45	9,326.6	-256.1	445.1	295.7	149.37	2.980		
20,700.0	11,454.0	20,836.7	11,625.0	75.6	74.1	112.45	9,411.6	-256.9	445.1	294.5	150.62	2.955		
20,710.0	11,454.0	20,846.7	11,625.0	75.7	74.2	112.45	9,421.6	-257.0	445.1	294.3	150.77	2.952		
20,800.0	11,454.0	20,936.7	11,625.0	76.4	74.9	112.45	9,511.6	-257.8	445.1	293.0	152.09	2.927		
20,805.0	11,454.0	20,941.7	11,625.0	76.4	74.9	112.45	9,516.6	-257.8	445.1	292.9	152.17	2.925		
20,900.0	11,454.0	21,036.7	11,625.0	77.1	75.6	112.45	9,611.6	-258.7	445.1	291.5	153.57	2.898		
20,995.0	11,454.0	21,131.7	11,625.0	77.8	76.3	112.45	9,706.6	-259.5	445.1	290.1	154.97	2.872		
21,000.0	11,454.0	21,136.7	11,625.0	77.8	76.4	112.45	9,711.6	-259.6	445.1	290.1	155.04	2.871		
21,090.0	11,454.0	21,226.7	11,625.0	78.5	77.0	112.45	9,801.6	-260.4	445.1	288.7	156.37	2.847		
21,100.0	11,454.0	21,236.7	11,625.0	78.6	77.1	112.45	9,811.6	-260.5	445.1	288.6	156.52	2.844		
21,185.0	11,454.0	21,321.7	11,625.0	79.2	77.7	112.45	9,896.6	-261.3	445.1	287.3	157.77	2.821		
21,200.0	11,454.0	21,336.7	11,625.0	79.3	77.8	112.45	9,911.6	-261.4	445.1	287.1	157.99	2.817		
21,280.0	11,454.0	21,416.7	11,625.0	79.9	78.4	112.45	9,991.6	-262.1	445.1	285.9	159.18	2.796		
21,300.0	11,454.0	21,436.7	11,625.0	80.0	78.6	112.45	10,011.6	-262.3	445.1	285.6	159.47	2.791		
21,375.0	11,454.0	21,511.7	11,625.0	80.6	79.1	112.45	10,086.6	-263.0	445.1	284.5	160.58	2.772		
21,400.0	11,454.0	21,536.7	11,625.0	80.8	79.3	112.45	10,111.6	-263.2	445.1	284.2	160.95	2.766		
21,470.0	11,454.0	21,606.7	11,625.0	81.3	79.9	112.45	10,181.6	-263.9	445.1	283.1	161.99	2.748		
21,500.0	11,454.0	21,636.7	11,625.0	81.5	80.1	112.45	10,211.6	-264.1	445.1	282.7	162.43	2.740		
21,565.0	11,454.0	21,701.7	11,625.0	82.0	80.6	112.45	10,276.6	-264.7	445.1	281.7	163.39	2.724		
21,600.0	11,454.0	21,736.7	11,625.0	82.2	80.8	112.45	10,311.6	-265.0	445.1	281.2	163.91	2.716		
21,660.0	11,454.0	21,796.7	11,625.0	82.7	81.3	112.45	10,371.6	-265.6	445.1	280.3	164.80	2.701		
21,700.0	11,454.0	21,836.7	11,625.0	83.0	81.6	112.45	10,411.6	-265.9	445.1	279.7	165.39	2.691		
21,755.0	11,454.0	21,891.7	11,625.0	83.4	82.0	112.45	10,466.6	-266.4	445.1	278.9	166.21	2.678		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
21,760.3	11,454.0	21,897.0	11,625.0	83.4	82.0	112.45	10,471.8	-266.5	445.1	278.8	166.28	2.677		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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	0.0	3.0	3.0	89.48	0.5	60.0	60.0				
95.0	95.0	95.0	95.0	3.0	3.0	89.48	0.5	60.0	60.0	54.0	6.03	9.961		
100.0	100.0	100.0	100.0	3.0	3.0	89.48	0.5	60.0	60.0	54.0	6.03	9.956		
190.0	190.0	190.0	190.0	3.1	3.1	89.48	0.5	60.0	60.0	53.9	6.15	9.756		
200.0	200.0	200.0	200.0	3.1	3.1	89.48	0.5	60.0	60.0	53.9	6.17	9.725		
285.0	285.0	285.0	285.0	3.2	3.2	89.48	0.5	60.0	60.0	53.7	6.31	9.511		
300.0	300.0	300.0	300.0	3.2	3.2	89.48	0.5	60.0	60.0	53.7	6.34	9.469		
380.0	380.0	380.0	380.0	3.3	3.3	89.48	0.5	60.0	60.0	53.5	6.49	9.251		
400.0	400.0	400.0	400.0	3.3	3.3	89.48	0.5	60.0	60.0	53.5	6.53	9.193		
475.0	475.0	475.0	475.0	3.4	3.4	89.48	0.5	60.0	60.0	53.3	6.68	8.980		
500.0	500.0	500.0	500.0	3.4	3.4	89.48	0.5	60.0	60.0	53.3	6.74	8.906		
570.0	570.0	570.0	570.0	3.5	3.5	89.48	0.5	60.0	60.0	53.1	6.90	8.702		
600.0	600.0	600.0	600.0	3.5	3.5	89.48	0.5	60.0	60.0	53.1	6.97	8.613		
665.0	665.0	665.0	665.0	3.6	3.6	89.48	0.5	60.0	60.0	52.9	7.13	8.422		
700.0	700.0	700.0	700.0	3.7	3.7	89.48	0.5	60.0	60.0	52.8	7.22	8.318		
760.0	760.0	760.0	760.0	3.8	3.8	89.48	0.5	60.0	60.0	52.7	7.37	8.144		
800.0	800.0	800.0	800.0	3.8	3.8	89.48	0.5	60.0	60.0	52.5	7.48	8.027		
855.0	855.0	855.0	855.0	3.9	3.9	89.48	0.5	60.0	60.0	52.4	7.63	7.870		
900.0	900.0	900.0	900.0	4.0	4.0	89.48	0.5	60.0	60.0	52.3	7.75	7.742		
950.0	950.0	950.0	950.0	4.1	4.1	89.48	0.5	60.0	60.0	52.1	7.90	7.602		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.48	0.5	60.0	60.0	52.0	8.04	7.464		
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.48	0.5	60.0	60.0	51.8	8.17	7.343		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.48	0.5	60.0	60.0	51.7	8.34	7.197		
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.48	0.5	60.0	60.0	51.6	8.46	7.093		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.48	0.5	60.0	60.0	51.4	8.65	6.939		
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.48	0.5	60.0	60.0	51.3	8.76	6.852		
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.48	0.5	60.0	60.0	51.1	8.97	6.693		
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.48	0.5	60.0	60.0	51.0	9.06	6.622		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.48	0.5	60.0	60.0	50.7	9.29	6.458		
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.48	0.5	60.0	60.0	50.6	9.38	6.402		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.48	0.5	60.0	60.0	50.4	9.63	6.235		
1,520.0	1,520.0	1,520.0	1,520.0	5.1	5.1	89.48	0.5	60.0	60.0	50.3	9.69	6.192		
1,600.0	1,600.0	1,600.0	1,600.0	5.3	5.3	89.48	0.5	60.0	60.0	50.1	9.97	6.022		
1,615.0	1,615.0	1,615.0	1,615.0	5.3	5.3	89.48	0.5	60.0	60.0	50.0	10.02	5.992		
1,700.0	1,700.0	1,700.0	1,700.0	5.5	5.5	89.48	0.5	60.0	60.0	49.7	10.31	5.821		
1,710.0	1,710.0	1,710.0	1,710.0	5.5	5.5	89.48	0.5	60.0	60.0	49.7	10.35	5.801		
1,800.0	1,800.0	1,800.0	1,800.0	5.7	5.7	89.48	0.5	60.0	60.0	49.4	10.66	5.629		
1,805.0	1,805.0	1,805.0	1,805.0	5.7	5.7	89.48	0.5	60.0	60.0	49.3	10.68	5.620		
1,900.0	1,900.0	1,900.0	1,900.0	5.9	5.9	89.48	0.5	60.0	60.0	49.0	11.02	5.448		
1,995.0	1,995.0	1,995.0	1,995.0	6.1	6.1	89.48	0.5	60.0	60.0	48.7	11.36	5.284		
2,000.0	2,000.0	2,000.0	2,000.0	6.1	6.1	89.48	0.5	60.0	60.0	48.6	11.38	5.275 CC, ES		
2,090.0	2,090.0	2,088.1	2,088.1	6.3	6.2	89.45	0.6	61.4	61.4	49.7	11.73	5.235		
2,100.0	2,100.0	2,097.9	2,097.9	6.3	6.2	89.44	0.6	61.7	61.7	50.0	11.77	5.246		
2,185.0	2,185.0	2,181.0	2,180.8	6.5	6.3	89.35	0.7	65.7	65.9	53.8	12.10	5.445		
2,200.0	2,200.0	2,195.6	2,195.4	6.5	6.3	89.33	0.8	66.7	66.9	54.7	12.15	5.501		
2,280.0	2,280.0	2,274.0	2,273.6	6.7	6.4	89.22	1.0	73.0	73.3	60.9	12.37	5.926		
2,300.0	2,300.0	2,293.9	2,293.5	6.7	6.4	89.19	1.1	74.7	75.0	62.6	12.42	6.039		
2,375.0	2,375.0	2,368.7	2,367.9	6.9	6.5	89.09	1.3	81.3	81.6	68.9	12.69	6.426		
2,400.0	2,400.0	2,393.6	2,392.7	6.9	6.5	89.07	1.4	83.4	83.7	71.0	12.79	6.550		
2,470.0	2,470.0	2,463.3	2,462.2	7.1	6.6	88.99	1.6	89.5	89.8	76.8	13.06	6.882		
2,500.0	2,500.0	2,493.2	2,491.9	7.2	6.6	88.96	1.7	92.1	92.5	79.3	13.17	7.020		
2,565.0	2,565.0	2,557.9	2,556.4	7.2	6.7	178.87	1.9	97.7	98.9	85.4	13.44	7.354		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,600.0	2,600.0	2,592.6	2,591.0	7.3	6.8	178.86	2.0	100.8	102.9	89.3	13.59	7.572	
2,660.0	2,659.9	2,652.1	2,650.3	7.4	6.9	178.84	2.2	105.9	110.8	97.0	13.84	8.007	
2,700.0	2,699.8	2,691.7	2,689.7	7.4	7.0	178.83	2.3	109.4	116.8	102.8	14.01	8.337	
2,755.0	2,754.7	2,745.9	2,743.7	7.4	7.2	178.84	2.4	114.1	126.0	111.7	14.26	8.833	
2,800.0	2,799.5	2,790.1	2,787.8	7.5	7.3	178.84	2.6	118.0	134.2	119.7	14.46	9.279	
2,850.0	2,849.1	2,839.1	2,836.6	7.5	7.4	178.86	2.7	122.2	144.2	129.5	14.70	9.808	
2,900.0	2,898.7	2,887.9	2,885.2	7.6	7.5	178.88	2.9	126.5	155.0	140.0	14.94	10.375	
2,945.0	2,943.2	2,931.7	2,928.8	7.6	7.6	178.89	3.0	130.3	165.4	150.3	15.11	10.946	
2,950.0	2,948.2	2,936.6	2,933.6	7.6	7.6	178.90	3.0	130.7	166.6	151.5	15.13	11.012	
3,000.0	2,997.5	2,985.1	2,982.0	7.6	7.8	178.92	3.2	134.9	178.7	163.4	15.33	11.659	
3,040.0	3,037.0	3,023.9	3,020.6	7.7	7.9	178.94	3.3	138.3	188.4	172.9	15.52	12.142	
3,100.0	3,096.3	3,082.1	3,078.6	7.8	8.0	178.96	3.5	143.4	202.9	187.1	15.80	12.845	
3,135.0	3,130.9	3,116.1	3,112.5	7.9	8.1	178.97	3.6	146.4	211.4	195.4	15.97	13.236	
3,200.0	3,195.1	3,179.1	3,175.3	8.0	8.3	178.99	3.8	151.8	227.1	210.8	16.29	13.939	
3,230.0	3,224.7	3,208.2	3,204.3	8.1	8.4	179.00	3.9	154.4	234.4	217.9	16.45	14.249	
3,300.0	3,293.8	3,276.2	3,271.9	8.3	8.6	179.02	4.1	160.3	251.3	234.5	16.81	14.946	
3,325.0	3,318.5	3,300.4	3,296.1	8.3	8.7	179.03	4.1	162.4	257.4	240.4	16.95	15.184	
3,400.0	3,392.6	3,373.2	3,368.6	8.5	8.9	179.04	4.4	168.7	275.5	258.1	17.36	15.871	
3,420.0	3,412.4	3,392.6	3,387.9	8.6	8.9	179.04	4.4	170.4	280.3	262.9	17.47	16.046	
3,500.0	3,491.4	3,470.2	3,465.3	8.8	9.2	179.06	4.7	177.2	299.7	281.8	17.92	16.720	
3,515.0	3,506.2	3,484.8	3,479.8	8.8	9.2	179.06	4.7	178.5	303.3	285.3	18.01	16.841	
3,600.0	3,590.1	3,567.3	3,561.9	9.1	9.5	179.07	4.9	185.7	323.9	305.4	18.51	17.500	
3,610.0	3,600.0	3,577.0	3,571.6	9.1	9.5	179.08	5.0	186.5	326.3	307.7	18.57	17.574	
3,700.0	3,688.9	3,664.3	3,658.6	9.4	9.8	179.09	5.2	194.1	348.1	329.0	19.10	18.227	
3,705.0	3,693.9	3,669.1	3,663.4	9.4	9.8	179.09	5.3	194.5	349.3	330.1	19.13	18.262	
3,800.0	3,787.7	3,764.0	3,758.0	9.7	10.1	179.10	5.5	202.5	372.0	352.2	19.71	18.868	
3,895.0	3,881.5	3,859.7	3,853.3	10.0	10.4	179.11	5.8	209.7	393.9	373.6	20.33	19.377	
3,900.0	3,886.5	3,864.7	3,858.4	10.0	10.4	179.11	5.8	210.1	395.0	374.7	20.36	19.402	
3,990.0	3,975.3	3,955.7	3,949.1	10.3	10.7	179.13	6.0	216.2	415.0	394.1	20.95	19.813	
4,000.0	3,985.2	3,965.8	3,959.2	10.3	10.7	179.13	6.0	216.8	417.2	396.2	21.01	19.855	
4,085.0	4,069.2	4,052.0	4,045.3	10.6	11.0	179.14	6.2	221.9	435.4	413.8	21.57	20.184	
4,100.0	4,084.0	4,067.3	4,060.5	10.7	11.0	179.14	6.2	222.7	438.5	416.9	21.67	20.238	
4,180.0	4,163.0	4,148.7	4,141.9	11.0	11.3	179.16	6.4	226.8	455.0	432.8	22.20	20.498	
4,200.0	4,182.8	4,169.1	4,162.3	11.0	11.3	179.16	6.4	227.7	459.0	436.7	22.33	20.557	
4,275.0	4,256.8	4,245.8	4,238.9	11.3	11.6	179.17	6.5	230.9	473.8	451.0	22.82	20.760	
4,300.0	4,281.5	4,271.4	4,264.4	11.4	11.6	179.18	6.6	231.8	478.6	455.6	22.99	20.822	
4,370.0	4,350.7	4,343.2	4,336.2	11.6	11.8	179.19	6.7	234.1	491.8	468.4	23.44	20.978	
4,400.0	4,380.3	4,374.0	4,367.0	11.7	11.9	179.20	6.7	235.0	497.3	473.7	23.64	21.039	
4,465.0	4,444.5	4,440.9	4,433.8	12.0	12.1	179.21	6.7	236.6	509.0	485.0	24.06	21.159	
4,500.0	4,479.1	4,476.9	4,469.9	12.1	12.2	179.22	6.8	237.3	515.2	490.9	24.28	21.218	
4,560.0	4,538.3	4,538.9	4,531.8	12.3	12.3	179.23	6.8	238.2	525.4	500.8	24.66	21.311	
4,600.0	4,577.8	4,580.2	4,573.2	12.5	12.4	179.24	6.8	238.7	532.1	507.2	24.90	21.368	
4,655.0	4,632.2	4,637.1	4,630.1	12.7	12.5	179.25	6.8	239.0	541.1	515.9	25.20	21.468	
4,700.0	4,676.6	4,683.6	4,676.6	12.8	12.6	179.26	6.8	239.1	548.2	522.8	25.43	21.559	
4,750.0	4,726.0	4,733.0	4,726.0	13.0	12.6	179.27	6.8	239.1	556.0	530.4	25.64	21.687	
4,800.0	4,775.4	4,782.4	4,775.4	13.2	12.6	179.28	6.8	239.1	563.8	538.0	25.86	21.806	
4,845.0	4,819.8	4,826.9	4,819.8	13.4	12.7	179.29	6.8	239.1	570.9	544.8	26.06	21.909	
4,900.0	4,874.1	4,881.2	4,874.1	13.6	12.7	179.30	6.8	239.1	579.5	553.2	26.30	22.034	
4,940.0	4,913.7	4,920.7	4,913.7	13.8	12.7	179.31	6.8	239.1	585.7	559.3	26.48	22.122	
5,000.0	4,972.9	4,979.9	4,972.9	14.0	12.8	179.32	6.8	239.1	595.1	568.4	26.74	22.251	
5,035.0	5,007.5	5,014.5	5,007.5	14.1	12.8	179.32	6.8	239.1	600.6	573.7	26.90	22.325	
5,100.0	5,071.7	5,078.7	5,071.7	14.4	12.8	179.34	6.8	239.1	610.8	583.6	27.19	22.459	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,130.0	5,101.3	5,108.3	5,101.3	14.5	12.8	179.34	6.8	239.1	615.4	588.1	27.33	22.519	
5,200.0	5,170.5	5,177.5	5,170.5	14.8	12.9	179.35	6.8	239.1	626.4	598.8	27.65	22.657	
5,225.0	5,195.1	5,202.2	5,195.1	14.9	12.9	179.36	6.8	239.1	630.3	602.5	27.76	22.705	
5,300.0	5,269.2	5,276.2	5,269.2	15.2	12.9	179.37	6.8	239.1	642.0	613.9	28.10	22.846	
5,320.0	5,289.0	5,296.0	5,289.0	15.3	12.9	179.37	6.8	239.1	645.2	617.0	28.19	22.882	
5,400.0	5,368.0	5,375.0	5,368.0	15.6	13.0	179.38	6.8	239.1	657.7	629.1	28.56	23.026	
5,415.0	5,382.8	5,389.8	5,382.8	15.6	13.0	179.39	6.8	239.1	660.0	631.4	28.63	23.053	
5,500.0	5,466.8	5,473.8	5,466.8	16.0	13.0	179.40	6.8	239.1	673.3	644.3	29.02	23.199	
5,510.0	5,476.6	5,483.7	5,476.6	16.0	13.1	179.40	6.8	239.1	674.9	645.8	29.07	23.216	
5,600.0	5,565.5	5,572.6	5,565.5	16.4	13.1	179.41	6.8	239.1	689.0	659.5	29.49	23.364	
5,605.0	5,570.5	5,577.5	5,570.5	16.4	13.1	179.41	6.8	239.1	689.8	660.2	29.51	23.373	
5,700.0	5,664.3	5,671.3	5,664.3	16.8	13.2	179.42	6.8	239.1	704.6	674.7	29.95	23.523	
5,795.0	5,758.1	5,765.2	5,758.1	17.2	13.2	179.44	6.8	239.1	719.5	689.1	30.40	23.667	
5,800.0	5,763.1	5,770.1	5,763.1	17.2	13.2	179.44	6.8	239.1	720.3	689.8	30.42	23.675	
5,890.0	5,852.0	5,859.0	5,852.0	17.6	13.3	179.45	6.8	239.1	734.3	703.5	30.85	23.806	
5,900.0	5,861.8	5,868.9	5,861.8	17.6	13.3	179.45	6.8	239.1	735.9	705.0	30.89	23.820	
5,985.0	5,945.8	5,952.8	5,945.8	18.0	13.3	179.46	6.8	239.1	749.2	717.9	31.30	23.940	
5,999.4	5,960.0	5,967.0	5,960.0	18.0	13.3	179.46	6.8	239.1	751.4	720.1	31.36	23.959	
6,080.0	6,039.7	6,046.7	6,039.7	18.3	13.4	179.47	6.8	239.1	763.5	731.8	31.74	24.053	
6,100.0	6,059.5	6,066.5	6,059.5	18.4	13.4	179.47	6.8	239.1	766.3	734.5	31.84	24.071	
6,175.0	6,133.8	6,140.9	6,133.8	18.7	13.5	179.48	6.8	239.1	776.3	744.1	32.18	24.122	
6,200.0	6,158.6	6,165.7	6,158.6	18.8	13.5	179.48	6.8	239.1	779.3	747.1	32.30	24.132	
6,270.0	6,228.2	6,235.2	6,228.2	19.1	13.5	179.49	6.8	239.1	787.4	754.8	32.61	24.147	
6,300.0	6,258.0	6,265.0	6,258.0	19.2	13.5	179.49	6.8	239.1	790.7	757.9	32.75	24.145	
6,365.0	6,322.7	6,329.7	6,322.7	19.5	13.6	179.50	6.8	239.1	797.1	764.0	33.03	24.132	
6,400.0	6,357.5	6,364.6	6,357.5	19.6	13.6	179.50	6.8	239.1	800.2	767.0	33.18	24.115	
6,460.0	6,417.3	6,424.4	6,417.3	19.8	13.6	179.50	6.8	239.1	805.1	771.7	33.44	24.079	
6,500.0	6,457.2	6,464.3	6,457.2	20.0	13.7	179.50	6.8	239.1	808.1	774.5	33.61	24.045	
6,555.0	6,512.1	6,519.1	6,512.1	20.1	13.7	179.51	6.8	239.1	811.6	777.8	33.83	23.993	
6,600.0	6,557.0	6,564.1	6,557.0	20.3	13.7	179.51	6.8	239.1	814.2	780.2	34.01	23.939	
6,650.0	6,607.0	6,614.0	6,607.0	20.5	13.8	179.51	6.8	239.1	816.6	782.4	34.20	23.875	
6,700.0	6,657.0	6,664.0	6,657.0	20.6	13.8	179.51	6.8	239.1	818.5	784.1	34.39	23.800	
6,745.0	6,701.9	6,709.0	6,701.9	20.7	13.8	179.51	6.8	239.1	819.9	785.4	34.55	23.733	
6,800.0	6,756.9	6,763.9	6,756.9	20.9	13.8	179.51	6.8	239.1	821.1	786.4	34.74	23.638	
6,840.0	6,796.9	6,803.9	6,796.9	21.0	13.9	179.51	6.8	239.1	821.7	786.9	34.82	23.596	
6,899.4	6,856.3	6,863.3	6,856.3	21.0	13.9	89.55	6.8	239.1	822.0	787.0	34.95	23.520	
6,935.0	6,891.9	6,898.9	6,891.9	21.1	13.9	89.55	6.8	239.1	822.0	787.0	34.98	23.496	
7,000.0	6,956.9	6,963.9	6,956.9	21.1	14.0	89.55	6.8	239.1	822.0	786.9	35.05	23.453	
7,030.0	6,986.9	6,993.9	6,986.9	21.1	14.0	89.55	6.8	239.1	822.0	786.9	35.08	23.433	
7,100.0	7,056.9	7,063.9	7,056.9	21.1	14.0	89.55	6.8	239.1	822.0	786.8	35.15	23.387	
7,125.0	7,081.9	7,088.9	7,081.9	21.1	14.1	89.55	6.8	239.1	822.0	786.8	35.17	23.371	
7,200.0	7,156.9	7,163.9	7,156.9	21.2	14.1	89.55	6.8	239.1	822.0	786.7	35.25	23.321	
7,220.0	7,176.9	7,183.9	7,176.9	21.2	14.1	89.55	6.8	239.1	822.0	786.7	35.27	23.308	
7,300.0	7,256.9	7,263.9	7,256.9	21.2	14.2	89.55	6.8	239.1	822.0	786.6	35.35	23.255	
7,315.0	7,271.9	7,278.9	7,271.9	21.2	14.2	89.55	6.8	239.1	822.0	786.6	35.36	23.245	
7,400.0	7,356.9	7,363.9	7,356.9	21.2	14.2	89.55	6.8	239.1	822.0	786.5	35.45	23.190	
7,410.0	7,366.9	7,373.9	7,366.9	21.2	14.2	89.55	6.8	239.1	822.0	786.5	35.46	23.183	
7,500.0	7,456.9	7,463.9	7,456.9	21.3	14.3	89.55	6.8	239.1	822.0	786.4	35.55	23.124	
7,505.0	7,461.9	7,468.9	7,461.9	21.3	14.3	89.55	6.8	239.1	822.0	786.4	35.55	23.121	
7,600.0	7,556.9	7,563.9	7,556.9	21.3	14.4	89.55	6.8	239.1	822.0	786.3	35.65	23.058	
7,695.0	7,651.9	7,658.9	7,651.9	21.3	14.4	89.55	6.8	239.1	822.0	786.2	35.74	22.996	
7,700.0	7,656.9	7,663.9	7,656.9	21.3	14.4	89.55	6.8	239.1	822.0	786.2	35.75	22.993	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,790.0	7,746.9	7,753.9	7,746.9	21.4	14.5	89.55	6.8	239.1	822.0	786.1	35.84	22.934	
7,800.0	7,756.9	7,763.9	7,756.9	21.4	14.5	89.55	6.8	239.1	822.0	786.1	35.85	22.927	
7,885.0	7,841.9	7,848.9	7,841.9	21.4	14.5	89.55	6.8	239.1	822.0	786.0	35.94	22.872	
7,900.0	7,856.9	7,863.9	7,856.9	21.4	14.6	89.55	6.8	239.1	822.0	786.0	35.95	22.862	
7,980.0	7,936.9	7,943.9	7,936.9	21.4	14.6	89.55	6.8	239.1	822.0	785.9	36.04	22.810	
8,000.0	7,956.9	7,963.9	7,956.9	21.4	14.6	89.55	6.8	239.1	822.0	785.9	36.06	22.797	
8,075.0	8,031.9	8,038.9	8,031.9	21.5	14.7	89.55	6.8	239.1	822.0	785.8	36.13	22.748	
8,100.0	8,056.9	8,063.9	8,056.9	21.5	14.7	89.55	6.8	239.1	822.0	785.8	36.16	22.732	
8,170.0	8,126.9	8,133.9	8,126.9	21.5	14.7	89.55	6.8	239.1	822.0	785.7	36.23	22.686	
8,200.0	8,156.9	8,163.9	8,156.9	21.5	14.8	89.55	6.8	239.1	822.0	785.7	36.26	22.667	
8,265.0	8,221.9	8,228.9	8,221.9	21.5	14.8	89.55	6.8	239.1	822.0	785.7	36.33	22.625	
8,300.0	8,256.9	8,263.9	8,256.9	21.6	14.8	89.55	6.8	239.1	822.0	785.6	36.37	22.602	
8,360.0	8,316.9	8,323.9	8,316.9	21.6	14.9	89.55	6.8	239.1	822.0	785.6	36.43	22.563	
8,400.0	8,356.9	8,363.9	8,356.9	21.6	14.9	89.55	6.8	239.1	822.0	785.5	36.47	22.537	
8,455.0	8,411.9	8,418.9	8,411.9	21.6	14.9	89.55	6.8	239.1	822.0	785.5	36.53	22.502	
8,500.0	8,456.9	8,463.9	8,456.9	21.6	14.9	89.55	6.8	239.1	822.0	785.4	36.58	22.473	
8,550.0	8,506.9	8,513.9	8,506.9	21.7	15.0	89.55	6.8	239.1	822.0	785.4	36.63	22.441	
8,600.0	8,556.9	8,563.9	8,556.9	21.7	15.0	89.55	6.8	239.1	822.0	785.3	36.68	22.408	
8,645.0	8,601.9	8,608.9	8,601.9	21.7	15.0	89.55	6.8	239.1	822.0	785.3	36.73	22.379	
8,700.0	8,656.9	8,663.9	8,656.9	21.7	15.1	89.55	6.8	239.1	822.0	785.2	36.79	22.344	
8,740.0	8,696.9	8,703.9	8,696.9	21.7	15.1	89.55	6.8	239.1	822.0	785.2	36.83	22.318	
8,800.0	8,756.9	8,763.9	8,756.9	21.8	15.1	89.55	6.8	239.1	822.0	785.1	36.89	22.280	
8,835.0	8,791.9	8,798.9	8,791.9	21.8	15.2	89.55	6.8	239.1	822.0	785.1	36.93	22.257	
8,900.0	8,856.9	8,863.9	8,856.9	21.8	15.2	89.55	6.8	239.1	822.0	785.0	37.00	22.216	
8,930.0	8,886.9	8,893.9	8,886.9	21.8	15.2	89.55	6.8	239.1	822.0	784.9	37.03	22.197	
9,000.0	8,956.9	8,963.9	8,956.9	21.8	15.3	89.55	6.8	239.1	822.0	784.9	37.11	22.152	
9,025.0	8,981.9	8,988.9	8,981.9	21.8	15.3	89.55	6.8	239.1	822.0	784.8	37.13	22.136	
9,100.0	9,056.9	9,063.9	9,056.9	21.9	15.3	89.55	6.8	239.1	822.0	784.8	37.21	22.088	
9,120.0	9,076.9	9,083.9	9,076.9	21.9	15.4	89.55	6.8	239.1	822.0	784.7	37.24	22.075	
9,200.0	9,156.9	9,163.9	9,156.9	21.9	15.4	89.55	6.8	239.1	822.0	784.7	37.32	22.025	
9,215.0	9,171.9	9,178.9	9,171.9	21.9	15.4	89.55	6.8	239.1	822.0	784.6	37.34	22.015	
9,300.0	9,256.9	9,263.9	9,256.9	22.0	15.5	89.55	6.8	239.1	822.0	784.6	37.43	21.961	
9,310.0	9,266.9	9,273.9	9,266.9	22.0	15.5	89.55	6.8	239.1	822.0	784.5	37.44	21.955	
9,400.0	9,356.9	9,363.9	9,356.9	22.0	15.6	89.55	6.8	239.1	822.0	784.4	37.54	21.898	
9,405.0	9,361.9	9,368.9	9,361.9	22.0	15.6	89.55	6.8	239.1	822.0	784.4	37.54	21.895	
9,500.0	9,456.9	9,463.9	9,456.9	22.0	15.6	89.55	6.8	239.1	822.0	784.3	37.65	21.835	
9,595.0	9,551.9	9,558.9	9,551.9	22.1	15.7	89.55	6.8	239.1	822.0	784.2	37.75	21.775	
9,600.0	9,556.9	9,563.9	9,556.9	22.1	15.7	89.55	6.8	239.1	822.0	784.2	37.75	21.772	
9,690.0	9,646.9	9,653.9	9,646.9	22.1	15.7	89.55	6.8	239.1	822.0	784.1	37.85	21.715	
9,700.0	9,656.9	9,663.9	9,656.9	22.1	15.8	89.55	6.8	239.1	822.0	784.1	37.86	21.709	
9,785.0	9,741.9	9,748.9	9,741.9	22.2	15.8	89.55	6.8	239.1	822.0	784.0	37.96	21.656	
9,800.0	9,756.9	9,763.9	9,756.9	22.2	15.8	89.55	6.8	239.1	822.0	784.0	37.97	21.646	
9,880.0	9,836.9	9,843.9	9,836.9	22.2	15.9	89.55	6.8	239.1	822.0	783.9	38.06	21.596	
9,900.0	9,856.9	9,863.9	9,856.9	22.2	15.9	89.55	6.8	239.1	822.0	783.9	38.08	21.584	
9,975.0	9,931.9	9,938.9	9,931.9	22.2	15.9	89.55	6.8	239.1	822.0	783.8	38.17	21.537	
10,000.0	9,956.9	9,963.9	9,956.9	22.2	16.0	89.55	6.8	239.1	822.0	783.8	38.19	21.521	
10,070.0	10,026.9	10,033.9	10,026.9	22.3	16.0	89.55	6.8	239.1	822.0	783.7	38.27	21.478	
10,100.0	10,056.9	10,063.9	10,056.9	22.3	16.0	89.55	6.8	239.1	822.0	783.7	38.30	21.459	
10,165.0	10,121.9	10,128.9	10,121.9	22.3	16.1	89.55	6.8	239.1	822.0	783.6	38.38	21.419	
10,200.0	10,156.9	10,163.9	10,156.9	22.3	16.1	89.55	6.8	239.1	822.0	783.6	38.42	21.397	
10,260.0	10,216.9	10,223.9	10,216.9	22.4	16.1	89.55	6.8	239.1	822.0	783.5	38.48	21.360	
10,300.0	10,256.9	10,263.9	10,256.9	22.4	16.2	89.55	6.8	239.1	822.0	783.5	38.53	21.335	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		Distance				Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,355.0	10,311.9	10,318.9	10,311.9	22.4	16.2	89.55	6.8	239.1	822.0	783.4	38.59	21.301	
10,400.0	10,356.9	10,363.9	10,356.9	22.4	16.2	89.55	6.8	239.1	822.0	783.3	38.64	21.274	
10,450.0	10,406.9	10,413.9	10,406.9	22.4	16.3	89.55	6.8	239.1	822.0	783.3	38.69	21.243	
10,500.0	10,456.9	10,463.9	10,456.9	22.5	16.3	89.55	6.8	239.1	822.0	783.2	38.75	21.212	
10,545.0	10,501.9	10,508.9	10,501.9	22.5	16.3	89.55	6.8	239.1	822.0	783.2	38.80	21.185	
10,600.0	10,556.9	10,563.9	10,556.9	22.5	16.4	89.55	6.8	239.1	822.0	783.1	38.86	21.151	
10,640.0	10,596.9	10,603.9	10,596.9	22.5	16.4	89.55	6.8	239.1	822.0	783.1	38.91	21.126	
10,700.0	10,656.9	10,663.9	10,656.9	22.5	16.4	89.55	6.8	239.1	822.0	783.0	38.98	21.090	
10,735.0	10,691.9	10,698.9	10,691.9	22.6	16.5	89.55	6.8	239.1	822.0	783.0	39.02	21.068	
10,800.0	10,756.9	10,763.9	10,756.9	22.6	16.5	89.55	6.8	239.1	822.0	782.9	39.09	21.029	
10,830.0	10,786.9	10,793.9	10,786.9	22.6	16.5	89.55	6.8	239.1	822.0	782.9	39.12	21.010	
10,900.0	10,856.9	10,863.9	10,856.9	22.6	16.6	89.55	6.8	239.1	822.0	782.8	39.20	20.968	
10,925.0	10,881.9	10,888.9	10,881.9	22.6	16.6	89.55	6.8	239.1	822.0	782.8	39.23	20.953	
11,000.0	10,956.9	10,963.9	10,956.9	22.7	16.6	89.55	6.8	239.1	822.0	782.7	39.30	20.915	
11,019.6	10,976.5	10,983.6	10,976.5	22.7	16.6	89.55	6.8	239.1	822.0	782.7	39.31	20.908	
11,020.0	10,976.9	10,983.9	10,976.9	22.7	16.6	90.07	6.8	239.1	822.0	782.7	39.31	20.908	
11,025.0	10,981.9	10,989.0	10,981.9	22.7	16.6	90.07	6.9	239.1	822.0	782.7	39.31	20.908	
11,050.0	11,006.9	11,014.0	11,007.0	22.7	16.6	90.07	7.8	239.1	822.0	782.7	39.32	20.906	
11,075.0	11,031.8	11,039.1	11,031.9	22.7	16.6	90.07	10.0	239.1	822.0	782.7	39.32	20.904	
11,100.0	11,056.5	11,064.1	11,056.7	22.7	16.6	90.07	13.6	239.1	822.0	782.7	39.33	20.902	
11,115.0	11,071.3	11,079.1	11,071.5	22.7	16.6	90.07	16.4	239.0	822.0	782.7	39.33	20.901	
11,125.0	11,081.1	11,089.2	11,081.3	22.7	16.7	90.07	18.5	239.0	822.0	782.7	39.33	20.900	
11,150.0	11,105.3	11,114.2	11,105.6	22.7	16.7	90.07	24.6	239.0	822.0	782.6	39.33	20.897	
11,175.0	11,129.2	11,139.3	11,129.5	22.7	16.7	90.07	32.0	238.9	822.0	782.6	39.34	20.895	
11,200.0	11,152.7	11,164.3	11,153.0	22.7	16.7	90.07	40.6	238.8	822.0	782.6	39.34	20.892	
11,210.0	11,161.9	11,174.3	11,162.3	22.7	16.7	90.07	44.4	238.8	822.0	782.6	39.35	20.891	
11,225.0	11,175.6	11,189.4	11,176.0	22.7	16.7	90.07	50.5	238.7	822.0	782.6	39.35	20.889	
11,250.0	11,198.1	11,214.4	11,198.5	22.7	16.7	90.06	61.6	238.6	822.0	782.6	39.36	20.886	
11,275.0	11,219.9	11,239.5	11,220.4	22.7	16.7	90.06	73.8	238.5	822.0	782.6	39.36	20.882	
11,300.0	11,241.1	11,264.5	11,241.6	22.7	16.7	90.06	87.1	238.4	822.0	782.6	39.37	20.877	
11,305.0	11,245.2	11,269.5	11,245.7	22.7	16.7	90.06	89.9	238.4	822.0	782.6	39.37	20.876	
11,325.0	11,261.5	11,289.6	11,262.0	22.7	16.7	90.06	101.6	238.3	822.0	782.6	39.38	20.872	
11,350.0	11,281.2	11,314.6	11,281.7	22.7	16.7	90.06	117.1	238.1	822.0	782.6	39.39	20.866	
11,375.0	11,300.0	11,339.6	11,300.5	22.7	16.7	90.05	133.6	238.0	822.0	782.6	39.41	20.859	
11,400.0	11,317.9	11,364.7	11,318.5	22.7	16.7	90.05	151.0	237.8	822.0	782.6	39.42	20.850	
11,425.0	11,334.9	11,389.7	11,335.5	22.7	16.7	90.05	169.4	237.6	822.0	782.5	39.44	20.841	
11,450.0	11,351.0	11,414.8	11,351.5	22.7	16.7	90.04	188.6	237.5	822.0	782.5	39.46	20.830	
11,475.0	11,365.9	11,439.8	11,366.4	22.7	16.7	90.04	208.7	237.3	822.0	782.5	39.48	20.818	
11,495.0	11,377.2	11,459.8	11,377.7	22.8	16.7	90.04	225.3	237.1	822.0	782.5	39.51	20.806	
11,500.0	11,379.9	11,464.8	11,380.3	22.8	16.8	90.04	229.5	237.1	822.0	782.5	39.51	20.804	
11,525.0	11,392.7	11,489.9	11,393.1	22.8	16.8	90.04	251.0	236.9	822.0	782.4	39.54	20.788	
11,550.0	11,404.4	11,514.9	11,404.8	22.8	16.8	90.03	273.2	236.7	822.0	782.4	39.57	20.770	
11,575.0	11,414.9	11,539.9	11,415.3	22.8	16.8	90.03	295.9	236.5	822.0	782.4	39.61	20.751	
11,590.0	11,420.6	11,554.9	11,421.0	22.8	16.8	90.03	309.8	236.4	822.0	782.3	39.64	20.738	
11,600.0	11,424.2	11,564.9	11,424.5	22.8	16.8	90.03	319.1	236.3	822.0	782.3	39.65	20.730	
11,625.0	11,432.3	11,589.9	11,432.6	22.8	16.9	90.02	342.8	236.1	822.0	782.3	39.70	20.706	
11,650.0	11,439.1	11,615.0	11,439.3	22.9	16.9	90.02	366.9	235.8	822.0	782.2	39.75	20.681	
11,675.0	11,444.7	11,640.0	11,444.9	22.9	16.9	90.01	391.3	235.6	822.0	782.2	39.80	20.654	
11,685.0	11,446.5	11,650.0	11,446.7	22.9	16.9	90.01	401.1	235.5	822.0	782.2	39.82	20.642	
11,700.0	11,448.9	11,665.0	11,449.1	22.9	16.9	90.01	415.9	235.4	822.0	782.1	39.85	20.624	
11,725.0	11,451.9	11,690.0	11,452.0	22.9	17.0	90.01	440.7	235.2	822.0	782.1	39.92	20.593	
11,750.0	11,453.6	11,715.0	11,453.6	23.0	17.0	90.00	465.7	235.0	822.0	782.0	39.98	20.560	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	
11,769.6	11,454.0	11,734.6	11,454.0	23.0	17.1	90.00	485.3	234.8	822.0	781.9	40.03	20.533	
11,780.0	11,454.0	11,745.0	11,454.0	23.0	17.1	90.00	495.7	234.7	822.0	781.9	40.06	20.517	
11,800.0	11,454.0	11,765.0	11,454.0	23.0	17.1	90.00	515.7	234.5	822.0	781.9	40.12	20.486	
11,875.0	11,454.0	11,840.0	11,454.0	23.1	17.3	90.00	590.7	233.8	822.0	781.6	40.38	20.354	
11,900.0	11,454.0	11,865.0	11,454.0	23.2	17.3	90.00	615.7	233.6	822.0	781.5	40.47	20.309	
11,970.0	11,454.0	11,935.0	11,454.0	23.3	17.5	90.00	685.7	233.0	822.0	781.2	40.76	20.168	
12,000.0	11,454.0	11,965.0	11,454.0	23.3	17.5	90.00	715.7	232.7	822.0	781.1	40.88	20.106	
12,065.0	11,454.0	12,030.0	11,454.0	23.5	17.7	90.00	780.7	232.1	822.0	780.8	41.18	19.962	
12,100.0	11,454.0	12,065.0	11,454.0	23.5	17.8	90.00	815.7	231.8	822.0	780.6	41.34	19.882	
12,160.0	11,454.0	12,125.0	11,454.0	23.7	18.0	90.00	875.7	231.2	822.0	780.3	41.65	19.737	
12,200.0	11,454.0	12,165.0	11,454.0	23.8	18.1	90.00	915.7	230.9	822.0	780.1	41.86	19.639	
12,255.0	11,454.0	12,220.0	11,454.0	23.9	18.3	90.00	970.7	230.4	822.0	779.8	42.16	19.497	
12,300.0	11,454.0	12,265.0	11,454.0	24.0	18.4	90.00	1,015.7	230.0	822.0	779.6	42.42	19.378	
12,350.0	11,454.0	12,315.0	11,454.0	24.2	18.6	90.00	1,065.7	229.5	822.0	779.3	42.72	19.242	
12,400.0	11,454.0	12,365.0	11,454.0	24.3	18.8	90.00	1,115.7	229.1	822.0	779.0	43.03	19.104	
12,445.0	11,454.0	12,410.0	11,454.0	24.4	18.9	90.00	1,160.7	228.6	822.0	778.7	43.32	18.976	
12,500.0	11,454.0	12,465.0	11,454.0	24.6	19.1	90.00	1,215.7	228.1	822.0	778.3	43.68	18.818	
12,540.0	11,454.0	12,505.0	11,454.0	24.7	19.3	90.00	1,255.7	227.8	822.0	778.0	43.95	18.701	
12,600.0	11,454.0	12,565.0	11,454.0	24.9	19.5	90.00	1,315.7	227.2	822.0	777.6	44.38	18.522	
12,635.0	11,454.0	12,600.0	11,454.0	25.0	19.7	90.00	1,350.7	226.9	822.0	777.3	44.63	18.417	
12,700.0	11,454.0	12,665.0	11,454.0	25.2	19.9	90.00	1,415.7	226.3	822.0	776.9	45.12	18.219	
12,730.0	11,454.0	12,695.0	11,454.0	25.3	20.1	90.00	1,445.6	226.1	822.0	776.6	45.35	18.127	
12,800.0	11,454.0	12,765.0	11,454.0	25.6	20.4	90.00	1,515.6	225.4	822.0	776.1	45.89	17.911	
12,825.0	11,454.0	12,790.0	11,454.0	25.6	20.5	90.00	1,540.6	225.2	822.0	775.9	46.09	17.833	
12,900.0	11,454.0	12,865.0	11,454.0	25.9	20.8	90.00	1,615.6	224.5	822.0	775.3	46.71	17.598	
12,920.0	11,454.0	12,885.0	11,454.0	26.0	20.9	90.00	1,635.6	224.3	822.0	775.1	46.88	17.535	
13,000.0	11,454.0	12,965.0	11,454.0	26.3	21.3	90.00	1,715.6	223.6	822.0	774.4	47.56	17.284	
13,015.0	11,454.0	12,980.0	11,454.0	26.4	21.4	90.00	1,730.6	223.5	822.0	774.3	47.69	17.237	
13,100.0	11,454.0	13,065.0	11,454.0	26.7	21.8	90.00	1,815.6	222.7	822.0	773.5	48.44	16.969	
13,110.0	11,454.0	13,075.0	11,454.0	26.7	21.8	90.00	1,825.6	222.6	822.0	773.5	48.53	16.937	
13,200.0	11,454.0	13,165.0	11,454.0	27.1	22.3	90.00	1,915.6	221.8	822.0	772.6	49.35	16.655	
13,205.0	11,454.0	13,170.0	11,454.0	27.1	22.3	90.00	1,920.6	221.7	822.0	772.6	49.40	16.639	
13,300.0	11,454.0	13,265.0	11,454.0	27.5	22.8	90.00	2,015.6	220.9	822.0	771.7	50.30	16.343	
13,395.0	11,454.0	13,360.0	11,454.0	28.0	23.3	90.00	2,110.6	220.0	822.0	770.8	51.22	16.048	
13,400.0	11,454.0	13,365.0	11,454.0	28.0	23.3	90.00	2,115.6	220.0	822.0	770.7	51.27	16.033	
13,490.0	11,454.0	13,455.0	11,454.0	28.4	23.8	90.00	2,205.6	219.2	822.0	769.8	52.17	15.757	
13,500.0	11,454.0	13,465.0	11,454.0	28.4	23.9	90.00	2,215.6	219.1	822.0	769.7	52.27	15.727	
13,585.0	11,454.0	13,550.0	11,454.0	28.8	24.3	90.00	2,300.6	218.3	822.0	768.8	53.13	15.470	
13,600.0	11,454.0	13,565.0	11,454.0	28.9	24.4	90.00	2,315.6	218.2	822.0	768.7	53.29	15.425	
13,680.0	11,454.0	13,645.0	11,454.0	29.3	24.9	90.00	2,395.6	217.4	822.0	767.9	54.12	15.187	
13,700.0	11,454.0	13,665.0	11,454.0	29.4	25.0	90.00	2,415.6	217.3	822.0	767.6	54.33	15.128	
13,775.0	11,454.0	13,740.0	11,454.0	29.8	25.4	90.00	2,490.6	216.6	822.0	766.8	55.13	14.909	
13,800.0	11,454.0	13,765.0	11,454.0	29.9	25.6	90.00	2,515.6	216.3	822.0	766.6	55.40	14.836	
13,870.0	11,454.0	13,835.0	11,454.0	30.2	26.0	90.00	2,585.6	215.7	822.0	765.8	56.16	14.635	
13,900.0	11,454.0	13,865.0	11,454.0	30.4	26.1	90.00	2,615.6	215.4	822.0	765.5	56.49	14.550	
13,965.0	11,454.0	13,930.0	11,454.0	30.7	26.5	90.00	2,680.6	214.8	822.0	764.8	57.21	14.367	
14,000.0	11,454.0	13,965.0	11,454.0	30.9	26.7	90.00	2,715.6	214.5	822.0	764.4	57.60	14.270	
14,060.0	11,454.0	14,025.0	11,454.0	31.2	27.1	90.00	2,775.6	214.0	822.0	763.7	58.28	14.105	
14,100.0	11,454.0	14,065.0	11,454.0	31.4	27.3	90.00	2,815.6	213.6	822.0	763.3	58.73	13.997	
14,155.0	11,454.0	14,120.0	11,454.0	31.7	27.7	90.00	2,870.6	213.1	822.0	762.6	59.36	13.848	
14,200.0	11,454.0	14,165.0	11,454.0	32.0	28.0	90.00	2,915.6	212.7	822.0	762.1	59.87	13.729	
14,250.0	11,454.0	14,215.0	11,454.0	32.2	28.3	90.00	2,965.6	212.3	822.0	761.5	60.45	13.597	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		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	
14,300.0	11,454.0	14,265.0	11,454.0	32.5	28.6	90.00	3,015.6	211.8	822.0	760.9	61.03	13.468	
14,345.0	11,454.0	14,310.0	11,454.0	32.8	28.9	90.00	3,060.6	211.4	822.0	760.4	61.56	13.352	
14,400.0	11,454.0	14,365.0	11,454.0	33.1	29.2	90.00	3,115.6	210.9	822.0	759.8	62.21	13.213	
14,440.0	11,454.0	14,405.0	11,454.0	33.3	29.5	90.00	3,155.6	210.5	822.0	759.3	62.69	13.113	
14,500.0	11,454.0	14,465.0	11,454.0	33.6	29.8	90.00	3,215.6	210.0	822.0	758.6	63.40	12.965	
14,535.0	11,454.0	14,500.0	11,454.0	33.8	30.1	90.00	3,250.6	209.7	822.0	758.2	63.82	12.879	
14,600.0	11,454.0	14,565.0	11,454.0	34.2	30.5	90.00	3,315.6	209.1	822.0	757.4	64.61	12.723	
14,630.0	11,454.0	14,595.0	11,454.0	34.4	30.7	90.00	3,345.6	208.8	822.0	757.0	64.97	12.651	
14,700.0	11,454.0	14,665.0	11,454.0	34.8	31.1	90.00	3,415.6	208.2	822.0	756.2	65.83	12.487	
14,725.0	11,454.0	14,690.0	11,454.0	34.9	31.3	90.00	3,440.6	208.0	822.0	755.8	66.13	12.429	
14,800.0	11,454.0	14,765.0	11,454.0	35.3	31.8	90.00	3,515.6	207.3	822.0	754.9	67.06	12.258	
14,820.0	11,454.0	14,785.0	11,454.0	35.5	31.9	90.00	3,535.6	207.1	822.0	754.7	67.31	12.213	
14,900.0	11,454.0	14,865.0	11,454.0	35.9	32.4	90.00	3,615.6	206.4	822.0	753.7	68.30	12.035	
14,915.0	11,454.0	14,880.0	11,454.0	36.0	32.5	90.00	3,630.6	206.2	822.0	753.5	68.49	12.002	
15,000.0	11,454.0	14,965.0	11,454.0	36.5	33.1	90.00	3,715.6	205.5	822.0	752.4	69.56	11.818	
15,010.0	11,454.0	14,975.0	11,454.0	36.6	33.1	90.00	3,725.6	205.4	822.0	752.3	69.68	11.796	
15,100.0	11,454.0	15,065.0	11,454.0	37.1	33.7	90.00	3,815.6	204.5	822.0	751.2	70.82	11.607	
15,105.0	11,454.0	15,070.0	11,454.0	37.2	33.8	90.00	3,820.6	204.5	822.0	751.1	70.88	11.596	
15,200.0	11,454.0	15,165.0	11,454.0	37.7	34.4	90.00	3,915.5	203.6	822.0	749.9	72.09	11.401	
15,295.0	11,454.0	15,260.0	11,454.0	38.3	35.0	90.00	4,010.5	202.8	822.0	748.7	73.31	11.212	
15,300.0	11,454.0	15,265.0	11,454.0	38.4	35.1	90.00	4,015.5	202.7	822.0	748.6	73.38	11.202	
15,390.0	11,454.0	15,355.0	11,454.0	38.9	35.7	90.00	4,105.5	201.9	822.0	747.4	74.54	11.027	
15,400.0	11,454.0	15,365.0	11,454.0	39.0	35.7	90.00	4,115.5	201.8	822.0	747.3	74.67	11.008	
15,485.0	11,454.0	15,450.0	11,454.0	39.5	36.3	90.00	4,200.5	201.1	822.0	746.2	75.78	10.847	
15,500.0	11,454.0	15,465.0	11,454.0	39.6	36.4	90.00	4,215.5	200.9	822.0	746.0	75.97	10.819	
15,580.0	11,454.0	15,545.0	11,454.0	40.1	37.0	90.00	4,295.5	200.2	822.0	745.0	77.02	10.672	
15,600.0	11,454.0	15,565.0	11,454.0	40.2	37.1	90.00	4,315.5	200.0	822.0	744.7	77.28	10.636	
15,675.0	11,454.0	15,640.0	11,454.0	40.7	37.6	90.00	4,390.5	199.3	822.0	743.7	78.27	10.501	
15,700.0	11,454.0	15,665.0	11,454.0	40.9	37.8	90.00	4,415.5	199.1	822.0	743.4	78.60	10.457	
15,770.0	11,454.0	15,735.0	11,454.0	41.3	38.3	90.00	4,485.5	198.5	822.0	742.5	79.53	10.335	
15,800.0	11,454.0	15,765.0	11,454.0	41.5	38.5	90.00	4,515.5	198.2	822.0	742.1	79.93	10.284	
15,865.0	11,454.0	15,830.0	11,454.0	41.9	38.9	90.00	4,580.5	197.6	822.0	741.2	80.79	10.174	
15,900.0	11,454.0	15,865.0	11,454.0	42.1	39.2	90.00	4,615.5	197.3	822.0	740.7	81.26	10.115	
15,960.0	11,454.0	15,925.0	11,454.0	42.5	39.6	90.00	4,675.5	196.7	822.0	739.9	82.06	10.016	
16,000.0	11,454.0	15,965.0	11,454.0	42.8	39.9	90.00	4,715.5	196.4	822.0	739.4	82.60	9.951	
16,055.0	11,454.0	16,020.0	11,454.0	43.1	40.2	90.00	4,770.5	195.9	822.0	738.6	83.34	9.863	
16,100.0	11,454.0	16,065.0	11,454.0	43.4	40.6	90.00	4,815.5	195.5	822.0	738.0	83.94	9.792	
16,150.0	11,454.0	16,115.0	11,454.0	43.8	40.9	90.00	4,865.5	195.0	822.0	737.4	84.62	9.714	
16,200.0	11,454.0	16,165.0	11,454.0	44.1	41.3	90.00	4,915.5	194.6	822.0	736.7	85.30	9.637	
16,245.0	11,454.0	16,210.0	11,454.0	44.4	41.6	90.00	4,960.5	194.2	822.0	736.1	85.91	9.568	
16,300.0	11,454.0	16,265.0	11,454.0	44.7	42.0	90.00	5,015.5	193.7	822.0	735.3	86.65	9.486	
16,340.0	11,454.0	16,305.0	11,454.0	45.0	42.2	90.00	5,055.5	193.3	822.0	734.8	87.20	9.427	
16,400.0	11,454.0	16,365.0	11,454.0	45.4	42.7	90.00	5,115.5	192.7	822.0	734.0	88.02	9.339	
16,435.0	11,454.0	16,400.0	11,454.0	45.6	42.9	90.00	5,150.5	192.4	822.0	733.5	88.49	9.289	
16,500.0	11,454.0	16,465.0	11,454.0	46.1	43.4	90.00	5,215.5	191.8	822.0	732.6	89.38	9.196	
16,530.0	11,454.0	16,495.0	11,454.0	46.3	43.6	90.00	5,245.5	191.6	822.0	732.2	89.80	9.154	
16,600.0	11,454.0	16,565.0	11,454.0	46.7	44.1	90.00	5,315.5	190.9	822.0	731.2	90.76	9.057	
16,625.0	11,454.0	16,590.0	11,454.0	46.9	44.2	90.00	5,340.5	190.7	822.0	730.9	91.10	9.023	
16,700.0	11,454.0	16,665.0	11,454.0	47.4	44.8	90.00	5,415.5	190.0	822.0	729.8	92.13	8.921	
16,720.0	11,454.0	16,685.0	11,454.0	47.5	44.9	90.00	5,435.5	189.8	822.0	729.6	92.41	8.895	
16,800.0	11,454.0	16,765.0	11,454.0	48.1	45.5	90.00	5,515.5	189.1	822.0	728.5	93.52	8.790	
16,815.0	11,454.0	16,780.0	11,454.0	48.2	45.6	90.00	5,530.5	189.0	822.0	728.3	93.73	8.770	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,900.0	11,454.0	16,865.0	11,454.0	48.8	46.2	90.00	5,615.5	188.2	822.0	727.1	94.90	8.661		
16,910.0	11,454.0	16,875.0	11,454.0	48.8	46.3	90.00	5,625.5	188.1	822.0	726.9	95.04	8.649		
17,000.0	11,454.0	16,965.0	11,454.0	49.4	46.9	90.00	5,715.5	187.3	822.0	725.7	96.30	8.536		
17,005.0	11,454.0	16,970.0	11,454.0	49.5	47.0	90.00	5,720.5	187.3	822.0	725.6	96.36	8.530		
17,100.0	11,454.0	17,065.0	11,454.0	50.1	47.6	90.00	5,815.5	186.4	822.0	724.3	97.69	8.414		
17,195.0	11,454.0	17,160.0	11,454.0	50.8	48.3	90.00	5,910.5	185.5	822.0	723.0	99.02	8.301		
17,200.0	11,454.0	17,165.0	11,454.0	50.8	48.3	90.00	5,915.5	185.5	822.0	722.9	99.09	8.295		
17,290.0	11,454.0	17,255.0	11,454.0	51.4	49.0	90.00	6,005.5	184.7	822.0	721.6	100.35	8.191		
17,300.0	11,454.0	17,265.0	11,454.0	51.5	49.1	90.00	6,015.5	184.6	822.0	721.5	100.49	8.180		
17,385.0	11,454.0	17,350.0	11,454.0	52.1	49.7	90.00	6,100.5	183.8	822.0	720.3	101.69	8.083		
17,400.0	11,454.0	17,365.0	11,454.0	52.2	49.8	90.00	6,115.5	183.7	822.0	720.1	101.90	8.067		
17,480.0	11,454.0	17,445.0	11,454.0	52.7	50.4	90.00	6,195.5	182.9	822.0	719.0	103.03	7.978		
17,500.0	11,454.0	17,465.0	11,454.0	52.8	50.5	90.00	6,215.5	182.8	822.0	718.7	103.31	7.957		
17,575.0	11,454.0	17,540.0	11,454.0	53.4	51.0	90.00	6,290.4	182.1	822.0	717.6	104.37	7.876		
17,600.0	11,454.0	17,565.0	11,454.0	53.5	51.2	90.00	6,315.4	181.9	822.0	717.3	104.72	7.849		
17,670.0	11,454.0	17,635.0	11,454.0	54.0	51.7	90.00	6,385.4	181.2	822.0	716.3	105.71	7.776		
17,700.0	11,454.0	17,665.0	11,454.0	54.2	52.0	90.00	6,415.4	181.0	822.0	715.8	106.14	7.745		
17,765.0	11,454.0	17,730.0	11,454.0	54.7	52.4	90.00	6,480.4	180.4	822.0	714.9	107.06	7.678		
17,800.0	11,454.0	17,765.0	11,454.0	54.9	52.7	90.00	6,515.4	180.0	822.0	714.4	107.56	7.642		
17,860.0	11,454.0	17,825.0	11,454.0	55.3	53.1	90.00	6,575.4	179.5	822.0	713.6	108.41	7.582		
17,900.0	11,454.0	17,865.0	11,454.0	55.6	53.4	90.00	6,615.4	179.1	822.0	713.0	108.98	7.543		
17,955.0	11,454.0	17,920.0	11,454.0	56.0	53.8	90.00	6,670.4	178.6	822.0	712.2	109.76	7.489		
18,000.0	11,454.0	17,965.0	11,454.0	56.3	54.1	90.00	6,715.4	178.2	822.0	711.6	110.40	7.445		
18,050.0	11,454.0	18,015.0	11,454.0	56.7	54.5	90.00	6,765.4	177.8	822.0	710.9	111.12	7.397		
18,100.0	11,454.0	18,065.0	11,454.0	57.0	54.9	90.00	6,815.4	177.3	822.0	710.2	111.83	7.350		
18,145.0	11,454.0	18,110.0	11,454.0	57.3	55.2	90.00	6,860.4	176.9	822.0	709.5	112.47	7.308		
18,200.0	11,454.0	18,165.0	11,454.0	57.7	55.6	90.00	6,915.4	176.4	822.0	708.7	113.26	7.257		
18,240.0	11,454.0	18,205.0	11,454.0	58.0	55.9	90.00	6,955.4	176.1	822.0	708.1	113.83	7.221		
18,300.0	11,454.0	18,265.0	11,454.0	58.4	56.3	90.00	7,015.4	175.5	822.0	707.3	114.69	7.167		
18,335.0	11,454.0	18,300.0	11,454.0	58.7	56.6	90.00	7,050.4	175.2	822.0	706.8	115.19	7.136		
18,400.0	11,454.0	18,365.0	11,454.0	59.1	57.0	90.00	7,115.4	174.6	822.0	705.9	116.13	7.078		
18,430.0	11,454.0	18,395.0	11,454.0	59.3	57.3	90.00	7,145.4	174.3	822.0	705.4	116.56	7.052		
18,500.0	11,454.0	18,465.0	11,454.0	59.8	57.8	90.00	7,215.4	173.7	822.0	704.4	117.56	6.992		
18,525.0	11,454.0	18,490.0	11,454.0	60.0	58.0	90.00	7,240.4	173.5	822.0	704.1	117.92	6.970		
18,600.0	11,454.0	18,565.0	11,454.0	60.5	58.5	90.00	7,315.4	172.8	822.0	703.0	119.00	6.907		
18,620.0	11,454.0	18,585.0	11,454.0	60.7	58.7	90.00	7,335.4	172.6	822.0	702.7	119.29	6.890		
18,700.0	11,454.0	18,665.0	11,454.0	61.3	59.2	90.00	7,415.4	171.9	822.0	701.5	120.45	6.824		
18,715.0	11,454.0	18,680.0	11,454.0	61.4	59.3	90.00	7,430.4	171.7	822.0	701.3	120.66	6.812		
18,800.0	11,454.0	18,765.0	11,454.0	62.0	60.0	90.00	7,515.4	171.0	822.0	700.1	121.89	6.744		
18,810.0	11,454.0	18,775.0	11,454.0	62.0	60.0	90.00	7,525.4	170.9	822.0	699.9	122.03	6.736		
18,900.0	11,454.0	18,865.0	11,454.0	62.7	60.7	90.00	7,615.4	170.1	822.0	698.6	123.34	6.665		
18,905.0	11,454.0	18,870.0	11,454.0	62.7	60.7	90.00	7,620.4	170.0	822.0	698.6	123.41	6.661		
19,000.0	11,454.0	18,965.0	11,454.0	63.4	61.4	90.00	7,715.4	169.2	822.0	697.2	124.78	6.587		
19,095.0	11,454.0	19,060.0	11,454.0	64.1	62.1	90.00	7,810.4	168.3	822.0	695.8	126.16	6.515		
19,100.0	11,454.0	19,065.0	11,454.0	64.1	62.2	90.00	7,815.4	168.2	822.0	695.7	126.23	6.512		
19,190.0	11,454.0	19,155.0	11,454.0	64.7	62.8	90.00	7,905.4	167.4	822.0	694.4	127.54	6.445		
19,200.0	11,454.0	19,165.0	11,454.0	64.8	62.9	90.00	7,915.4	167.3	822.0	694.3	127.68	6.438		
19,285.0	11,454.0	19,250.0	11,454.0	65.4	63.5	90.00	8,000.4	166.6	822.0	693.1	128.92	6.376		
19,300.0	11,454.0	19,265.0	11,454.0	65.5	63.6	90.00	8,015.4	166.4	822.0	692.8	129.14	6.365		
19,380.0	11,454.0	19,345.0	11,454.0	66.1	64.2	90.00	8,095.4	165.7	822.0	691.7	130.30	6.308		
19,400.0	11,454.0	19,365.0	11,454.0	66.2	64.4	90.00	8,115.4	165.5	822.0	691.4	130.59	6.294		
19,475.0	11,454.0	19,440.0	11,454.0	66.8	64.9	90.00	8,190.4	164.8	822.0	690.3	131.68	6.242		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		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	
19,500.0	11,454.0	19,465.0	11,454.0	67.0	65.1	90.00	8,215.4	164.6	822.0	689.9	132.05	6.225	
19,570.0	11,454.0	19,535.0	11,454.0	67.5	65.6	90.00	8,285.4	164.0	822.0	688.9	133.07	6.177	
19,600.0	11,454.0	19,565.0	11,454.0	67.7	65.9	90.00	8,315.4	163.7	822.0	688.5	133.51	6.157	
19,665.0	11,454.0	19,630.0	11,454.0	68.1	66.3	90.00	8,380.4	163.1	822.0	687.5	134.45	6.113	
19,700.0	11,454.0	19,665.0	11,454.0	68.4	66.6	90.00	8,415.4	162.8	822.0	687.0	134.97	6.090	
19,760.0	11,454.0	19,725.0	11,454.0	68.8	67.0	90.00	8,475.4	162.3	822.0	686.1	135.84	6.051	
19,800.0	11,454.0	19,765.0	11,454.0	69.1	67.3	90.00	8,515.4	161.9	822.0	685.6	136.43	6.025	
19,855.0	11,454.0	19,820.0	11,454.0	69.5	67.7	90.00	8,570.4	161.4	822.0	684.8	137.23	5.990	
19,900.0	11,454.0	19,865.0	11,454.0	69.8	68.1	90.00	8,615.4	161.0	822.0	684.1	137.89	5.961	
19,950.0	11,454.0	19,915.0	11,454.0	70.2	68.5	90.00	8,665.4	160.5	822.0	683.4	138.62	5.930	
20,000.0	11,454.0	19,965.0	11,454.0	70.6	68.8	90.00	8,715.4	160.1	822.0	682.6	139.35	5.899	
20,045.0	11,454.0	20,010.0	11,454.0	70.9	69.2	90.00	8,760.3	159.7	822.0	682.0	140.01	5.871	
20,100.0	11,454.0	20,065.0	11,454.0	71.3	69.6	90.00	8,815.3	159.2	822.0	681.2	140.82	5.837	
20,140.0	11,454.0	20,105.0	11,454.0	71.6	69.9	90.00	8,855.3	158.8	822.0	680.6	141.40	5.813	
20,200.0	11,454.0	20,165.0	11,454.0	72.0	70.3	90.00	8,915.3	158.3	822.0	679.7	142.28	5.777	
20,235.0	11,454.0	20,200.0	11,454.0	72.3	70.6	90.00	8,950.3	157.9	822.0	679.2	142.80	5.756	
20,300.0	11,454.0	20,265.0	11,454.0	72.7	71.0	90.00	9,015.3	157.4	822.0	678.2	143.75	5.718	
20,330.0	11,454.0	20,295.0	11,454.0	73.0	71.3	90.00	9,045.3	157.1	822.0	677.8	144.19	5.701	
20,400.0	11,454.0	20,365.0	11,454.0	73.5	71.8	90.00	9,115.3	156.4	822.0	676.8	145.22	5.660	
20,425.0	11,454.0	20,390.0	11,454.0	73.6	72.0	90.00	9,140.3	156.2	822.0	676.4	145.59	5.646	
20,500.0	11,454.0	20,465.0	11,454.0	74.2	72.5	90.00	9,215.3	155.5	822.0	675.3	146.69	5.603	
20,520.0	11,454.0	20,485.0	11,454.0	74.3	72.7	90.00	9,235.3	155.4	822.0	675.0	146.99	5.592	
20,600.0	11,454.0	20,565.0	11,454.0	74.9	73.3	90.00	9,315.3	154.6	822.0	673.8	148.16	5.548	
20,615.0	11,454.0	20,580.0	11,454.0	75.0	73.4	90.00	9,330.3	154.5	822.0	673.6	148.38	5.540	
20,700.0	11,454.0	20,665.0	11,454.0	75.6	74.0	90.00	9,415.3	153.7	822.0	672.3	149.63	5.493	
20,710.0	11,454.0	20,675.0	11,454.0	75.7	74.1	90.00	9,425.3	153.6	822.0	672.2	149.78	5.488	
20,800.0	11,454.0	20,765.0	11,454.0	76.4	74.8	90.00	9,515.3	152.8	822.0	670.9	151.11	5.440	
20,805.0	11,454.0	20,770.0	11,454.0	76.4	74.8	90.00	9,520.3	152.8	822.0	670.8	151.18	5.437	
20,900.0	11,454.0	20,865.0	11,454.0	77.1	75.5	90.00	9,615.3	151.9	822.0	669.4	152.58	5.387	
20,995.0	11,454.0	20,960.0	11,454.0	77.8	76.2	90.00	9,710.3	151.0	822.0	668.0	153.98	5.338	
21,000.0	11,454.0	20,965.0	11,454.0	77.8	76.3	90.00	9,715.3	151.0	822.0	667.9	154.06	5.336	
21,090.0	11,454.0	21,055.0	11,454.0	78.5	76.9	90.00	9,805.3	150.2	822.0	666.6	155.39	5.290	
21,100.0	11,454.0	21,065.0	11,454.0	78.6	77.0	90.00	9,815.3	150.1	822.0	666.4	155.53	5.285	
21,185.0	11,454.0	21,150.0	11,454.0	79.2	77.6	90.00	9,900.3	149.3	822.0	665.2	156.79	5.243	
21,200.0	11,454.0	21,165.0	11,454.0	79.3	77.7	90.00	9,915.3	149.2	822.0	665.0	157.01	5.235	
21,280.0	11,454.0	21,245.0	11,454.0	79.9	78.3	90.00	9,995.3	148.5	822.0	663.8	158.19	5.196	
21,300.0	11,454.0	21,265.0	11,454.0	80.0	78.5	90.00	10,015.3	148.3	822.0	663.5	158.49	5.186	
21,375.0	11,454.0	21,340.0	11,454.0	80.6	79.1	90.00	10,090.3	147.6	822.0	662.4	159.60	5.150	
21,400.0	11,454.0	21,365.0	11,454.0	80.8	79.2	90.00	10,115.3	147.4	822.0	662.0	159.97	5.138	
21,470.0	11,454.0	21,435.0	11,454.0	81.3	79.8	90.00	10,185.3	146.7	822.0	661.0	161.01	5.105	
21,500.0	11,454.0	21,465.0	11,454.0	81.5	80.0	90.00	10,215.3	146.5	822.0	660.5	161.45	5.091	
21,565.0	11,454.0	21,530.0	11,454.0	82.0	80.5	90.00	10,280.3	145.9	822.0	659.6	162.41	5.061	
21,600.0	11,454.0	21,565.0	11,454.0	82.2	80.7	90.00	10,315.3	145.6	822.0	659.0	162.93	5.045	
21,660.0	11,454.0	21,625.0	11,454.0	82.7	81.2	90.00	10,375.3	145.0	822.0	658.2	163.82	5.018	
21,700.0	11,454.0	21,665.0	11,454.0	83.0	81.5	90.00	10,415.3	144.6	822.0	657.6	164.41	4.999	
21,755.0	11,454.0	21,720.0	11,454.0	83.4	81.9	90.00	10,470.3	144.1	822.0	656.8	165.23	4.975	
21,755.4	11,454.0	21,720.4	11,454.0	83.4	81.9	90.00	10,470.7	144.1	822.0	656.7	165.23	4.975	
21,760.3	11,454.0	21,724.9	11,454.0	83.4	81.9	90.00	10,475.2	144.1	822.0	656.7	165.30	4.973 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 #709H
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 #709H	Survey Calculation Method:	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	89.53	0.7	90.5	90.5					
95.0	95.0	95.0	95.0	3.0	3.0	89.53	0.7	90.5	90.5	84.5	6.03	15.017		
100.0	100.0	100.0	100.0	3.0	3.0	89.53	0.7	90.5	90.5	84.5	6.03	15.008		
190.0	190.0	190.0	190.0	3.1	3.1	89.53	0.7	90.5	90.5	84.3	6.15	14.707		
200.0	200.0	200.0	200.0	3.1	3.1	89.53	0.7	90.5	90.5	84.3	6.17	14.661		
285.0	285.0	285.0	285.0	3.2	3.2	89.53	0.7	90.5	90.5	84.2	6.31	14.338		
300.0	300.0	300.0	300.0	3.2	3.2	89.53	0.7	90.5	90.5	84.1	6.34	14.274		
380.0	380.0	380.0	380.0	3.3	3.3	89.53	0.7	90.5	90.5	84.0	6.49	13.946		
400.0	400.0	400.0	400.0	3.3	3.3	89.53	0.7	90.5	90.5	84.0	6.53	13.859		
475.0	475.0	475.0	475.0	3.4	3.4	89.53	0.7	90.5	90.5	83.8	6.68	13.537		
500.0	500.0	500.0	500.0	3.4	3.4	89.53	0.7	90.5	90.5	83.7	6.74	13.425		
570.0	570.0	570.0	570.0	3.5	3.5	89.53	0.7	90.5	90.5	83.6	6.90	13.118		
600.0	600.0	600.0	600.0	3.5	3.5	89.53	0.7	90.5	90.5	83.5	6.97	12.983		
665.0	665.0	665.0	665.0	3.6	3.6	89.53	0.7	90.5	90.5	83.4	7.13	12.696		
700.0	700.0	700.0	700.0	3.7	3.7	89.53	0.7	90.5	90.5	83.3	7.22	12.540		
760.0	760.0	760.0	760.0	3.8	3.8	89.53	0.7	90.5	90.5	83.1	7.37	12.276		
800.0	800.0	800.0	800.0	3.8	3.8	89.53	0.7	90.5	90.5	83.0	7.48	12.101		
855.0	855.0	855.0	855.0	3.9	3.9	89.53	0.7	90.5	90.5	82.9	7.63	11.863		
900.0	900.0	900.0	900.0	4.0	4.0	89.53	0.7	90.5	90.5	82.7	7.75	11.670		
950.0	950.0	950.0	950.0	4.1	4.1	89.53	0.7	90.5	90.5	82.6	7.90	11.460		
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.53	0.7	90.5	90.5	82.4	8.04	11.252		
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.53	0.7	90.5	90.5	82.3	8.17	11.069		
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.53	0.7	90.5	90.5	82.1	8.34	10.849		
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.53	0.7	90.5	90.5	82.0	8.46	10.692		
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.53	0.7	90.5	90.5	81.8	8.65	10.461		
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.53	0.7	90.5	90.5	81.7	8.76	10.329		
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.53	0.7	90.5	90.5	81.5	8.97	10.090		
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.53	0.7	90.5	90.5	81.4	9.06	9.982		
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.53	0.7	90.5	90.5	81.2	9.29	9.736		
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.53	0.7	90.5	90.5	81.1	9.38	9.650		
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.53	0.7	90.5	90.5	80.9	9.63	9.399		
1,520.0	1,520.0	1,520.0	1,520.0	5.1	5.1	89.53	0.7	90.5	90.5	80.8	9.69	9.334		
1,600.0	1,600.0	1,600.0	1,600.0	5.3	5.3	89.53	0.7	90.5	90.5	80.5	9.97	9.079		
1,615.0	1,615.0	1,615.0	1,615.0	5.3	5.3	89.53	0.7	90.5	90.5	80.5	10.02	9.032		
1,700.0	1,700.0	1,700.0	1,700.0	5.5	5.5	89.53	0.7	90.5	90.5	80.2	10.31	8.775		
1,710.0	1,710.0	1,710.0	1,710.0	5.5	5.5	89.53	0.7	90.5	90.5	80.1	10.35	8.745		
1,800.0	1,800.0	1,800.0	1,800.0	5.7	5.7	89.53	0.7	90.5	90.5	79.8	10.66	8.486		
1,805.0	1,805.0	1,805.0	1,805.0	5.7	5.7	89.53	0.7	90.5	90.5	79.8	10.68	8.472		
1,900.0	1,900.0	1,900.0	1,900.0	5.9	5.9	89.53	0.7	90.5	90.5	79.5	11.02	8.212		
1,995.0	1,995.0	1,995.0	1,995.0	6.1	6.1	89.53	0.7	90.5	90.5	79.1	11.36	7.965		
2,000.0	2,000.0	2,000.0	2,000.0	6.1	6.1	89.53	0.7	90.5	90.5	79.1	11.38	7.952 CC, ES		
2,090.0	2,090.0	2,087.2	2,087.2	6.3	6.2	89.52	0.8	91.8	91.9	80.1	11.73	7.833		
2,100.0	2,100.0	2,096.9	2,096.9	6.3	6.2	89.52	0.8	92.1	92.2	80.4	11.77	7.834		
2,185.0	2,185.0	2,179.1	2,179.0	6.5	6.3	89.50	0.8	96.1	96.3	84.2	12.09	7.961		
2,200.0	2,200.0	2,193.6	2,193.4	6.5	6.3	89.50	0.8	97.0	97.2	85.1	12.15	8.004		
2,280.0	2,280.0	2,270.6	2,270.2	6.7	6.4	89.48	0.9	103.3	103.7	91.3	12.46	8.324		
2,300.0	2,300.0	2,289.8	2,289.3	6.7	6.5	89.47	1.0	105.1	105.7	93.1	12.54	8.428		
2,375.0	2,375.0	2,361.6	2,360.6	6.9	6.5	89.45	1.1	113.3	114.2	101.3	12.84	8.895		
2,400.0	2,400.0	2,385.4	2,384.2	6.9	6.6	89.44	1.1	116.4	117.4	104.5	12.94	9.078		
2,470.0	2,470.0	2,454.1	2,452.3	7.1	6.7	89.42	1.3	125.9	127.1	113.9	13.21	9.624		
2,500.0	2,500.0	2,483.8	2,481.7	7.2	6.8	89.41	1.3	130.0	131.3	118.0	13.33	9.852		
2,565.0	2,565.0	2,548.1	2,545.4	7.2	6.9	179.36	1.5	139.0	141.1	127.5	13.60	10.371		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,600.0	2,600.0	2,582.6	2,579.5	7.3	7.0	179.35	1.5	143.8	147.0	133.2	13.76	10.683	
2,660.0	2,659.9	2,641.6	2,637.9	7.4	7.2	179.35	1.7	152.0	158.0	144.0	14.01	11.273	
2,700.0	2,699.8	2,680.8	2,676.7	7.4	7.3	179.35	1.7	157.4	166.0	151.8	14.19	11.702	
2,755.0	2,754.7	2,734.4	2,729.9	7.4	7.4	179.35	1.8	164.9	178.0	163.5	14.44	12.324	
2,800.0	2,799.5	2,778.2	2,773.2	7.5	7.5	179.36	1.9	171.0	188.5	173.9	14.65	12.868	
2,850.0	2,849.1	2,826.6	2,821.2	7.5	7.6	179.36	2.0	177.7	201.0	186.1	14.89	13.498	
2,900.0	2,898.7	2,874.8	2,868.9	7.6	7.8	179.37	2.1	184.4	214.4	199.3	15.14	14.160	
2,945.0	2,943.2	2,917.9	2,911.6	7.6	7.9	179.38	2.2	190.4	227.1	211.8	15.33	14.821	
2,950.0	2,948.2	2,922.7	2,916.3	7.6	7.9	179.38	2.2	191.1	228.6	213.3	15.35	14.896	
3,000.0	2,997.5	2,970.5	2,963.7	7.6	8.0	179.39	2.3	197.8	243.2	227.7	15.55	15.637	
3,040.0	3,037.0	3,008.8	3,001.6	7.7	8.1	179.40	2.4	203.1	254.9	239.2	15.75	16.187	
3,100.0	3,096.3	3,066.2	3,058.4	7.8	8.3	179.41	2.5	211.1	272.5	256.4	16.04	16.986	
3,135.0	3,130.9	3,099.6	3,091.5	7.9	8.4	179.42	2.6	215.7	282.7	266.5	16.22	17.430	
3,200.0	3,195.1	3,161.8	3,153.1	8.0	8.6	179.43	2.7	224.4	301.7	285.1	16.56	18.223	
3,230.0	3,224.7	3,190.5	3,181.5	8.1	8.7	179.43	2.8	228.4	310.5	293.7	16.72	18.572	
3,300.0	3,293.8	3,257.4	3,247.8	8.3	8.9	179.44	2.9	237.7	330.9	313.8	17.10	19.355	
3,325.0	3,318.5	3,281.3	3,271.5	8.3	9.0	179.45	3.0	241.0	338.2	321.0	17.24	19.621	
3,400.0	3,392.6	3,353.1	3,342.5	8.5	9.2	179.45	3.1	251.0	360.2	342.5	17.67	20.389	
3,420.0	3,412.4	3,372.2	3,361.4	8.6	9.3	179.46	3.1	253.6	366.0	348.2	17.78	20.583	
3,500.0	3,491.4	3,448.7	3,437.2	8.8	9.6	179.46	3.3	264.3	389.4	371.1	18.25	21.332	
3,515.0	3,506.2	3,463.0	3,451.4	8.8	9.6	179.47	3.3	266.3	393.8	375.4	18.34	21.466	
3,600.0	3,590.1	3,544.3	3,531.9	9.1	9.9	179.47	3.5	277.6	418.6	399.8	18.86	22.194	
3,610.0	3,600.0	3,553.9	3,541.4	9.1	9.9	179.47	3.5	278.9	421.6	402.6	18.93	22.275	
3,700.0	3,688.9	3,640.0	3,626.6	9.4	10.2	179.48	3.7	290.9	447.9	428.4	19.49	22.979	
3,705.0	3,693.9	3,644.7	3,631.3	9.4	10.2	179.48	3.7	291.6	449.3	429.8	19.52	23.016	
3,800.0	3,787.7	3,735.6	3,721.3	9.7	10.6	179.49	3.9	304.2	477.1	457.0	20.13	23.696	
3,895.0	3,881.5	3,826.4	3,811.3	10.0	10.9	179.49	4.1	316.9	504.9	484.1	20.76	24.319	
3,900.0	3,886.5	3,831.2	3,816.0	10.0	10.9	179.49	4.1	317.5	506.3	485.6	20.79	24.351	
3,990.0	3,975.3	3,917.3	3,901.2	10.3	11.2	179.50	4.3	329.5	532.7	511.3	21.40	24.892	
4,000.0	3,985.2	3,926.8	3,910.7	10.3	11.2	179.50	4.3	330.8	535.6	514.1	21.47	24.950	
4,085.0	4,069.2	4,008.1	3,991.2	10.6	11.5	179.50	4.4	342.1	560.4	538.4	22.05	25.418	
4,100.0	4,084.0	4,022.5	4,005.4	10.7	11.6	179.50	4.5	344.1	564.8	542.7	22.15	25.497	
4,180.0	4,163.0	4,099.0	4,081.1	11.0	11.9	179.50	4.6	354.8	588.2	565.5	22.71	25.902	
4,200.0	4,182.8	4,118.1	4,100.1	11.0	12.0	179.50	4.7	357.4	594.1	571.2	22.85	25.999	
4,275.0	4,256.8	4,189.8	4,171.1	11.3	12.2	179.51	4.8	367.4	616.0	592.6	23.38	26.348	
4,300.0	4,281.5	4,213.7	4,194.8	11.4	12.3	179.51	4.9	370.8	623.3	599.7	23.56	26.460	
4,370.0	4,350.7	4,280.7	4,261.1	11.6	12.6	179.51	5.0	380.1	643.8	619.7	24.06	26.759	
4,400.0	4,380.3	4,309.4	4,289.5	11.7	12.7	179.51	5.1	384.1	652.5	628.3	24.27	26.883	
4,465.0	4,444.5	4,371.5	4,351.0	12.0	12.9	179.51	5.2	392.7	671.5	646.8	24.74	27.140	
4,500.0	4,479.1	4,405.0	4,384.2	12.1	13.1	179.51	5.2	397.4	681.8	656.8	25.00	27.273	
4,560.0	4,538.3	4,462.4	4,441.0	12.3	13.3	179.52	5.4	405.4	699.3	673.9	25.44	27.491	
4,600.0	4,577.8	4,500.6	4,478.9	12.5	13.4	179.52	5.4	410.7	711.0	685.3	25.73	27.632	
4,655.0	4,632.2	4,553.2	4,531.0	12.7	13.6	179.52	5.6	418.0	727.1	700.9	26.14	27.817	
4,700.0	4,676.6	4,596.3	4,573.6	12.8	13.8	179.52	5.6	424.0	740.2	713.8	26.47	27.964	
4,750.0	4,726.0	4,644.1	4,620.9	13.0	14.0	179.52	5.7	430.6	754.9	728.0	26.84	28.119	
4,800.0	4,775.4	4,691.9	4,668.3	13.2	14.2	179.52	5.8	437.3	769.5	742.3	27.22	28.270	
4,845.0	4,819.8	4,734.9	4,710.9	13.4	14.3	179.52	5.9	443.3	782.6	755.1	27.56	28.400	
4,900.0	4,874.1	4,787.5	4,763.0	13.6	14.5	179.52	6.0	450.6	798.7	770.7	27.97	28.554	
4,940.0	4,913.7	4,825.8	4,800.9	13.8	14.7	179.52	6.1	455.9	810.4	782.1	28.28	28.661	
5,000.0	4,972.9	4,883.2	4,857.7	14.0	14.9	179.53	6.2	463.9	827.9	799.2	28.73	28.817	
5,035.0	5,007.5	4,916.6	4,890.8	14.1	15.1	179.53	6.3	468.6	838.2	809.2	29.00	28.905	
5,100.0	5,071.7	4,978.8	4,952.4	14.4	15.3	179.53	6.4	477.2	857.2	827.7	29.50	29.062	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,130.0	5,101.3	5,007.5	4,980.8	14.5	15.4	179.53	6.5	481.2	866.0	836.2	29.73	29.132		
5,200.0	5,170.5	5,074.4	5,047.1	14.8	15.7	179.53	6.6	490.5	886.4	856.2	30.26	29.289		
5,225.0	5,195.1	5,098.3	5,070.8	14.9	15.8	179.53	6.7	493.9	893.7	863.3	30.46	29.344		
5,300.0	5,269.2	5,170.0	5,141.8	15.2	16.1	179.53	6.8	503.8	915.7	884.6	31.04	29.501		
5,320.0	5,289.0	5,189.2	5,160.7	15.3	16.2	179.53	6.8	506.5	921.5	890.3	31.19	29.542		
5,400.0	5,368.0	5,265.7	5,236.5	15.6	16.5	179.53	7.0	517.1	944.9	913.1	31.82	29.699		
5,415.0	5,382.8	5,280.0	5,250.7	15.6	16.5	179.53	7.0	519.1	949.3	917.3	31.93	29.728		
5,500.0	5,466.8	5,361.3	5,331.2	16.0	16.9	179.53	7.2	530.4	974.1	941.5	32.60	29.884		
5,510.0	5,476.6	5,370.9	5,340.7	16.0	16.9	179.53	7.2	531.8	977.1	944.4	32.68	29.902		
5,600.0	5,565.5	5,460.4	5,429.3	16.4	17.2	179.54	7.4	544.2	1,003.3	969.9	33.40	30.043		
5,605.0	5,570.5	5,465.7	5,434.5	16.4	17.3	179.54	7.4	544.9	1,004.7	971.3	33.44	30.048		
5,700.0	5,664.3	5,565.6	5,533.6	16.8	17.7	179.54	7.6	558.0	1,031.8	997.5	34.24	30.129		
5,795.0	5,758.1	5,666.1	5,633.4	17.2	18.1	179.54	7.8	570.3	1,058.0	1,022.9	35.05	30.181		
5,800.0	5,763.1	5,671.4	5,638.6	17.2	18.1	179.54	7.8	570.9	1,059.3	1,024.3	35.10	30.183		
5,890.0	5,852.0	5,767.1	5,733.7	17.6	18.5	179.54	8.0	581.7	1,083.4	1,047.5	35.86	30.210		
5,900.0	5,861.8	5,777.7	5,744.3	17.6	18.5	179.54	8.0	582.9	1,086.0	1,050.1	35.95	30.212		
5,985.0	5,945.8	5,868.5	5,834.6	18.0	18.8	179.54	8.1	592.4	1,108.0	1,071.4	36.67	30.219		
5,999.4	5,960.0	5,883.9	5,849.9	18.0	18.9	179.54	8.1	593.9	1,111.7	1,074.9	36.79	30.219		
6,080.0	6,039.7	5,970.6	5,936.2	18.3	19.2	179.55	8.3	602.1	1,131.3	1,093.8	37.46	30.197		
6,100.0	6,059.5	5,992.2	5,957.7	18.4	19.3	179.55	8.3	604.1	1,135.9	1,098.2	37.63	30.185		
6,175.0	6,133.8	6,073.5	6,038.7	18.7	19.6	179.55	8.4	611.1	1,152.2	1,113.9	38.25	30.124		
6,200.0	6,158.6	6,100.7	6,065.8	18.8	19.7	179.55	8.4	613.3	1,157.3	1,118.8	38.45	30.096		
6,270.0	6,228.2	6,177.2	6,142.1	19.1	20.0	179.56	8.5	619.2	1,170.7	1,131.7	39.02	30.006		
6,300.0	6,258.0	6,210.1	6,174.9	19.2	20.1	179.56	8.5	621.6	1,176.1	1,136.8	39.26	29.958		
6,365.0	6,322.7	6,281.6	6,246.2	19.5	20.4	179.56	8.6	626.4	1,186.8	1,147.1	39.77	29.846		
6,400.0	6,357.5	6,320.2	6,284.7	19.6	20.5	179.56	8.6	628.8	1,192.2	1,152.1	40.04	29.776		
6,460.0	6,417.3	6,386.5	6,350.9	19.8	20.7	179.56	8.7	632.7	1,200.5	1,160.1	40.49	29.649		
6,500.0	6,457.2	6,430.8	6,395.2	20.0	20.9	179.56	8.7	635.0	1,205.6	1,164.8	40.79	29.555		
6,555.0	6,512.1	6,491.9	6,456.2	20.1	21.1	179.56	8.8	638.0	1,211.8	1,170.6	41.19	29.421		
6,600.0	6,557.0	6,542.0	6,506.3	20.3	21.3	179.56	8.8	640.2	1,216.3	1,174.8	41.51	29.302		
6,650.0	6,607.0	6,597.7	6,561.9	20.5	21.4	179.56	8.8	642.4	1,220.7	1,178.8	41.85	29.166		
6,700.0	6,657.0	6,653.6	6,617.7	20.6	21.6	179.56	8.9	644.3	1,224.4	1,182.2	42.19	29.022		
6,745.0	6,701.9	6,703.9	6,668.0	20.7	21.8	179.56	8.9	645.8	1,227.1	1,184.6	42.47	28.892		
6,800.0	6,756.9	6,765.4	6,729.5	20.9	21.9	179.56	8.9	647.4	1,229.7	1,186.9	42.81	28.727		
6,840.0	6,796.9	6,810.2	6,774.3	21.0	22.0	179.56	8.9	648.3	1,231.1	1,188.1	42.99	28.634		
6,899.4	6,856.3	6,876.7	6,840.8	21.0	22.2	89.60	8.9	649.3	1,232.3	1,189.0	43.26	28.488		
6,935.0	6,891.9	6,916.6	6,880.7	21.1	22.3	89.60	8.9	649.7	1,232.7	1,189.3	43.36	28.426		
7,000.0	6,956.9	6,989.4	6,953.5	21.1	22.5	89.60	9.0	650.2	1,233.1	1,189.5	43.54	28.321		
7,030.0	6,986.9	7,022.8	6,986.9	21.1	22.5	89.60	9.0	650.2	1,233.1	1,189.5	43.59	28.290		
7,100.0	7,056.9	7,092.8	7,056.9	21.1	22.5	89.60	9.0	650.2	1,233.1	1,189.5	43.63	28.264		
7,125.0	7,081.9	7,117.8	7,081.9	21.1	22.5	89.60	9.0	650.2	1,233.1	1,189.4	43.64	28.253		
7,200.0	7,156.9	7,192.8	7,156.9	21.2	22.5	89.60	9.0	650.2	1,233.1	1,189.4	43.70	28.220		
7,220.0	7,176.9	7,212.8	7,176.9	21.2	22.6	89.60	9.0	650.2	1,233.1	1,189.4	43.71	28.211		
7,300.0	7,256.9	7,292.8	7,256.9	21.2	22.6	89.60	9.0	650.2	1,233.1	1,189.3	43.76	28.175		
7,315.0	7,271.9	7,307.8	7,271.9	21.2	22.6	89.60	9.0	650.2	1,233.1	1,189.3	43.78	28.169		
7,400.0	7,356.9	7,392.8	7,356.9	21.2	22.6	89.60	9.0	650.2	1,233.1	1,189.3	43.83	28.131		
7,410.0	7,366.9	7,402.8	7,366.9	21.2	22.6	89.60	9.0	650.2	1,233.1	1,189.2	43.84	28.126		
7,500.0	7,456.9	7,492.8	7,456.9	21.3	22.7	89.60	9.0	650.2	1,233.1	1,189.2	43.90	28.086		
7,505.0	7,461.9	7,497.8	7,461.9	21.3	22.7	89.60	9.0	650.2	1,233.1	1,189.2	43.91	28.084		
7,600.0	7,556.9	7,592.8	7,556.9	21.3	22.7	89.60	9.0	650.2	1,233.1	1,189.1	43.97	28.041		
7,695.0	7,651.9	7,687.8	7,651.9	21.3	22.7	89.60	9.0	650.2	1,233.1	1,189.0	44.04	27.998		
7,700.0	7,656.9	7,692.8	7,656.9	21.3	22.7	89.60	9.0	650.2	1,233.1	1,189.0	44.05	27.996		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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
7,790.0	7,746.9	7,782.8	7,746.9	21.4	22.7	89.60	9.0	650.2	1,233.1	1,189.0	44.11	27.955	
7,800.0	7,756.9	7,792.8	7,756.9	21.4	22.8	89.60	9.0	650.2	1,233.1	1,189.0	44.12	27.951	
7,885.0	7,841.9	7,877.8	7,841.9	21.4	22.8	89.60	9.0	650.2	1,233.1	1,188.9	44.18	27.912	
7,900.0	7,856.9	7,892.8	7,856.9	21.4	22.8	89.60	9.0	650.2	1,233.1	1,188.9	44.19	27.905	
7,980.0	7,936.9	7,972.8	7,936.9	21.4	22.8	89.60	9.0	650.2	1,233.1	1,188.8	44.25	27.869	
8,000.0	7,956.9	7,992.8	7,956.9	21.4	22.8	89.60	9.0	650.2	1,233.1	1,188.8	44.26	27.860	
8,075.0	8,031.9	8,067.8	8,031.9	21.5	22.8	89.60	9.0	650.2	1,233.1	1,188.8	44.32	27.825	
8,100.0	8,056.9	8,092.8	8,056.9	21.5	22.9	89.60	9.0	650.2	1,233.1	1,188.8	44.33	27.814	
8,170.0	8,126.9	8,162.8	8,126.9	21.5	22.9	89.60	9.0	650.2	1,233.1	1,188.7	44.39	27.782	
8,200.0	8,156.9	8,192.8	8,156.9	21.5	22.9	89.60	9.0	650.2	1,233.1	1,188.7	44.41	27.768	
8,265.0	8,221.9	8,257.8	8,221.9	21.5	22.9	89.60	9.0	650.2	1,233.1	1,188.6	44.46	27.738	
8,300.0	8,256.9	8,292.8	8,256.9	21.6	22.9	89.60	9.0	650.2	1,233.1	1,188.6	44.48	27.722	
8,360.0	8,316.9	8,352.8	8,316.9	21.6	23.0	89.60	9.0	650.2	1,233.1	1,188.6	44.53	27.694	
8,400.0	8,356.9	8,392.8	8,356.9	21.6	23.0	89.60	9.0	650.2	1,233.1	1,188.5	44.56	27.676	
8,455.0	8,411.9	8,447.8	8,411.9	21.6	23.0	89.60	9.0	650.2	1,233.1	1,188.5	44.60	27.650	
8,500.0	8,456.9	8,492.8	8,456.9	21.6	23.0	89.60	9.0	650.2	1,233.1	1,188.5	44.63	27.629	
8,550.0	8,506.9	8,542.8	8,506.9	21.7	23.0	89.60	9.0	650.2	1,233.1	1,188.4	44.67	27.606	
8,600.0	8,556.9	8,592.8	8,556.9	21.7	23.0	89.60	9.0	650.2	1,233.1	1,188.4	44.71	27.583	
8,645.0	8,601.9	8,637.8	8,601.9	21.7	23.1	89.60	9.0	650.2	1,233.1	1,188.4	44.74	27.562	
8,700.0	8,656.9	8,692.8	8,656.9	21.7	23.1	89.60	9.0	650.2	1,233.1	1,188.3	44.78	27.536	
8,740.0	8,696.9	8,732.8	8,696.9	21.7	23.1	89.60	9.0	650.2	1,233.1	1,188.3	44.81	27.517	
8,800.0	8,756.9	8,792.8	8,756.9	21.8	23.1	89.60	9.0	650.2	1,233.1	1,188.2	44.86	27.489	
8,835.0	8,791.9	8,827.8	8,791.9	21.8	23.1	89.60	9.0	650.2	1,233.1	1,188.2	44.88	27.473	
8,900.0	8,856.9	8,892.8	8,856.9	21.8	23.1	89.60	9.0	650.2	1,233.1	1,188.2	44.93	27.442	
8,930.0	8,886.9	8,922.8	8,886.9	21.8	23.2	89.60	9.0	650.2	1,233.1	1,188.1	44.96	27.428	
9,000.0	8,956.9	8,992.8	8,956.9	21.8	23.2	89.60	9.0	650.2	1,233.1	1,188.1	45.01	27.395	
9,025.0	8,981.9	9,017.8	8,981.9	21.8	23.2	89.60	9.0	650.2	1,233.1	1,188.1	45.03	27.384	
9,100.0	9,056.9	9,092.8	9,056.9	21.9	23.2	89.60	9.0	650.2	1,233.1	1,188.0	45.09	27.348	
9,120.0	9,076.9	9,112.8	9,076.9	21.9	23.2	89.60	9.0	650.2	1,233.1	1,188.0	45.10	27.339	
9,200.0	9,156.9	9,192.8	9,156.9	21.9	23.3	89.60	9.0	650.2	1,233.1	1,187.9	45.17	27.301	
9,215.0	9,171.9	9,207.8	9,171.9	21.9	23.3	89.60	9.0	650.2	1,233.1	1,187.9	45.18	27.294	
9,300.0	9,256.9	9,292.8	9,256.9	22.0	23.3	89.60	9.0	650.2	1,233.1	1,187.8	45.24	27.254	
9,310.0	9,266.9	9,302.8	9,266.9	22.0	23.3	89.60	9.0	650.2	1,233.1	1,187.8	45.25	27.249	
9,400.0	9,356.9	9,392.8	9,356.9	22.0	23.3	89.60	9.0	650.2	1,233.1	1,187.8	45.32	27.206	
9,405.0	9,361.9	9,397.8	9,361.9	22.0	23.3	89.60	9.0	650.2	1,233.1	1,187.8	45.33	27.204	
9,500.0	9,456.9	9,492.8	9,456.9	22.0	23.4	89.60	9.0	650.2	1,233.1	1,187.7	45.40	27.159	
9,595.0	9,551.9	9,587.8	9,551.9	22.1	23.4	89.60	9.0	650.2	1,233.1	1,187.6	45.48	27.114	
9,600.0	9,556.9	9,592.8	9,556.9	22.1	23.4	89.60	9.0	650.2	1,233.1	1,187.6	45.48	27.111	
9,690.0	9,646.9	9,682.8	9,646.9	22.1	23.4	89.60	9.0	650.2	1,233.1	1,187.5	45.55	27.068	
9,700.0	9,656.9	9,692.8	9,656.9	22.1	23.5	89.60	9.0	650.2	1,233.1	1,187.5	45.56	27.063	
9,785.0	9,741.9	9,777.8	9,741.9	22.2	23.5	89.60	9.0	650.2	1,233.1	1,187.5	45.63	27.023	
9,800.0	9,756.9	9,792.8	9,756.9	22.2	23.5	89.60	9.0	650.2	1,233.1	1,187.4	45.64	27.016	
9,880.0	9,836.9	9,872.8	9,836.9	22.2	23.5	89.60	9.0	650.2	1,233.1	1,187.4	45.71	26.977	
9,900.0	9,856.9	9,892.8	9,856.9	22.2	23.5	89.60	9.0	650.2	1,233.1	1,187.4	45.72	26.968	
9,975.0	9,931.9	9,967.8	9,931.9	22.2	23.6	89.60	9.0	650.2	1,233.1	1,187.3	45.79	26.932	
10,000.0	9,956.9	9,992.8	9,956.9	22.2	23.6	89.60	9.0	650.2	1,233.1	1,187.3	45.81	26.920	
10,070.0	10,026.9	10,062.8	10,026.9	22.3	23.6	89.60	9.0	650.2	1,233.1	1,187.2	45.86	26.886	
10,100.0	10,056.9	10,092.8	10,056.9	22.3	23.6	89.60	9.0	650.2	1,233.1	1,187.2	45.89	26.871	
10,165.0	10,121.9	10,157.8	10,121.9	22.3	23.6	89.60	9.0	650.2	1,233.1	1,187.1	45.94	26.840	
10,200.0	10,156.9	10,192.8	10,156.9	22.3	23.6	89.60	9.0	650.2	1,233.1	1,187.1	45.97	26.823	
10,260.0	10,216.9	10,252.8	10,216.9	22.4	23.7	89.60	9.0	650.2	1,233.1	1,187.1	46.02	26.794	
10,300.0	10,256.9	10,292.8	10,256.9	22.4	23.7	89.60	9.0	650.2	1,233.1	1,187.0	46.05	26.775	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	Highside	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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,355.0	10,311.9	10,347.8	10,311.9	22.4	23.7	89.60	9.0	650.2	1,233.1	1,187.0	46.10	26.748	
10,400.0	10,356.9	10,392.8	10,356.9	22.4	23.7	89.60	9.0	650.2	1,233.1	1,187.0	46.14	26.727	
10,450.0	10,406.9	10,442.8	10,406.9	22.4	23.7	89.60	9.0	650.2	1,233.1	1,186.9	46.18	26.703	
10,500.0	10,456.9	10,492.8	10,456.9	22.5	23.8	89.60	9.0	650.2	1,233.1	1,186.9	46.22	26.678	
10,545.0	10,501.9	10,537.8	10,501.9	22.5	23.8	89.60	9.0	650.2	1,233.1	1,186.8	46.26	26.656	
10,600.0	10,556.9	10,592.8	10,556.9	22.5	23.8	89.60	9.0	650.2	1,233.1	1,186.8	46.30	26.630	
10,640.0	10,596.9	10,632.8	10,596.9	22.5	23.8	89.60	9.0	650.2	1,233.1	1,186.8	46.34	26.610	
10,700.0	10,656.9	10,692.8	10,656.9	22.5	23.9	89.60	9.0	650.2	1,233.1	1,186.7	46.39	26.581	
10,735.0	10,691.9	10,727.8	10,691.9	22.6	23.9	89.60	9.0	650.2	1,233.1	1,186.7	46.42	26.564	
10,800.0	10,756.9	10,792.8	10,756.9	22.6	23.9	89.60	9.0	650.2	1,233.1	1,186.6	46.47	26.533	
10,830.0	10,786.9	10,822.8	10,786.9	22.6	23.9	89.60	9.0	650.2	1,233.1	1,186.6	46.50	26.518	
10,900.0	10,856.9	10,892.8	10,856.9	22.6	23.9	89.60	9.0	650.2	1,233.1	1,186.5	46.56	26.484	
10,925.0	10,881.9	10,917.8	10,881.9	22.6	23.9	89.60	9.0	650.2	1,233.1	1,186.5	46.58	26.472	
11,000.0	10,956.9	10,992.8	10,956.9	22.7	24.0	89.60	9.0	650.2	1,233.1	1,186.4	46.65	26.435	
11,019.6	10,976.5	11,012.4	10,976.5	22.7	24.0	89.60	9.0	650.2	1,233.1	1,186.4	46.66	26.429	
11,020.0	10,976.9	11,012.8	10,976.9	22.7	24.0	90.12	9.0	650.2	1,233.1	1,186.4	46.66	26.429	
11,025.0	10,981.9	11,017.8	10,981.9	22.7	24.0	90.12	9.0	650.2	1,233.1	1,186.4	46.66	26.427	
11,050.0	11,006.9	11,042.8	11,006.9	22.7	24.0	90.17	9.0	650.2	1,233.1	1,186.4	46.67	26.421	
11,075.0	11,031.8	11,067.7	11,031.8	22.7	24.0	90.27	9.0	650.2	1,233.1	1,186.4	46.68	26.414	
11,100.0	11,056.5	11,092.4	11,056.5	22.7	24.0	90.43	9.0	650.2	1,233.1	1,186.4	46.69	26.408	
11,115.0	11,071.3	11,107.2	11,071.3	22.7	24.0	90.55	9.0	650.2	1,233.1	1,186.4	46.70	26.405	
11,125.0	11,081.1	11,116.9	11,081.1	22.7	24.0	90.64	9.0	650.2	1,233.2	1,186.5	46.70	26.404	
11,150.0	11,105.3	11,141.2	11,105.3	22.7	24.0	90.91	9.0	650.2	1,233.3	1,186.5	46.71	26.402	
11,175.0	11,129.2	11,165.1	11,129.2	22.7	24.0	91.22	9.0	650.2	1,233.4	1,186.7	46.72	26.402	
11,200.0	11,152.7	11,189.0	11,152.7	22.7	24.0	91.57	9.0	650.2	1,233.6	1,186.9	46.72	26.406	
11,210.0	11,161.9	11,199.2	11,163.3	22.7	24.0	91.73	9.3	650.2	1,233.7	1,187.0	46.72	26.408	
11,225.0	11,175.6	11,214.6	11,178.7	22.7	24.0	91.96	10.0	650.2	1,233.9	1,187.2	46.72	26.413	
11,250.0	11,198.1	11,240.7	11,204.7	22.7	24.0	92.35	12.5	650.2	1,234.3	1,187.6	46.71	26.423	
11,275.0	11,219.9	11,267.4	11,231.0	22.7	24.0	92.73	16.5	650.2	1,234.7	1,188.0	46.71	26.434	
11,300.0	11,241.1	11,294.6	11,257.7	22.7	24.1	93.11	22.1	650.1	1,235.2	1,188.5	46.70	26.447	
11,305.0	11,245.2	11,300.2	11,263.1	22.7	24.1	93.19	23.4	650.1	1,235.3	1,188.6	46.70	26.449	
11,325.0	11,261.5	11,322.6	11,284.7	22.7	24.1	93.49	29.4	650.0	1,235.7	1,189.0	46.70	26.460	
11,350.0	11,281.2	11,351.2	11,311.8	22.7	24.1	93.87	38.5	650.0	1,236.3	1,189.6	46.70	26.473	
11,375.0	11,300.0	11,380.5	11,338.9	22.7	24.1	94.24	49.4	649.9	1,236.9	1,190.2	46.70	26.487	
11,400.0	11,317.9	11,410.5	11,366.0	22.7	24.1	94.60	62.4	649.7	1,237.5	1,190.8	46.70	26.499	
11,425.0	11,334.9	11,441.3	11,392.9	22.7	24.1	94.96	77.4	649.6	1,238.2	1,191.5	46.71	26.511	
11,450.0	11,351.0	11,472.8	11,419.4	22.7	24.1	95.31	94.6	649.4	1,238.9	1,192.2	46.72	26.520	
11,475.0	11,365.9	11,505.2	11,445.2	22.7	24.1	95.64	113.9	649.3	1,239.6	1,192.8	46.73	26.526	
11,495.0	11,377.2	11,531.6	11,465.4	22.8	24.1	95.90	131.0	649.1	1,240.1	1,193.4	46.75	26.529	
11,500.0	11,379.9	11,538.3	11,470.3	22.8	24.1	95.97	135.5	649.1	1,240.3	1,193.5	46.75	26.530	
11,525.0	11,392.7	11,572.2	11,494.4	22.8	24.1	96.27	159.4	648.8	1,241.0	1,194.2	46.78	26.529	
11,550.0	11,404.4	11,606.9	11,517.2	22.8	24.1	96.56	185.5	648.6	1,241.6	1,194.8	46.81	26.524	
11,575.0	11,414.9	11,642.3	11,538.5	22.8	24.1	96.83	213.8	648.4	1,242.2	1,195.4	46.85	26.515	
11,590.0	11,420.6	11,663.9	11,550.5	22.8	24.1	96.97	231.8	648.2	1,242.6	1,195.7	46.88	26.507	
11,600.0	11,424.2	11,678.4	11,558.0	22.8	24.1	97.07	244.2	648.1	1,242.8	1,195.9	46.90	26.501	
11,625.0	11,432.3	11,715.2	11,575.4	22.8	24.1	97.28	276.6	647.8	1,243.3	1,196.4	46.95	26.482	
11,650.0	11,439.1	11,752.6	11,590.5	22.9	24.2	97.46	310.8	647.5	1,243.8	1,196.8	47.01	26.459	
11,675.0	11,444.7	11,790.5	11,603.1	22.9	24.2	97.61	346.6	647.1	1,244.2	1,197.1	47.07	26.431	
11,685.0	11,446.5	11,805.8	11,607.3	22.9	24.2	97.67	361.2	647.0	1,244.3	1,197.2	47.10	26.419	
11,700.0	11,448.9	11,828.8	11,612.8	22.9	24.2	97.73	383.6	646.8	1,244.4	1,197.3	47.14	26.399	
11,725.0	11,451.9	11,867.3	11,619.6	22.9	24.3	97.81	421.5	646.5	1,244.6	1,197.4	47.21	26.363	
11,750.0	11,453.6	11,906.1	11,623.3	23.0	24.3	97.85	460.1	646.1	1,244.7	1,197.4	47.28	26.324	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	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
11,769.6	11,454.0	11,935.1	11,624.0	23.0	24.3	97.85	489.1	645.8	1,244.7	1,197.4	47.34	26.293	
11,780.0	11,454.0	11,945.5	11,624.0	23.0	24.3	97.85	499.5	645.8	1,244.7	1,197.4	47.37	26.279	
11,800.0	11,454.0	11,965.5	11,624.0	23.0	24.4	97.85	519.5	645.6	1,244.7	1,197.3	47.42	26.252	
11,875.0	11,454.0	12,040.5	11,624.0	23.1	24.5	97.85	594.5	644.9	1,244.7	1,197.1	47.63	26.132	
11,900.0	11,454.0	12,065.5	11,624.0	23.2	24.5	97.85	619.4	644.7	1,244.7	1,197.0	47.71	26.091	
11,970.0	11,454.0	12,135.5	11,624.0	23.3	24.6	97.85	689.4	644.0	1,244.7	1,196.8	47.94	25.963	
12,000.0	11,454.0	12,165.5	11,624.0	23.3	24.7	97.85	719.4	643.8	1,244.7	1,196.7	48.05	25.907	
12,065.0	11,454.0	12,230.5	11,624.0	23.5	24.8	97.85	784.4	643.2	1,244.7	1,196.4	48.29	25.774	
12,100.0	11,454.0	12,265.5	11,624.0	23.5	24.9	97.85	819.4	642.8	1,244.7	1,196.3	48.43	25.701	
12,160.0	11,454.0	12,325.5	11,624.0	23.7	25.0	97.85	879.4	642.3	1,244.7	1,196.0	48.69	25.566	
12,200.0	11,454.0	12,365.5	11,624.0	23.8	25.1	97.85	919.4	641.9	1,244.7	1,195.9	48.86	25.474	
12,255.0	11,454.0	12,420.5	11,624.0	23.9	25.2	97.85	974.4	641.4	1,244.7	1,195.6	49.12	25.341	
12,300.0	11,454.0	12,465.5	11,624.0	24.0	25.3	97.85	1,019.4	641.0	1,244.7	1,195.4	49.34	25.230	
12,350.0	11,454.0	12,515.5	11,624.0	24.2	25.4	97.85	1,069.4	640.6	1,244.7	1,195.1	49.59	25.100	
12,400.0	11,454.0	12,565.5	11,624.0	24.3	25.6	97.85	1,119.4	640.1	1,244.7	1,194.9	49.85	24.969	
12,445.0	11,454.0	12,610.5	11,624.0	24.4	25.7	97.85	1,164.4	639.7	1,244.7	1,194.6	50.10	24.846	
12,500.0	11,454.0	12,665.5	11,624.0	24.6	25.8	97.85	1,219.4	639.2	1,244.7	1,194.3	50.41	24.693	
12,540.0	11,454.0	12,705.5	11,624.0	24.7	25.9	97.85	1,259.4	638.8	1,244.7	1,194.1	50.64	24.578	
12,600.0	11,454.0	12,765.5	11,624.0	24.9	26.1	97.85	1,319.4	638.3	1,244.7	1,193.7	51.00	24.404	
12,635.0	11,454.0	12,800.5	11,624.0	25.0	26.2	97.85	1,354.4	638.0	1,244.7	1,193.5	51.22	24.300	
12,700.0	11,454.0	12,865.5	11,624.0	25.2	26.4	97.85	1,419.4	637.4	1,244.7	1,193.1	51.64	24.104	
12,730.0	11,454.0	12,895.5	11,624.0	25.3	26.5	97.85	1,449.4	637.1	1,244.7	1,192.9	51.84	24.012	
12,800.0	11,454.0	12,965.5	11,624.0	25.6	26.8	97.85	1,519.4	636.5	1,244.7	1,192.4	52.31	23.794	
12,825.0	11,454.0	12,990.5	11,624.0	25.6	26.9	97.85	1,544.4	636.2	1,244.7	1,192.2	52.49	23.715	
12,900.0	11,454.0	13,065.5	11,624.0	25.9	27.1	97.85	1,619.4	635.6	1,244.7	1,191.7	53.02	23.477	
12,920.0	11,454.0	13,085.5	11,624.0	26.0	27.2	97.85	1,639.4	635.4	1,244.7	1,191.5	53.17	23.412	
13,000.0	11,454.0	13,165.5	11,624.0	26.3	27.5	97.85	1,719.4	634.6	1,244.7	1,190.9	53.76	23.153	
13,015.0	11,454.0	13,180.5	11,624.0	26.4	27.5	97.85	1,734.4	634.5	1,244.7	1,190.8	53.88	23.103	
13,100.0	11,454.0	13,265.5	11,624.0	26.7	27.9	97.85	1,819.4	633.7	1,244.7	1,190.2	54.53	22.824	
13,110.0	11,454.0	13,275.5	11,624.0	26.7	27.9	97.85	1,829.4	633.6	1,244.7	1,190.1	54.61	22.791	
13,200.0	11,454.0	13,365.5	11,624.0	27.1	28.3	97.85	1,919.4	632.8	1,244.7	1,189.4	55.34	22.492	
13,205.0	11,454.0	13,370.5	11,624.0	27.1	28.3	97.85	1,924.4	632.8	1,244.7	1,189.3	55.38	22.475	
13,300.0	11,454.0	13,465.5	11,624.0	27.5	28.7	97.85	2,019.4	631.9	1,244.7	1,188.5	56.18	22.157	
13,395.0	11,454.0	13,560.5	11,624.0	28.0	29.1	97.85	2,114.4	631.1	1,244.7	1,187.7	57.00	21.838	
13,400.0	11,454.0	13,565.5	11,624.0	28.0	29.1	97.85	2,119.4	631.0	1,244.7	1,187.7	57.04	21.821	
13,490.0	11,454.0	13,655.5	11,624.0	28.4	29.5	97.85	2,209.4	630.2	1,244.7	1,186.8	57.84	21.519	
13,500.0	11,454.0	13,665.5	11,624.0	28.4	29.5	97.85	2,219.4	630.1	1,244.7	1,186.8	57.93	21.485	
13,585.0	11,454.0	13,750.5	11,624.0	28.8	29.9	97.85	2,304.4	629.3	1,244.7	1,186.0	58.71	21.200	
13,600.0	11,454.0	13,765.5	11,624.0	28.9	30.0	97.85	2,319.4	629.2	1,244.7	1,185.8	58.85	21.150	
13,680.0	11,454.0	13,845.5	11,624.0	29.3	30.4	97.85	2,399.4	628.5	1,244.7	1,185.1	59.60	20.883	
13,700.0	11,454.0	13,865.5	11,624.0	29.4	30.5	97.85	2,419.4	628.3	1,244.7	1,184.9	59.79	20.817	
13,775.0	11,454.0	13,940.5	11,624.0	29.8	30.8	97.85	2,494.4	627.6	1,244.7	1,184.2	60.52	20.568	
13,800.0	11,454.0	13,965.5	11,624.0	29.9	30.9	97.85	2,519.4	627.4	1,244.7	1,183.9	60.76	20.485	
13,870.0	11,454.0	14,035.5	11,624.0	30.2	31.3	97.85	2,589.4	626.7	1,244.7	1,183.2	61.45	20.255	
13,900.0	11,454.0	14,065.5	11,624.0	30.4	31.4	97.85	2,619.4	626.5	1,244.7	1,182.9	61.75	20.157	
13,965.0	11,454.0	14,130.5	11,624.0	30.7	31.7	97.85	2,684.4	625.9	1,244.7	1,182.3	62.40	19.945	
14,000.0	11,454.0	14,165.5	11,624.0	30.9	31.9	97.85	2,719.4	625.5	1,244.7	1,181.9	62.76	19.832	
14,060.0	11,454.0	14,225.5	11,624.0	31.2	32.2	97.85	2,779.4	625.0	1,244.7	1,181.3	63.38	19.639	
14,100.0	11,454.0	14,265.5	11,624.0	31.4	32.4	97.85	2,819.4	624.6	1,244.7	1,180.9	63.79	19.512	
14,155.0	11,454.0	14,320.5	11,624.0	31.7	32.7	97.85	2,874.4	624.1	1,244.7	1,180.3	64.37	19.337	
14,200.0	11,454.0	14,365.5	11,624.0	32.0	32.9	97.85	2,919.4	623.7	1,244.7	1,179.8	64.84	19.195	
14,250.0	11,454.0	14,415.5	11,624.0	32.2	33.2	97.85	2,969.4	623.3	1,244.7	1,179.3	65.37	19.039	

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 #709H
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 #709H	Survey Calculation Method:	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
14,300.0	11,454.0	14,465.5	11,624.0	32.5	33.5	97.85	3,019.4	622.8	1,244.7	1,178.8	65.91	18.884	
14,345.0	11,454.0	14,510.5	11,624.0	32.8	33.7	97.85	3,064.3	622.4	1,244.7	1,178.3	66.40	18.745	
14,400.0	11,454.0	14,565.5	11,624.0	33.1	34.0	97.85	3,119.3	621.9	1,244.7	1,177.7	67.00	18.577	
14,440.0	11,454.0	14,605.5	11,624.0	33.3	34.2	97.85	3,159.3	621.5	1,244.7	1,177.2	67.44	18.456	
14,500.0	11,454.0	14,665.5	11,624.0	33.6	34.5	97.85	3,219.3	621.0	1,244.7	1,176.6	68.10	18.276	
14,535.0	11,454.0	14,700.5	11,624.0	33.8	34.7	97.85	3,254.3	620.7	1,244.7	1,176.2	68.49	18.172	
14,600.0	11,454.0	14,765.5	11,624.0	34.2	35.1	97.85	3,319.3	620.1	1,244.7	1,175.4	69.22	17.980	
14,630.0	11,454.0	14,795.5	11,624.0	34.4	35.3	97.85	3,349.3	619.8	1,244.7	1,175.1	69.56	17.893	
14,700.0	11,454.0	14,865.5	11,624.0	34.8	35.7	97.85	3,419.3	619.2	1,244.7	1,174.3	70.36	17.690	
14,725.0	11,454.0	14,890.5	11,624.0	34.9	35.8	97.85	3,444.3	618.9	1,244.7	1,174.0	70.65	17.618	
14,800.0	11,454.0	14,965.5	11,624.0	35.3	36.2	97.85	3,519.3	618.3	1,244.7	1,173.1	71.51	17.405	
14,820.0	11,454.0	14,985.5	11,624.0	35.5	36.3	97.85	3,539.3	618.1	1,244.7	1,172.9	71.74	17.349	
14,900.0	11,454.0	15,065.5	11,624.0	35.9	36.8	97.85	3,619.3	617.3	1,244.6	1,172.0	72.67	17.127	
14,915.0	11,454.0	15,080.5	11,624.0	36.0	36.9	97.85	3,634.3	617.2	1,244.6	1,171.8	72.85	17.085	
15,000.0	11,454.0	15,165.5	11,624.0	36.5	37.4	97.85	3,719.3	616.4	1,244.6	1,170.8	73.85	16.853	
15,010.0	11,454.0	15,175.5	11,624.0	36.6	37.4	97.85	3,729.3	616.3	1,244.6	1,170.7	73.97	16.826	
15,100.0	11,454.0	15,265.5	11,624.0	37.1	38.0	97.85	3,819.3	615.5	1,244.6	1,169.6	75.04	16.586	
15,105.0	11,454.0	15,270.5	11,624.0	37.2	38.0	97.85	3,824.3	615.5	1,244.6	1,169.5	75.10	16.573	
15,200.0	11,454.0	15,365.5	11,624.0	37.7	38.6	97.85	3,919.3	614.6	1,244.6	1,168.4	76.24	16.325	
15,295.0	11,454.0	15,460.5	11,624.0	38.3	39.1	97.85	4,014.3	613.8	1,244.6	1,167.2	77.40	16.081	
15,300.0	11,454.0	15,465.5	11,624.0	38.4	39.2	97.85	4,019.3	613.7	1,244.6	1,167.2	77.46	16.069	
15,390.0	11,454.0	15,555.5	11,624.0	38.9	39.7	97.85	4,109.3	612.9	1,244.6	1,166.1	78.56	15.843	
15,400.0	11,454.0	15,565.5	11,624.0	39.0	39.8	97.85	4,119.3	612.8	1,244.6	1,166.0	78.68	15.819	
15,485.0	11,454.0	15,650.5	11,624.0	39.5	40.3	97.85	4,204.3	612.0	1,244.6	1,164.9	79.73	15.610	
15,500.0	11,454.0	15,665.5	11,624.0	39.6	40.4	97.85	4,219.3	611.9	1,244.6	1,164.7	79.92	15.574	
15,580.0	11,454.0	15,745.5	11,624.0	40.1	40.9	97.85	4,299.3	611.2	1,244.6	1,163.7	80.91	15.382	
15,600.0	11,454.0	15,765.5	11,624.0	40.2	41.0	97.85	4,319.3	611.0	1,244.6	1,163.5	81.16	15.335	
15,675.0	11,454.0	15,840.5	11,624.0	40.7	41.5	97.85	4,394.3	610.3	1,244.6	1,162.5	82.10	15.159	
15,700.0	11,454.0	15,865.5	11,624.0	40.9	41.6	97.85	4,419.3	610.1	1,244.6	1,162.2	82.42	15.102	
15,770.0	11,454.0	15,935.5	11,624.0	41.3	42.1	97.85	4,489.3	609.4	1,244.6	1,161.3	83.30	14.941	
15,800.0	11,454.0	15,965.5	11,624.0	41.5	42.3	97.85	4,519.3	609.2	1,244.6	1,160.9	83.68	14.874	
15,865.0	11,454.0	16,030.5	11,624.0	41.9	42.7	97.85	4,584.3	608.6	1,244.6	1,160.1	84.51	14.728	
15,900.0	11,454.0	16,065.5	11,624.0	42.1	42.9	97.85	4,619.3	608.2	1,244.6	1,159.7	84.95	14.651	
15,960.0	11,454.0	16,125.5	11,624.0	42.5	43.3	97.85	4,679.3	607.7	1,244.6	1,158.9	85.72	14.520	
16,000.0	11,454.0	16,165.5	11,624.0	42.8	43.5	97.85	4,719.3	607.3	1,244.6	1,158.4	86.23	14.433	
16,055.0	11,454.0	16,220.5	11,624.0	43.1	43.9	97.85	4,774.3	606.8	1,244.6	1,157.7	86.94	14.316	
16,100.0	11,454.0	16,265.5	11,624.0	43.4	44.2	97.85	4,819.3	606.4	1,244.6	1,157.1	87.52	14.221	
16,150.0	11,454.0	16,315.5	11,624.0	43.8	44.5	97.85	4,869.3	606.0	1,244.6	1,156.4	88.17	14.116	
16,200.0	11,454.0	16,365.5	11,624.0	44.1	44.8	97.85	4,919.3	605.5	1,244.6	1,155.8	88.82	14.013	
16,245.0	11,454.0	16,410.5	11,624.0	44.4	45.1	97.85	4,964.3	605.1	1,244.6	1,155.2	89.40	13.921	
16,300.0	11,454.0	16,465.5	11,624.0	44.7	45.4	97.85	5,019.3	604.6	1,244.6	1,154.5	90.12	13.811	
16,340.0	11,454.0	16,505.5	11,624.0	45.0	45.7	97.85	5,059.3	604.2	1,244.6	1,154.0	90.64	13.731	
16,400.0	11,454.0	16,565.5	11,624.0	45.4	46.1	97.85	5,119.3	603.7	1,244.6	1,153.2	91.43	13.613	
16,435.0	11,454.0	16,600.5	11,624.0	45.6	46.3	97.85	5,154.3	603.4	1,244.6	1,152.7	91.89	13.544	
16,500.0	11,454.0	16,665.5	11,624.0	46.1	46.7	97.85	5,219.3	602.8	1,244.6	1,151.9	92.75	13.419	
16,530.0	11,454.0	16,695.5	11,624.0	46.3	46.9	97.85	5,249.3	602.5	1,244.6	1,151.5	93.14	13.362	
16,600.0	11,454.0	16,765.5	11,624.0	46.7	47.4	97.85	5,319.3	601.9	1,244.6	1,150.5	94.07	13.230	
16,625.0	11,454.0	16,790.5	11,624.0	46.9	47.6	97.85	5,344.3	601.6	1,244.6	1,150.2	94.40	13.184	
16,700.0	11,454.0	16,865.5	11,624.0	47.4	48.1	97.85	5,419.3	601.0	1,244.6	1,149.2	95.40	13.046	
16,720.0	11,454.0	16,885.5	11,624.0	47.5	48.2	97.85	5,439.2	600.8	1,244.6	1,148.9	95.67	13.010	
16,800.0	11,454.0	16,965.5	11,624.0	48.1	48.7	97.85	5,519.2	600.1	1,244.6	1,147.9	96.74	12.866	
16,815.0	11,454.0	16,980.5	11,624.0	48.2	48.8	97.85	5,534.2	599.9	1,244.6	1,147.7	96.94	12.839	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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
16,900.0	11,454.0	17,065.5	11,624.0	48.8	49.4	97.85	5,619.2	599.1	1,244.6	1,146.5	98.08	12.690	
16,910.0	11,454.0	17,075.5	11,624.0	48.8	49.5	97.85	5,629.2	599.0	1,244.6	1,146.4	98.21	12.673	
17,000.0	11,454.0	17,165.5	11,624.0	49.4	50.1	97.85	5,719.2	598.2	1,244.6	1,145.2	99.42	12.518	
17,005.0	11,454.0	17,170.5	11,624.0	49.5	50.1	97.85	5,724.2	598.2	1,244.6	1,145.1	99.49	12.510	
17,100.0	11,454.0	17,265.5	11,624.0	50.1	50.7	97.85	5,819.2	597.3	1,244.6	1,143.8	100.77	12.350	
17,195.0	11,454.0	17,360.5	11,624.0	50.8	51.4	97.85	5,914.2	596.5	1,244.6	1,142.5	102.06	12.194	
17,200.0	11,454.0	17,365.5	11,624.0	50.8	51.4	97.85	5,919.2	596.4	1,244.6	1,142.5	102.13	12.186	
17,290.0	11,454.0	17,455.5	11,624.0	51.4	52.0	97.85	6,009.2	595.6	1,244.6	1,141.2	103.36	12.042	
17,300.0	11,454.0	17,465.5	11,624.0	51.5	52.1	97.85	6,019.2	595.5	1,244.6	1,141.1	103.49	12.026	
17,385.0	11,454.0	17,550.5	11,624.0	52.1	52.7	97.85	6,104.2	594.7	1,244.6	1,139.9	104.65	11.893	
17,400.0	11,454.0	17,565.5	11,624.0	52.2	52.8	97.85	6,119.2	594.6	1,244.6	1,139.7	104.86	11.869	
17,480.0	11,454.0	17,645.5	11,624.0	52.7	53.3	97.85	6,199.2	593.9	1,244.6	1,138.6	105.95	11.746	
17,500.0	11,454.0	17,665.5	11,624.0	52.8	53.4	97.85	6,219.2	593.7	1,244.6	1,138.3	106.23	11.716	
17,575.0	11,454.0	17,740.5	11,624.0	53.4	54.0	97.85	6,294.2	593.0	1,244.6	1,137.3	107.26	11.604	
17,600.0	11,454.0	17,765.5	11,624.0	53.5	54.1	97.85	6,319.2	592.8	1,244.6	1,137.0	107.60	11.566	
17,670.0	11,454.0	17,835.5	11,624.0	54.0	54.6	97.85	6,389.2	592.1	1,244.6	1,136.0	108.57	11.464	
17,700.0	11,454.0	17,865.5	11,624.0	54.2	54.8	97.85	6,419.2	591.9	1,244.6	1,135.6	108.98	11.420	
17,765.0	11,454.0	17,930.5	11,624.0	54.7	55.3	97.85	6,484.2	591.3	1,244.6	1,134.7	109.88	11.327	
17,800.0	11,454.0	17,965.5	11,624.0	54.9	55.5	97.85	6,519.2	590.9	1,244.6	1,134.2	110.36	11.277	
17,860.0	11,454.0	18,025.5	11,624.0	55.3	55.9	97.85	6,579.2	590.4	1,244.6	1,133.4	111.19	11.193	
17,900.0	11,454.0	18,065.5	11,624.0	55.6	56.2	97.85	6,619.2	590.0	1,244.6	1,132.8	111.75	11.137	
17,955.0	11,454.0	18,120.5	11,624.0	56.0	56.6	97.85	6,674.2	589.5	1,244.6	1,132.0	112.51	11.061	
18,000.0	11,454.0	18,165.5	11,624.0	56.3	56.9	97.85	6,719.2	589.1	1,244.6	1,131.4	113.14	11.000	
18,050.0	11,454.0	18,215.5	11,624.0	56.7	57.2	97.85	6,769.2	588.7	1,244.6	1,130.7	113.84	10.933	
18,100.0	11,454.0	18,265.5	11,624.0	57.0	57.6	97.85	6,819.2	588.2	1,244.6	1,130.0	114.53	10.866	
18,145.0	11,454.0	18,310.5	11,624.0	57.3	57.9	97.85	6,864.2	587.8	1,244.6	1,129.4	115.16	10.807	
18,200.0	11,454.0	18,365.5	11,624.0	57.7	58.3	97.85	6,919.2	587.3	1,244.6	1,128.6	115.93	10.736	
18,240.0	11,454.0	18,405.5	11,624.0	58.0	58.5	97.85	6,959.2	586.9	1,244.6	1,128.1	116.49	10.684	
18,300.0	11,454.0	18,465.5	11,624.0	58.4	59.0	97.85	7,019.2	586.4	1,244.6	1,127.2	117.33	10.607	
18,335.0	11,454.0	18,500.5	11,624.0	58.7	59.2	97.85	7,054.2	586.1	1,244.6	1,126.7	117.82	10.563	
18,400.0	11,454.0	18,565.5	11,624.0	59.1	59.7	97.85	7,119.2	585.5	1,244.5	1,125.8	118.73	10.482	
18,430.0	11,454.0	18,595.5	11,624.0	59.3	59.9	97.85	7,149.2	585.2	1,244.5	1,125.4	119.15	10.445	
18,500.0	11,454.0	18,665.5	11,624.0	59.8	60.4	97.85	7,219.2	584.6	1,244.5	1,124.4	120.14	10.359	
18,525.0	11,454.0	18,690.5	11,624.0	60.0	60.5	97.85	7,244.2	584.3	1,244.5	1,124.1	120.49	10.329	
18,600.0	11,454.0	18,765.5	11,624.0	60.5	61.1	97.85	7,319.2	583.7	1,244.5	1,123.0	121.55	10.239	
18,620.0	11,454.0	18,785.5	11,624.0	60.7	61.2	97.85	7,339.2	583.5	1,244.5	1,122.7	121.83	10.215	
18,700.0	11,454.0	18,865.5	11,624.0	61.3	61.8	97.85	7,419.2	582.8	1,244.5	1,121.6	122.96	10.122	
18,715.0	11,454.0	18,880.5	11,624.0	61.4	61.9	97.85	7,434.2	582.6	1,244.5	1,121.4	123.17	10.104	
18,800.0	11,454.0	18,965.5	11,624.0	62.0	62.5	97.85	7,519.2	581.8	1,244.5	1,120.2	124.37	10.006	
18,810.0	11,454.0	18,975.5	11,624.0	62.0	62.5	97.85	7,529.2	581.8	1,244.5	1,120.0	124.52	9.995	
18,900.0	11,454.0	19,065.5	11,624.0	62.7	63.2	97.85	7,619.2	580.9	1,244.5	1,118.7	125.79	9.894	
18,905.0	11,454.0	19,070.5	11,624.0	62.7	63.2	97.85	7,624.2	580.9	1,244.5	1,118.7	125.86	9.888	
19,000.0	11,454.0	19,165.5	11,624.0	63.4	63.9	97.85	7,719.2	580.0	1,244.5	1,117.3	127.21	9.783	
19,095.0	11,454.0	19,260.5	11,624.0	64.1	64.6	97.85	7,814.2	579.2	1,244.5	1,116.0	128.56	9.680	
19,100.0	11,454.0	19,265.5	11,624.0	64.1	64.6	97.85	7,819.2	579.1	1,244.5	1,115.9	128.63	9.675	
19,190.0	11,454.0	19,355.5	11,624.0	64.7	65.2	97.85	7,909.1	578.3	1,244.5	1,114.6	129.92	9.579	
19,200.0	11,454.0	19,365.5	11,624.0	64.8	65.3	97.85	7,919.1	578.2	1,244.5	1,114.5	130.06	9.569	
19,285.0	11,454.0	19,450.5	11,624.0	65.4	65.9	97.85	8,004.1	577.4	1,244.5	1,113.3	131.27	9.481	
19,300.0	11,454.0	19,465.5	11,624.0	65.5	66.0	97.85	8,019.1	577.3	1,244.5	1,113.0	131.49	9.465	
19,380.0	11,454.0	19,545.5	11,624.0	66.1	66.6	97.85	8,099.1	576.6	1,244.5	1,111.9	132.63	9.383	
19,400.0	11,454.0	19,565.5	11,624.0	66.2	66.7	97.85	8,119.1	576.4	1,244.5	1,111.6	132.91	9.363	
19,475.0	11,454.0	19,640.5	11,624.0	66.8	67.3	97.85	8,194.1	575.7	1,244.5	1,110.5	133.99	9.288	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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
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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,500.0	11,454.0	19,665.5	11,624.0	67.0	67.4	97.85	8,219.1	575.5	1,244.5	1,110.2	134.35	9.264	
19,570.0	11,454.0	19,735.5	11,624.0	67.5	67.9	97.85	8,289.1	574.8	1,244.5	1,109.2	135.35	9.195	
19,600.0	11,454.0	19,765.5	11,624.0	67.7	68.1	97.85	8,319.1	574.6	1,244.5	1,108.7	135.78	9.166	
19,665.0	11,454.0	19,830.5	11,624.0	68.1	68.6	97.85	8,384.1	574.0	1,244.5	1,107.8	136.71	9.103	
19,700.0	11,454.0	19,865.5	11,624.0	68.4	68.9	97.85	8,419.1	573.6	1,244.5	1,107.3	137.22	9.070	
19,760.0	11,454.0	19,925.5	11,624.0	68.8	69.3	97.85	8,479.1	573.1	1,244.5	1,106.4	138.08	9.013	
19,800.0	11,454.0	19,965.5	11,624.0	69.1	69.6	97.85	8,519.1	572.7	1,244.5	1,105.9	138.65	8.976	
19,855.0	11,454.0	20,020.5	11,624.0	69.5	70.0	97.85	8,574.1	572.2	1,244.5	1,105.1	139.44	8.925	
19,900.0	11,454.0	20,065.5	11,624.0	69.8	70.3	97.85	8,619.1	571.8	1,244.5	1,104.4	140.09	8.883	
19,950.0	11,454.0	20,115.5	11,624.0	70.2	70.7	97.85	8,669.1	571.4	1,244.5	1,103.7	140.81	8.838	
20,000.0	11,454.0	20,165.5	11,624.0	70.6	71.0	97.85	8,719.1	570.9	1,244.5	1,103.0	141.53	8.793	
20,045.0	11,454.0	20,210.5	11,624.0	70.9	71.3	97.85	8,764.1	570.5	1,244.5	1,102.3	142.18	8.753	
20,100.0	11,454.0	20,265.5	11,624.0	71.3	71.7	97.85	8,819.1	570.0	1,244.5	1,101.5	142.98	8.704	
20,140.0	11,454.0	20,305.5	11,624.0	71.6	72.0	97.85	8,859.1	569.6	1,244.5	1,100.9	143.55	8.669	
20,200.0	11,454.0	20,365.5	11,624.0	72.0	72.5	97.85	8,919.1	569.1	1,244.5	1,100.1	144.42	8.617	
20,235.0	11,454.0	20,400.5	11,624.0	72.3	72.7	97.85	8,954.1	568.8	1,244.5	1,099.6	144.93	8.587	
20,300.0	11,454.0	20,465.5	11,624.0	72.7	73.2	97.85	9,019.1	568.2	1,244.5	1,098.6	145.87	8.532	
20,330.0	11,454.0	20,495.5	11,624.0	73.0	73.4	97.85	9,049.1	567.9	1,244.5	1,098.2	146.30	8.506	
20,400.0	11,454.0	20,565.5	11,624.0	73.5	73.9	97.85	9,119.1	567.3	1,244.5	1,097.2	147.32	8.448	
20,425.0	11,454.0	20,590.5	11,624.0	73.6	74.1	97.85	9,144.1	567.0	1,244.5	1,096.8	147.68	8.427	
20,500.0	11,454.0	20,665.5	11,624.0	74.2	74.6	97.85	9,219.1	566.4	1,244.5	1,095.7	148.77	8.365	
20,520.0	11,454.0	20,685.5	11,624.0	74.3	74.8	97.85	9,239.1	566.2	1,244.5	1,095.4	149.06	8.349	
20,600.0	11,454.0	20,765.5	11,624.0	74.9	75.3	97.85	9,319.1	565.5	1,244.5	1,094.3	150.22	8.285	
20,615.0	11,454.0	20,780.5	11,624.0	75.0	75.4	97.85	9,334.1	565.3	1,244.5	1,094.1	150.44	8.273	
20,700.0	11,454.0	20,865.5	11,624.0	75.6	76.1	97.85	9,419.1	564.5	1,244.5	1,092.8	151.67	8.205	
20,710.0	11,454.0	20,875.5	11,624.0	75.7	76.1	97.85	9,429.1	564.5	1,244.5	1,092.7	151.82	8.197	
20,800.0	11,454.0	20,965.5	11,624.0	76.4	76.8	97.85	9,519.1	563.6	1,244.5	1,091.4	153.12	8.127	
20,805.0	11,454.0	20,970.5	11,624.0	76.4	76.8	97.85	9,524.1	563.6	1,244.5	1,091.3	153.20	8.123	
20,900.0	11,454.0	21,065.5	11,624.0	77.1	77.5	97.85	9,619.1	562.7	1,244.5	1,089.9	154.58	8.051	
20,995.0	11,454.0	21,160.5	11,624.0	77.8	78.2	97.85	9,714.1	561.9	1,244.5	1,088.5	155.96	7.979	
21,000.0	11,454.0	21,165.5	11,624.0	77.8	78.2	97.85	9,719.1	561.8	1,244.5	1,088.4	156.04	7.976	
21,090.0	11,454.0	21,255.5	11,624.0	78.5	78.9	97.85	9,809.1	561.0	1,244.5	1,087.1	157.35	7.909	
21,100.0	11,454.0	21,265.5	11,624.0	78.6	79.0	97.85	9,819.1	560.9	1,244.5	1,087.0	157.50	7.902	
21,185.0	11,454.0	21,350.5	11,624.0	79.2	79.6	97.85	9,904.1	560.1	1,244.5	1,085.7	158.74	7.840	
21,200.0	11,454.0	21,365.5	11,624.0	79.3	79.7	97.85	9,919.1	560.0	1,244.5	1,085.5	158.96	7.829	
21,280.0	11,454.0	21,445.5	11,624.0	79.9	80.3	97.85	9,999.1	559.3	1,244.5	1,084.3	160.12	7.772	
21,300.0	11,454.0	21,465.5	11,624.0	80.0	80.4	97.85	10,019.1	559.1	1,244.5	1,084.1	160.42	7.758	
21,375.0	11,454.0	21,540.5	11,624.0	80.6	81.0	97.85	10,094.1	558.4	1,244.5	1,083.0	161.51	7.705	
21,400.0	11,454.0	21,565.5	11,624.0	80.8	81.2	97.85	10,119.1	558.2	1,244.5	1,082.6	161.88	7.688	
21,470.0	11,454.0	21,635.5	11,624.0	81.3	81.7	97.85	10,189.1	557.5	1,244.5	1,081.6	162.90	7.639	
21,500.0	11,454.0	21,665.5	11,624.0	81.5	81.9	97.85	10,219.1	557.3	1,244.5	1,081.1	163.34	7.619	
21,565.0	11,454.0	21,730.5	11,624.0	82.0	82.4	97.85	10,284.0	556.7	1,244.5	1,080.2	164.29	7.575	
21,600.0	11,454.0	21,765.5	11,624.0	82.2	82.6	97.85	10,319.0	556.4	1,244.5	1,079.7	164.81	7.551	
21,660.0	11,454.0	21,825.5	11,624.0	82.7	83.0	97.85	10,379.0	555.8	1,244.5	1,078.8	165.69	7.511	
21,700.0	11,454.0	21,865.5	11,624.0	83.0	83.3	97.85	10,419.0	555.4	1,244.5	1,078.2	166.27	7.484	
21,755.0	11,454.0	21,920.5	11,624.0	83.4	83.7	97.85	10,474.0	554.9	1,244.5	1,077.4	167.08	7.448	
21,760.3	11,454.0	21,925.7	11,624.0	83.4	83.8	97.85	10,479.3	554.9	1,244.5	1,077.3	167.15	7.445 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 #709H
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 #709H	Survey Calculation Method:	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)	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	89.58	0.9	120.5	120.5				
95.0	95.0	95.0	95.0	3.0	3.0	89.58	0.9	120.5	120.5	114.5	6.03	19.995	
100.0	100.0	100.0	100.0	3.0	3.0	89.58	0.9	120.5	120.5	114.5	6.03	19.984	
190.0	190.0	190.0	190.0	3.1	3.1	89.58	0.9	120.5	120.5	114.3	6.15	19.583	
200.0	200.0	200.0	200.0	3.1	3.1	89.58	0.9	120.5	120.5	114.3	6.17	19.522	
285.0	285.0	285.0	285.0	3.2	3.2	89.58	0.9	120.5	120.5	114.2	6.31	19.092	
300.0	300.0	300.0	300.0	3.2	3.2	89.58	0.9	120.5	120.5	114.1	6.34	19.006	
380.0	380.0	380.0	380.0	3.3	3.3	89.58	0.9	120.5	120.5	114.0	6.49	18.570	
400.0	400.0	400.0	400.0	3.3	3.3	89.58	0.9	120.5	120.5	114.0	6.53	18.453	
475.0	475.0	475.0	475.0	3.4	3.4	89.58	0.9	120.5	120.5	113.8	6.68	18.025	
500.0	500.0	500.0	500.0	3.4	3.4	89.58	0.9	120.5	120.5	113.7	6.74	17.877	
570.0	570.0	570.0	570.0	3.5	3.5	89.58	0.9	120.5	120.5	113.6	6.90	17.467	
600.0	600.0	600.0	600.0	3.5	3.5	89.58	0.9	120.5	120.5	113.5	6.97	17.288	
665.0	665.0	665.0	665.0	3.6	3.6	89.58	0.9	120.5	120.5	113.4	7.13	16.905	
700.0	700.0	700.0	700.0	3.7	3.7	89.58	0.9	120.5	120.5	113.3	7.22	16.697	
760.0	760.0	760.0	760.0	3.8	3.8	89.58	0.9	120.5	120.5	113.1	7.37	16.346	
800.0	800.0	800.0	800.0	3.8	3.8	89.58	0.9	120.5	120.5	113.0	7.48	16.113	
855.0	855.0	855.0	855.0	3.9	3.9	89.58	0.9	120.5	120.5	112.9	7.63	15.797	
900.0	900.0	900.0	900.0	4.0	4.0	89.58	0.9	120.5	120.5	112.7	7.75	15.540	
950.0	950.0	950.0	950.0	4.1	4.1	89.58	0.9	120.5	120.5	112.6	7.90	15.260	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	89.58	0.9	120.5	120.5	112.4	8.04	14.983	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.58	0.9	120.5	120.5	112.3	8.17	14.739	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	89.58	0.9	120.5	120.5	112.1	8.34	14.446	
1,140.0	1,140.0	1,140.0	1,140.0	4.4	4.4	89.58	0.9	120.5	120.5	112.0	8.46	14.237	
1,200.0	1,200.0	1,200.0	1,200.0	4.5	4.5	89.58	0.9	120.5	120.5	111.8	8.65	13.929	
1,235.0	1,235.0	1,235.0	1,235.0	4.6	4.6	89.58	0.9	120.5	120.5	111.7	8.76	13.754	
1,300.0	1,300.0	1,300.0	1,300.0	4.7	4.7	89.58	0.9	120.5	120.5	111.5	8.97	13.435	
1,330.0	1,330.0	1,330.0	1,330.0	4.7	4.7	89.58	0.9	120.5	120.5	111.4	9.06	13.292	
1,400.0	1,400.0	1,400.0	1,400.0	4.9	4.9	89.58	0.9	120.5	120.5	111.2	9.29	12.964	
1,425.0	1,425.0	1,425.0	1,425.0	4.9	4.9	89.58	0.9	120.5	120.5	111.1	9.38	12.850	
1,500.0	1,500.0	1,500.0	1,500.0	5.1	5.1	89.58	0.9	120.5	120.5	110.9	9.63	12.515 CC	
1,520.0	1,520.0	1,519.2	1,519.2	5.1	5.1	89.58	0.9	120.5	120.6	110.8	9.70	12.422 ES	
1,600.0	1,600.0	1,595.9	1,595.9	5.3	5.2	89.58	0.9	122.1	122.2	112.1	10.02	12.196	
1,615.0	1,615.0	1,610.3	1,610.3	5.3	5.2	89.58	0.9	122.6	122.7	112.6	10.08	12.177 SF	
1,700.0	1,700.0	1,691.6	1,691.5	5.5	5.3	89.56	1.0	126.9	127.2	116.8	10.42	12.201	
1,710.0	1,710.0	1,700.0	1,699.8	5.5	5.4	89.56	1.0	127.5	127.9	117.4	10.46	12.230	
1,800.0	1,800.0	1,786.9	1,786.4	5.7	5.5	89.55	1.1	134.8	135.5	124.7	10.84	12.504	
1,805.0	1,805.0	1,791.7	1,791.2	5.7	5.6	89.55	1.1	135.3	136.0	125.2	10.86	12.527	
1,900.0	1,900.0	1,881.6	1,880.5	5.9	5.8	89.52	1.2	145.9	147.2	135.9	11.26	13.068	
1,995.0	1,995.0	1,970.7	1,968.6	6.1	6.1	89.50	1.4	159.1	161.2	149.6	11.67	13.812	
2,000.0	2,000.0	1,975.4	1,973.2	6.1	6.1	89.50	1.4	159.8	162.1	150.4	11.70	13.857	
2,090.0	2,090.0	2,059.5	2,056.0	6.3	6.3	89.48	1.6	174.9	178.2	166.2	12.02	14.829	
2,100.0	2,100.0	2,069.4	2,065.6	6.3	6.3	89.48	1.6	176.8	180.1	168.1	12.06	14.940	
2,185.0	2,185.0	2,152.8	2,147.5	6.5	6.5	89.46	1.8	192.7	196.3	183.9	12.42	15.803	
2,200.0	2,200.0	2,167.5	2,162.0	6.5	6.6	89.45	1.9	195.5	199.2	186.7	12.49	15.943	
2,280.0	2,280.0	2,246.1	2,239.1	6.7	6.8	89.44	2.1	210.5	214.5	201.6	12.88	16.655	
2,300.0	2,300.0	2,265.7	2,258.4	6.7	6.9	89.44	2.1	214.3	218.3	205.3	12.97	16.824	
2,375.0	2,375.0	2,339.3	2,330.6	6.9	7.1	89.42	2.3	228.3	232.6	219.2	13.35	17.426	
2,400.0	2,400.0	2,363.8	2,354.7	6.9	7.2	89.42	2.4	233.0	237.4	223.9	13.47	17.616	
2,470.0	2,470.0	2,432.6	2,422.2	7.1	7.4	89.41	2.5	246.1	250.7	236.9	13.83	18.123	
2,500.0	2,500.0	2,462.0	2,451.1	7.2	7.5	89.41	2.6	251.7	256.4	242.5	13.99	18.329	
2,565.0	2,565.0	2,525.7	2,513.6	7.2	7.7	179.36	2.8	263.9	269.6	255.2	14.35	18.790	

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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	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		
2,600.0	2,600.0	2,559.8	2,547.1	7.3	7.8	179.36	2.8	270.4	277.2	262.7	14.54	19.065		
2,660.0	2,659.9	2,618.1	2,604.3	7.4	8.0	179.35	3.0	281.5	291.3	276.5	14.87	19.597		
2,700.0	2,699.8	2,656.8	2,642.3	7.4	8.2	179.35	3.1	288.9	301.4	286.3	15.09	19.980		
2,755.0	2,754.7	2,709.8	2,694.3	7.4	8.4	179.35	3.2	299.0	316.2	300.8	15.40	20.536		
2,800.0	2,799.5	2,753.0	2,736.7	7.5	8.5	179.36	3.3	307.2	329.0	313.3	15.65	21.019		
2,850.0	2,849.1	2,800.7	2,783.5	7.5	8.7	179.36	3.4	316.3	344.0	328.1	15.94	21.579		
2,900.0	2,898.7	2,848.1	2,830.0	7.6	8.9	179.36	3.6	325.4	359.9	343.6	16.24	22.164		
2,945.0	2,943.2	2,890.5	2,871.7	7.6	9.0	179.37	3.7	333.5	374.9	358.4	16.46	22.771		
2,950.0	2,948.2	2,895.2	2,876.3	7.6	9.0	179.37	3.7	334.4	376.6	360.1	16.49	22.840		
3,000.0	2,997.5	2,942.2	2,922.4	7.6	9.2	179.37	3.8	343.3	393.7	376.9	16.74	23.518		
3,040.0	3,037.0	2,979.8	2,959.3	7.7	9.4	179.38	3.9	350.5	407.4	390.4	16.97	24.008		
3,100.0	3,096.3	3,036.2	3,014.7	7.8	9.6	179.39	4.0	361.3	427.9	410.6	17.31	24.723		
3,135.0	3,130.9	3,069.0	3,046.9	7.9	9.7	179.39	4.1	367.5	439.8	422.3	17.51	25.115		
3,200.0	3,195.1	3,130.1	3,106.9	8.0	10.0	179.40	4.3	379.2	462.1	444.2	17.90	25.817		
3,230.0	3,224.7	3,158.3	3,134.6	8.1	10.1	179.41	4.3	384.6	472.3	454.3	18.08	26.122		
3,300.0	3,293.8	3,224.1	3,199.1	8.3	10.3	179.41	4.5	397.1	496.3	477.8	18.51	26.809		
3,325.0	3,318.5	3,247.6	3,222.2	8.3	10.4	179.42	4.6	401.6	504.8	486.2	18.67	27.039		
3,400.0	3,392.6	3,318.1	3,291.4	8.5	10.7	179.42	4.7	415.0	530.5	511.3	19.15	27.707		
3,420.0	3,412.4	3,336.9	3,309.8	8.6	10.8	179.42	4.8	418.6	537.3	518.0	19.28	27.875		
3,500.0	3,491.4	3,412.0	3,383.6	8.8	11.1	179.43	5.0	433.0	564.7	544.9	19.80	28.522		
3,515.0	3,506.2	3,426.1	3,397.5	8.8	11.2	179.43	5.0	435.7	569.8	549.9	19.90	28.636		
3,600.0	3,590.1	3,506.0	3,475.9	9.1	11.5	179.44	5.2	450.9	598.9	578.4	20.47	29.261		
3,610.0	3,600.0	3,515.4	3,485.1	9.1	11.5	179.44	5.2	452.7	602.3	581.8	20.54	29.330		
3,700.0	3,688.9	3,600.0	3,568.1	9.4	11.9	179.44	5.4	468.8	633.1	611.9	21.15	29.931		
3,705.0	3,693.9	3,604.7	3,572.7	9.4	11.9	179.44	5.5	469.7	634.8	613.6	21.19	29.963		
3,800.0	3,787.7	3,693.9	3,660.4	9.7	12.3	179.45	5.7	486.8	667.3	645.4	21.85	30.540		
3,895.0	3,881.5	3,783.2	3,748.0	10.0	12.6	179.46	5.9	503.8	699.8	677.3	22.52	31.067		
3,900.0	3,886.5	3,787.9	3,752.6	10.0	12.7	179.46	5.9	504.7	701.5	678.9	22.56	31.094		
3,990.0	3,975.3	3,872.5	3,835.6	10.3	13.0	179.46	6.1	520.8	732.3	709.1	23.21	31.550		
4,000.0	3,985.2	3,881.9	3,844.9	10.3	13.1	179.46	6.1	522.6	735.7	712.4	23.28	31.599		
4,085.0	4,069.2	3,961.8	3,923.3	10.6	13.4	179.46	6.3	537.9	764.8	740.9	23.90	31.992		
4,100.0	4,084.0	3,975.8	3,937.1	10.7	13.5	179.46	6.4	540.5	769.9	745.9	24.01	32.059		
4,180.0	4,163.0	4,051.0	4,010.9	11.0	13.8	179.47	6.6	554.9	797.2	772.6	24.61	32.397		
4,200.0	4,182.8	4,069.8	4,029.3	11.0	13.9	179.47	6.6	558.5	804.1	779.3	24.76	32.479		
4,275.0	4,256.8	4,140.3	4,098.5	11.3	14.2	179.47	6.8	571.9	829.7	804.4	25.32	32.770		
4,300.0	4,281.5	4,163.8	4,121.6	11.4	14.3	179.47	6.8	576.4	838.3	812.8	25.51	32.864		
4,370.0	4,350.7	4,229.6	4,186.1	11.6	14.6	179.48	7.0	589.0	862.2	836.2	26.04	33.114		
4,400.0	4,380.3	4,257.8	4,213.8	11.7	14.7	179.48	7.1	594.3	872.5	846.2	26.27	33.217		
4,465.0	4,444.5	4,318.8	4,273.8	12.0	15.0	179.48	7.2	606.0	894.7	868.0	26.76	33.430		
4,500.0	4,479.1	4,351.7	4,306.1	12.1	15.1	179.48	7.3	612.3	906.7	879.7	27.03	33.541		
4,560.0	4,538.3	4,408.1	4,361.4	12.3	15.3	179.48	7.5	623.0	927.2	899.7	27.50	33.722		
4,600.0	4,577.8	4,445.7	4,398.3	12.5	15.5	179.48	7.6	630.2	940.9	913.1	27.81	33.839		
4,655.0	4,632.2	4,497.4	4,449.0	12.7	15.7	179.48	7.7	640.1	959.7	931.5	28.23	33.992		
4,700.0	4,676.6	4,539.7	4,490.6	12.8	15.9	179.48	7.8	648.1	975.1	946.5	28.58	34.114		
4,750.0	4,726.0	4,586.7	4,536.7	13.0	16.1	179.49	7.9	657.1	992.2	963.2	28.98	34.242		
4,800.0	4,775.4	4,633.6	4,582.8	13.2	16.3	179.49	8.0	666.0	1,009.3	979.9	29.37	34.367		
4,845.0	4,819.8	4,675.9	4,624.3	13.4	16.5	179.49	8.1	674.1	1,024.7	995.0	29.72	34.474		
4,900.0	4,874.1	4,727.6	4,675.0	13.6	16.8	179.49	8.3	684.0	1,043.5	1,013.3	30.16	34.601		
4,940.0	4,913.7	4,765.2	4,711.9	13.8	16.9	179.49	8.4	691.1	1,057.2	1,026.7	30.48	34.690		
5,000.0	4,972.9	4,821.6	4,767.3	14.0	17.2	179.49	8.5	701.9	1,077.7	1,046.7	30.95	34.818		
5,035.0	5,007.5	4,854.5	4,799.6	14.1	17.3	179.49	8.6	708.2	1,089.7	1,058.4	31.23	34.890		
5,100.0	5,071.7	4,915.5	4,859.5	14.4	17.6	179.49	8.7	719.8	1,111.9	1,080.1	31.75	35.020		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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 Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,130.0	5,101.3	4,943.7	4,887.2	14.5	17.7	179.49	8.8	725.2	1,122.2	1,090.2	31.99	35.077		
5,200.0	5,170.5	5,009.5	4,951.8	14.8	18.0	179.50	9.0	737.8	1,146.1	1,113.5	32.55	35.206		
5,225.0	5,195.1	5,033.0	4,974.8	14.9	18.1	179.50	9.0	742.2	1,154.7	1,121.9	32.76	35.251		
5,300.0	5,269.2	5,103.5	5,044.0	15.2	18.4	179.50	9.2	755.7	1,180.3	1,146.9	33.36	35.380		
5,320.0	5,289.0	5,122.3	5,062.5	15.3	18.5	179.50	9.2	759.3	1,187.1	1,153.6	33.52	35.413		
5,400.0	5,368.0	5,197.5	5,136.3	15.6	18.8	179.50	9.4	773.6	1,214.5	1,180.3	34.17	35.542		
5,415.0	5,382.8	5,211.5	5,150.1	15.6	18.9	179.50	9.5	776.3	1,219.6	1,185.3	34.29	35.565		
5,500.0	5,466.8	5,291.4	5,228.5	16.0	19.3	179.50	9.7	791.5	1,248.7	1,213.7	34.98	35.693		
5,510.0	5,476.6	5,300.8	5,237.7	16.0	19.3	179.50	9.7	793.3	1,252.1	1,217.1	35.07	35.708		
5,600.0	5,565.5	5,385.4	5,320.7	16.4	19.7	179.50	9.9	809.5	1,282.9	1,247.1	35.80	35.834		
5,605.0	5,570.5	5,390.1	5,325.4	16.4	19.7	179.50	9.9	810.4	1,284.6	1,248.8	35.84	35.841		
5,700.0	5,664.3	5,479.4	5,413.0	16.8	20.1	179.50	10.1	827.4	1,317.1	1,280.5	36.62	35.967		

CC - Min centre to center 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 #709H
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 #709H	Survey Calculation Method:	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

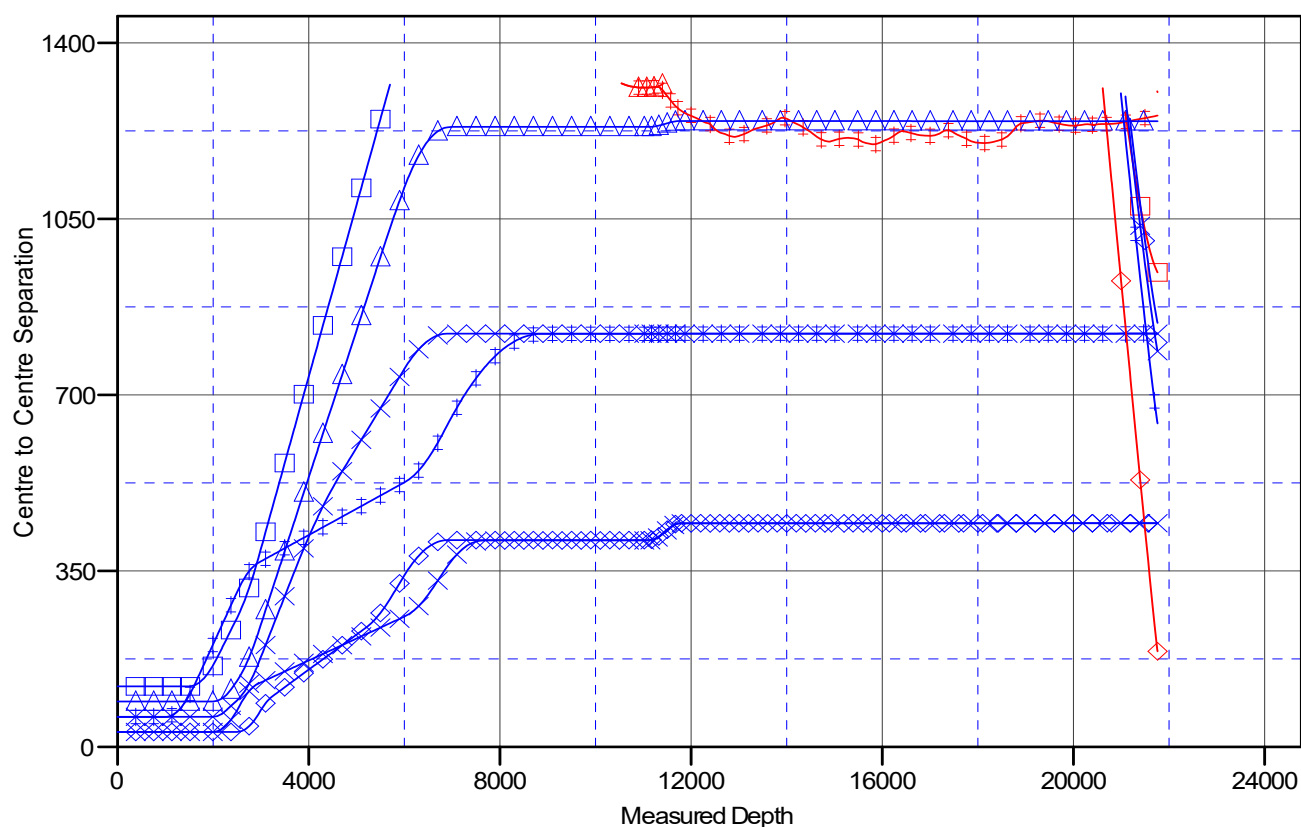
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2331 WC #709H

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

Grid Convergence at Surface is: 0.31°

Ladder Plot



LEGEND

ZA HILLS UNIT 2331 WC #711H, OWB, PWP0 V0	SHETLAND 2-11 STATE FEDERAL COM #333H, OWB, AWP V0	SHETLAND 2-11 STATE FEDERAL COM #733H, OWB, PWP0 V0
ZA HILLS UNIT 2331 WC #709H, OWB, PWP0 V0	SHETLAND 11-2 FEDERAL STATE COM #732H, OWB, AWP V0	ZA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
SHETLAND 2-11 STATE FEDERAL COM #613H, OWB, AWP V0	ZA HILLS UNIT 2331 WC #710H, OWB, PWP0 V0	SHETLAND 11 FEDERAL #74H, OWB, PWP0 V0
ZA HILLS UNIT 2331 WC #708H, OWB, PWP0 V0	SHETLAND 2-11 STATE FEDERAL COM #713H, OWB, PWP0 V0	ZA HILLS UNIT 2331 WC #712H, OWB, PWP0 V0
ZHU 2331 WC #6H, ST01, AWP V0	ZHU 2331 WC #6H, OWB, AWP (PH) V0	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	Survey Calculation Method:	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

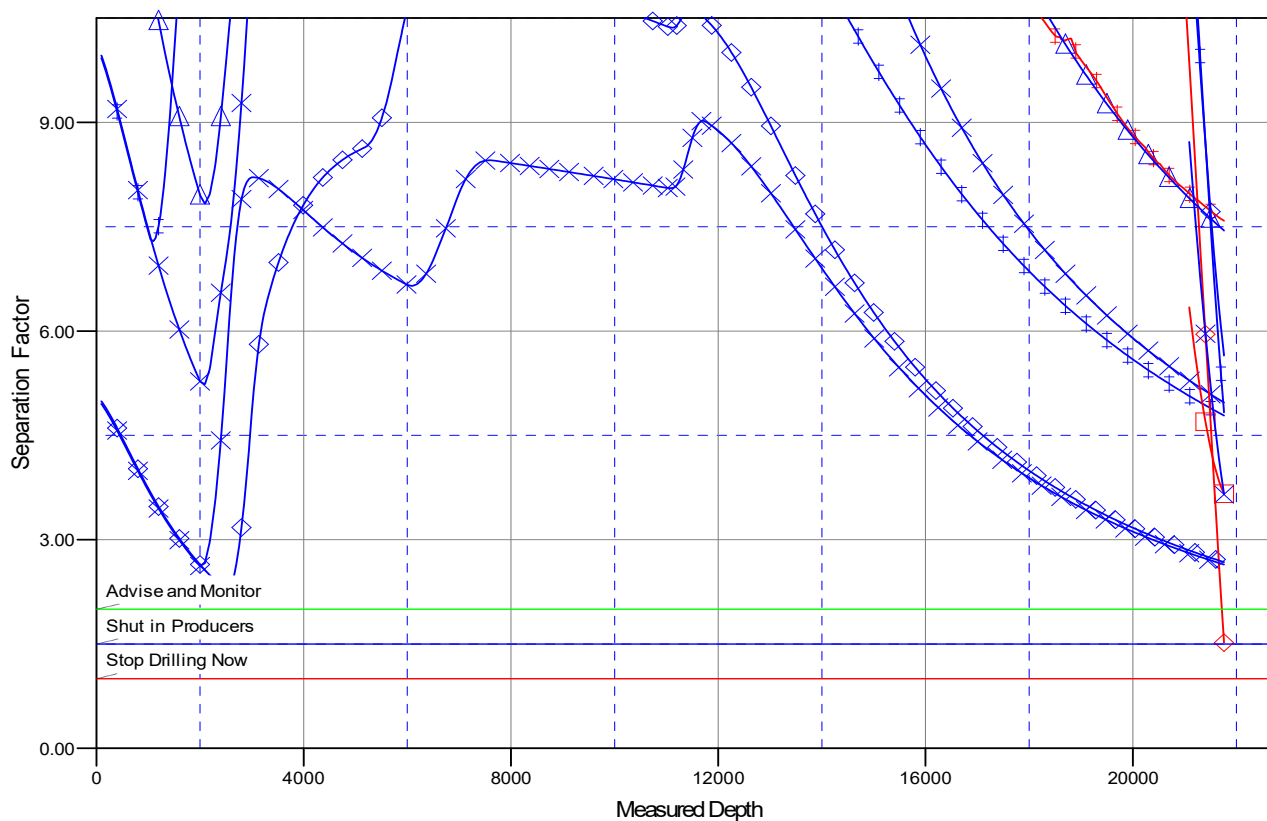
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2331 WC #709H

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 #710H, OWB, PWP0 V0	SHELTLAND 2-11 STATE FEDERAL COM #333H, OWB, AWP V0	SHELTLAND 2-11 STATE FEDERAL COM #733H, OWB, PWP0 V0
ZIA HILLS UNIT 2331 WC #709H, OWB, PWP0 V0	SHELTLAND 11-2 FEDERAL STATE COM #732H, OWB, AWP V0	ZIA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
SHELTLAND 2-11 STATE FEDERAL COM #613H, OWB, AWP V0	ZIA HILLS UNIT 2331 WC #710H, OWB, PWP0 V0	SHELTLAND 11 FEDERAL #716H, OWB, PWP0 V0
ZIA HILLS UNIT 2331 WC #708H, OWB, PWP0 V0	SHELTLAND 2-11 STATE FEDERAL COM #713H, OWB, PWP0 V0	ZIA HILLS UNIT 2331 WC #712H, OWB, PWP0 V0
ZHU 2331 WC #6H, ST01, AWP0 V0	ZHU 2331 WC #6H, OWB, AWP (PH) 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 #709H

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 #709H
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 #709H	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 #709H					
Well Position	+N/-S	105.7 usft	Northing:	371,840.68 usft	Latitude:	32° 1' 15.353 N
	+E/-W	4,244.5 usft	Easting:	682,893.97 usft	Longitude:	103° 44' 35.567 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	47,263.53598073

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	356.32	

Plan Survey Tool Program	Date	11/16/2022			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	2,500.0 PWP0 (OWB)	r.5 SDI_KPR_ADK SDI Keeper ADK rev.5		
2	2,500.0	11,019.6 PWP0 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,019.6	21,760.3 PWP0 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,950.0	9.00	270.04	2,948.2	0.0	-35.3	2.00	2.00	0.00	270.04	
5,999.4	9.00	270.04	5,960.0	0.4	-512.3	0.00	0.00	0.00	0.00	
6,899.4	0.00	0.00	6,856.3	0.4	-582.8	1.00	-1.00	0.00	180.00	
11,019.6	0.00	0.00	10,976.5	0.4	-582.8	0.00	0.00	0.00	0.00	
11,769.6	90.00	359.48	11,454.0	477.9	-587.2	12.00	12.00	0.00	359.48	
21,760.3	90.00	359.48	11,454.0	10,468.1	-677.8	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 #709H
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 #709H	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	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	2.00	270.04	2,600.0	0.0	-1.7	0.1	2.00	2.00	0.00
2,700.0	4.00	270.04	2,699.8	0.0	-7.0	0.5	2.00	2.00	0.00
2,800.0	6.00	270.04	2,799.5	0.0	-15.7	1.0	2.00	2.00	0.00
2,900.0	8.00	270.04	2,898.7	0.0	-27.9	1.8	2.00	2.00	0.00
2,950.0	9.00	270.04	2,948.2	0.0	-35.3	2.3	2.00	2.00	0.00
3,000.0	9.00	270.04	2,997.5	0.0	-43.1	2.8	0.00	0.00	0.00
3,100.0	9.00	270.04	3,096.3	0.0	-58.7	3.8	0.00	0.00	0.00
3,200.0	9.00	270.04	3,195.1	0.1	-74.4	4.8	0.00	0.00	0.00
3,300.0	9.00	270.04	3,293.8	0.1	-90.0	5.8	0.00	0.00	0.00
3,400.0	9.00	270.04	3,392.6	0.1	-105.7	6.9	0.00	0.00	0.00
3,500.0	9.00	270.04	3,491.4	0.1	-121.3	7.9	0.00	0.00	0.00
3,600.0	9.00	270.04	3,590.1	0.1	-137.0	8.9	0.00	0.00	0.00
3,700.0	9.00	270.04	3,688.9	0.1	-152.6	9.9	0.00	0.00	0.00
3,800.0	9.00	270.04	3,787.7	0.1	-168.2	10.9	0.00	0.00	0.00
3,900.0	9.00	270.04	3,886.5	0.1	-183.9	11.9	0.00	0.00	0.00
4,000.0	9.00	270.04	3,985.2	0.1	-199.5	13.0	0.00	0.00	0.00
4,100.0	9.00	270.04	4,084.0	0.2	-215.2	14.0	0.00	0.00	0.00
4,200.0	9.00	270.04	4,182.8	0.2	-230.8	15.0	0.00	0.00	0.00
4,300.0	9.00	270.04	4,281.5	0.2	-246.5	16.0	0.00	0.00	0.00
4,400.0	9.00	270.04	4,380.3	0.2	-262.1	17.0	0.00	0.00	0.00
4,500.0	9.00	270.04	4,479.1	0.2	-277.7	18.0	0.00	0.00	0.00
4,600.0	9.00	270.04	4,577.8	0.2	-293.4	19.1	0.00	0.00	0.00
4,700.0	9.00	270.04	4,676.6	0.2	-309.0	20.1	0.00	0.00	0.00
4,800.0	9.00	270.04	4,775.4	0.2	-324.7	21.1	0.00	0.00	0.00
4,900.0	9.00	270.04	4,874.1	0.2	-340.3	22.1	0.00	0.00	0.00
5,000.0	9.00	270.04	4,972.9	0.2	-356.0	23.1	0.00	0.00	0.00
5,100.0	9.00	270.04	5,071.7	0.3	-371.6	24.1	0.00	0.00	0.00
5,200.0	9.00	270.04	5,170.5	0.3	-387.2	25.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	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	9.00	270.04	5,269.2	0.3	-402.9	26.2	0.00	0.00	0.00
5,400.0	9.00	270.04	5,368.0	0.3	-418.5	27.2	0.00	0.00	0.00
5,500.0	9.00	270.04	5,466.8	0.3	-434.2	28.2	0.00	0.00	0.00
5,600.0	9.00	270.04	5,565.5	0.3	-449.8	29.2	0.00	0.00	0.00
5,700.0	9.00	270.04	5,664.3	0.3	-465.5	30.2	0.00	0.00	0.00
5,800.0	9.00	270.04	5,763.1	0.3	-481.1	31.3	0.00	0.00	0.00
5,900.0	9.00	270.04	5,861.8	0.3	-496.8	32.3	0.00	0.00	0.00
5,999.4	9.00	270.04	5,960.0	0.4	-512.3	33.3	0.00	0.00	0.00
6,100.0	7.99	270.04	6,059.5	0.4	-527.2	34.2	1.00	-1.00	0.00
6,200.0	6.99	270.04	6,158.6	0.4	-540.2	35.1	1.00	-1.00	0.00
6,300.0	5.99	270.04	6,258.0	0.4	-551.5	35.8	1.00	-1.00	0.00
6,400.0	4.99	270.04	6,357.5	0.4	-561.1	36.4	1.00	-1.00	0.00
6,500.0	3.99	270.04	6,457.2	0.4	-568.9	37.0	1.00	-1.00	0.00
6,600.0	2.99	270.04	6,557.0	0.4	-575.0	37.4	1.00	-1.00	0.00
6,700.0	1.99	270.04	6,657.0	0.4	-579.4	37.6	1.00	-1.00	0.00
6,800.0	0.99	270.04	6,756.9	0.4	-582.0	37.8	1.00	-1.00	0.00
6,899.4	0.00	0.00	6,856.3	0.4	-582.8	37.9	1.00	-1.00	0.00
7,000.0	0.00	0.00	6,956.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,100.0	0.00	0.00	7,056.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,156.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,256.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,356.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,456.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,556.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,656.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,756.9	0.4	-582.8	37.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,856.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,956.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,056.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,156.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,256.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,356.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,456.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,556.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,656.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,756.9	0.4	-582.8	37.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,856.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,956.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,100.0	0.00	0.00	9,056.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,156.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,256.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,356.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,456.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,556.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,656.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,756.9	0.4	-582.8	37.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,856.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,956.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,056.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,156.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,256.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,356.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,500.0	0.00	0.00	10,456.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,556.9	0.4	-582.8	37.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	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)
10,700.0	0.00	0.00	10,656.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,756.9	0.4	-582.8	37.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,856.9	0.4	-582.8	37.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,956.9	0.4	-582.8	37.9	0.00	0.00	0.00
11,019.6	0.00	0.00	10,976.5	0.4	-582.8	37.9	0.00	0.00	0.00
11,025.0	0.65	359.48	10,981.9	0.4	-582.8	37.9	12.00	12.00	0.00
11,050.0	3.65	359.48	11,006.9	1.4	-582.8	38.8	12.00	12.00	0.00
11,075.0	6.65	359.48	11,031.8	3.6	-582.9	41.1	12.00	12.00	0.00
11,100.0	9.65	359.48	11,056.5	7.2	-582.9	44.6	12.00	12.00	0.00
11,125.0	12.65	359.48	11,081.1	12.0	-582.9	49.4	12.00	12.00	0.00
11,150.0	15.65	359.48	11,105.3	18.1	-583.0	55.5	12.00	12.00	0.00
11,175.0	18.65	359.48	11,129.2	25.5	-583.1	62.9	12.00	12.00	0.00
11,200.0	21.65	359.48	11,152.7	34.1	-583.1	71.5	12.00	12.00	0.00
11,225.0	24.65	359.48	11,175.6	43.9	-583.2	81.3	12.00	12.00	0.00
11,250.0	27.65	359.48	11,198.1	54.9	-583.3	92.3	12.00	12.00	0.00
11,275.0	30.65	359.48	11,219.9	67.1	-583.4	104.4	12.00	12.00	0.00
11,300.0	33.65	359.48	11,241.1	80.4	-583.6	117.7	12.00	12.00	0.00
11,325.0	36.65	359.48	11,261.5	94.8	-583.7	132.1	12.00	12.00	0.00
11,350.0	39.65	359.48	11,281.2	110.2	-583.8	147.5	12.00	12.00	0.00
11,375.0	42.65	359.48	11,300.0	126.7	-584.0	163.9	12.00	12.00	0.00
11,400.0	45.65	359.48	11,317.9	144.1	-584.1	181.3	12.00	12.00	0.00
11,425.0	48.65	359.48	11,334.9	162.4	-584.3	199.6	12.00	12.00	0.00
11,450.0	51.65	359.48	11,351.0	181.6	-584.5	218.8	12.00	12.00	0.00
11,475.0	54.65	359.48	11,365.9	201.6	-584.7	238.7	12.00	12.00	0.00
11,500.0	57.65	359.48	11,379.9	222.3	-584.9	259.5	12.00	12.00	0.00
11,525.0	60.65	359.48	11,392.7	243.8	-585.0	280.9	12.00	12.00	0.00
11,550.0	63.65	359.48	11,404.4	265.9	-585.3	303.0	12.00	12.00	0.00
11,575.0	66.65	359.48	11,414.9	288.6	-585.5	325.6	12.00	12.00	0.00
11,600.0	69.65	359.48	11,424.2	311.8	-585.7	348.8	12.00	12.00	0.00
11,625.0	72.65	359.48	11,432.3	335.4	-585.9	372.4	12.00	12.00	0.00
11,650.0	75.65	359.48	11,439.1	359.5	-586.1	396.4	12.00	12.00	0.00
11,675.0	78.65	359.48	11,444.7	383.9	-586.3	420.7	12.00	12.00	0.00
11,700.0	81.65	359.48	11,448.9	408.5	-586.5	445.3	12.00	12.00	0.00
11,725.0	84.65	359.48	11,451.9	433.3	-586.8	470.1	12.00	12.00	0.00
11,750.0	87.65	359.48	11,453.6	458.2	-587.0	495.0	12.00	12.00	0.00
11,769.6	90.00	359.48	11,454.0	477.9	-587.2	514.6	12.00	12.00	0.00
11,800.0	90.00	359.48	11,454.0	508.2	-587.4	544.9	0.00	0.00	0.00
11,900.0	90.00	359.48	11,454.0	608.2	-588.4	644.8	0.00	0.00	0.00
12,000.0	90.00	359.48	11,454.0	708.2	-589.3	744.6	0.00	0.00	0.00
12,100.0	90.00	359.48	11,454.0	808.2	-590.2	844.5	0.00	0.00	0.00
12,200.0	90.00	359.48	11,454.0	908.2	-591.1	944.3	0.00	0.00	0.00
12,300.0	90.00	359.48	11,454.0	1,008.2	-592.0	1,044.2	0.00	0.00	0.00
12,400.0	90.00	359.48	11,454.0	1,108.2	-592.9	1,144.0	0.00	0.00	0.00
12,500.0	90.00	359.48	11,454.0	1,208.2	-593.8	1,243.9	0.00	0.00	0.00
12,600.0	90.00	359.48	11,454.0	1,308.2	-594.7	1,343.7	0.00	0.00	0.00
12,700.0	90.00	359.48	11,454.0	1,408.2	-595.6	1,443.6	0.00	0.00	0.00
12,800.0	90.00	359.48	11,454.0	1,508.2	-596.5	1,543.4	0.00	0.00	0.00
12,900.0	90.00	359.48	11,454.0	1,608.2	-597.4	1,643.2	0.00	0.00	0.00
13,000.0	90.00	359.48	11,454.0	1,708.2	-598.3	1,743.1	0.00	0.00	0.00
13,100.0	90.00	359.48	11,454.0	1,808.2	-599.2	1,842.9	0.00	0.00	0.00
13,200.0	90.00	359.48	11,454.0	1,908.2	-600.2	1,942.8	0.00	0.00	0.00
13,300.0	90.00	359.48	11,454.0	2,008.2	-601.1	2,042.6	0.00	0.00	0.00
13,400.0	90.00	359.48	11,454.0	2,108.2	-602.0	2,142.5	0.00	0.00	0.00
13,500.0	90.00	359.48	11,454.0	2,208.2	-602.9	2,242.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	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)	
13,600.0	90.00	359.48	11,454.0	2,308.2	-603.8	2,342.2	0.00	0.00	0.00	
13,700.0	90.00	359.48	11,454.0	2,408.1	-604.7	2,442.0	0.00	0.00	0.00	
13,800.0	90.00	359.48	11,454.0	2,508.1	-605.6	2,541.9	0.00	0.00	0.00	
13,900.0	90.00	359.48	11,454.0	2,608.1	-606.5	2,641.7	0.00	0.00	0.00	
14,000.0	90.00	359.48	11,454.0	2,708.1	-607.4	2,741.6	0.00	0.00	0.00	
14,100.0	90.00	359.48	11,454.0	2,808.1	-608.3	2,841.4	0.00	0.00	0.00	
14,200.0	90.00	359.48	11,454.0	2,908.1	-609.2	2,941.3	0.00	0.00	0.00	
14,300.0	90.00	359.48	11,454.0	3,008.1	-610.1	3,041.1	0.00	0.00	0.00	
14,400.0	90.00	359.48	11,454.0	3,108.1	-611.0	3,141.0	0.00	0.00	0.00	
14,500.0	90.00	359.48	11,454.0	3,208.1	-612.0	3,240.8	0.00	0.00	0.00	
14,600.0	90.00	359.48	11,454.0	3,308.1	-612.9	3,340.7	0.00	0.00	0.00	
14,700.0	90.00	359.48	11,454.0	3,408.1	-613.8	3,440.5	0.00	0.00	0.00	
14,800.0	90.00	359.48	11,454.0	3,508.1	-614.7	3,540.4	0.00	0.00	0.00	
14,900.0	90.00	359.48	11,454.0	3,608.1	-615.6	3,640.2	0.00	0.00	0.00	
15,000.0	90.00	359.48	11,454.0	3,708.1	-616.5	3,740.0	0.00	0.00	0.00	
15,100.0	90.00	359.48	11,454.0	3,808.1	-617.4	3,839.9	0.00	0.00	0.00	
15,200.0	90.00	359.48	11,454.0	3,908.1	-618.3	3,939.7	0.00	0.00	0.00	
15,300.0	90.00	359.48	11,454.0	4,008.1	-619.2	4,039.6	0.00	0.00	0.00	
15,400.0	90.00	359.48	11,454.0	4,108.1	-620.1	4,139.4	0.00	0.00	0.00	
15,500.0	90.00	359.48	11,454.0	4,208.1	-621.0	4,239.3	0.00	0.00	0.00	
15,600.0	90.00	359.48	11,454.0	4,308.1	-621.9	4,339.1	0.00	0.00	0.00	
15,700.0	90.00	359.48	11,454.0	4,408.1	-622.8	4,439.0	0.00	0.00	0.00	
15,800.0	90.00	359.48	11,454.0	4,508.1	-623.8	4,538.8	0.00	0.00	0.00	
15,900.0	90.00	359.48	11,454.0	4,608.1	-624.7	4,638.7	0.00	0.00	0.00	
16,000.0	90.00	359.48	11,454.0	4,708.1	-625.6	4,738.5	0.00	0.00	0.00	
16,100.0	90.00	359.48	11,454.0	4,808.1	-626.5	4,838.4	0.00	0.00	0.00	
16,200.0	90.00	359.48	11,454.0	4,908.0	-627.4	4,938.2	0.00	0.00	0.00	
16,300.0	90.00	359.48	11,454.0	5,008.0	-628.3	5,038.1	0.00	0.00	0.00	
16,400.0	90.00	359.48	11,454.0	5,108.0	-629.2	5,137.9	0.00	0.00	0.00	
16,500.0	90.00	359.48	11,454.0	5,208.0	-630.1	5,237.8	0.00	0.00	0.00	
16,600.0	90.00	359.48	11,454.0	5,308.0	-631.0	5,337.6	0.00	0.00	0.00	
16,700.0	90.00	359.48	11,454.0	5,408.0	-631.9	5,437.5	0.00	0.00	0.00	
16,800.0	90.00	359.48	11,454.0	5,508.0	-632.8	5,537.3	0.00	0.00	0.00	
16,900.0	90.00	359.48	11,454.0	5,608.0	-633.7	5,637.2	0.00	0.00	0.00	
17,000.0	90.00	359.48	11,454.0	5,708.0	-634.6	5,737.0	0.00	0.00	0.00	
17,100.0	90.00	359.48	11,454.0	5,808.0	-635.6	5,836.8	0.00	0.00	0.00	
17,200.0	90.00	359.48	11,454.0	5,908.0	-636.5	5,936.7	0.00	0.00	0.00	
17,300.0	90.00	359.48	11,454.0	6,008.0	-637.4	6,036.5	0.00	0.00	0.00	
17,400.0	90.00	359.48	11,454.0	6,108.0	-638.3	6,136.4	0.00	0.00	0.00	
17,500.0	90.00	359.48	11,454.0	6,208.0	-639.2	6,236.2	0.00	0.00	0.00	
17,600.0	90.00	359.48	11,454.0	6,308.0	-640.1	6,336.1	0.00	0.00	0.00	
17,700.0	90.00	359.48	11,454.0	6,408.0	-641.0	6,435.9	0.00	0.00	0.00	
17,800.0	90.00	359.48	11,454.0	6,508.0	-641.9	6,535.8	0.00	0.00	0.00	
17,900.0	90.00	359.48	11,454.0	6,608.0	-642.8	6,635.6	0.00	0.00	0.00	
18,000.0	90.00	359.48	11,454.0	6,708.0	-643.7	6,735.5	0.00	0.00	0.00	
18,100.0	90.00	359.48	11,454.0	6,808.0	-644.6	6,835.3	0.00	0.00	0.00	
18,200.0	90.00	359.48	11,454.0	6,908.0	-645.5	6,935.2	0.00	0.00	0.00	
18,300.0	90.00	359.48	11,454.0	7,008.0	-646.4	7,035.0	0.00	0.00	0.00	
18,400.0	90.00	359.48	11,454.0	7,108.0	-647.3	7,134.9	0.00	0.00	0.00	
18,500.0	90.00	359.48	11,454.0	7,208.0	-648.3	7,234.7	0.00	0.00	0.00	
18,600.0	90.00	359.48	11,454.0	7,307.9	-649.2	7,334.6	0.00	0.00	0.00	
18,700.0	90.00	359.48	11,454.0	7,407.9	-650.1	7,434.4	0.00	0.00	0.00	
18,800.0	90.00	359.48	11,454.0	7,507.9	-651.0	7,534.3	0.00	0.00	0.00	
18,900.0	90.00	359.48	11,454.0	7,607.9	-651.9	7,634.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2331 WC #709H
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 #709H	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)	
19,000.0	90.00	359.48	11,454.0	7,707.9	-652.8	7,733.9	0.00	0.00	0.00	
19,100.0	90.00	359.48	11,454.0	7,807.9	-653.7	7,833.8	0.00	0.00	0.00	
19,200.0	90.00	359.48	11,454.0	7,907.9	-654.6	7,933.6	0.00	0.00	0.00	
19,300.0	90.00	359.48	11,454.0	8,007.9	-655.5	8,033.5	0.00	0.00	0.00	
19,400.0	90.00	359.48	11,454.0	8,107.9	-656.4	8,133.3	0.00	0.00	0.00	
19,500.0	90.00	359.48	11,454.0	8,207.9	-657.3	8,233.2	0.00	0.00	0.00	
19,600.0	90.00	359.48	11,454.0	8,307.9	-658.2	8,333.0	0.00	0.00	0.00	
19,700.0	90.00	359.48	11,454.0	8,407.9	-659.1	8,432.9	0.00	0.00	0.00	
19,800.0	90.00	359.48	11,454.0	8,507.9	-660.1	8,532.7	0.00	0.00	0.00	
19,900.0	90.00	359.48	11,454.0	8,607.9	-661.0	8,632.6	0.00	0.00	0.00	
20,000.0	90.00	359.48	11,454.0	8,707.9	-661.9	8,732.4	0.00	0.00	0.00	
20,100.0	90.00	359.48	11,454.0	8,807.9	-662.8	8,832.3	0.00	0.00	0.00	
20,200.0	90.00	359.48	11,454.0	8,907.9	-663.7	8,932.1	0.00	0.00	0.00	
20,300.0	90.00	359.48	11,454.0	9,007.9	-664.6	9,032.0	0.00	0.00	0.00	
20,400.0	90.00	359.48	11,454.0	9,107.9	-665.5	9,131.8	0.00	0.00	0.00	
20,500.0	90.00	359.48	11,454.0	9,207.9	-666.4	9,231.7	0.00	0.00	0.00	
20,600.0	90.00	359.48	11,454.0	9,307.9	-667.3	9,331.5	0.00	0.00	0.00	
20,700.0	90.00	359.48	11,454.0	9,407.9	-668.2	9,431.4	0.00	0.00	0.00	
20,800.0	90.00	359.48	11,454.0	9,507.9	-669.1	9,531.2	0.00	0.00	0.00	
20,900.0	90.00	359.48	11,454.0	9,607.9	-670.0	9,631.1	0.00	0.00	0.00	
21,000.0	90.00	359.48	11,454.0	9,707.8	-670.9	9,730.9	0.00	0.00	0.00	
21,100.0	90.00	359.48	11,454.0	9,807.8	-671.9	9,830.7	0.00	0.00	0.00	
21,200.0	90.00	359.48	11,454.0	9,907.8	-672.8	9,930.6	0.00	0.00	0.00	
21,300.0	90.00	359.48	11,454.0	10,007.8	-673.7	10,030.4	0.00	0.00	0.00	
21,400.0	90.00	359.48	11,454.0	10,107.8	-674.6	10,130.3	0.00	0.00	0.00	
21,500.0	90.00	359.48	11,454.0	10,207.8	-675.5	10,230.1	0.00	0.00	0.00	
21,600.0	90.00	359.48	11,454.0	10,307.8	-676.4	10,330.0	0.00	0.00	0.00	
21,700.0	90.00	359.48	11,454.0	10,407.8	-677.3	10,429.8	0.00	0.00	0.00	
21,760.3	90.00	359.48	11,454.0	10,468.1	-677.8	10,490.0	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP (ZIA HILLS UNIT 23 - hit/miss target - Shape - Point	0.00	0.00	11,454.0	10,489.8	-678.7	382,330.51	682,215.28	32° 2' 59.198 N	103° 44' 42.787 W	
- plan misses target center by 21.8usft at 21760.3usft MD (11454.0 TVD, 10468.1 N, -677.8 E)										
PBHL (ZIA HILLS UNIT : - plan misses target center by 71.7usft at 21760.3usft MD (11454.0 TVD, 10468.1 N, -677.8 E) - Rectangle (sides W100.0 H10,515.0 D20.0)	0.00	179.58	11,454.0	10,539.8	-678.7	382,380.50	682,215.28	32° 2' 59.693 N	103° 44' 42.784 W	
FTP (ZIA HILLS UNIT 2: - plan misses target center by 180.3usft at 11405.6usft MD (11321.8 TVD, 148.1 N, -584.2 E) - Circle (radius 50.0)	0.00	0.00	11,454.0	25.5	-582.8	371,866.17	682,311.19	32° 1' 15.636 N	103° 44' 42.335 W	

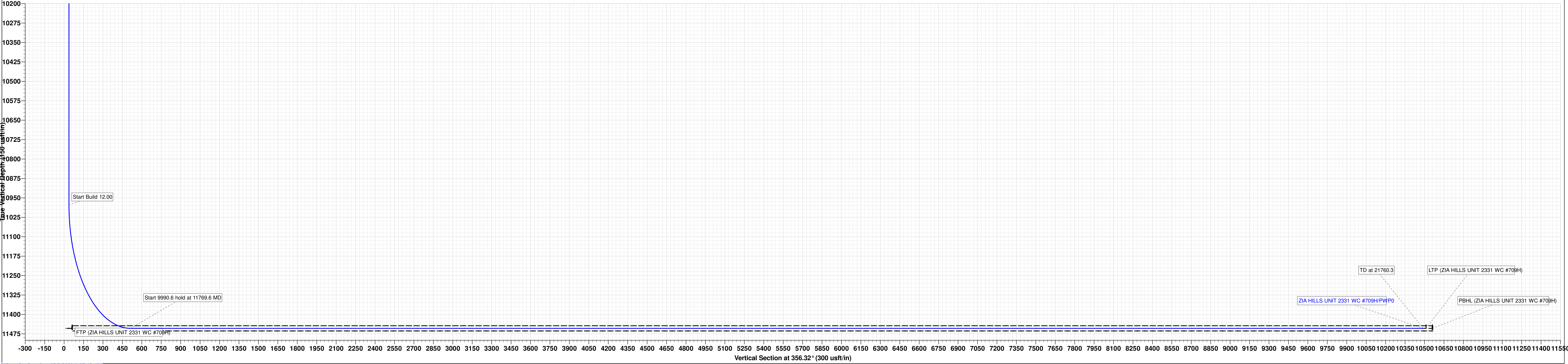
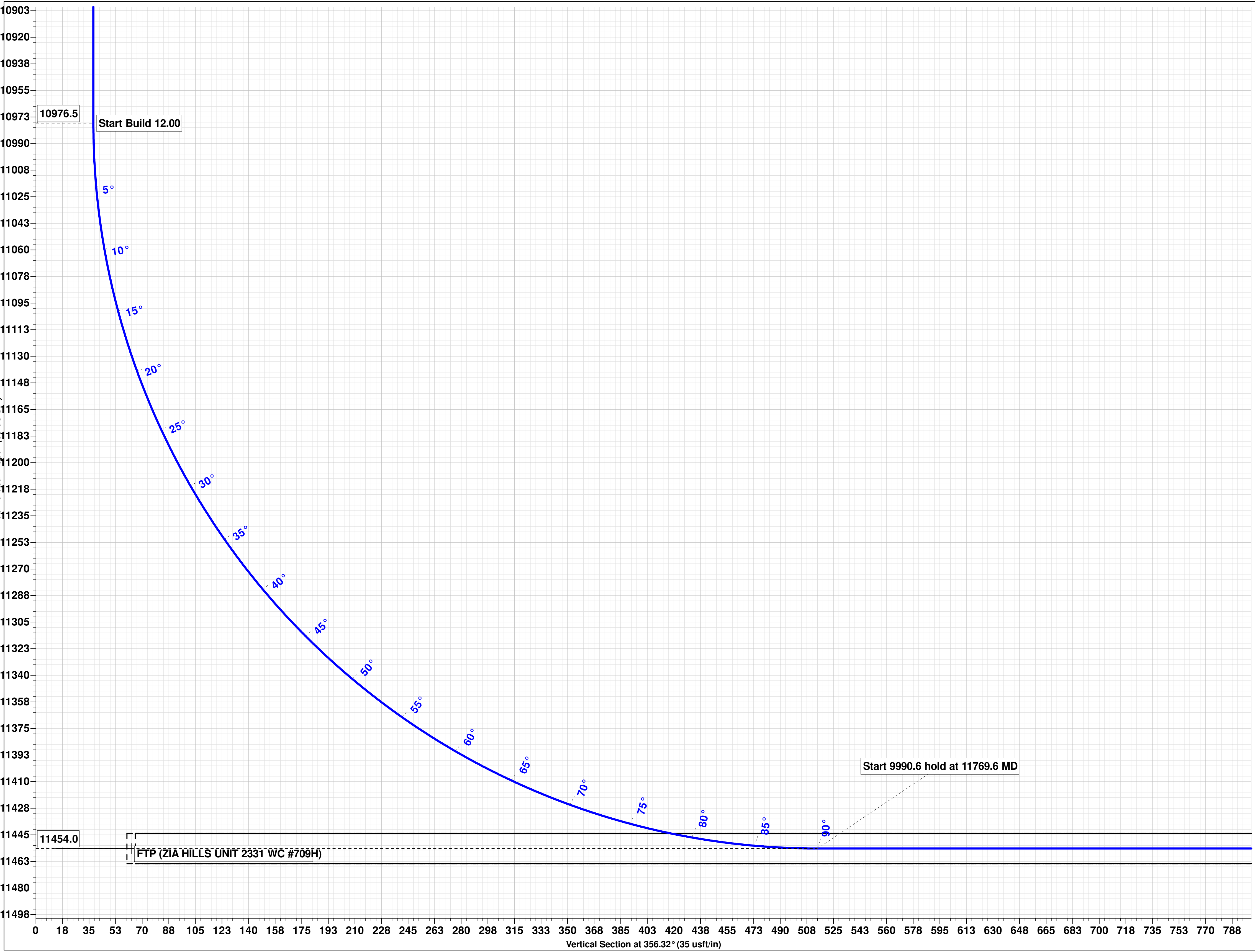
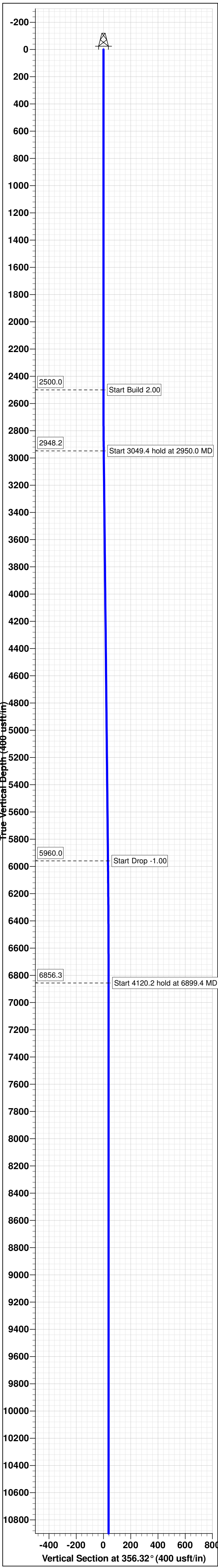
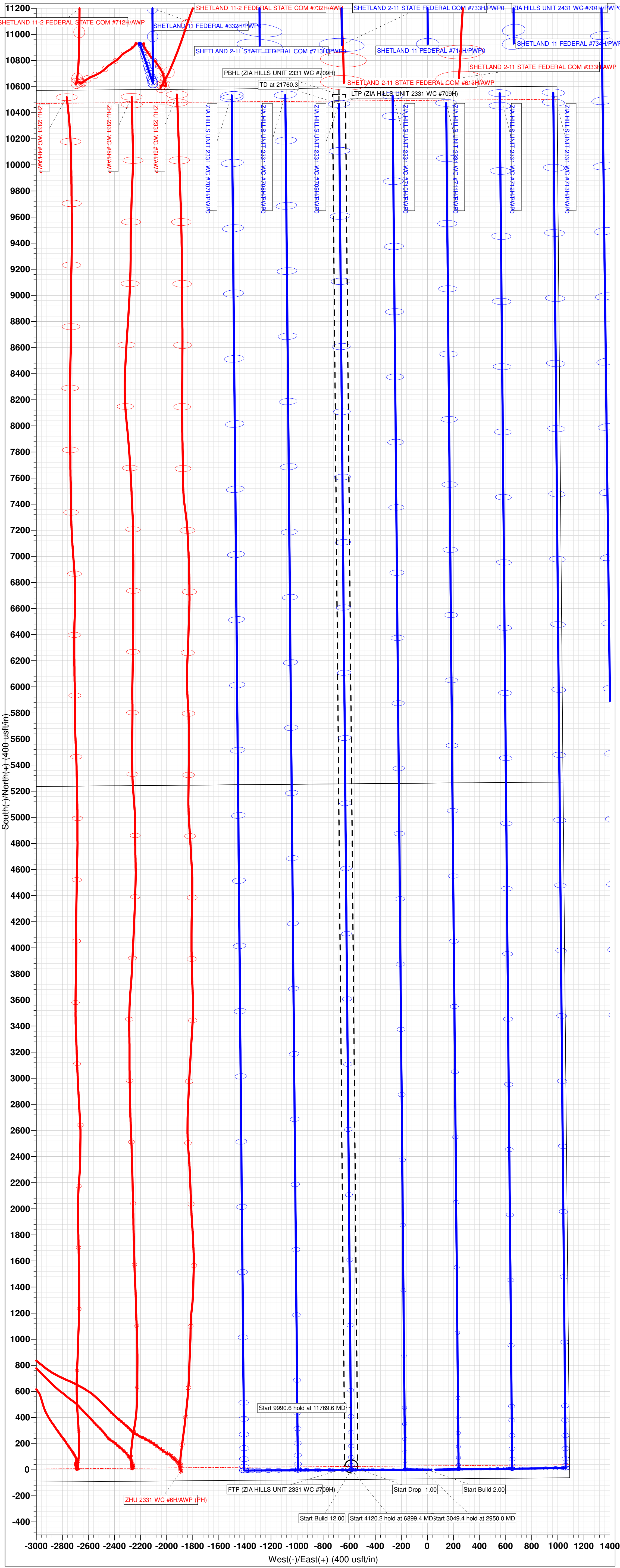


Project: BULLDOG PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2331 PROJECT
Well: ZIA HILLS UNIT 2331 WC #709H
Wellbore: OWB
Design: PWP0
GL: 3164.0
KB=31ft @ 3195.0usft

WELL DETAILS: ZIA HILLS UNIT 2331 WC #709H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	371840.68	682893.97	32° 1' 15.353 N	103° 44' 35.567 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
FTP (ZIA HILLS UNIT 2331 WC #709H)	11454.0	25.5	-582.8	371866.17	682311.19
LTP (ZIA HILLS UNIT 2331 WC #709H)	11454.0	10469.8	-678.7	382330.51	682215.28
PBHL (ZIA HILLS UNIT 2331 WC #709H)	11454.0	10539.8	-678.7	382380.50	682215.28

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
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0
2950.0	9.00	270.04	2948.2	0.0	-35.3	2.00	270.04	2.3
5999.4	9.00	270.04	5960.0	0.4	-512.3	0.00	0.00	33.3
6899.4	0.00	0.00	6856.3	0.4	-582.8	1.00	180.00	37.9
11019.6	0.00	0.00	10976.5	0.4	-582.8	0.00	0.00	37.9
11769.6	90.00	359.48	11454.0	477.9	-587.2	12.00	359.48	514.6
21760.3	90.00	359.48	11454.0	10468.1	-677.8	0.00	0.00	10490.0



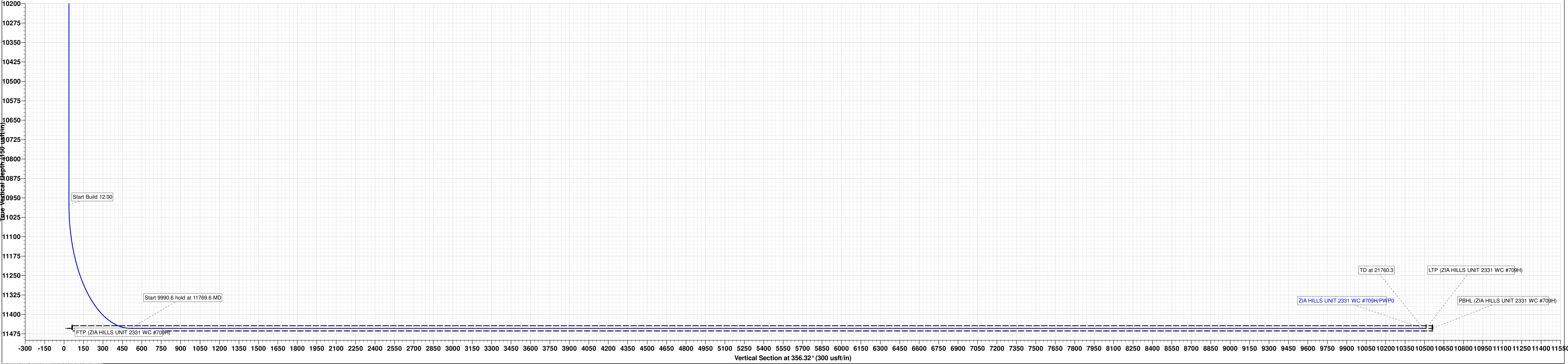
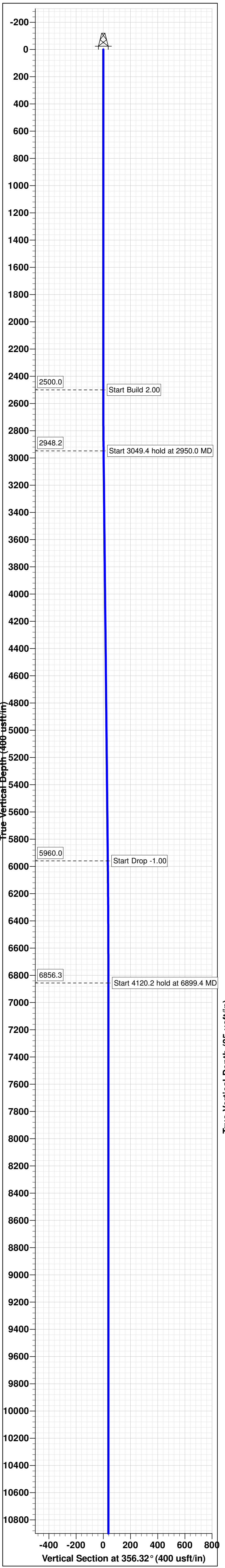
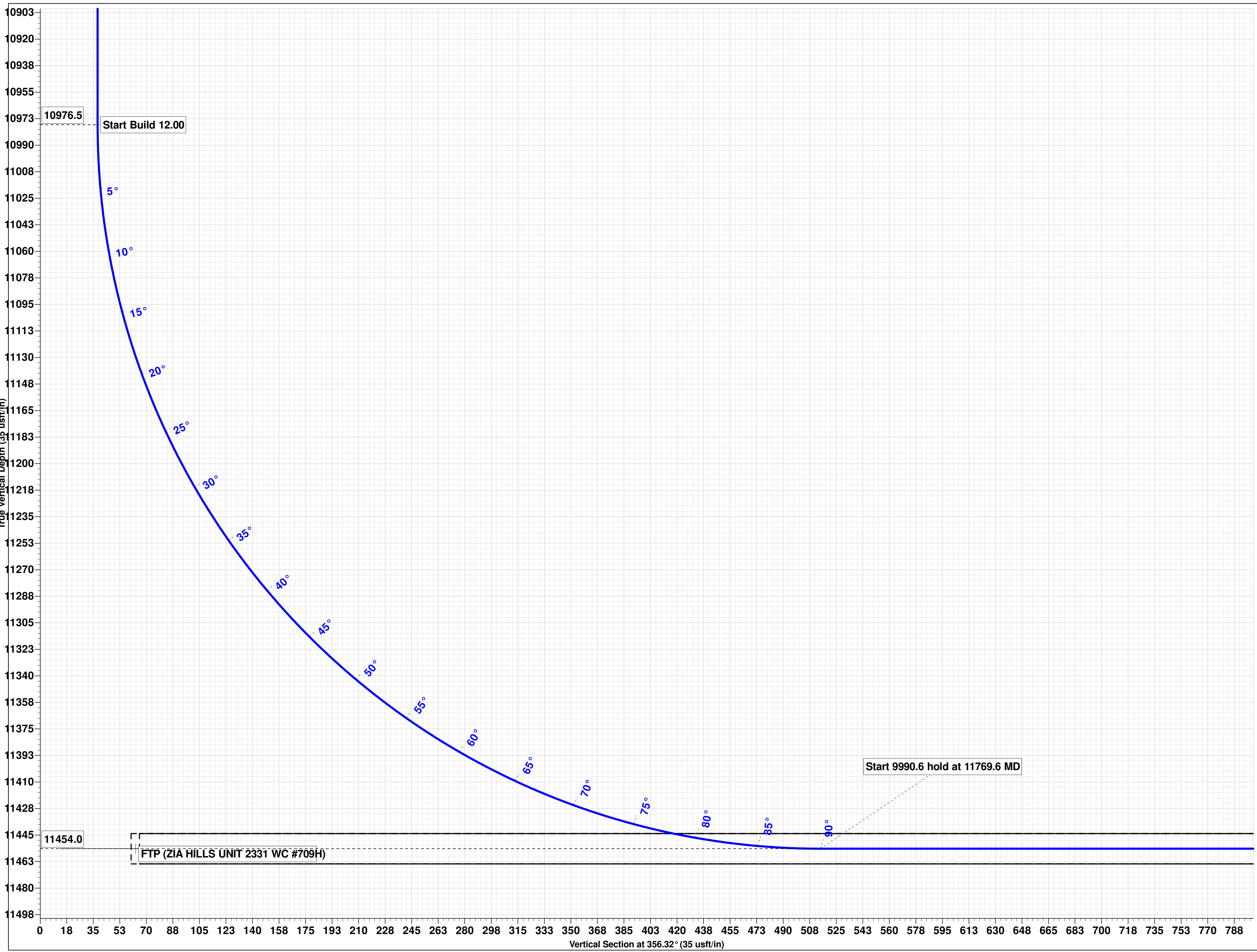
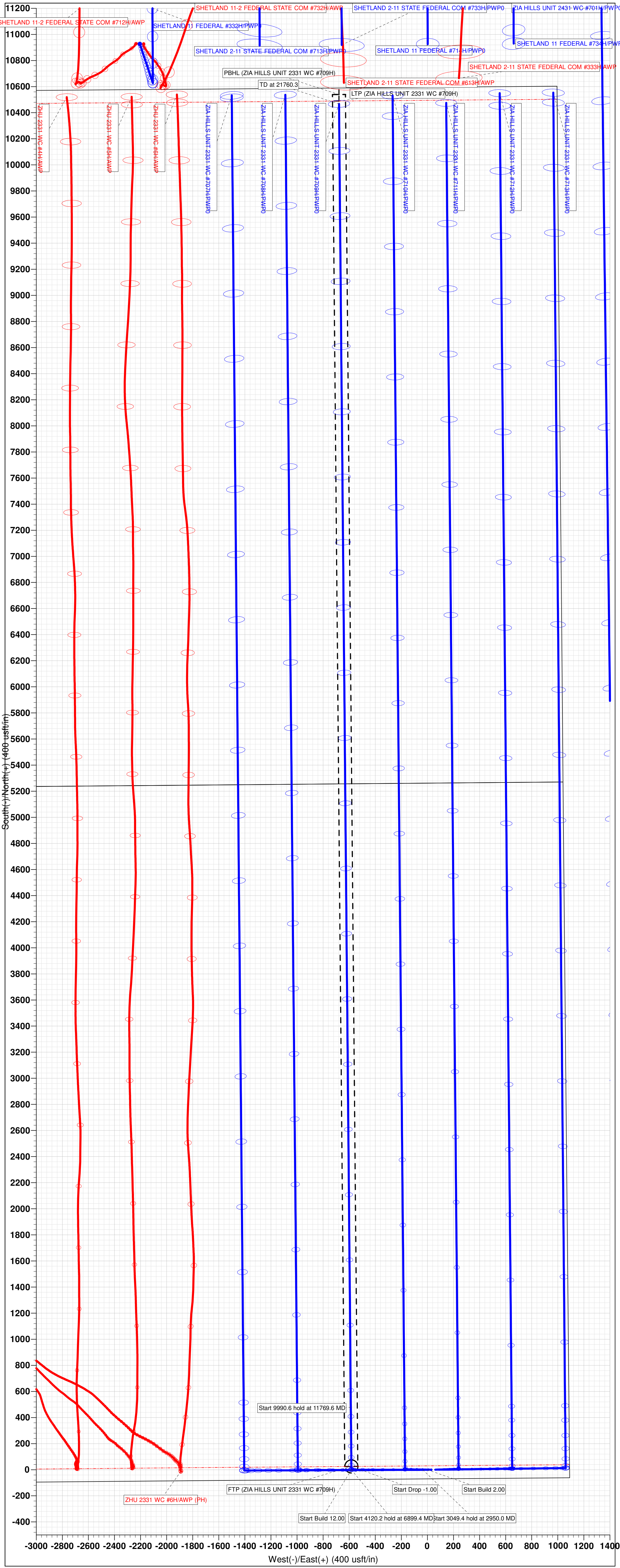


Project: BULLDOG PROSPECT (NM-E)
Site: ZIA HILLS UNIT 2331 PROJECT
Well: ZIA HILLS UNIT 2331 WC #709H
Wellbore: OWB
Design: PWP0
GL: 3164.0
KB=31ft @ 3195.0usft

WELL DETAILS: ZIA HILLS UNIT 2331 WC #709H					
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	371840.68	682893.97	32° 1' 15.353 N	103° 44' 35.567 W

DESIGN TARGET DETAILS					
Name	TVD	+N-S	+E-W	Northing	Easting
FTP (ZIA HILLS UNIT 2331 WC #709H)	11454.0	25.5	-582.8	371866.17	682311.19
LTP (ZIA HILLS UNIT 2331 WC #709H)	11454.0	10469.8	-678.7	382330.51	682215.28
PBHL (ZIA HILLS UNIT 2331 WC #709H)	11454.0	10539.8	-678.7	382380.50	682215.28

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	
2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
2950.0	9.00	270.04	2948.2	0.0	-35.3	2.00	270.04	2.3	
5999.4	9.00	270.04	5960.0	0.4	-512.3	0.00	0.00	33.3	
6899.4	0.00	0.00	6856.3	0.4	-582.8	1.00	180.00	37.9	
11019.6	0.00	0.00	10976.5	0.4	-582.8	0.00	0.00	37.9	
11769.6	90.00	359.48	11454.0	477.9	-587.2	12.00	359.48	514.6	
21760.3	90.00	359.48	11454.0	10468.1	-677.8	0.00	0.00	10490.0	



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 709H
SURFACE HOLE FOOTAGE:	70'/S & 1090'/E
BOTTOM HOLE FOOTAGE:	50'/N & 1673'/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

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District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 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 288935

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288935
	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