

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. 30-015-54448
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
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		13. State
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: SWSW / 445 FSL / 1310 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0221248 / LONG: -103.7359452 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 382 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0211548 / LONG: -103.7389347 (TVD: 11614 feet, MD: 11750 feet)

BHL: NWSW / 2590 FSL / 330 FWL / TWSP: 26S / RANGE: 31E / SECTION: 12 / LAT: 32.0573105 / LONG: -103.7392253 (TVD: 11775 feet, MD: 24803 feet)

BLM Point of Contact

Name: CIJI METHOLA

Title: GIS Support - Adjudicator

Phone: (575) 234-5924

Email: cmethola@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- 54448	2 Pool Code 98081	3 Pool Name Zia Hills; Wolfcamp
4 Property Code 335043	5 Property Name ZIA HILLS UNIT 2431 WC	6 Well Number 701H
7 OGRID No. 217817	8 Operator Name CONOCOPHILLIPS COMPANY	9 Elevation 3175.24'

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
M	24	26-S	31-E		445'	SOUTH	1310'	WEST	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
L	12	26-S	31-E		2590'	SOUTH	330'	WEST	EDDY

12 Dedicated Acres 800	13 Joint or Infill Infill	14 Consolidation Code Unit	15 Order No. R-20080
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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=726477.67 LAT.= 32.02212486° N Y=372299.65 LONG.= 103.73594527° W 445' FSL, 1310' FWL - SECTION 24 FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=725553.10 LAT.= 32.02115485° N Y=371941.68 LONG.= 103.73893476° W 100' FSL, 382' FWL - SECTION 24 LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=725390.99 LAT.= 32.05717312° N Y=385043.87 LONG.= 103.73922528° W 2540' FSL, 330' FWL - SECTION 12 BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=725390.72 LAT.= 32.05731057° N Y=385093.87 LONG.= 103.73922525° W 2590' FSL, 330' FWL - SECTION 12	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>Stan Wagner</i> 11-10-22 Signature Date Stan Wagner Printed Name 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. 10/20/2022 Date of Survey <i>Charles J. Durica</i> Signature and Seal of Professional Surveyor 25490 Certificate Number
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State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Electronically
Via E-permitting

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 Company

OGRID: 217817

Date: 11/08/2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2431 WC 701H	30-015-	M-24-26S-31E	445 FSL & 1310 FWL	± 695	± 2728	± 1621
Zia Hills Unit 2431 WC 702H	30-015-	N-24-26S-31E	445 FSL & 1340 FWL	± 572	± 2246	± 1335
Zia Hills Unit 2431 WC 703H	30-015-	N-24-26S-31E	445 FSL & 1370 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2431 WC 704H	30-015-	N-24-26S-31E	445 FSL & 1400 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2431 WC 705H	30-015-	N-24-26S-31E	445 FSL & 1430 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2431 WC 706H	30-015-	N-24-26S-31E	445 FSL & 1460 FWL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit 2431 WC East Facility SWSW 24-26S-31E [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 2431 WC	Pending	± 2/1/2024	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H						

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

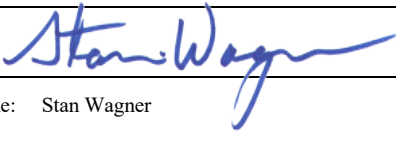
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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.

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: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 11/08/2022
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

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

ConocoPhillips Company - Zia Hills Unit 2431 WC 701H

1. Geologic Formations

TVD of target	11,775' EOL	Pilot hole depth	NA
MD at TD:	24,803'	Deepest expected fresh water:	317'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1039	Water	
Top of Salt	1485	Salt	
Base of Salt	3966	Salt	
Lamar	4187	Salt Water	
Bell Canyon	4224	Salt Water	
Cherry Canyon	5105	Oil/Gas	
Brushy Canyon	6517	Oil/Gas	
Bone Spring Lime	8162	Oil/Gas	
1st Bone Spring Sand	9199	Oil/Gas	
2nd Bone Spring Sand	9857	Oil/Gas	
3rd Bone Spring Sand	11037	Oil/Gas	
Wolfcamp A	11620	Target	
Wolfcamp B	11918	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	1350	10.75"	45.5	J55	BTC	3.38	1.11	11.64	12.96
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.45	1.13	2.88	2.90
8.750"	8500	11100	7.625"	29.7	P110-ICY	W513	1.39	1.71	3.24	1.94
6.75"	0	10600	5.5"	23	P110-CY	BTC	2.11	2.49	2.99	2.99
6.75"	10600	24,803	5.5"	23	P110-CY	W441	1.90	2.24	2.69	2.44
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 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 2431 WC 701H

	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 2431 WC 701H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	665	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1195	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2431 WC 701H

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	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 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 2431 WC 701H

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 - 9.2	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 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 2431 WC 701H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7655 psi at 11775' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

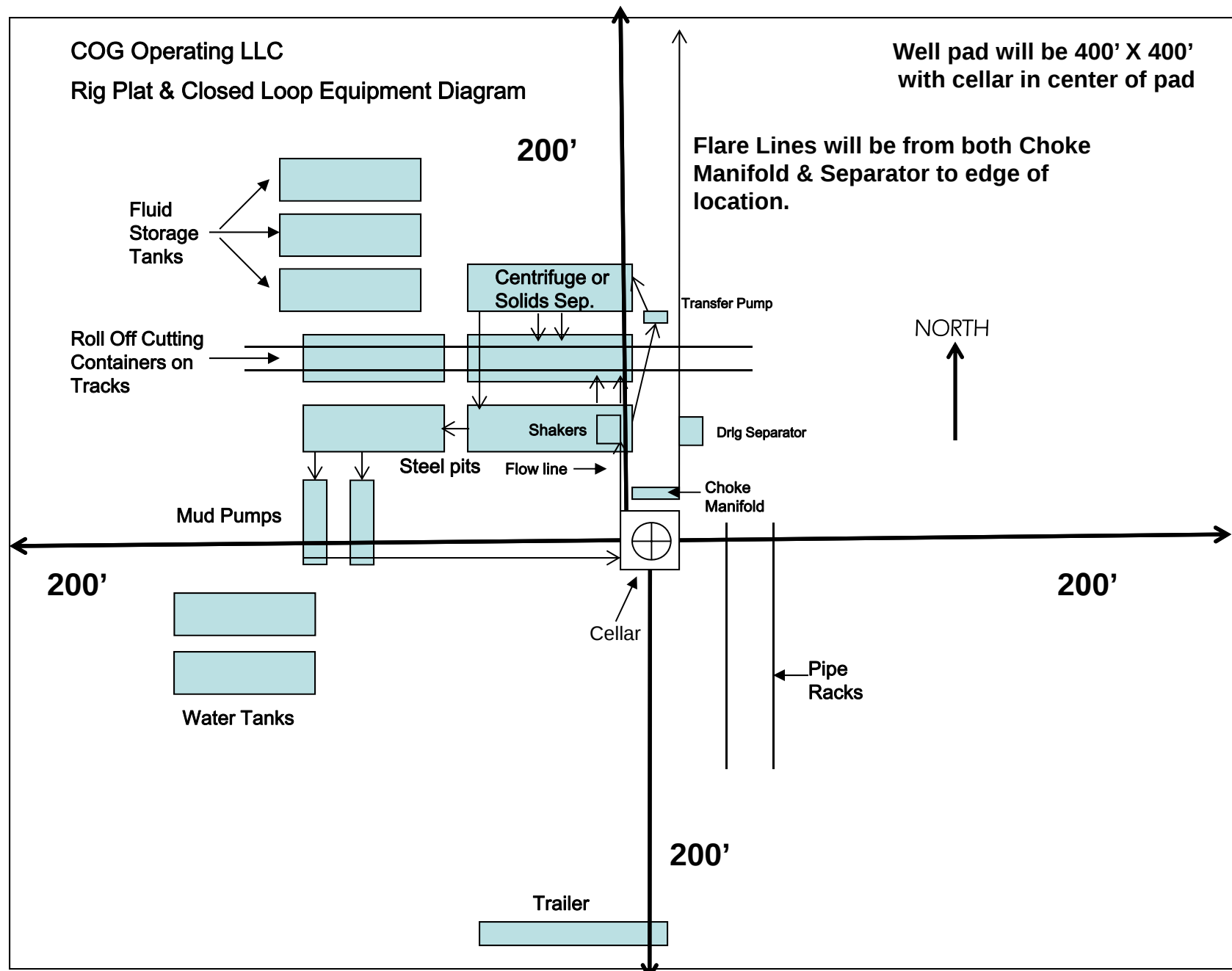


Exhibit 1

"I further certify that COG will comply with Rule 19.15.17 NMAC by using a Closed Loop System."

DELAWARE BASIN EAST

**BULLDOG PROSPECT (NM-E)
ZIA HILLS UNIT 2431 PROJECT
ZIA HILLS UNIT 2431 WC #701H**

**OWB
PWP0**

Anticollision Report

07 November, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Reference	PWP0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,680.4usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	11/7/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,500.0	PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initialzd Cont. rev.5	
1,500.0	11,290.0	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,290.0	24,803.7	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
ZIA HILLS UNIT 2331 PROJECT						
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,592.4	14,160.0	400.4	349.7	7.905	CC
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,600.0	14,160.0	400.4	349.7	7.889	ES
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,700.0	14,160.0	414.6	361.7	7.846	SF
SHETLAND 11 FEDERAL #714H - OWB - PWP0	22,600.0	16,406.1	1,340.4	1,165.8	7.674	SF
SHETLAND 11 FEDERAL #714H - OWB - PWP0	24,803.7	14,202.4	1,324.1	1,162.0	8.170	CC, ES
SHETLAND 11 FEDERAL #734H - OWB - PWP0	22,600.0	16,644.2	684.2	509.4	3.915	SF
SHETLAND 11 FEDERAL #734H - OWB - PWP0	24,803.7	14,440.5	668.0	505.7	4.116	CC, ES
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	24,348.7	13,665.0	2,652.3	2,498.4	17.243	CC
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	24,400.0	13,679.6	2,652.7	2,498.4	17.195	ES
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	24,803.7	14,067.0	2,662.3	2,501.5	16.555	SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	23,600.0	20,563.0	1,077.3	831.5	4.383	SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	24,803.7	19,374.8	1,043.7	807.1	4.411	CC, ES
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	22,292.5	22,058.2	1,994.5	1,730.4	7.552	SF
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	24,718.5	19,628.0	1,973.9	1,730.2	8.102	CC, ES
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	22,500.0	21,917.2	2,626.8	2,365.3	10.046	SF
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	22,600.0	21,850.6	2,625.8	2,364.8	10.059	ES
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	24,803.7	19,647.0	2,608.3	2,366.3	10.778	CC
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	22,500.0	22,097.6	2,001.1	1,741.3	7.702	SF
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	22,600.0	22,033.7	2,000.0	1,740.5	7.706	ES
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	24,803.7	19,830.0	1,982.5	1,741.7	8.232	CC
ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0	22,100.8	21,760.2	2,045.8	1,878.0	12.192	CC, ES
ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0	22,300.0	21,760.2	2,055.5	1,886.1	12.134	SF
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	22,158.7	21,956.2	1,616.4	1,449.3	9.670	CC, ES
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	22,300.0	21,956.2	1,622.6	1,454.3	9.644	SF
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	8,293.3	8,205.5	1,233.6	1,190.0	28.286	CC
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	22,100.0	21,724.9	1,240.0	1,073.3	7.442	ES
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	22,200.0	21,724.9	1,244.2	1,076.8	7.433	SF
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	22,167.4	21,996.3	801.6	632.5	4.741	CC, ES
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	22,200.0	21,996.3	802.2	632.8	4.735	SF
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	8,293.3	8,283.9	412.4	356.1	7.329	CC
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	22,166.3	21,875.5	490.9	319.9	2.870	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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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						
SNAPPING 12 1 FEDERAL #332H - OWB - AWP	24,803.7	11,429.0	1,687.6	1,546.1	11.928	CC, ES, SF
SNAPPING 12 1 FEDERAL #621H - OWB - AWP	24,803.7	11,475.8	635.2	510.2	5.083	CC, ES, SF
SNAPPING 12 1 FEDERAL #711H - OWB - AWP	24,803.7	11,736.7	1,092.1	948.2	7.593	CC, ES, SF
SNAPPING 12 1 FEDERAL #712H - OWB - AWP	24,803.7	12,071.0	1,859.3	1,713.9	12.790	CC, ES, SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	1,372.9	1,374.3	17.4	8.2	1.901	Advise and Monitor, CC, ES,
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	1,366.6	1,368.0	55.0	46.0	6.152	CC, ES
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	24,800.0	24,746.9	804.0	599.8	3.938	SF
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	916.4	917.1	89.9	82.1	11.458	CC
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,000.0	1,000.0	89.9	81.8	11.114	ES
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	24,803.7	24,580.8	1,218.5	1,014.1	5.962	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	916.3	917.5	119.7	111.8	15.250	CC
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,000.0	1,000.0	119.7	111.6	14.793	ES
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	24,803.7	24,774.6	1,608.0	1,401.9	7.801	SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	916.4	917.3	150.0	142.2	19.159	CC
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,000.0	1,000.0	150.0	142.0	18.776	ES
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	24,803.7	24,586.9	1,987.8	1,780.1	9.573	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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2331 PROJECT						
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	24,803.7	14,160.0				Out of Range @TD
SHETLAND 11 FEDERAL #714H - OWB - PWP0	24,803.7	14,202.4	1,324.1	1,162.0	8.170	CC, ES
SHETLAND 11 FEDERAL #734H - OWB - PWP0	24,803.7	14,440.5	668.0	505.7	4.116	CC, ES
SHETLAND 11-2 FEDERAL STATE COM #732H - OWB	24,803.7	14,067.0	2,662.3	2,501.5	16.555	SF
SHETLAND 2-11 STATE FEDERAL COM #333H - OWB	24,803.7	19,374.8	1,043.7	807.1	4.411	CC, ES
SHETLAND 2-11 STATE FEDERAL COM #613H - OWB	24,803.7	19,591.1	1,974.6	1,731.0	8.108	
SHETLAND 2-11 STATE FEDERAL COM #713H - OWB	24,803.7	19,647.0	2,608.3	2,366.3	10.778	CC
SHETLAND 2-11 STATE FEDERAL COM #733H - OWB	24,803.7	19,830.0	1,982.5	1,741.7	8.232	CC
ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0	24,803.7	21,760.2				Out of Range @TD
ZIA HILLS UNIT 2331 WC #710H - OWB - PWP0	24,803.7	21,956.2				Out of Range @TD
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	24,803.7	21,724.9				Out of Range @TD
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	24,803.7	21,996.3				Out of Range @TD
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	24,803.7	21,875.5				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
SNAPPING 12 1 FEDERAL #332H - OWB - AWP	24,803.7	11,429.0	1,687.6	1,546.1	11.928	CC, ES, SF
SNAPPING 12 1 FEDERAL #621H - OWB - AWP	24,803.7	11,475.8	635.2	510.2	5.083	CC, ES, SF
SNAPPING 12 1 FEDERAL #711H - OWB - AWP	24,803.7	11,736.7	1,092.1	948.2	7.593	CC, ES, SF
SNAPPING 12 1 FEDERAL #712H - OWB - AWP	24,803.7	12,071.0	1,859.3	1,713.9	12.790	CC, ES, SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	24,803.7	24,614.3	438.2	231.7	2.122	
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	24,803.7	24,746.9	804.0	599.9	3.939	
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	24,803.7	24,580.8	1,218.5	1,014.1	5.962	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	24,803.7	24,774.6	1,608.0	1,401.9	7.801	SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	24,803.7	24,586.9	1,987.8	1,780.1	9.573	SF

Offset Design: ZIA HILLS UNIT 2331 PROJECT - GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 54-GYD-CT-CMS, 1153-MWD - OWSG R1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside							Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,000.0	6,914.7	14,160.0	9,504.8	26.5	84.0	-107.67	-785.9	-851.2	2,623.8	2,571.1	52.73	49.763		
7,100.0	7,014.2	14,160.0	9,504.8	26.9	84.0	-104.67	-785.9	-851.2	2,525.1	2,472.1	52.93	47.702		
7,200.0	7,113.8	14,160.0	9,504.8	27.3	84.0	-101.71	-785.9	-851.2	2,426.4	2,373.3	53.14	45.660		
7,300.0	7,213.4	14,160.0	9,504.8	27.7	84.0	-98.80	-785.9	-851.2	2,327.8	2,274.5	53.35	43.637		
7,400.0	7,313.1	14,160.0	9,504.8	28.1	84.0	-95.98	-785.9	-851.2	2,229.3	2,175.8	53.55	41.634		
7,500.0	7,412.9	14,160.0	9,504.8	28.4	84.0	-93.26	-785.9	-851.2	2,131.0	2,077.2	53.74	39.651		
7,600.0	7,512.7	14,160.0	9,504.8	28.8	84.0	-90.64	-785.9	-851.2	2,032.7	1,978.8	53.93	37.690		
7,700.0	7,612.6	14,160.0	9,504.8	29.1	84.0	-88.15	-785.9	-851.2	1,934.7	1,880.6	54.12	35.750		

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 54-GYD-CT-CMS, 1153-MWD - OWSG R1												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)			
7,800.0	7,712.5	14,160.0	9,504.8	29.5	84.0	-85.80	-785.9	-851.2	1,836.9	1,782.6	54.29	33.834	
7,900.0	7,812.4	14,160.0	9,504.8	29.8	84.0	-83.59	-785.9	-851.2	1,739.3	1,684.9	54.45	31.942	
8,000.0	7,912.4	14,160.0	9,504.8	30.1	84.0	-81.52	-785.9	-851.2	1,642.1	1,587.5	54.60	30.075	
8,100.0	8,012.4	14,160.0	9,504.8	30.3	84.0	-79.60	-785.9	-851.2	1,545.2	1,490.5	54.73	28.236	
8,200.0	8,112.4	14,160.0	9,504.8	30.5	84.0	-77.82	-785.9	-851.2	1,448.8	1,394.0	54.83	26.425	
8,300.0	8,212.4	14,160.0	9,504.8	30.6	84.0	169.55	-785.9	-851.2	1,353.0	1,298.1	54.90	24.644	
8,400.0	8,312.4	14,160.0	9,504.8	30.6	84.0	169.55	-785.9	-851.2	1,257.8	1,202.9	54.95	22.891	
8,500.0	8,412.4	14,160.0	9,504.8	30.6	84.0	169.55	-785.9	-851.2	1,163.5	1,108.5	54.96	21.171	
8,600.0	8,512.4	14,160.0	9,504.8	30.6	84.0	169.55	-785.9	-851.2	1,070.1	1,015.2	54.92	19.486	
8,700.0	8,612.4	14,160.0	9,504.8	30.6	84.0	169.55	-785.9	-851.2	978.1	923.3	54.81	17.845	
8,800.0	8,712.4	14,160.0	9,504.8	30.7	84.0	169.55	-785.9	-851.2	887.8	833.2	54.62	16.255	
8,900.0	8,812.4	14,160.0	9,504.8	30.7	84.0	169.55	-785.9	-851.2	799.8	745.5	54.31	14.727	
9,000.0	8,912.4	14,160.0	9,504.8	30.7	84.0	169.55	-785.9	-851.2	715.0	661.2	53.85	13.278	
9,100.0	9,012.4	14,160.0	9,504.8	30.7	84.0	169.55	-785.9	-851.2	634.6	581.4	53.19	11.931	
9,200.0	9,112.4	14,160.0	9,504.8	30.7	84.0	169.55	-785.9	-851.2	560.6	508.3	52.31	10.718	
9,300.0	9,212.4	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	495.8	444.5	51.24	9.676	
9,400.0	9,312.4	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	444.2	394.0	50.23	8.842	
9,500.0	9,412.4	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	410.9	361.0	49.86	8.240	
9,592.4	9,504.8	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	400.4	349.7	50.64	7.905 CC	
9,600.0	9,512.4	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	400.4	349.7	50.76	7.889 ES	
9,700.0	9,612.4	14,160.0	9,504.8	30.8	84.0	169.55	-785.9	-851.2	414.6	361.7	52.83	7.846 SF	
9,800.0	9,712.4	14,160.0	9,504.8	30.9	84.0	169.55	-785.9	-851.2	451.0	395.7	55.28	8.158	
9,900.0	9,812.4	14,160.0	9,504.8	30.9	84.0	169.55	-785.9	-851.2	504.9	447.5	57.41	8.794	
10,000.0	9,912.4	14,160.0	9,504.8	30.9	84.0	169.55	-785.9	-851.2	571.3	512.3	59.05	9.675	
10,100.0	10,012.4	14,160.0	9,504.8	30.9	84.0	169.55	-785.9	-851.2	646.5	586.2	60.26	10.727	
10,200.0	10,112.4	14,160.0	9,504.8	30.9	84.0	169.55	-785.9	-851.2	727.6	666.4	61.18	11.893	
10,300.0	10,212.4	14,160.0	9,504.8	31.0	84.0	169.55	-785.9	-851.2	813.0	751.1	61.90	13.135	
10,400.0	10,312.4	14,160.0	9,504.8	31.0	84.0	169.55	-785.9	-851.2	901.4	838.9	62.48	14.426	
10,500.0	10,412.4	14,160.0	9,504.8	31.0	84.0	169.55	-785.9	-851.2	992.0	929.0	62.98	15.750	
10,600.0	10,512.4	14,160.0	9,504.8	31.0	84.0	169.55	-785.9	-851.2	1,084.2	1,020.8	63.43	17.094	
10,700.0	10,612.4	14,160.0	9,504.8	31.1	84.0	169.55	-785.9	-851.2	1,177.7	1,113.9	63.84	18.449	
10,800.0	10,712.4	14,160.0	9,504.8	31.1	84.0	169.55	-785.9	-851.2	1,272.2	1,208.0	64.22	19.810	
10,900.0	10,812.4	14,160.0	9,504.8	31.1	84.0	169.55	-785.9	-851.2	1,367.5	1,302.9	64.59	21.172	
11,000.0	10,912.4	14,160.0	9,504.8	31.1	84.0	169.55	-785.9	-851.2	1,463.4	1,398.5	64.95	22.532	
11,100.0	11,012.4	14,160.0	9,504.8	31.2	84.0	169.55	-785.9	-851.2	1,559.8	1,494.5	65.30	23.887	
11,200.0	11,112.4	14,160.0	9,504.8	31.2	84.0	169.55	-785.9	-851.2	1,656.7	1,591.0	65.65	25.236	
11,300.0	11,212.4	14,160.0	9,504.8	31.2	84.0	169.44	-785.9	-851.2	1,753.9	1,687.8	66.09	26.539	
11,400.0	11,311.7	14,160.0	9,504.8	31.2	84.0	127.32	-785.9	-851.2	1,853.0	1,786.6	66.43	27.893	
11,500.0	11,407.7	14,160.0	9,504.8	31.2	84.0	13.64	-785.9	-851.2	1,952.7	1,885.9	66.76	29.248	
11,600.0	11,497.4	14,160.0	9,504.8	31.3	84.0	6.25	-785.9	-851.2	2,050.0	1,982.9	67.06	30.567	
11,700.0	11,578.2	14,160.0	9,504.8	31.3	84.0	4.05	-785.9	-851.2	2,142.5	2,075.1	67.33	31.820	
11,800.0	11,647.5	14,160.0	9,504.8	31.3	84.0	3.02	-785.9	-851.2	2,228.1	2,160.6	67.55	32.985	
11,900.0	11,703.3	14,160.0	9,504.8	31.4	84.0	2.44	-785.9	-851.2	2,305.3	2,237.6	67.71	34.045	
12,000.0	11,743.9	14,160.0	9,504.8	31.4	84.0	2.08	-785.9	-851.2	2,372.5	2,304.6	67.81	34.985	
12,100.0	11,768.0	14,160.0	9,504.8	31.5	84.0	1.85	-785.9	-851.2	2,428.6	2,360.7	67.85	35.793	
12,200.0	11,775.0	14,160.0	9,504.8	31.6	84.0	1.71	-785.9	-851.2	2,472.8	2,405.0	67.80	36.471	
12,300.0	11,775.0	14,160.0	9,504.8	31.7	84.0	1.71	-785.9	-851.2	2,514.0	2,446.3	67.69	37.141	
12,400.0	11,775.0	14,160.0	9,504.8	31.8	84.0	1.71	-785.9	-851.2	2,558.5	2,490.9	67.56	37.867	
12,500.0	11,775.0	14,160.0	9,504.8	31.9	84.0	1.71	-785.9	-851.2	2,606.0	2,538.6	67.43	38.647	
12,600.0	11,775.0	14,160.0	9,504.8	32.1	84.0	1.71	-785.9	-851.2	2,656.5	2,589.2	67.29	39.478	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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		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)			
20,300.0	11,775.0	16,466.2	11,658.9	71.8	88.0	-85.03	10,523.7	-2,394.3	2,619.0	2,521.0	98.06	26.709	
20,400.0	11,775.0	16,466.2	11,658.9	72.5	88.0	-85.03	10,523.7	-2,394.3	2,533.7	2,433.5	100.20	25.285	
20,500.0	11,775.0	16,466.2	11,658.9	73.1	88.0	-85.03	10,523.7	-2,394.3	2,449.4	2,346.9	102.51	23.895	
20,600.0	11,775.0	16,466.2	11,658.9	73.8	88.0	-85.03	10,523.7	-2,394.3	2,366.3	2,261.3	104.98	22.540	
20,700.0	11,775.0	16,466.2	11,658.9	74.5	88.0	-85.03	10,523.7	-2,394.3	2,284.6	2,177.0	107.64	21.225	
20,800.0	11,775.0	16,466.2	11,658.9	75.2	88.0	-85.03	10,523.7	-2,394.3	2,204.4	2,094.0	110.49	19.951	
20,900.0	11,775.0	16,466.2	11,658.9	75.9	88.0	-85.03	10,523.7	-2,394.3	2,125.9	2,012.4	113.55	18.723	
21,000.0	11,775.0	16,466.2	11,658.9	76.6	88.0	-85.03	10,523.7	-2,394.3	2,049.3	1,932.5	116.82	17.543	
21,100.0	11,775.0	16,466.2	11,658.9	77.3	88.0	-85.03	10,523.7	-2,394.3	1,974.8	1,854.5	120.30	16.415	
21,200.0	11,775.0	16,466.2	11,658.9	78.0	88.0	-85.03	10,523.7	-2,394.3	1,902.6	1,778.6	124.00	15.343	
21,300.0	11,775.0	16,466.2	11,658.9	78.7	88.0	-85.03	10,523.7	-2,394.3	1,833.0	1,705.1	127.92	14.329	
21,400.0	11,775.0	16,466.2	11,658.9	79.4	88.0	-85.03	10,523.7	-2,394.3	1,766.3	1,634.3	132.04	13.377	
21,500.0	11,775.0	16,466.2	11,658.9	80.1	88.0	-85.03	10,523.7	-2,394.3	1,702.9	1,566.6	136.35	12.489	
21,600.0	11,775.0	16,466.2	11,658.9	80.8	88.0	-85.03	10,523.7	-2,394.3	1,643.1	1,502.3	140.80	11.670	
21,700.0	11,775.0	16,466.2	11,658.9	81.5	88.0	-85.03	10,523.7	-2,394.3	1,587.4	1,442.1	145.35	10.921	
21,800.0	11,775.0	16,466.2	11,658.9	82.2	88.0	-85.03	10,523.7	-2,394.3	1,536.2	1,386.3	149.94	10.245	
21,900.0	11,775.0	16,466.2	11,658.9	83.0	88.0	-85.03	10,523.7	-2,394.3	1,490.0	1,335.5	154.49	9.645	
22,000.0	11,775.0	16,466.2	11,658.9	83.7	88.0	-85.03	10,523.7	-2,394.3	1,449.2	1,290.3	158.88	9.121	
22,100.0	11,775.0	16,466.2	11,658.9	84.4	88.0	-85.03	10,523.7	-2,394.3	1,414.3	1,251.2	163.02	8.675	
22,200.0	11,775.0	16,466.2	11,658.9	85.1	88.0	-85.03	10,523.7	-2,394.3	1,385.7	1,218.9	166.77	8.309	
22,300.0	11,775.0	16,466.2	11,658.9	85.8	88.0	-85.03	10,523.7	-2,394.3	1,363.9	1,193.9	170.02	8.022	
22,400.0	11,775.0	16,466.2	11,658.9	86.5	88.0	-85.03	10,523.7	-2,394.3	1,349.2	1,176.5	172.64	7.815	
22,500.0	11,775.0	16,466.2	11,658.9	87.2	88.0	-85.03	10,523.7	-2,394.3	1,341.8	1,167.2	174.55	7.687	
22,600.0	11,775.0	16,406.1	11,658.9	87.9	87.1	-85.03	10,583.8	-2,394.6	1,340.4	1,165.8	174.67	7.674 SF	
22,700.0	11,775.0	16,306.1	11,658.9	88.7	85.7	-85.03	10,683.8	-2,395.1	1,339.7	1,165.7	173.96	7.701	
22,800.0	11,775.0	16,206.1	11,658.9	89.4	84.3	-85.02	10,783.8	-2,395.6	1,338.9	1,165.7	173.27	7.728	
22,900.0	11,775.0	16,106.1	11,658.9	90.1	82.9	-85.02	10,883.8	-2,396.1	1,338.2	1,165.6	172.59	7.754	
23,000.0	11,775.0	16,006.1	11,658.9	90.8	81.5	-85.02	10,983.8	-2,396.6	1,337.5	1,165.6	171.91	7.780	
23,100.0	11,775.0	15,906.1	11,658.9	91.5	80.1	-85.02	11,083.8	-2,397.1	1,336.7	1,165.5	171.24	7.806	
23,200.0	11,775.0	15,806.1	11,658.9	92.2	78.7	-85.01	11,183.8	-2,397.6	1,336.0	1,165.4	170.59	7.832	
23,300.0	11,775.0	15,706.1	11,658.9	93.0	77.3	-85.01	11,283.8	-2,398.1	1,335.2	1,165.3	169.94	7.857	
23,400.0	11,775.0	15,606.1	11,658.9	93.7	76.0	-85.01	11,383.8	-2,398.5	1,334.5	1,165.2	169.31	7.882	
23,500.0	11,775.0	15,506.1	11,658.9	94.4	74.6	-85.00	11,483.8	-2,399.0	1,333.8	1,165.1	168.69	7.906	
23,600.0	11,775.0	15,406.1	11,658.9	95.1	73.3	-85.00	11,583.8	-2,399.5	1,333.0	1,164.9	168.08	7.931	
23,700.0	11,775.0	15,306.1	11,658.9	95.9	71.9	-85.00	11,683.8	-2,400.0	1,332.3	1,164.8	167.49	7.954	
23,800.0	11,775.0	15,206.1	11,658.9	96.6	70.6	-85.00	11,783.8	-2,400.5	1,331.5	1,164.6	166.91	7.978	
23,900.0	11,775.0	15,106.1	11,658.9	97.3	69.3	-84.99	11,883.8	-2,401.0	1,330.8	1,164.4	166.35	8.000	
24,000.0	11,775.0	15,006.1	11,658.9	98.0	68.1	-84.99	11,983.8	-2,401.5	1,330.1	1,164.3	165.80	8.022	
24,100.0	11,775.0	14,906.1	11,658.9	98.8	66.8	-84.99	12,083.8	-2,402.0	1,329.3	1,164.0	165.26	8.044	
24,200.0	11,775.0	14,806.1	11,658.9	99.5	65.5	-84.98	12,183.8	-2,402.5	1,328.6	1,163.8	164.75	8.064	
24,300.0	11,775.0	14,706.1	11,658.9	100.2	64.3	-84.98	12,283.8	-2,402.9	1,327.8	1,163.6	164.25	8.084	
24,400.0	11,775.0	14,606.1	11,658.9	100.9	63.1	-84.98	12,383.8	-2,403.4	1,327.1	1,163.3	163.77	8.103	
24,500.0	11,775.0	14,506.1	11,658.9	101.7	61.9	-84.98	12,483.8	-2,403.9	1,326.3	1,163.0	163.32	8.121	
24,600.0	11,775.0	14,406.1	11,658.9	102.4	60.8	-84.97	12,583.8	-2,404.4	1,325.6	1,162.7	162.88	8.138	
24,700.0	11,775.0	14,306.1	11,658.9	103.1	59.6	-84.97	12,683.8	-2,404.9	1,324.9	1,162.4	162.47	8.154	
24,800.0	11,775.0	14,206.1	11,658.9	103.9	58.5	-84.97	12,783.8	-2,405.4	1,324.1	1,162.0	162.08	8.169	
24,803.7	11,775.0	14,202.4	11,658.9	103.9	58.4	-84.97	12,787.5	-2,405.4	1,324.1	1,162.0	162.07	8.170 CC, ES	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 11 FEDERAL #734H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD - OWSG R1												Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	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)			
20,000.0	11,775.0	16,703.1	11,882.5	69.7	88.8	-99.04	10,528.2	-1,734.7	2,636.6	2,561.9	74.68	35.303	
20,100.0	11,775.0	16,703.1	11,882.5	70.4	88.8	-99.04	10,528.2	-1,734.7	2,540.1	2,464.8	75.37	33.704	
20,200.0	11,775.0	16,703.1	11,882.5	71.1	88.8	-99.04	10,528.2	-1,734.7	2,444.0	2,367.8	76.12	32.105	
20,300.0	11,775.0	16,703.1	11,882.5	71.8	88.8	-99.04	10,528.2	-1,734.7	2,348.1	2,271.2	76.97	30.508	
20,400.0	11,775.0	16,703.1	11,882.5	72.5	88.8	-99.04	10,528.2	-1,734.7	2,252.7	2,174.8	77.91	28.912	
20,500.0	11,775.0	16,703.1	11,882.5	73.1	88.8	-99.04	10,528.2	-1,734.7	2,157.6	2,078.6	78.98	27.319	
20,600.0	11,775.0	16,703.1	11,882.5	73.8	88.8	-99.04	10,528.2	-1,734.7	2,063.0	1,982.9	80.18	25.731	
20,700.0	11,775.0	16,703.1	11,882.5	74.5	88.8	-99.04	10,528.2	-1,734.7	1,969.0	1,887.4	81.54	24.148	
20,800.0	11,775.0	16,703.1	11,882.5	75.2	88.8	-99.04	10,528.2	-1,734.7	1,875.5	1,792.5	83.08	22.574	
20,900.0	11,775.0	16,703.1	11,882.5	75.9	88.8	-99.04	10,528.2	-1,734.7	1,782.8	1,698.0	84.85	21.012	
21,000.0	11,775.0	16,703.1	11,882.5	76.6	88.8	-99.04	10,528.2	-1,734.7	1,690.9	1,604.0	86.87	19.464	
21,100.0	11,775.0	16,703.1	11,882.5	77.3	88.8	-99.04	10,528.2	-1,734.7	1,600.0	1,510.8	89.20	17.937	
21,200.0	11,775.0	16,703.1	11,882.5	78.0	88.8	-99.04	10,528.2	-1,734.7	1,510.2	1,418.3	91.89	16.436	
21,300.0	11,775.0	16,703.1	11,882.5	78.7	88.8	-99.04	10,528.2	-1,734.7	1,421.8	1,326.8	94.99	14.967	
21,400.0	11,775.0	16,703.1	11,882.5	79.4	88.8	-99.04	10,528.2	-1,734.7	1,335.0	1,236.4	98.60	13.540	
21,500.0	11,775.0	16,703.1	11,882.5	80.1	88.8	-99.04	10,528.2	-1,734.7	1,250.2	1,147.5	102.78	12.165	
21,600.0	11,775.0	16,703.1	11,882.5	80.8	88.8	-99.04	10,528.2	-1,734.7	1,167.8	1,060.2	107.62	10.852	
21,700.0	11,775.0	16,703.1	11,882.5	81.5	88.8	-99.04	10,528.2	-1,734.7	1,088.4	975.2	113.22	9.613	
21,800.0	11,775.0	16,703.1	11,882.5	82.2	88.8	-99.04	10,528.2	-1,734.7	1,012.6	893.0	119.64	8.464	
21,900.0	11,775.0	16,703.1	11,882.5	83.0	88.8	-99.04	10,528.2	-1,734.7	941.4	814.4	126.93	7.416	
22,000.0	11,775.0	16,703.1	11,882.5	83.7	88.8	-99.04	10,528.2	-1,734.7	875.8	740.7	135.05	6.485	
22,100.0	11,775.0	16,703.1	11,882.5	84.4	88.8	-99.04	10,528.2	-1,734.7	817.2	673.4	143.79	5.683	
22,200.0	11,775.0	16,703.1	11,882.5	85.1	88.8	-99.04	10,528.2	-1,734.7	767.2	614.4	152.79	5.021	
22,300.0	11,775.0	16,703.1	11,882.5	85.8	88.8	-99.04	10,528.2	-1,734.7	727.5	566.1	161.39	4.508	
22,400.0	11,775.0	16,703.1	11,882.5	86.5	88.8	-99.04	10,528.2	-1,734.7	700.1	531.3	168.72	4.149	
22,500.0	11,775.0	16,703.1	11,882.5	87.2	88.8	-99.04	10,528.2	-1,734.7	686.2	512.3	173.87	3.946	
22,600.0	11,775.0	16,644.2	11,882.5	87.9	87.9	-99.04	10,587.1	-1,735.0	684.2	509.4	174.78	3.915 SF	
22,700.0	11,775.0	16,544.2	11,882.5	88.7	86.5	-99.05	10,687.1	-1,735.5	683.5	509.4	174.08	3.926	
22,800.0	11,775.0	16,444.2	11,882.5	89.4	85.1	-99.06	10,787.1	-1,735.9	682.7	509.4	173.39	3.938	
22,900.0	11,775.0	16,344.2	11,882.5	90.1	83.7	-99.07	10,887.1	-1,736.4	682.0	509.3	172.71	3.949	
23,000.0	11,775.0	16,244.2	11,882.5	90.8	82.3	-99.08	10,987.1	-1,736.9	681.3	509.2	172.04	3.960	
23,100.0	11,775.0	16,144.2	11,882.5	91.5	80.9	-99.09	11,087.0	-1,737.4	680.5	509.2	171.38	3.971	
23,200.0	11,775.0	16,044.2	11,882.5	92.2	79.5	-99.10	11,187.0	-1,737.9	679.8	509.1	170.73	3.982	
23,300.0	11,775.0	15,944.2	11,882.5	93.0	78.1	-99.11	11,287.0	-1,738.4	679.1	509.0	170.09	3.992	
23,400.0	11,775.0	15,844.2	11,882.5	93.7	76.7	-99.12	11,387.0	-1,738.9	678.3	508.9	169.46	4.003	
23,500.0	11,775.0	15,744.2	11,882.5	94.4	75.4	-99.13	11,487.0	-1,739.4	677.6	508.8	168.85	4.013	
23,600.0	11,775.0	15,644.2	11,882.5	95.1	74.1	-99.14	11,587.0	-1,739.9	676.9	508.6	168.25	4.023	
23,700.0	11,775.0	15,544.2	11,882.5	95.9	72.7	-99.15	11,687.0	-1,740.3	676.1	508.5	167.66	4.033	
23,800.0	11,775.0	15,444.2	11,882.5	96.6	71.4	-99.16	11,787.0	-1,740.8	675.4	508.3	167.09	4.042	
23,900.0	11,775.0	15,344.2	11,882.5	97.3	70.1	-99.17	11,887.0	-1,741.3	674.7	508.1	166.53	4.051	
24,000.0	11,775.0	15,244.2	11,882.5	98.0	68.9	-99.18	11,987.0	-1,741.8	673.9	507.9	165.98	4.060	
24,100.0	11,775.0	15,144.2	11,882.5	98.8	67.6	-99.19	12,087.0	-1,742.3	673.2	507.7	165.46	4.069	
24,200.0	11,775.0	15,044.2	11,882.5	99.5	66.3	-99.20	12,187.0	-1,742.8	672.5	507.5	164.95	4.077	
24,300.0	11,775.0	14,944.2	11,882.5	100.2	65.1	-99.21	12,287.0	-1,743.3	671.7	507.3	164.46	4.084	
24,400.0	11,775.0	14,844.2	11,882.5	100.9	63.9	-99.22	12,387.0	-1,743.8	671.0	507.0	163.99	4.092	
24,500.0	11,775.0	14,744.2	11,882.5	101.7	62.7	-99.23	12,487.0	-1,744.3	670.3	506.7	163.54	4.098	
24,600.0	11,775.0	14,644.2	11,882.5	102.4	61.6	-99.24	12,587.0	-1,744.7	669.5	506.4	163.11	4.105	
24,700.0	11,775.0	14,544.2	11,882.5	103.1	60.4	-99.25	12,687.0	-1,745.2	668.8	506.1	162.71	4.110	
24,800.0	11,775.0	14,444.2	11,882.5	103.9	59.3	-99.26	12,787.0	-1,745.7	668.1	505.7	162.33	4.115	
24,803.7	11,775.0	14,440.5	11,882.5	103.9	59.3	-99.26	12,790.7	-1,745.7	668.0	505.7	162.31	4.116 CC, ES	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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							Rule Assigned:						Offset Well Error: 10.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
23,900.0	11,775.0	13,513.0	11,672.9	97.3	53.9	-87.80	12,154.5	-3,736.4	2,676.2	2,527.4	148.80	17.985	
24,000.0	11,775.0	13,571.0	11,671.5	98.0	54.4	-87.77	12,212.3	-3,732.1	2,666.8	2,516.6	150.19	17.757	
24,100.0	11,775.0	13,571.0	11,671.5	98.8	54.4	-87.77	12,212.3	-3,732.1	2,659.1	2,508.0	151.13	17.595	
24,200.0	11,775.0	13,606.7	11,671.1	99.5	54.7	-87.75	12,248.0	-3,730.8	2,654.4	2,502.2	152.24	17.436	
24,300.0	11,775.0	13,665.0	11,671.1	100.2	55.2	-87.75	12,306.3	-3,730.8	2,652.7	2,499.2	153.49	17.283	
24,348.7	11,775.0	13,665.0	11,671.1	100.6	55.2	-87.75	12,306.3	-3,730.8	2,652.3	2,498.4	153.81	17.243 CC	
24,400.0	11,775.0	13,679.6	11,671.2	100.9	55.3	-87.76	12,320.8	-3,731.2	2,652.7	2,498.4	154.27	17.195 ES	
24,500.0	11,775.0	13,759.0	11,672.5	101.7	56.0	-87.79	12,400.2	-3,733.8	2,654.6	2,498.9	155.66	17.053	
24,600.0	11,775.0	13,853.0	11,673.1	102.4	56.9	-87.80	12,494.2	-3,737.2	2,656.9	2,499.7	157.24	16.897	
24,700.0	11,775.0	13,930.8	11,672.8	103.1	57.6	-87.80	12,571.9	-3,740.2	2,659.6	2,501.0	158.65	16.764	
24,800.0	11,775.0	14,064.0	11,672.4	103.9	58.8	-87.79	12,705.1	-3,745.3	2,662.2	2,501.5	160.76	16.561	
24,803.7	11,775.0	14,067.0	11,672.3	103.9	58.8	-87.79	12,708.0	-3,745.4	2,662.3	2,501.5	160.81	16.555 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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			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	
19,900.0	11,775.0	21,907.0	11,380.5	69.0	178.7	-70.27	10,262.8	-2,154.9	2,656.6	2,536.0	120.60	22.029	
20,000.0	11,775.0	21,907.0	11,380.5	69.7	178.7	-70.27	10,262.8	-2,154.9	2,567.2	2,443.6	123.59	20.772	
20,100.0	11,775.0	21,907.0	11,380.5	70.4	178.7	-70.27	10,262.8	-2,154.9	2,478.5	2,351.7	126.82	19.543	
20,200.0	11,775.0	21,907.0	11,380.5	71.1	178.7	-70.27	10,262.8	-2,154.9	2,390.8	2,260.5	130.32	18.346	
20,300.0	11,775.0	21,907.0	11,380.5	71.8	178.7	-70.27	10,262.8	-2,154.9	2,304.1	2,170.0	134.09	17.183	
20,400.0	11,775.0	21,907.0	11,380.5	72.5	178.7	-70.27	10,262.8	-2,154.9	2,218.5	2,080.3	138.18	16.055	
20,500.0	11,775.0	21,907.0	11,380.5	73.1	178.7	-70.27	10,262.8	-2,154.9	2,134.1	1,991.5	142.59	14.967	
20,600.0	11,775.0	21,907.0	11,380.5	73.8	178.7	-70.27	10,262.8	-2,154.9	2,051.1	1,903.8	147.35	13.920	
20,700.0	11,775.0	21,907.0	11,380.5	74.5	178.7	-70.27	10,262.8	-2,154.9	1,969.8	1,817.3	152.49	12.917	
20,800.0	11,775.0	21,907.0	11,380.5	75.2	178.7	-70.27	10,262.8	-2,154.9	1,890.2	1,732.1	158.04	11.960	
20,900.0	11,775.0	21,907.0	11,380.5	75.9	178.7	-70.27	10,262.8	-2,154.9	1,812.6	1,648.6	163.99	11.053	
21,000.0	11,775.0	21,907.0	11,380.5	76.6	178.7	-70.27	10,262.8	-2,154.9	1,737.4	1,567.0	170.38	10.197	
21,100.0	11,775.0	21,907.0	11,380.5	77.3	178.7	-70.27	10,262.8	-2,154.9	1,664.7	1,487.5	177.19	9.395	
21,200.0	11,775.0	21,907.0	11,380.5	78.0	178.7	-70.27	10,262.8	-2,154.9	1,595.0	1,410.6	184.42	8.649	
21,300.0	11,775.0	21,907.0	11,380.5	78.7	178.7	-70.27	10,262.8	-2,154.9	1,528.7	1,336.6	192.03	7.960	
21,400.0	11,775.0	21,907.0	11,380.5	79.4	178.7	-70.27	10,262.8	-2,154.9	1,466.2	1,266.2	199.96	7.332	
21,500.0	11,775.0	21,907.0	11,380.5	80.1	178.7	-70.27	10,262.8	-2,154.9	1,408.0	1,199.9	208.12	6.765	
21,600.0	11,775.0	21,907.0	11,380.5	80.8	178.7	-70.27	10,262.8	-2,154.9	1,354.7	1,138.4	216.36	6.261	
21,700.0	11,775.0	21,907.0	11,380.5	81.5	178.7	-70.27	10,262.8	-2,154.9	1,306.9	1,082.4	224.51	5.821	
21,800.0	11,775.0	21,907.0	11,380.5	82.2	178.7	-70.27	10,262.8	-2,154.9	1,265.3	1,032.9	232.33	5.446	
21,900.0	11,775.0	21,907.0	11,380.5	83.0	178.7	-70.27	10,262.8	-2,154.9	1,230.3	990.8	239.55	5.136	
22,000.0	11,775.0	21,907.0	11,380.5	83.7	178.7	-70.27	10,262.8	-2,154.9	1,202.7	956.8	245.89	4.891	
22,100.0	11,775.0	21,907.0	11,380.5	84.4	178.7	-70.27	10,262.8	-2,154.9	1,182.9	931.9	251.05	4.712	
22,200.0	11,775.0	21,889.2	11,381.0	85.1	178.4	-70.26	10,280.5	-2,153.6	1,171.3	917.2	254.09	4.610	
22,300.0	11,775.0	21,799.0	11,383.3	85.8	177.0	-70.25	10,370.5	-2,147.3	1,162.6	909.0	253.67	4.583	
22,400.0	11,775.0	21,733.6	11,383.5	86.5	176.0	-70.18	10,435.8	-2,143.6	1,156.1	902.0	254.08	4.550	
22,500.0	11,775.0	21,650.0	11,381.2	87.2	174.7	-70.00	10,519.3	-2,140.3	1,152.0	898.3	253.69	4.541	
22,600.0	11,775.0	21,525.4	11,378.0	87.9	172.7	-69.73	10,643.7	-2,134.9	1,147.8	895.9	251.90	4.556	
22,700.0	11,775.0	21,391.0	11,380.2	88.7	170.6	-69.66	10,777.8	-2,126.7	1,140.3	890.5	249.77	4.565	
22,800.0	11,775.0	21,283.9	11,386.2	89.4	169.0	-69.80	10,884.5	-2,119.5	1,130.9	882.1	248.80	4.545	
22,900.0	11,775.0	21,191.8	11,391.3	90.1	167.5	-69.92	10,976.3	-2,113.5	1,121.7	873.3	248.44	4.515	
23,000.0	11,775.0	21,100.5	11,396.0	90.8	166.1	-70.03	11,067.3	-2,108.2	1,113.3	865.2	248.09	4.487	
23,100.0	11,775.0	21,007.0	11,400.0	91.5	164.6	-70.11	11,160.5	-2,103.0	1,105.5	857.8	247.64	4.464	
23,200.0	11,775.0	20,914.3	11,403.3	92.2	163.2	-70.17	11,253.1	-2,098.2	1,098.3	851.1	247.19	4.443	
23,300.0	11,775.0	20,821.7	11,406.3	93.0	161.7	-70.22	11,345.6	-2,094.0	1,091.7	845.0	246.73	4.425	
23,400.0	11,775.0	20,729.3	11,408.4	93.7	160.3	-70.24	11,437.9	-2,090.2	1,085.9	839.7	246.25	4.410	
23,500.0	11,775.0	20,638.7	11,410.0	94.4	158.9	-70.23	11,528.3	-2,086.7	1,080.5	834.7	245.80	4.396	
23,600.0	11,775.0	20,563.0	11,409.7	95.1	157.7	-70.17	11,604.0	-2,085.0	1,077.3	831.5	245.77	4.383 SF	
23,700.0	11,775.0	20,473.4	11,408.0	95.9	156.3	-70.05	11,693.6	-2,084.0	1,075.7	830.5	245.22	4.387	
23,800.0	11,775.0	20,378.6	11,405.7	96.6	154.8	-69.90	11,788.3	-2,083.1	1,074.5	830.0	244.51	4.395	
23,900.0	11,775.0	20,281.3	11,402.9	97.3	153.3	-69.72	11,885.6	-2,082.4	1,073.6	829.9	243.70	4.405	
24,000.0	11,775.0	20,167.5	11,399.5	98.0	151.5	-69.50	11,999.4	-2,080.8	1,072.2	829.8	242.43	4.423	
24,100.0	11,775.0	20,046.7	11,396.5	98.8	149.6	-69.26	12,120.1	-2,077.8	1,069.7	828.8	240.89	4.441	
24,200.0	11,775.0	19,932.4	11,397.1	99.5	147.9	-69.17	12,234.2	-2,073.1	1,064.4	824.8	239.61	4.442	
24,300.0	11,775.0	19,841.6	11,397.5	100.2	146.5	-69.11	12,325.0	-2,069.6	1,059.5	820.4	239.15	4.430	
24,400.0	11,775.0	19,749.7	11,397.8	100.9	145.0	-69.05	12,416.9	-2,066.9	1,055.5	816.9	238.64	4.423	
24,500.0	11,775.0	19,647.7	11,398.2	101.7	143.5	-68.99	12,518.8	-2,064.4	1,051.9	814.1	237.81	4.423	
24,600.0	11,775.0	19,553.8	11,400.0	102.4	142.0	-69.02	12,612.7	-2,062.3	1,048.1	810.8	237.28	4.417	
24,700.0	11,775.0	19,465.5	11,401.3	103.1	140.6	-69.05	12,701.0	-2,061.4	1,045.4	808.5	236.92	4.412	
24,800.0	11,775.0	19,377.9	11,404.9	103.9	139.3	-69.23	12,788.5	-2,062.3	1,043.7	807.1	236.64	4.411	
24,803.7	11,775.0	19,374.8	11,405.0	103.9	139.2	-69.24	12,791.6	-2,062.4	1,043.7	807.1	236.64	4.411 CC, ES	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - SHETLAND 2-11 STATE FEDERAL COM #613H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 226-MWD													Offset Well Error: 10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
20,500.0	11,775.0	22,089.0	11,554.5	73.1	179.6	-83.65	10,227.7	-3,037.3	2,661.2	2,463.3	197.88	13.448	
20,600.0	11,775.0	22,089.0	11,554.5	73.8	179.6	-83.65	10,227.7	-3,037.3	2,596.1	2,393.6	202.45	12.823	
20,700.0	11,775.0	22,089.0	11,554.5	74.5	179.6	-83.65	10,227.7	-3,037.3	2,533.2	2,326.1	207.12	12.230	
20,800.0	11,775.0	22,089.0	11,554.5	75.2	179.6	-83.65	10,227.7	-3,037.3	2,472.8	2,261.0	211.87	11.671	
20,900.0	11,775.0	22,089.0	11,554.5	75.9	179.6	-83.65	10,227.7	-3,037.3	2,415.1	2,198.4	216.67	11.146	
21,000.0	11,775.0	22,089.0	11,554.5	76.6	179.6	-83.65	10,227.7	-3,037.3	2,360.1	2,138.6	221.49	10.656	
21,100.0	11,775.0	22,089.0	11,554.5	77.3	179.6	-83.65	10,227.7	-3,037.3	2,308.2	2,081.9	226.30	10.200	
21,200.0	11,775.0	22,089.0	11,554.5	78.0	179.6	-83.65	10,227.7	-3,037.3	2,259.5	2,028.5	231.06	9.779	
21,300.0	11,775.0	22,089.0	11,554.5	78.7	179.6	-83.65	10,227.7	-3,037.3	2,214.3	1,978.6	235.71	9.394	
21,400.0	11,775.0	22,089.0	11,554.5	79.4	179.6	-83.65	10,227.7	-3,037.3	2,172.7	1,932.5	240.22	9.045	
21,500.0	11,775.0	22,089.0	11,554.5	80.1	179.6	-83.65	10,227.7	-3,037.3	2,135.1	1,890.5	244.51	8.732	
21,600.0	11,775.0	22,089.0	11,554.5	80.8	179.6	-83.65	10,227.7	-3,037.3	2,101.5	1,852.9	248.54	8.455	
21,700.0	11,775.0	22,089.0	11,554.5	81.5	179.6	-83.65	10,227.7	-3,037.3	2,072.1	1,819.9	252.24	8.215	
21,800.0	11,775.0	22,089.0	11,554.5	82.2	179.6	-83.65	10,227.7	-3,037.3	2,047.3	1,791.7	255.55	8.011	
21,900.0	11,775.0	22,089.0	11,554.5	83.0	179.6	-83.65	10,227.7	-3,037.3	2,027.1	1,768.7	258.42	7.844	
22,000.0	11,775.0	22,089.0	11,554.5	83.7	179.6	-83.65	10,227.7	-3,037.3	2,011.6	1,750.9	260.79	7.714	
22,100.0	11,775.0	22,089.0	11,554.5	84.4	179.6	-83.65	10,227.7	-3,037.3	2,001.1	1,738.5	262.62	7.620	
22,200.0	11,775.0	22,089.0	11,554.5	85.1	179.6	-83.65	10,227.7	-3,037.3	1,995.5	1,731.6	263.89	7.562	
22,292.5	11,775.0	22,058.2	11,556.6	85.7	179.1	-83.71	10,258.4	-3,037.9	1,994.5	1,730.4	264.11	7.552 SF	
22,300.0	11,775.0	22,050.7	11,557.1	85.8	179.0	-83.73	10,265.9	-3,038.0	1,994.5	1,730.5	264.05	7.554	
22,400.0	11,775.0	21,951.3	11,564.1	86.5	177.4	-83.93	10,365.0	-3,040.0	1,994.6	1,731.3	263.22	7.577	
22,500.0	11,775.0	21,877.2	11,569.5	87.2	176.2	-84.09	10,438.9	-3,041.8	1,995.0	1,732.3	262.74	7.593	
22,600.0	11,775.0	21,817.0	11,571.4	87.9	175.3	-84.15	10,499.0	-3,044.2	1,997.4	1,735.1	262.35	7.614	
22,700.0	11,775.0	21,720.5	11,572.4	88.7	173.7	-84.19	10,595.4	-3,048.9	2,001.0	1,739.4	261.52	7.651	
22,800.0	11,775.0	21,605.6	11,573.8	89.4	171.9	-84.24	10,710.2	-3,054.0	2,004.0	1,743.5	260.50	7.693	
22,900.0	11,775.0	21,511.2	11,574.6	90.1	170.4	-84.27	10,804.5	-3,057.9	2,006.9	1,747.2	259.70	7.728	
23,000.0	11,775.0	21,428.6	11,573.6	90.8	169.1	-84.25	10,887.0	-3,061.8	2,010.4	1,751.3	259.02	7.761	
23,100.0	11,775.0	21,341.7	11,572.2	91.5	167.7	-84.22	10,973.8	-3,066.4	2,014.6	1,756.3	258.28	7.800	
23,200.0	11,775.0	21,217.1	11,572.8	92.2	165.8	-84.25	11,098.2	-3,072.7	2,018.3	1,761.1	257.18	7.848	
23,300.0	11,775.0	21,125.2	11,573.9	93.0	164.3	-84.29	11,190.0	-3,077.2	2,021.8	1,765.4	256.41	7.885	
23,400.0	11,775.0	21,018.0	11,574.3	93.7	162.6	-84.31	11,297.1	-3,082.6	2,025.6	1,770.1	255.49	7.928	
23,500.0	11,775.0	20,893.0	11,576.1	94.4	160.7	-84.37	11,421.9	-3,087.7	2,028.3	1,773.9	254.36	7.974	
23,600.0	11,775.0	20,769.8	11,578.8	95.1	158.7	-84.45	11,545.1	-3,091.4	2,029.8	1,776.6	253.24	8.016	
23,700.0	11,775.0	20,562.4	11,572.6	95.9	155.4	-84.27	11,752.2	-3,091.7	2,029.9	1,779.3	250.65	8.099	
23,800.0	11,775.0	20,389.0	11,563.2	96.6	152.7	-83.97	11,925.1	-3,082.1	2,023.7	1,775.5	248.26	8.152	
23,900.0	11,775.0	20,320.3	11,563.0	97.3	151.7	-83.95	11,993.6	-3,077.8	2,016.3	1,768.2	248.12	8.127	
24,000.0	11,775.0	20,233.1	11,563.7	98.0	150.3	-83.96	12,080.7	-3,073.9	2,010.6	1,763.0	247.56	8.122	
24,100.0	11,775.0	20,145.1	11,568.4	98.8	148.9	-84.08	12,168.6	-3,070.6	2,005.0	1,758.0	247.00	8.118	
24,200.0	11,775.0	20,056.5	11,575.8	99.5	147.6	-84.28	12,256.8	-3,068.2	2,000.3	1,753.9	246.42	8.117	
24,300.0	11,775.0	19,910.4	11,585.4	100.2	145.3	-84.53	12,402.5	-3,063.2	1,995.1	1,750.5	244.68	8.154	
24,400.0	11,775.0	19,793.9	11,585.7	100.9	143.5	-84.52	12,518.7	-3,055.4	1,987.1	1,743.6	243.50	8.161	
24,500.0	11,775.0	19,724.0	11,585.3	101.7	142.4	-84.49	12,588.5	-3,051.9	1,980.7	1,737.4	243.33	8.140	
24,600.0	11,775.0	19,680.4	11,585.2	102.4	141.7	-84.49	12,632.0	-3,050.6	1,976.3	1,732.7	243.57	8.114	
24,700.0	11,775.0	19,628.0	11,585.2	103.1	140.8	-84.48	12,684.5	-3,049.9	1,973.9	1,730.4	243.51	8.106	
24,718.5	11,775.0	19,628.0	11,585.2	103.3	140.8	-84.48	12,684.5	-3,049.9	1,973.9	1,730.2	243.63	8.102 CC, ES	
24,800.0	11,775.0	19,592.2	11,585.3	103.9	140.3	-84.49	12,720.2	-3,050.5	1,974.5	1,731.0	243.54	8.107	
24,803.7	11,775.0	19,591.1	11,585.3	103.9	140.3	-84.49	12,721.4	-3,050.5	1,974.6	1,731.0	243.54	8.108	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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		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)			
22,100.0	11,775.0	21,917.2	11,684.3	84.4	175.0	-88.02	10,512.4	-3,683.2	2,665.3	2,408.6	256.65	10.385	
22,200.0	11,775.0	21,917.2	11,684.3	85.1	175.0	-88.02	10,512.4	-3,683.2	2,650.0	2,391.7	258.34	10.258	
22,300.0	11,775.0	21,917.2	11,684.3	85.8	175.0	-88.02	10,512.4	-3,683.2	2,638.5	2,378.8	259.71	10.160	
22,400.0	11,775.0	21,917.2	11,684.3	86.5	175.0	-88.02	10,512.4	-3,683.2	2,630.8	2,370.0	260.76	10.089	
22,500.0	11,775.0	21,917.2	11,684.3	87.2	175.0	-88.02	10,512.4	-3,683.2	2,626.8	2,365.3	261.47	10.046 SF	
22,600.0	11,775.0	21,850.6	11,684.3	87.9	173.9	-88.02	10,578.9	-3,683.5	2,625.8	2,364.8	261.04	10.059 ES	
22,700.0	11,775.0	21,750.6	11,684.3	88.7	172.3	-88.02	10,678.9	-3,683.9	2,625.0	2,364.9	260.15	10.090	
22,800.0	11,775.0	21,650.6	11,684.3	89.4	170.7	-88.02	10,778.9	-3,684.3	2,624.2	2,364.9	259.27	10.121	
22,900.0	11,775.0	21,550.7	11,684.3	90.1	169.1	-88.02	10,878.9	-3,684.8	2,623.4	2,365.0	258.39	10.153	
23,000.0	11,775.0	21,450.7	11,684.3	90.8	167.6	-88.02	10,978.9	-3,685.2	2,622.6	2,365.1	257.51	10.184	
23,100.0	11,775.0	21,350.7	11,684.3	91.5	166.0	-88.02	11,078.9	-3,685.7	2,621.8	2,365.2	256.63	10.216	
23,200.0	11,775.0	21,250.7	11,684.3	92.2	164.4	-88.02	11,178.9	-3,686.1	2,621.0	2,365.3	255.76	10.248	
23,300.0	11,775.0	21,150.7	11,684.3	93.0	162.8	-88.02	11,278.9	-3,686.5	2,620.2	2,365.3	254.88	10.280	
23,400.0	11,775.0	21,050.7	11,684.3	93.7	161.2	-88.02	11,378.9	-3,687.0	2,619.4	2,365.4	254.01	10.312	
23,500.0	11,775.0	20,950.7	11,684.3	94.4	159.6	-88.02	11,478.9	-3,687.4	2,618.6	2,365.5	253.14	10.345	
23,600.0	11,775.0	20,850.7	11,684.3	95.1	158.0	-88.01	11,578.9	-3,687.8	2,617.8	2,365.6	252.27	10.377	
23,700.0	11,775.0	20,750.7	11,684.3	95.9	156.4	-88.01	11,678.9	-3,688.3	2,617.0	2,365.6	251.41	10.410	
23,800.0	11,775.0	20,650.7	11,684.3	96.6	154.8	-88.01	11,778.9	-3,688.7	2,616.2	2,365.7	250.54	10.442	
23,900.0	11,775.0	20,550.7	11,684.3	97.3	153.3	-88.01	11,878.9	-3,689.1	2,615.5	2,365.8	249.68	10.475	
24,000.0	11,775.0	20,450.7	11,684.3	98.0	151.7	-88.01	11,978.9	-3,689.6	2,614.7	2,365.8	248.82	10.508	
24,100.0	11,775.0	20,350.7	11,684.3	98.8	150.1	-88.01	12,078.9	-3,690.0	2,613.9	2,365.9	247.96	10.541	
24,200.0	11,775.0	20,250.7	11,684.3	99.5	148.5	-88.01	12,178.9	-3,690.5	2,613.1	2,366.0	247.11	10.575	
24,300.0	11,775.0	20,150.7	11,684.3	100.2	146.9	-88.01	12,278.8	-3,690.9	2,612.3	2,366.0	246.25	10.608	
24,400.0	11,775.0	20,050.7	11,684.3	100.9	145.4	-88.01	12,378.8	-3,691.3	2,611.5	2,366.1	245.40	10.642	
24,500.0	11,775.0	19,950.7	11,684.3	101.7	143.8	-88.01	12,478.8	-3,691.8	2,610.7	2,366.1	244.55	10.675	
24,600.0	11,775.0	19,850.7	11,684.3	102.4	142.2	-88.01	12,578.8	-3,692.2	2,609.9	2,366.2	243.71	10.709	
24,700.0	11,775.0	19,750.7	11,684.3	103.1	140.7	-88.01	12,678.8	-3,692.6	2,609.1	2,366.2	242.86	10.743	
24,800.0	11,775.0	19,650.7	11,684.3	103.9	139.1	-88.01	12,778.8	-3,693.1	2,608.3	2,366.3	242.02	10.777	
24,803.7	11,775.0	19,647.0	11,684.3	103.9	139.0	-88.01	12,782.5	-3,693.1	2,608.3	2,366.3	241.99	10.778 CC	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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		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)			
20,800.0	11,775.0	22,097.6	11,919.4	75.2	173.7	-94.14	10,517.7	-3,053.7	2,659.1	2,464.3	194.79	13.652	
20,900.0	11,775.0	22,097.6	11,919.4	75.9	173.7	-94.14	10,517.7	-3,053.7	2,594.3	2,395.0	199.34	13.015	
21,000.0	11,775.0	22,097.6	11,919.4	76.6	173.7	-94.14	10,517.7	-3,053.7	2,531.8	2,327.9	203.98	12.412	
21,100.0	11,775.0	22,097.6	11,919.4	77.3	173.7	-94.14	10,517.7	-3,053.7	2,471.8	2,263.1	208.70	11.844	
21,200.0	11,775.0	22,097.6	11,919.4	78.0	173.7	-94.14	10,517.7	-3,053.7	2,414.4	2,201.0	213.47	11.311	
21,300.0	11,775.0	22,097.6	11,919.4	78.7	173.7	-94.14	10,517.7	-3,053.7	2,359.9	2,141.6	218.25	10.813	
21,400.0	11,775.0	22,097.6	11,919.4	79.4	173.7	-94.14	10,517.7	-3,053.7	2,308.4	2,085.4	223.01	10.351	
21,500.0	11,775.0	22,097.6	11,919.4	80.1	173.7	-94.14	10,517.7	-3,053.7	2,260.2	2,032.4	227.71	9.925	
21,600.0	11,775.0	22,097.6	11,919.4	80.8	173.7	-94.14	10,517.7	-3,053.7	2,215.4	1,983.1	232.31	9.536	
21,700.0	11,775.0	22,097.6	11,919.4	81.5	173.7	-94.14	10,517.7	-3,053.7	2,174.3	1,937.5	236.75	9.184	
21,800.0	11,775.0	22,097.6	11,919.4	82.2	173.7	-94.14	10,517.7	-3,053.7	2,137.1	1,896.1	240.97	8.869	
21,900.0	11,775.0	22,097.6	11,919.4	83.0	173.7	-94.14	10,517.7	-3,053.7	2,104.0	1,859.1	244.93	8.590	
22,000.0	11,775.0	22,097.6	11,919.4	83.7	173.7	-94.14	10,517.7	-3,053.7	2,075.2	1,826.6	248.55	8.349	
22,100.0	11,775.0	22,097.6	11,919.4	84.4	173.7	-94.14	10,517.7	-3,053.7	2,050.9	1,799.1	251.78	8.145	
22,200.0	11,775.0	22,097.6	11,919.4	85.1	173.7	-94.14	10,517.7	-3,053.7	2,031.2	1,776.6	254.57	7.979	
22,300.0	11,775.0	22,097.6	11,919.4	85.8	173.7	-94.14	10,517.7	-3,053.7	2,016.2	1,759.4	256.86	7.850	
22,400.0	11,775.0	22,097.6	11,919.4	86.5	173.7	-94.14	10,517.7	-3,053.7	2,006.2	1,747.6	258.62	7.757	
22,500.0	11,775.0	22,097.6	11,919.4	87.2	173.7	-94.14	10,517.7	-3,053.7	2,001.1	1,741.3	259.81	7.702 SF	
22,600.0	11,775.0	22,033.7	11,919.4	87.9	172.6	-94.14	10,581.7	-3,054.0	2,000.0	1,740.5	259.54	7.706 ES	
22,700.0	11,775.0	21,933.7	11,919.4	88.7	171.1	-94.14	10,681.7	-3,054.5	1,999.2	1,740.5	258.67	7.729	
22,800.0	11,775.0	21,833.7	11,919.4	89.4	169.5	-94.15	10,781.7	-3,054.9	1,998.4	1,740.6	257.80	7.752	
22,900.0	11,775.0	21,733.7	11,919.4	90.1	167.9	-94.15	10,881.7	-3,055.3	1,997.6	1,740.7	256.94	7.775	
23,000.0	11,775.0	21,633.7	11,919.4	90.8	166.3	-94.15	10,981.6	-3,055.8	1,996.8	1,740.8	256.07	7.798	
23,100.0	11,775.0	21,533.7	11,919.4	91.5	164.7	-94.15	11,081.6	-3,056.2	1,996.0	1,740.8	255.21	7.821	
23,200.0	11,775.0	21,433.7	11,919.4	92.2	163.1	-94.15	11,181.6	-3,056.6	1,995.2	1,740.9	254.35	7.844	
23,300.0	11,775.0	21,333.7	11,919.4	93.0	161.5	-94.15	11,281.6	-3,057.1	1,994.4	1,740.9	253.49	7.868	
23,400.0	11,775.0	21,233.7	11,919.4	93.7	159.9	-94.16	11,381.6	-3,057.5	1,993.6	1,741.0	252.64	7.891	
23,500.0	11,775.0	21,133.7	11,919.4	94.4	158.4	-94.16	11,481.6	-3,058.0	1,992.9	1,741.1	251.78	7.915	
23,600.0	11,775.0	21,033.7	11,919.4	95.1	156.8	-94.16	11,581.6	-3,058.4	1,992.1	1,741.1	250.93	7.939	
23,700.0	11,775.0	20,933.7	11,919.4	95.9	155.2	-94.16	11,681.6	-3,058.8	1,991.3	1,741.2	250.08	7.962	
23,800.0	11,775.0	20,833.7	11,919.4	96.6	153.6	-94.16	11,781.6	-3,059.3	1,990.5	1,741.2	249.23	7.986	
23,900.0	11,775.0	20,733.7	11,919.4	97.3	152.1	-94.16	11,881.6	-3,059.7	1,989.7	1,741.3	248.39	8.010	
24,000.0	11,775.0	20,633.7	11,919.4	98.0	150.5	-94.16	11,981.6	-3,060.1	1,988.9	1,741.3	247.54	8.035	
24,100.0	11,775.0	20,533.7	11,919.4	98.8	148.9	-94.17	12,081.6	-3,060.6	1,988.1	1,741.4	246.70	8.059	
24,200.0	11,775.0	20,433.7	11,919.4	99.5	147.3	-94.17	12,181.6	-3,061.0	1,987.3	1,741.4	245.86	8.083	
24,300.0	11,775.0	20,333.7	11,919.4	100.2	145.8	-94.17	12,281.6	-3,061.4	1,986.5	1,741.5	245.02	8.107	
24,400.0	11,775.0	20,233.7	11,919.4	100.9	144.2	-94.17	12,381.6	-3,061.9	1,985.7	1,741.5	244.19	8.132	
24,500.0	11,775.0	20,133.7	11,919.4	101.7	142.6	-94.17	12,481.6	-3,062.3	1,984.9	1,741.6	243.35	8.157	
24,600.0	11,775.0	20,033.7	11,919.4	102.4	141.1	-94.17	12,581.6	-3,062.8	1,984.1	1,741.6	242.52	8.181	
24,700.0	11,775.0	19,933.7	11,919.4	103.1	139.5	-94.18	12,681.6	-3,063.2	1,983.3	1,741.6	241.69	8.206	
24,800.0	11,775.0	19,833.7	11,919.4	103.9	138.0	-94.18	12,781.6	-3,063.6	1,982.5	1,741.7	240.87	8.231	
24,803.7	11,775.0	19,830.0	11,919.4	103.9	137.9	-94.18	12,785.3	-3,063.6	1,982.5	1,741.7	240.84	8.232 CC	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1494-r.5 MWD+IFR1, 11021-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
0.0	0.0	0.0	7.2	3.0	3.0	-99.52	-401.8	-2,396.7	2,430.1				
100.0	100.0	92.8	100.0	3.0	3.0	-99.52	-401.8	-2,396.7	2,430.1	2,424.1	6.04	402.053	
200.0	200.0	192.8	200.0	3.2	3.1	-99.52	-401.8	-2,396.7	2,430.1	2,423.8	6.28	386.945	
300.0	300.0	292.8	300.0	3.3	3.3	-99.52	-401.8	-2,396.7	2,430.1	2,423.6	6.52	372.757	
400.0	400.0	392.8	400.0	3.4	3.4	-99.52	-401.8	-2,396.7	2,430.1	2,423.4	6.75	360.106	
500.0	500.0	492.8	500.0	3.5	3.5	-99.52	-401.8	-2,396.7	2,430.1	2,423.1	6.97	348.664	
600.0	600.0	592.8	600.0	3.6	3.6	-99.52	-401.8	-2,396.7	2,430.1	2,422.9	7.18	338.243	
700.0	700.0	692.8	700.0	3.8	3.8	-99.52	-401.8	-2,396.7	2,430.1	2,422.7	7.39	328.696	
800.0	800.0	792.8	800.0	3.9	3.9	-99.52	-401.8	-2,396.7	2,430.1	2,422.5	7.60	319.908	
900.0	900.0	892.8	900.0	4.0	4.0	-99.52	-401.8	-2,396.7	2,430.1	2,422.3	7.79	311.783	
1,000.0	1,000.0	992.8	1,000.0	4.1	4.1	-99.52	-401.8	-2,396.7	2,430.1	2,422.1	7.99	304.241	
1,100.0	1,100.0	1,092.8	1,100.0	4.2	4.2	-99.52	-401.8	-2,396.7	2,430.1	2,421.9	8.18	297.215	
1,200.0	1,200.0	1,192.8	1,200.0	4.4	4.4	-99.52	-401.8	-2,396.7	2,430.1	2,421.8	8.36	290.648	
1,300.0	1,300.0	1,292.8	1,300.0	4.5	4.5	-99.52	-401.8	-2,396.7	2,430.1	2,421.6	8.54	284.494	
1,400.0	1,400.0	1,392.8	1,400.0	4.6	4.6	-99.52	-401.8	-2,396.7	2,430.1	2,421.4	8.72	278.709	
1,500.0	1,500.0	1,492.8	1,500.0	4.7	4.8	-99.52	-401.8	-2,396.7	2,430.1	2,421.1	8.98	270.741	
1,600.0	1,600.0	1,592.8	1,600.0	4.8	4.9	13.49	-401.8	-2,396.7	2,428.8	2,419.6	9.26	262.192	
1,700.0	1,699.9	1,692.7	1,699.9	5.0	5.1	13.53	-401.8	-2,396.7	2,425.0	2,415.4	9.64	251.655	
1,800.0	1,799.7	1,792.5	1,799.7	5.2	5.2	13.59	-401.8	-2,396.7	2,418.7	2,408.6	10.02	241.349	
1,900.0	1,899.3	1,892.1	1,899.3	5.4	5.4	13.67	-401.8	-2,396.7	2,409.8	2,399.4	10.42	231.212	
2,000.0	1,998.6	1,991.4	1,998.6	5.6	5.5	13.78	-401.8	-2,396.7	2,398.4	2,387.5	10.84	221.239	
2,100.0	2,097.5	2,090.3	2,097.5	5.9	5.6	13.91	-401.8	-2,396.7	2,384.4	2,373.1	11.28	211.450	
2,200.0	2,196.1	2,188.9	2,196.1	6.2	5.8	14.07	-401.8	-2,396.7	2,368.0	2,356.2	11.73	201.875	
2,300.0	2,294.3	2,287.1	2,294.3	6.5	5.9	14.20	-401.8	-2,396.7	2,349.6	2,337.5	12.11	193.953	
2,400.0	2,392.4	2,385.2	2,392.4	6.8	6.0	14.32	-401.8	-2,396.7	2,331.1	2,318.5	12.57	185.456	
2,500.0	2,490.6	2,483.4	2,490.6	7.2	6.2	14.44	-401.8	-2,396.7	2,312.6	2,299.5	13.04	177.383	
2,600.0	2,588.8	2,545.5	2,552.7	7.5	6.2	14.51	-401.8	-2,397.0	2,294.7	2,281.2	13.51	169.890	
2,700.0	2,686.9	2,600.0	2,607.2	7.9	6.3	14.58	-401.8	-2,398.4	2,278.7	2,264.7	13.99	162.935	
2,800.0	2,785.1	2,656.0	2,663.2	8.3	6.4	14.66	-401.8	-2,400.9	2,264.6	2,250.1	14.48	156.433	
2,900.0	2,883.3	2,700.0	2,707.0	8.6	6.4	14.73	-401.8	-2,403.6	2,252.5	2,237.5	14.95	150.676	
3,000.0	2,981.4	2,767.6	2,774.4	9.0	6.6	14.83	-401.8	-2,409.2	2,242.1	2,226.6	15.49	144.764	
3,100.0	3,079.6	2,823.7	2,830.2	9.4	6.7	14.92	-401.8	-2,414.9	2,233.8	2,217.8	16.01	139.531	
3,200.0	3,177.7	2,900.0	2,905.9	9.8	6.9	15.06	-401.8	-2,424.5	2,227.6	2,211.0	16.59	134.233	
3,300.0	3,275.9	2,936.2	2,941.7	10.3	6.9	15.12	-401.8	-2,429.8	2,223.0	2,206.0	17.03	130.498	
3,400.0	3,374.1	3,025.3	3,029.7	10.7	7.1	15.29	-401.8	-2,443.7	2,220.0	2,202.4	17.59	126.210	
3,500.0	3,472.2	3,125.0	3,128.2	11.1	7.3	15.47	-401.8	-2,459.3	2,217.1	2,198.8	18.23	121.606	
3,600.0	3,570.4	3,224.7	3,226.7	11.5	7.6	15.65	-401.8	-2,474.9	2,214.1	2,195.3	18.90	117.178	
3,700.0	3,668.6	3,324.4	3,325.2	11.9	7.8	15.84	-401.7	-2,490.5	2,211.3	2,191.7	19.58	112.937	
3,800.0	3,766.7	3,424.1	3,423.6	12.4	8.1	16.03	-401.7	-2,506.1	2,208.4	2,188.1	20.28	108.885	
3,900.0	3,864.9	3,523.8	3,522.1	12.8	8.4	16.21	-401.7	-2,521.7	2,205.6	2,184.6	21.00	105.025	
4,000.0	3,963.0	3,623.5	3,620.6	13.2	8.7	16.40	-401.7	-2,537.3	2,202.8	2,181.0	21.73	101.353	
4,100.0	4,061.2	3,723.2	3,719.1	13.7	9.0	16.59	-401.7	-2,552.9	2,200.0	2,177.5	22.48	97.865	
4,200.0	4,159.4	3,822.9	3,817.5	14.1	9.3	16.77	-401.7	-2,568.5	2,197.2	2,174.0	23.24	94.556	
4,300.0	4,257.5	3,922.6	3,916.0	14.6	9.7	16.96	-401.7	-2,584.1	2,194.5	2,170.4	24.00	91.417	
4,400.0	4,355.7	4,022.3	4,014.5	15.0	10.0	17.15	-401.7	-2,599.7	2,191.7	2,167.0	24.78	88.440	
4,500.0	4,453.9	4,122.0	4,112.9	15.4	10.4	17.34	-401.7	-2,615.3	2,189.0	2,163.5	25.57	85.618	
4,600.0	4,552.0	4,221.7	4,211.4	15.9	10.7	17.53	-401.6	-2,630.9	2,186.4	2,160.0	26.36	82.942	
4,700.0	4,650.2	4,321.4	4,309.9	16.3	11.1	17.72	-401.6	-2,646.5	2,183.7	2,156.6	27.16	80.403	
4,800.0	4,748.3	4,421.1	4,408.4	16.8	11.5	17.91	-401.6	-2,662.1	2,181.1	2,153.1	27.96	77.994	
4,900.0	4,846.5	4,520.8	4,506.8	17.2	11.8	18.10	-401.6	-2,677.7	2,178.5	2,149.7	28.78	75.707	
5,000.0	4,944.7	4,620.5	4,605.3	17.7	12.2	18.29	-401.6	-2,693.3	2,175.9	2,146.3	29.59	73.534	
5,100.0	5,042.8	4,720.2	4,703.8	18.1	12.6	18.48	-401.6	-2,708.9	2,173.4	2,143.0	30.41	71.469	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1494-r.5 MWD+IFR1, 11021-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
5,200.0	5,141.0	4,819.9	4,802.3	18.6	13.0	18.67	-401.6	-2,724.5	2,170.8	2,139.6	31.23	69.505	
5,300.0	5,239.2	4,919.6	4,900.7	19.0	13.4	18.87	-401.6	-2,740.1	2,168.3	2,136.3	32.06	67.635	
5,400.0	5,337.3	5,019.3	4,999.2	19.5	13.8	19.06	-401.6	-2,755.7	2,165.9	2,133.0	32.89	65.854	
5,500.0	5,435.5	5,119.0	5,097.7	19.9	14.2	19.25	-401.5	-2,771.3	2,163.4	2,129.7	33.72	64.156	
5,600.0	5,533.6	5,218.7	5,196.2	20.4	14.6	19.45	-401.5	-2,786.8	2,161.0	2,126.4	34.56	62.537	
5,700.0	5,631.8	5,318.4	5,294.6	20.8	15.0	19.64	-401.5	-2,802.4	2,158.6	2,123.2	35.39	60.991	
5,800.0	5,730.0	5,418.1	5,393.1	21.3	15.4	19.84	-401.5	-2,818.0	2,156.2	2,120.0	36.23	59.515	
5,900.0	5,828.1	5,517.8	5,491.6	21.7	15.8	20.03	-401.5	-2,833.6	2,153.9	2,116.8	37.07	58.103	
6,000.0	5,926.3	5,617.5	5,590.1	22.2	16.2	20.23	-401.5	-2,849.2	2,151.5	2,113.6	37.91	56.753	
6,100.0	6,024.5	5,717.3	5,688.5	22.6	16.6	20.42	-401.5	-2,864.8	2,149.5	2,110.7	38.74	55.488	
6,200.0	6,122.9	5,817.0	5,787.1	23.1	17.0	20.60	-401.5	-2,880.4	2,148.3	2,108.7	39.58	54.282	
6,296.9	6,218.4	5,913.7	5,882.6	23.5	17.4	20.77	-401.5	-2,895.6	2,147.9	2,107.5	40.38	53.185	
6,300.0	6,221.4	5,916.8	5,885.6	23.5	17.4	20.78	-401.5	-2,896.0	2,147.9	2,107.5	40.41	53.151	
6,400.0	6,320.1	6,026.9	5,994.3	24.0	17.9	20.97	-401.4	-2,913.2	2,148.3	2,107.0	41.28	52.040	
6,500.0	6,418.9	6,186.5	6,152.5	24.4	18.6	21.22	-401.4	-2,935.2	2,147.7	2,105.4	42.31	50.755	
6,600.0	6,517.8	6,346.1	6,311.0	24.9	19.2	21.46	-401.4	-2,952.8	2,145.1	2,101.8	43.28	49.561	
6,700.0	6,616.9	6,505.4	6,469.8	25.3	19.8	21.67	-401.4	-2,966.0	2,140.6	2,096.5	44.18	48.449	
6,800.0	6,716.1	6,664.4	6,628.6	25.7	20.3	21.87	-401.4	-2,974.7	2,134.2	2,089.2	44.99	47.436	
6,900.0	6,815.3	6,822.8	6,786.9	26.1	20.7	22.05	-401.4	-2,979.0	2,125.8	2,080.1	45.67	46.550	
7,000.0	6,914.7	6,950.6	6,914.7	26.5	20.9	22.17	-401.4	-2,979.5	2,115.9	2,069.8	46.10	45.899	
7,100.0	7,014.2	7,050.1	7,014.2	26.9	20.9	22.26	-401.4	-2,979.5	2,106.4	2,059.9	46.50	45.298	
7,200.0	7,113.8	7,149.6	7,113.8	27.3	21.0	22.34	-401.4	-2,979.5	2,097.8	2,050.9	46.90	44.732	
7,300.0	7,213.4	7,249.3	7,213.4	27.7	21.0	22.41	-401.4	-2,979.5	2,089.9	2,042.6	47.28	44.199	
7,400.0	7,313.1	7,349.0	7,313.1	28.1	21.0	22.48	-401.4	-2,979.5	2,082.9	2,035.2	47.66	43.700	
7,500.0	7,412.9	7,448.8	7,412.9	28.4	21.1	22.54	-401.4	-2,979.5	2,076.7	2,028.6	48.03	43.233	
7,600.0	7,512.7	7,548.6	7,512.7	28.8	21.1	22.59	-401.4	-2,979.5	2,071.2	2,022.9	48.40	42.798	
7,700.0	7,612.6	7,648.5	7,612.6	29.1	21.2	22.64	-401.4	-2,979.5	2,066.6	2,017.9	48.75	42.395	
7,800.0	7,712.5	7,748.4	7,712.5	29.5	21.2	22.67	-401.4	-2,979.5	2,062.8	2,013.8	49.09	42.026	
7,900.0	7,812.4	7,848.3	7,812.4	29.8	21.2	22.70	-401.4	-2,979.5	2,059.8	2,010.4	49.41	41.690	
8,000.0	7,912.4	7,948.3	7,912.4	30.1	21.3	22.72	-401.4	-2,979.5	2,057.7	2,007.9	49.71	41.389	
8,100.0	8,012.4	8,048.3	8,012.4	30.3	21.3	22.74	-401.4	-2,979.5	2,056.3	2,006.3	50.00	41.129	
8,200.0	8,112.4	8,148.3	8,112.4	30.5	21.4	22.74	-401.4	-2,979.5	2,055.7	2,005.5	50.23	40.925	
8,293.3	8,205.7	8,241.6	8,205.7	30.6	21.4	22.74	-401.4	-2,979.5	2,055.6	2,005.3	50.29	40.873	
8,300.0	8,212.4	8,248.3	8,212.4	30.6	21.4	-90.26	-401.4	-2,979.5	2,055.7	2,005.4	50.30	40.871	
8,400.0	8,312.4	8,348.3	8,312.4	30.6	21.4	-90.26	-401.4	-2,979.5	2,055.7	2,005.3	50.36	40.821	
8,500.0	8,412.4	8,448.3	8,412.4	30.6	21.5	-90.26	-401.4	-2,979.5	2,055.7	2,005.2	50.42	40.772	
8,600.0	8,512.4	8,548.3	8,512.4	30.6	21.5	-90.26	-401.4	-2,979.5	2,055.7	2,005.2	50.48	40.722	
8,700.0	8,612.4	8,648.3	8,612.4	30.6	21.6	-90.26	-401.4	-2,979.5	2,055.7	2,005.1	50.54	40.671	
8,800.0	8,712.4	8,748.3	8,712.4	30.7	21.6	-90.26	-401.4	-2,979.5	2,055.7	2,005.1	50.61	40.621	
8,900.0	8,812.4	8,848.3	8,812.4	30.7	21.7	-90.26	-401.4	-2,979.5	2,055.7	2,005.0	50.67	40.570	
9,000.0	8,912.4	8,948.3	8,912.4	30.7	21.7	-90.26	-401.4	-2,979.5	2,055.7	2,004.9	50.73	40.519	
9,100.0	9,012.4	9,048.3	9,012.4	30.7	21.7	-90.26	-401.4	-2,979.5	2,055.7	2,004.9	50.80	40.468	
9,200.0	9,112.4	9,148.3	9,112.4	30.7	21.8	-90.26	-401.4	-2,979.5	2,055.7	2,004.8	50.86	40.417	
9,300.0	9,212.4	9,248.3	9,212.4	30.8	21.8	-90.26	-401.4	-2,979.5	2,055.7	2,004.7	50.93	40.365	
9,400.0	9,312.4	9,348.3	9,312.4	30.8	21.9	-90.26	-401.4	-2,979.5	2,055.7	2,004.7	50.99	40.314	
9,500.0	9,412.4	9,448.3	9,412.4	30.8	21.9	-90.26	-401.4	-2,979.5	2,055.7	2,004.6	51.06	40.262	
9,600.0	9,512.4	9,548.3	9,512.4	30.8	22.0	-90.26	-401.4	-2,979.5	2,055.7	2,004.5	51.12	40.210	
9,700.0	9,612.4	9,648.3	9,612.4	30.8	22.0	-90.26	-401.4	-2,979.5	2,055.7	2,004.5	51.19	40.157	
9,800.0	9,712.4	9,748.3	9,712.4	30.9	22.1	-90.26	-401.4	-2,979.5	2,055.7	2,004.4	51.26	40.105	
9,900.0	9,812.4	9,848.3	9,812.4	30.9	22.1	-90.26	-401.4	-2,979.5	2,055.7	2,004.3	51.33	40.052	
10,000.0	9,912.4	9,948.3	9,912.4	30.9	22.1	-90.26	-401.4	-2,979.5	2,055.7	2,004.3	51.39	39.999	
10,100.0	10,012.4	10,048.3	10,012.4	30.9	22.2	-90.26	-401.4	-2,979.5	2,055.7	2,004.2	51.46	39.946	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1494-r.5 MWD+IFR1, 11021-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
10,200.0	10,112.4	10,148.3	10,112.4	30.9	22.2	-90.26	-401.4	-2,979.5	2,055.7	2,004.1	51.53	39.893	
10,300.0	10,212.4	10,248.3	10,212.4	31.0	22.3	-90.26	-401.4	-2,979.5	2,055.7	2,004.1	51.60	39.839	
10,400.0	10,312.4	10,348.3	10,312.4	31.0	22.3	-90.26	-401.4	-2,979.5	2,055.7	2,004.0	51.67	39.785	
10,500.0	10,412.4	10,448.3	10,412.4	31.0	22.4	-90.26	-401.4	-2,979.5	2,055.7	2,003.9	51.74	39.732	
10,600.0	10,512.4	10,548.3	10,512.4	31.0	22.4	-90.26	-401.4	-2,979.5	2,055.7	2,003.9	51.81	39.678	
10,700.0	10,612.4	10,648.3	10,612.4	31.1	22.5	-90.26	-401.4	-2,979.5	2,055.7	2,003.8	51.88	39.624	
10,800.0	10,712.4	10,748.3	10,712.4	31.1	22.5	-90.26	-401.4	-2,979.5	2,055.7	2,003.7	51.95	39.569	
10,900.0	10,812.4	10,848.3	10,812.4	31.1	22.6	-90.26	-401.4	-2,979.5	2,055.7	2,003.6	52.02	39.515	
11,000.0	10,912.4	10,948.3	10,912.4	31.1	22.6	-90.26	-401.4	-2,979.5	2,055.7	2,003.6	52.09	39.460	
11,004.0	10,916.4	10,952.3	10,916.4	31.1	22.6	-90.26	-401.4	-2,979.5	2,055.7	2,003.6	52.10	39.458	
11,100.0	11,012.4	11,047.7	11,011.8	31.2	22.6	-90.23	-400.6	-2,979.5	2,055.7	2,003.5	52.15	39.420	
11,200.0	11,112.4	11,143.0	11,105.7	31.2	22.6	-89.82	-385.5	-2,979.7	2,055.8	2,003.7	52.13	39.433	
11,300.0	11,212.4	11,229.3	11,186.7	31.2	22.7	-88.28	-356.1	-2,979.9	2,056.5	2,004.4	52.09	39.480	
11,400.0	11,311.7	11,307.6	11,254.5	31.2	22.7	-87.24	-317.2	-2,980.3	2,058.1	2,006.0	52.06	39.531	
11,500.0	11,407.7	11,381.1	11,311.6	31.2	22.7	-86.23	-271.0	-2,980.7	2,060.3	2,008.2	52.09	39.555	
11,600.0	11,497.4	11,450.0	11,358.1	31.3	22.7	-85.25	-220.2	-2,981.2	2,063.0	2,010.8	52.17	39.542	
11,700.0	11,578.2	11,517.9	11,396.3	31.3	22.7	-84.32	-164.2	-2,981.7	2,065.9	2,013.6	52.30	39.499	
11,800.0	11,647.5	11,582.6	11,425.0	31.3	22.8	-83.47	-106.2	-2,982.2	2,069.0	2,016.5	52.49	39.414	
11,900.0	11,703.3	11,645.5	11,445.1	31.4	22.8	-82.72	-46.6	-2,982.7	2,072.0	2,019.2	52.74	39.290	
12,000.0	11,743.9	11,707.1	11,457.1	31.4	22.9	-82.08	13.7	-2,983.3	2,074.7	2,021.6	53.02	39.133	
12,100.0	11,768.0	11,769.6	11,461.2	31.5	22.9	-81.57	76.0	-2,983.8	2,076.9	2,023.5	53.32	38.952	
12,200.0	11,775.0	11,866.1	11,461.2	31.6	23.1	-81.31	172.5	-2,984.7	2,077.6	2,024.0	53.54	38.802	
12,300.0	11,775.0	11,966.1	11,461.2	31.7	23.3	-81.31	272.5	-2,985.6	2,077.3	2,023.5	53.80	38.613	
12,400.0	11,775.0	12,066.1	11,461.2	31.8	23.4	-81.31	372.5	-2,986.5	2,076.9	2,022.8	54.09	38.396	
12,500.0	11,775.0	12,166.1	11,461.2	31.9	23.7	-81.31	472.5	-2,987.4	2,076.6	2,022.2	54.43	38.153	
12,600.0	11,775.0	12,266.1	11,461.2	32.1	23.9	-81.31	572.5	-2,988.3	2,076.3	2,021.5	54.81	37.883	
12,700.0	11,775.0	12,366.1	11,461.2	32.2	24.2	-81.31	672.5	-2,989.3	2,076.0	2,020.8	55.23	37.591	
12,800.0	11,775.0	12,466.1	11,461.2	32.4	24.4	-81.30	772.5	-2,990.2	2,075.7	2,020.0	55.68	37.276	
12,900.0	11,775.0	12,566.1	11,461.2	32.6	24.7	-81.30	872.5	-2,991.1	2,075.3	2,019.2	56.18	36.942	
13,000.0	11,775.0	12,666.1	11,461.2	32.8	25.1	-81.30	972.5	-2,992.0	2,075.0	2,018.3	56.71	36.590	
13,100.0	11,775.0	12,766.1	11,461.2	33.0	25.4	-81.30	1,072.5	-2,992.9	2,074.7	2,017.4	57.28	36.221	
13,200.0	11,775.0	12,866.1	11,461.2	33.3	25.8	-81.30	1,172.5	-2,993.8	2,074.4	2,016.5	57.88	35.839	
13,300.0	11,775.0	12,966.1	11,461.2	33.5	26.1	-81.30	1,272.5	-2,994.7	2,074.0	2,015.5	58.52	35.444	
13,400.0	11,775.0	13,066.1	11,461.2	33.8	26.5	-81.30	1,372.5	-2,995.6	2,073.7	2,014.5	59.19	35.038	
13,500.0	11,775.0	13,166.1	11,461.2	34.1	26.9	-81.30	1,472.5	-2,996.5	2,073.4	2,013.5	59.89	34.622	
13,600.0	11,775.0	13,266.1	11,461.2	34.4	27.4	-81.29	1,572.5	-2,997.4	2,073.1	2,012.5	60.62	34.200	
13,700.0	11,775.0	13,366.1	11,461.2	34.7	27.8	-81.29	1,672.5	-2,998.3	2,072.8	2,011.4	61.38	33.771	
13,800.0	11,775.0	13,466.1	11,461.2	35.0	28.3	-81.29	1,772.4	-2,999.2	2,072.4	2,010.3	62.16	33.338	
13,900.0	11,775.0	13,566.1	11,461.2	35.3	28.7	-81.29	1,872.4	-3,000.1	2,072.1	2,009.1	62.98	32.902	
14,000.0	11,775.0	13,666.1	11,461.2	35.6	29.2	-81.29	1,972.4	-3,001.1	2,071.8	2,008.0	63.82	32.463	
14,100.0	11,775.0	13,766.1	11,461.2	36.0	29.7	-81.29	2,072.4	-3,002.0	2,071.5	2,006.8	64.69	32.024	
14,200.0	11,775.0	13,866.1	11,461.2	36.4	30.2	-81.29	2,172.4	-3,002.9	2,071.2	2,005.6	65.58	31.584	
14,300.0	11,775.0	13,966.1	11,461.2	36.7	30.7	-81.28	2,272.4	-3,003.8	2,070.8	2,004.3	66.49	31.146	
14,400.0	11,775.0	14,066.1	11,461.2	37.1	31.2	-81.28	2,372.4	-3,004.7	2,070.5	2,003.1	67.42	30.709	
14,500.0	11,775.0	14,166.1	11,461.2	37.5	31.8	-81.28	2,472.4	-3,005.6	2,070.2	2,001.8	68.38	30.275	
14,600.0	11,775.0	14,266.1	11,461.2	37.9	32.3	-81.28	2,572.4	-3,006.5	2,069.9	2,000.5	69.35	29.845	
14,700.0	11,775.0	14,366.1	11,461.2	38.4	32.8	-81.28	2,672.4	-3,007.4	2,069.5	1,999.2	70.35	29.418	
14,800.0	11,775.0	14,466.1	11,461.2	38.8	33.4	-81.28	2,772.4	-3,008.3	2,069.2	1,997.9	71.36	28.995	
14,900.0	11,775.0	14,566.1	11,461.2	39.2	34.0	-81.28	2,872.4	-3,009.2	2,068.9	1,996.5	72.40	28.578	
15,000.0	11,775.0	14,666.1	11,461.2	39.7	34.5	-81.27	2,972.4	-3,010.1	2,068.6	1,995.1	73.45	28.165	
15,100.0	11,775.0	14,766.1	11,461.2	40.1	35.1	-81.27	3,072.4	-3,011.0	2,068.3	1,993.8	74.51	27.758	
15,200.0	11,775.0	14,866.1	11,461.2	40.6	35.7	-81.27	3,172.4	-3,011.9	2,067.9	1,992.3	75.59	27.357	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1494-r.5 MWD+IFR1, 11021-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	
15,300.0	11,775.0	14,966.1	11,461.2	41.1	36.3	-81.27	3,272.4	-3,012.9	2,067.6	1,990.9	76.69	26.961	
15,400.0	11,775.0	15,066.1	11,461.2	41.6	36.9	-81.27	3,372.4	-3,013.8	2,067.3	1,989.5	77.80	26.572	
15,500.0	11,775.0	15,166.1	11,461.2	42.1	37.5	-81.27	3,472.4	-3,014.7	2,067.0	1,988.1	78.92	26.190	
15,600.0	11,775.0	15,266.1	11,461.2	42.6	38.1	-81.27	3,572.4	-3,015.6	2,066.7	1,986.6	80.06	25.814	
15,700.0	11,775.0	15,366.1	11,461.2	43.1	38.7	-81.26	3,672.4	-3,016.5	2,066.3	1,985.1	81.21	25.444	
15,800.0	11,775.0	15,466.1	11,461.2	43.6	39.4	-81.26	3,772.4	-3,017.4	2,066.0	1,983.6	82.37	25.081	
15,900.0	11,775.0	15,566.1	11,461.2	44.1	40.0	-81.26	3,872.3	-3,018.3	2,065.7	1,982.1	83.55	24.725	
16,000.0	11,775.0	15,666.1	11,461.2	44.7	40.6	-81.26	3,972.3	-3,019.2	2,065.4	1,980.6	84.73	24.375	
16,100.0	11,775.0	15,766.0	11,461.2	45.2	41.3	-81.26	4,072.3	-3,020.1	2,065.0	1,979.1	85.93	24.032	
16,200.0	11,775.0	15,866.0	11,461.2	45.7	41.9	-81.26	4,172.3	-3,021.0	2,064.7	1,977.6	87.13	23.696	
16,300.0	11,775.0	15,966.0	11,461.2	46.3	42.5	-81.26	4,272.3	-3,021.9	2,064.4	1,976.1	88.35	23.366	
16,400.0	11,775.0	16,066.0	11,461.2	46.9	43.2	-81.26	4,372.3	-3,022.8	2,064.1	1,974.5	89.58	23.043	
16,500.0	11,775.0	16,166.0	11,461.2	47.4	43.8	-81.25	4,472.3	-3,023.7	2,063.8	1,973.0	90.81	22.726	
16,600.0	11,775.0	16,266.0	11,461.2	48.0	44.5	-81.25	4,572.3	-3,024.7	2,063.4	1,971.4	92.05	22.416	
16,700.0	11,775.0	16,366.0	11,461.2	48.6	45.2	-81.25	4,672.3	-3,025.6	2,063.1	1,969.8	93.31	22.111	
16,800.0	11,775.0	16,466.0	11,461.2	49.1	45.8	-81.25	4,772.3	-3,026.5	2,062.8	1,968.2	94.57	21.814	
16,900.0	11,775.0	16,566.0	11,461.2	49.7	46.5	-81.25	4,872.3	-3,027.4	2,062.5	1,966.6	95.83	21.522	
17,000.0	11,775.0	16,666.0	11,461.2	50.3	47.2	-81.25	4,972.3	-3,028.3	2,062.2	1,965.0	97.11	21.236	
17,100.0	11,775.0	16,766.0	11,461.2	50.9	47.8	-81.25	5,072.3	-3,029.2	2,061.8	1,963.4	98.39	20.956	
17,200.0	11,775.0	16,866.0	11,461.2	51.5	48.5	-81.24	5,172.3	-3,030.1	2,061.5	1,961.8	99.68	20.682	
17,300.0	11,775.0	16,966.0	11,461.2	52.1	49.2	-81.24	5,272.3	-3,031.0	2,061.2	1,960.2	100.97	20.413	
17,400.0	11,775.0	17,066.0	11,461.2	52.7	49.9	-81.24	5,372.3	-3,031.9	2,060.9	1,958.6	102.28	20.150	
17,500.0	11,775.0	17,166.0	11,461.2	53.3	50.5	-81.24	5,472.3	-3,032.8	2,060.5	1,957.0	103.58	19.893	
17,600.0	11,775.0	17,266.0	11,461.2	54.0	51.2	-81.24	5,572.3	-3,033.7	2,060.2	1,955.3	104.90	19.640	
17,700.0	11,775.0	17,366.0	11,461.2	54.6	51.9	-81.24	5,672.3	-3,034.6	2,059.9	1,953.7	106.22	19.393	
17,800.0	11,775.0	17,466.0	11,461.2	55.2	52.6	-81.24	5,772.3	-3,035.5	2,059.6	1,952.0	107.54	19.151	
17,900.0	11,775.0	17,566.0	11,461.2	55.8	53.3	-81.23	5,872.3	-3,036.5	2,059.3	1,950.4	108.87	18.914	
18,000.0	11,775.0	17,666.0	11,461.2	56.5	54.0	-81.23	5,972.3	-3,037.4	2,058.9	1,948.7	110.21	18.682	
18,100.0	11,775.0	17,766.0	11,461.2	57.1	54.7	-81.23	6,072.2	-3,038.3	2,058.6	1,947.1	111.55	18.455	
18,200.0	11,775.0	17,866.0	11,461.2	57.7	55.4	-81.23	6,172.2	-3,039.2	2,058.3	1,945.4	112.89	18.232	
18,300.0	11,775.0	17,966.0	11,461.2	58.4	56.1	-81.23	6,272.2	-3,040.1	2,058.0	1,943.7	114.24	18.014	
18,400.0	11,775.0	18,066.0	11,461.2	59.0	56.8	-81.23	6,372.2	-3,041.0	2,057.7	1,942.1	115.60	17.800	
18,500.0	11,775.0	18,166.0	11,461.2	59.7	57.5	-81.23	6,472.2	-3,041.9	2,057.3	1,940.4	116.96	17.591	
18,600.0	11,775.0	18,266.0	11,461.2	60.3	58.2	-81.22	6,572.2	-3,042.8	2,057.0	1,938.7	118.32	17.385	
18,700.0	11,775.0	18,366.0	11,461.2	61.0	58.9	-81.22	6,672.2	-3,043.7	2,056.7	1,937.0	119.68	17.184	
18,800.0	11,775.0	18,466.0	11,461.2	61.6	59.6	-81.22	6,772.2	-3,044.6	2,056.4	1,935.3	121.05	16.987	
18,900.0	11,775.0	18,566.0	11,461.2	62.3	60.3	-81.22	6,872.2	-3,045.5	2,056.0	1,933.6	122.43	16.794	
19,000.0	11,775.0	18,666.0	11,461.2	63.0	61.0	-81.22	6,972.2	-3,046.4	2,055.7	1,931.9	123.81	16.604	
19,100.0	11,775.0	18,766.0	11,461.2	63.6	61.7	-81.22	7,072.2	-3,047.3	2,055.4	1,930.2	125.19	16.419	
19,200.0	11,775.0	18,866.0	11,461.2	64.3	62.4	-81.22	7,172.2	-3,048.2	2,055.1	1,928.5	126.57	16.237	
19,300.0	11,775.0	18,966.0	11,461.2	65.0	63.1	-81.21	7,272.2	-3,049.2	2,054.8	1,926.8	127.96	16.058	
19,400.0	11,775.0	19,066.0	11,461.2	65.6	63.8	-81.21	7,372.2	-3,050.1	2,054.4	1,925.1	129.35	15.883	
19,500.0	11,775.0	19,166.0	11,461.2	66.3	64.6	-81.21	7,472.2	-3,051.0	2,054.1	1,923.4	130.74	15.711	
19,600.0	11,775.0	19,266.0	11,461.2	67.0	65.3	-81.21	7,572.2	-3,051.9	2,053.8	1,921.7	132.14	15.543	
19,700.0	11,775.0	19,366.0	11,461.2	67.7	66.0	-81.21	7,672.2	-3,052.8	2,053.5	1,919.9	133.54	15.377	
19,800.0	11,775.0	19,466.0	11,461.2	68.3	66.7	-81.21	7,772.2	-3,053.7	2,053.2	1,918.2	134.94	15.215	
19,900.0	11,775.0	19,566.0	11,461.2	69.0	67.4	-81.21	7,872.2	-3,054.6	2,052.8	1,916.5	136.35	15.056	
20,000.0	11,775.0	19,666.0	11,461.2	69.7	68.1	-81.21	7,972.2	-3,055.5	2,052.5	1,914.8	137.76	14.900	
20,100.0	11,775.0	19,766.0	11,461.2	70.4	68.9	-81.20	8,072.2	-3,056.4	2,052.2	1,913.0	139.17	14.746	
20,200.0	11,775.0	19,866.0	11,461.2	71.1	69.6	-81.20	8,172.1	-3,057.3	2,051.9	1,911.3	140.58	14.596	
20,300.0	11,775.0	19,966.0	11,461.2	71.8	70.3	-81.20	8,272.1	-3,058.2	2,051.5	1,909.6	141.99	14.448	
20,400.0	11,775.0	20,066.0	11,461.2	72.5	71.0	-81.20	8,372.1	-3,059.1	2,051.2	1,907.8	143.41	14.303	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1494-r.5 MWD+IFR1, 11021-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	
20,500.0	11,775.0	20,166.0	11,461.2	73.1	71.8	-81.20	8,472.1	-3,060.0	2,050.9	1,906.1	144.83	14.161	
20,600.0	11,775.0	20,266.0	11,461.2	73.8	72.5	-81.20	8,572.1	-3,061.0	2,050.6	1,904.3	146.25	14.021	
20,700.0	11,775.0	20,366.0	11,461.2	74.5	73.2	-81.20	8,672.1	-3,061.9	2,050.3	1,902.6	147.68	13.883	
20,800.0	11,775.0	20,466.0	11,461.2	75.2	73.9	-81.19	8,772.1	-3,062.8	2,049.9	1,900.8	149.10	13.749	
20,900.0	11,775.0	20,566.0	11,461.2	75.9	74.7	-81.19	8,872.1	-3,063.7	2,049.6	1,899.1	150.53	13.616	
21,000.0	11,775.0	20,666.0	11,461.2	76.6	75.4	-81.19	8,972.1	-3,064.6	2,049.3	1,897.3	151.96	13.486	
21,100.0	11,775.0	20,766.0	11,461.2	77.3	76.1	-81.19	9,072.1	-3,065.5	2,049.0	1,895.6	153.39	13.358	
21,200.0	11,775.0	20,866.0	11,461.2	78.0	76.8	-81.19	9,172.1	-3,066.4	2,048.7	1,893.8	154.83	13.232	
21,300.0	11,775.0	20,966.0	11,461.2	78.7	77.6	-81.19	9,272.1	-3,067.3	2,048.3	1,892.1	156.26	13.108	
21,400.0	11,775.0	21,066.0	11,461.2	79.4	78.3	-81.19	9,372.1	-3,068.2	2,048.0	1,890.3	157.70	12.987	
21,500.0	11,775.0	21,166.0	11,461.2	80.1	79.0	-81.18	9,472.1	-3,069.1	2,047.7	1,888.6	159.14	12.867	
21,600.0	11,775.0	21,266.0	11,461.2	80.8	79.8	-81.18	9,572.1	-3,070.0	2,047.4	1,886.8	160.58	12.750	
21,700.0	11,775.0	21,366.0	11,461.2	81.5	80.5	-81.18	9,672.1	-3,070.9	2,047.1	1,885.0	162.02	12.635	
21,800.0	11,775.0	21,466.0	11,461.2	82.2	81.2	-81.18	9,772.1	-3,071.8	2,046.7	1,883.3	163.46	12.521	
21,900.0	11,775.0	21,566.0	11,461.2	83.0	82.0	-81.18	9,872.1	-3,072.8	2,046.4	1,881.5	164.91	12.409	
22,000.0	11,775.0	21,666.0	11,461.2	83.7	82.7	-81.18	9,972.1	-3,073.7	2,046.1	1,879.7	166.36	12.299	
22,100.0	11,775.0	21,760.2	11,461.2	84.4	83.4	-81.18	10,066.3	-3,074.5	2,045.8	1,878.0	167.79	12.193	
22,100.8	11,775.0	21,760.2	11,461.2	84.4	83.4	-81.18	10,066.3	-3,074.5	2,045.8	1,878.0	167.80	12.192 CC, ES	
22,200.0	11,775.0	21,760.2	11,461.2	85.1	83.4	-81.18	10,066.3	-3,074.5	2,048.2	1,879.4	168.77	12.136	
22,300.0	11,775.0	21,760.2	11,461.2	85.8	83.4	-81.18	10,066.3	-3,074.5	2,055.5	1,886.1	169.40	12.134 SF	
22,400.0	11,775.0	21,760.2	11,461.2	86.5	83.4	-81.18	10,066.3	-3,074.5	2,067.5	1,897.9	169.66	12.186	
22,500.0	11,775.0	21,760.2	11,461.2	87.2	83.4	-81.18	10,066.3	-3,074.5	2,084.4	1,914.8	169.58	12.291	
22,600.0	11,775.0	21,760.2	11,461.2	87.9	83.4	-81.18	10,066.3	-3,074.5	2,105.8	1,936.6	169.18	12.447	
22,700.0	11,775.0	21,760.2	11,461.2	88.7	83.4	-81.18	10,066.3	-3,074.5	2,131.7	1,963.3	168.47	12.654	
22,800.0	11,775.0	21,760.2	11,461.2	89.4	83.4	-81.18	10,066.3	-3,074.5	2,162.0	1,994.5	167.48	12.909	
22,900.0	11,775.0	21,760.2	11,461.2	90.1	83.4	-81.18	10,066.3	-3,074.5	2,196.3	2,030.1	166.24	13.212	
23,000.0	11,775.0	21,760.2	11,461.2	90.8	83.4	-81.18	10,066.3	-3,074.5	2,234.7	2,069.9	164.79	13.561	
23,100.0	11,775.0	21,760.2	11,461.2	91.5	83.4	-81.18	10,066.3	-3,074.5	2,276.8	2,113.6	163.16	13.954	
23,200.0	11,775.0	21,760.2	11,461.2	92.2	83.4	-81.18	10,066.3	-3,074.5	2,322.4	2,161.0	161.38	14.391	
23,300.0	11,775.0	21,760.2	11,461.2	93.0	83.4	-81.18	10,066.3	-3,074.5	2,371.4	2,211.9	159.48	14.870	
23,400.0	11,775.0	21,760.2	11,461.2	93.7	83.4	-81.18	10,066.3	-3,074.5	2,423.5	2,266.0	157.48	15.389	
23,500.0	11,775.0	21,760.2	11,461.2	94.4	83.4	-81.18	10,066.3	-3,074.5	2,478.5	2,323.1	155.42	15.947	
23,600.0	11,775.0	21,760.2	11,461.2	95.1	83.4	-81.18	10,066.3	-3,074.5	2,536.3	2,383.0	153.31	16.543	
23,700.0	11,775.0	21,760.2	11,461.2	95.9	83.4	-81.18	10,066.3	-3,074.5	2,596.7	2,445.5	151.19	17.175	
23,800.0	11,775.0	21,760.2	11,461.2	96.6	83.4	-81.18	10,066.3	-3,074.5	2,659.4	2,510.4	149.05	17.843	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11147-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	6.2	3.0	3.0	-99.63	-401.6	-2,366.6	2,400.4				
100.0	100.0	93.8	100.0	3.0	3.0	-99.63	-401.6	-2,366.6	2,400.4	2,394.4	6.04	397.115	
200.0	200.0	193.8	200.0	3.2	3.1	-99.63	-401.6	-2,366.6	2,400.4	2,394.1	6.28	382.116	
300.0	300.0	293.8	300.0	3.3	3.3	-99.63	-401.6	-2,366.6	2,400.4	2,393.9	6.52	368.128	
400.0	400.0	393.8	400.0	3.4	3.4	-99.63	-401.6	-2,366.6	2,400.4	2,393.7	6.75	355.641	
500.0	500.0	493.8	500.0	3.5	3.5	-99.63	-401.6	-2,366.6	2,400.4	2,393.5	6.97	344.345	
600.0	600.0	593.8	600.0	3.6	3.6	-99.63	-401.6	-2,366.6	2,400.4	2,393.2	7.19	334.056	
700.0	700.0	693.8	700.0	3.8	3.8	-99.63	-401.6	-2,366.6	2,400.4	2,393.0	7.39	324.630	
800.0	800.0	793.8	800.0	3.9	3.9	-99.63	-401.6	-2,366.6	2,400.4	2,392.8	7.60	315.952	
900.0	900.0	893.8	900.0	4.0	4.0	-99.63	-401.6	-2,366.6	2,400.4	2,392.6	7.80	307.929	
1,000.0	1,000.0	993.8	1,000.0	4.1	4.1	-99.63	-401.6	-2,366.6	2,400.4	2,392.4	7.99	300.480	
1,100.0	1,100.0	1,093.8	1,100.0	4.2	4.3	-99.63	-401.6	-2,366.6	2,400.4	2,392.2	8.27	290.316	
1,200.0	1,200.0	1,193.8	1,200.0	4.4	4.5	-99.63	-401.6	-2,366.6	2,400.4	2,391.9	8.53	281.253	
1,300.0	1,300.0	1,293.8	1,300.0	4.5	4.6	-99.63	-401.6	-2,366.6	2,400.4	2,391.6	8.79	272.985	
1,400.0	1,400.0	1,393.8	1,400.0	4.6	4.8	-99.63	-401.6	-2,366.6	2,400.4	2,391.4	9.05	265.377	
1,500.0	1,500.0	1,493.8	1,500.0	4.7	5.0	-99.63	-401.6	-2,366.6	2,400.4	2,391.1	9.29	258.344	
1,600.0	1,600.0	1,593.8	1,600.0	4.8	5.1	13.38	-401.6	-2,366.6	2,399.2	2,389.6	9.57	250.596	
1,700.0	1,699.9	1,693.7	1,699.9	5.0	5.3	13.42	-401.6	-2,366.6	2,395.3	2,385.4	9.94	240.923	
1,800.0	1,799.7	1,793.5	1,799.7	5.2	5.4	13.47	-401.6	-2,366.6	2,389.0	2,378.7	10.32	231.405	
1,900.0	1,899.3	1,893.1	1,899.3	5.4	5.5	13.56	-401.6	-2,366.6	2,380.1	2,369.4	10.72	221.993	
2,000.0	1,998.6	1,992.4	1,998.6	5.6	5.7	13.66	-401.6	-2,366.6	2,368.7	2,357.5	11.14	212.689	
2,100.0	2,097.5	2,091.3	2,097.5	5.9	5.8	13.80	-401.6	-2,366.6	2,354.7	2,343.1	11.57	203.517	
2,200.0	2,196.1	2,189.9	2,196.1	6.2	6.0	13.96	-401.6	-2,366.6	2,338.2	2,326.2	12.02	194.512	
2,300.0	2,294.3	2,288.1	2,294.3	6.5	6.1	14.09	-401.6	-2,366.6	2,319.9	2,307.5	12.40	187.035	
2,400.0	2,392.4	2,386.2	2,392.4	6.8	6.2	14.21	-401.6	-2,366.6	2,301.3	2,288.5	12.86	178.999	
2,500.0	2,490.6	2,484.4	2,490.6	7.2	6.4	14.32	-401.6	-2,366.6	2,282.8	2,269.5	13.32	171.348	
2,600.0	2,588.8	2,582.6	2,588.8	7.5	6.5	14.44	-401.6	-2,366.6	2,264.3	2,250.5	13.80	164.086	
2,700.0	2,686.9	2,680.7	2,686.9	7.9	6.6	14.57	-401.6	-2,366.6	2,245.8	2,231.5	14.29	157.209	
2,800.0	2,785.1	2,778.9	2,785.1	8.3	6.7	14.69	-401.6	-2,366.6	2,227.3	2,212.6	14.78	150.706	
2,900.0	2,883.3	2,877.1	2,883.3	8.6	6.9	14.81	-401.6	-2,366.6	2,208.9	2,193.6	15.28	144.562	
3,000.0	2,981.4	2,975.2	2,981.4	9.0	7.0	14.94	-401.6	-2,366.6	2,190.4	2,174.6	15.79	138.759	
3,100.0	3,079.6	3,042.0	3,048.2	9.4	7.1	15.03	-401.6	-2,366.9	2,172.5	2,156.2	16.29	133.327	
3,200.0	3,177.7	3,100.0	3,106.2	9.8	7.1	15.11	-401.6	-2,368.3	2,156.4	2,139.6	16.81	128.286	
3,300.0	3,275.9	3,155.2	3,161.3	10.3	7.2	15.20	-401.5	-2,370.8	2,142.3	2,125.0	17.32	123.671	
3,400.0	3,374.1	3,212.2	3,218.2	10.7	7.3	15.29	-401.5	-2,374.5	2,130.1	2,112.3	17.83	119.485	
3,500.0	3,472.2	3,283.8	3,289.5	11.1	7.4	15.41	-401.4	-2,380.4	2,119.8	2,101.5	18.30	115.852	
3,600.0	3,570.4	3,383.1	3,388.5	11.5	7.5	15.59	-401.2	-2,389.1	2,110.0	2,091.1	18.85	111.924	
3,700.0	3,668.6	3,482.4	3,487.4	11.9	7.7	15.76	-401.1	-2,397.8	2,100.1	2,080.7	19.43	108.069	
3,800.0	3,766.7	3,581.7	3,586.3	12.4	7.8	15.94	-400.9	-2,406.4	2,090.3	2,070.3	20.03	104.347	
3,900.0	3,864.9	3,681.0	3,685.2	12.8	8.0	16.12	-400.8	-2,415.1	2,080.5	2,059.9	20.65	100.764	
4,000.0	3,963.0	3,780.3	3,784.2	13.2	8.3	16.30	-400.6	-2,423.7	2,070.7	2,049.5	21.28	97.321	
4,100.0	4,061.2	3,879.6	3,883.1	13.7	8.5	16.48	-400.5	-2,432.4	2,061.0	2,039.1	21.92	94.018	
4,200.0	4,159.4	3,978.9	3,982.0	14.1	8.7	16.66	-400.3	-2,441.0	2,051.2	2,028.7	22.58	90.854	
4,300.0	4,257.5	4,078.2	4,081.0	14.6	8.9	16.84	-400.2	-2,449.7	2,041.5	2,018.3	23.25	87.826	
4,400.0	4,355.7	4,177.6	4,179.9	15.0	9.2	17.03	-400.0	-2,458.3	2,031.8	2,007.9	23.92	84.931	
4,500.0	4,453.9	4,276.9	4,278.8	15.4	9.5	17.22	-399.9	-2,467.0	2,022.2	1,997.5	24.61	82.164	
4,600.0	4,552.0	4,376.2	4,377.8	15.9	9.7	17.41	-399.7	-2,475.6	2,012.5	1,987.2	25.31	79.521	
4,700.0	4,650.2	4,475.5	4,476.7	16.3	10.0	17.60	-399.6	-2,484.3	2,002.9	1,976.9	26.01	76.996	
4,800.0	4,748.3	4,574.8	4,575.6	16.8	10.3	17.80	-399.5	-2,492.9	1,993.3	1,966.5	26.72	74.586	
4,900.0	4,846.5	4,674.1	4,674.6	17.2	10.6	17.99	-399.3	-2,501.6	1,983.7	1,956.2	27.44	72.284	
5,000.0	4,944.7	4,773.4	4,773.5	17.7	10.9	18.19	-399.2	-2,510.3	1,974.1	1,946.0	28.17	70.086	
5,100.0	5,042.8	4,872.7	4,872.4	18.1	11.2	18.39	-399.0	-2,518.9	1,964.6	1,935.7	28.90	67.985	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11147-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,141.0	4,972.0	4,971.4	18.6	11.5	18.59	-398.9	-2,527.6	1,955.1	1,925.4	29.63	65.979		
5,300.0	5,239.2	5,071.3	5,070.3	19.0	11.8	18.79	-398.7	-2,536.2	1,945.6	1,915.2	30.37	64.060		
5,400.0	5,337.3	5,170.6	5,169.2	19.5	12.1	19.00	-398.6	-2,544.9	1,936.1	1,905.0	31.11	62.241		
5,500.0	5,435.5	5,311.4	5,309.5	19.9	12.5	19.29	-398.4	-2,555.8	1,925.8	1,893.9	31.94	60.302		
5,600.0	5,533.6	5,459.9	5,457.9	20.4	13.0	19.59	-398.3	-2,563.6	1,913.0	1,880.2	32.74	58.429		
5,700.0	5,631.8	5,607.4	5,605.3	20.8	13.4	19.89	-398.2	-2,567.6	1,897.6	1,864.1	33.47	56.697		
5,800.0	5,730.0	5,732.1	5,730.0	21.3	13.5	20.14	-398.2	-2,568.2	1,880.0	1,846.1	33.98	55.329		
5,900.0	5,828.1	5,830.3	5,828.1	21.7	13.6	20.35	-398.2	-2,568.2	1,862.1	1,827.6	34.46	54.032		
6,000.0	5,926.3	5,928.4	5,926.3	22.2	13.6	20.55	-398.2	-2,568.2	1,844.2	1,809.2	34.95	52.772		
6,100.0	6,024.5	6,026.6	6,024.5	22.6	13.7	20.73	-398.2	-2,568.2	1,826.5	1,791.1	35.41	51.576		
6,200.0	6,122.9	6,125.0	6,122.9	23.1	13.8	20.90	-398.2	-2,568.2	1,809.7	1,773.8	35.89	50.422		
6,300.0	6,221.4	6,223.5	6,221.4	23.5	13.8	21.07	-398.2	-2,568.2	1,793.7	1,757.3	36.36	49.326		
6,400.0	6,320.1	6,322.2	6,320.1	24.0	13.9	21.23	-398.2	-2,568.2	1,778.5	1,741.6	36.83	48.288		
6,500.0	6,418.9	6,421.0	6,418.9	24.4	14.0	21.38	-398.2	-2,568.2	1,764.1	1,726.8	37.29	47.304		
6,600.0	6,517.8	6,519.9	6,517.8	24.9	14.0	21.53	-398.2	-2,568.2	1,750.5	1,712.8	37.75	46.372		
6,700.0	6,616.9	6,619.0	6,616.9	25.3	14.1	21.67	-398.2	-2,568.2	1,737.8	1,699.6	38.20	45.490		
6,800.0	6,716.1	6,718.2	6,716.1	25.7	14.2	21.81	-398.2	-2,568.2	1,725.9	1,687.2	38.65	44.657		
6,900.0	6,815.3	6,817.5	6,815.3	26.1	14.2	21.94	-398.2	-2,568.2	1,714.8	1,675.7	39.09	43.870		
7,000.0	6,914.7	6,916.8	6,914.7	26.5	14.3	22.06	-398.2	-2,568.2	1,704.5	1,665.0	39.52	43.129		
7,100.0	7,014.2	7,016.3	7,014.2	26.9	14.3	22.17	-398.2	-2,568.2	1,695.0	1,655.1	39.95	42.431		
7,200.0	7,113.8	7,115.9	7,113.8	27.3	14.4	22.27	-398.2	-2,568.2	1,686.4	1,646.0	40.37	41.774		
7,300.0	7,213.4	7,215.5	7,213.4	27.7	14.5	22.37	-398.2	-2,568.2	1,678.6	1,637.8	40.78	41.159		
7,400.0	7,313.1	7,315.2	7,313.1	28.1	14.5	22.45	-398.2	-2,568.2	1,671.5	1,630.3	41.19	40.584		
7,500.0	7,412.9	7,415.0	7,412.9	28.4	14.6	22.53	-398.2	-2,568.2	1,665.3	1,623.7	41.58	40.048		
7,600.0	7,512.7	7,514.8	7,512.7	28.8	14.7	22.59	-398.2	-2,568.2	1,659.9	1,617.9	41.97	39.550		
7,700.0	7,612.6	7,614.7	7,612.6	29.1	14.8	22.65	-398.2	-2,568.2	1,655.3	1,612.9	42.35	39.090		
7,800.0	7,712.5	7,714.6	7,712.5	29.5	14.8	22.70	-398.2	-2,568.2	1,651.5	1,608.8	42.71	38.668		
7,900.0	7,812.4	7,814.6	7,812.4	29.8	14.9	22.74	-398.2	-2,568.2	1,648.5	1,605.4	43.06	38.284		
8,000.0	7,912.4	7,914.5	7,912.4	30.1	15.0	22.77	-398.2	-2,568.2	1,646.3	1,602.9	43.39	37.941		
8,100.0	8,012.4	8,014.5	8,012.4	30.3	15.0	22.78	-398.2	-2,568.2	1,644.9	1,601.2	43.70	37.643		
8,200.0	8,112.4	8,114.5	8,112.4	30.5	15.1	22.79	-398.2	-2,568.2	1,644.3	1,600.4	43.96	37.406		
8,293.3	8,205.7	8,207.8	8,205.7	30.6	15.2	22.79	-398.2	-2,568.2	1,644.2	1,600.2	44.05	37.331		
8,300.0	8,212.4	8,214.5	8,212.4	30.6	15.2	-90.21	-398.2	-2,568.2	1,644.3	1,600.3	44.05	37.327		
8,400.0	8,312.4	8,314.5	8,312.4	30.6	15.2	-90.21	-398.2	-2,568.2	1,644.3	1,600.2	44.14	37.253		
8,500.0	8,412.4	8,414.5	8,412.4	30.6	15.3	-90.21	-398.2	-2,568.2	1,644.3	1,600.1	44.23	37.179		
8,600.0	8,512.4	8,514.5	8,512.4	30.6	15.4	-90.21	-398.2	-2,568.2	1,644.3	1,600.0	44.32	37.105		
8,700.0	8,612.4	8,614.5	8,612.4	30.6	15.4	-90.21	-398.2	-2,568.2	1,644.3	1,599.9	44.40	37.031		
8,800.0	8,712.4	8,714.5	8,712.4	30.7	15.5	-90.21	-398.2	-2,568.2	1,644.3	1,599.8	44.49	36.957		
8,900.0	8,812.4	8,814.5	8,812.4	30.7	15.6	-90.21	-398.2	-2,568.2	1,644.3	1,599.7	44.58	36.883		
9,000.0	8,912.4	8,914.5	8,912.4	30.7	15.6	-90.21	-398.2	-2,568.2	1,644.3	1,599.6	44.67	36.809		
9,100.0	9,012.4	9,014.5	9,012.4	30.7	15.7	-90.21	-398.2	-2,568.2	1,644.3	1,599.5	44.76	36.735		
9,200.0	9,112.4	9,114.5	9,112.4	30.7	15.8	-90.21	-398.2	-2,568.2	1,644.3	1,599.5	44.85	36.661		
9,300.0	9,212.4	9,214.5	9,212.4	30.8	15.9	-90.21	-398.2	-2,568.2	1,644.3	1,599.4	44.94	36.587		
9,400.0	9,312.4	9,314.5	9,312.4	30.8	15.9	-90.21	-398.2	-2,568.2	1,644.3	1,599.3	45.03	36.513		
9,500.0	9,412.4	9,414.5	9,412.4	30.8	16.0	-90.21	-398.2	-2,568.2	1,644.3	1,599.2	45.12	36.440		
9,600.0	9,512.4	9,514.5	9,512.4	30.8	16.1	-90.21	-398.2	-2,568.2	1,644.3	1,599.1	45.22	36.366		
9,700.0	9,612.4	9,614.5	9,612.4	30.8	16.1	-90.21	-398.2	-2,568.2	1,644.3	1,599.0	45.31	36.292		
9,800.0	9,712.4	9,714.5	9,712.4	30.9	16.2	-90.21	-398.2	-2,568.2	1,644.3	1,598.9	45.40	36.218		
9,900.0	9,812.4	9,814.5	9,812.4	30.9	16.3	-90.21	-398.2	-2,568.2	1,644.3	1,598.8	45.49	36.145		
10,000.0	9,912.4	9,914.5	9,912.4	30.9	16.3	-90.21	-398.2	-2,568.2	1,644.3	1,598.7	45.59	36.071		
10,100.0	10,012.4	10,014.5	10,012.4	30.9	16.4	-90.21	-398.2	-2,568.2	1,644.3	1,598.6	45.68	35.998		
10,200.0	10,112.4	10,114.5	10,112.4	30.9	16.5	-90.21	-398.2	-2,568.2	1,644.3	1,598.5	45.77	35.924		

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11147-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	10,212.4	10,214.5	10,212.4	31.0	16.6	-90.21	-398.2	-2,568.2	1,644.3	1,598.4	45.87	35.851		
10,400.0	10,312.4	10,314.5	10,312.4	31.0	16.6	-90.21	-398.2	-2,568.2	1,644.3	1,598.3	45.96	35.777		
10,500.0	10,412.4	10,414.5	10,412.4	31.0	16.7	-90.21	-398.2	-2,568.2	1,644.3	1,598.3	46.05	35.704		
10,600.0	10,512.4	10,514.5	10,512.4	31.0	16.8	-90.21	-398.2	-2,568.2	1,644.3	1,598.2	46.15	35.631		
10,700.0	10,612.4	10,614.5	10,612.4	31.1	16.8	-90.21	-398.2	-2,568.2	1,644.3	1,598.1	46.24	35.558		
10,800.0	10,712.4	10,714.5	10,712.4	31.1	16.9	-90.21	-398.2	-2,568.2	1,644.3	1,598.0	46.34	35.485		
10,900.0	10,812.4	10,814.5	10,812.4	31.1	17.0	-90.21	-398.2	-2,568.2	1,644.3	1,597.9	46.43	35.412		
11,000.0	10,912.4	10,914.5	10,912.4	31.1	17.1	-90.21	-398.2	-2,568.2	1,644.3	1,597.8	46.53	35.339		
11,100.0	11,012.4	11,014.5	11,012.4	31.2	17.1	-90.21	-398.2	-2,568.2	1,644.3	1,597.7	46.63	35.266		
11,200.0	11,112.4	11,114.5	11,112.4	31.2	17.2	-90.21	-398.2	-2,568.2	1,644.3	1,597.6	46.72	35.197		
11,251.5	11,163.9	11,165.8	11,163.7	31.2	17.2	-89.51	-398.1	-2,568.2	1,644.3	1,597.6	46.74	35.178		
11,300.0	11,212.4	11,213.2	11,210.9	31.2	17.2	-89.39	-394.7	-2,568.2	1,644.3	1,597.6	46.74	35.179		
11,400.0	11,311.7	11,308.9	11,304.2	31.2	17.2	-88.99	-373.8	-2,568.4	1,644.4	1,597.7	46.72	35.197		
11,500.0	11,407.7	11,402.0	11,389.1	31.2	17.2	-88.53	-336.1	-2,568.7	1,644.6	1,597.9	46.71	35.211		
11,600.0	11,497.4	11,492.2	11,463.0	31.3	17.3	-88.01	-284.5	-2,569.2	1,644.9	1,598.2	46.72	35.207		
11,700.0	11,578.2	11,579.6	11,524.0	31.3	17.3	-87.46	-222.2	-2,569.8	1,645.3	1,598.5	46.78	35.174		
11,800.0	11,647.5	11,664.2	11,571.3	31.3	17.3	-86.89	-152.2	-2,570.4	1,645.9	1,599.0	46.89	35.101		
11,900.0	11,703.3	11,746.3	11,604.7	31.4	17.4	-86.33	-77.3	-2,571.1	1,646.6	1,599.6	47.07	34.984		
12,000.0	11,743.9	11,825.0	11,624.3	31.4	17.5	-85.79	-1.2	-2,571.8	1,647.5	1,600.2	47.32	34.819		
12,100.0	11,768.0	11,903.8	11,631.2	31.5	17.6	-85.27	77.2	-2,572.5	1,648.4	1,600.8	47.61	34.621		
12,200.0	11,775.0	12,002.8	11,631.2	31.6	17.8	-85.00	176.3	-2,573.4	1,648.7	1,600.8	47.88	34.435		
12,300.0	11,775.0	12,102.8	11,631.2	31.7	18.0	-85.00	276.2	-2,574.3	1,648.3	1,600.2	48.18	34.212		
12,400.0	11,775.0	12,202.8	11,631.2	31.8	18.2	-84.99	376.2	-2,575.2	1,648.0	1,599.5	48.53	33.957		
12,500.0	11,775.0	12,302.8	11,631.2	31.9	18.5	-84.99	476.2	-2,576.1	1,647.7	1,598.8	48.93	33.674		
12,600.0	11,775.0	12,402.8	11,631.2	32.1	18.8	-84.99	576.2	-2,577.0	1,647.4	1,598.0	49.37	33.365		
12,700.0	11,775.0	12,502.8	11,631.2	32.2	19.1	-84.99	676.2	-2,577.9	1,647.0	1,597.2	49.86	33.031		
12,800.0	11,775.0	12,602.8	11,631.2	32.4	19.5	-84.99	776.2	-2,578.8	1,646.7	1,596.3	50.39	32.677		
12,900.0	11,775.0	12,702.8	11,631.2	32.6	19.9	-84.99	876.2	-2,579.7	1,646.4	1,595.4	50.97	32.304		
13,000.0	11,775.0	12,802.8	11,631.2	32.8	20.3	-84.99	976.2	-2,580.6	1,646.1	1,594.5	51.58	31.915		
13,100.0	11,775.0	12,902.8	11,631.2	33.0	20.7	-84.99	1,076.2	-2,581.5	1,645.7	1,593.5	52.23	31.512		
13,200.0	11,775.0	13,002.8	11,631.2	33.3	21.1	-84.99	1,176.2	-2,582.4	1,645.4	1,592.5	52.91	31.098		
13,300.0	11,775.0	13,102.8	11,631.2	33.5	21.6	-84.99	1,276.2	-2,583.4	1,645.1	1,591.5	53.63	30.675		
13,400.0	11,775.0	13,202.8	11,631.2	33.8	22.0	-84.98	1,376.2	-2,584.3	1,644.8	1,590.4	54.38	30.245		
13,500.0	11,775.0	13,302.8	11,631.2	34.1	22.5	-84.98	1,476.2	-2,585.2	1,644.5	1,589.3	55.17	29.809		
13,600.0	11,775.0	13,402.8	11,631.2	34.4	23.0	-84.98	1,576.2	-2,586.1	1,644.1	1,588.2	55.98	29.370		
13,700.0	11,775.0	13,502.8	11,631.2	34.7	23.6	-84.98	1,676.2	-2,587.0	1,643.8	1,587.0	56.82	28.929		
13,800.0	11,775.0	13,602.8	11,631.2	35.0	24.1	-84.98	1,776.2	-2,587.9	1,643.5	1,585.8	57.69	28.487		
13,900.0	11,775.0	13,702.8	11,631.2	35.3	24.6	-84.98	1,876.2	-2,588.8	1,643.2	1,584.6	58.59	28.046		
14,000.0	11,775.0	13,802.8	11,631.2	35.6	25.2	-84.98	1,976.2	-2,589.7	1,642.8	1,583.3	59.51	27.606		
14,100.0	11,775.0	13,902.8	11,631.2	36.0	25.7	-84.98	2,076.2	-2,590.6	1,642.5	1,582.1	60.45	27.170		
14,200.0	11,775.0	14,002.8	11,631.2	36.4	26.3	-84.98	2,176.2	-2,591.5	1,642.2	1,580.8	61.42	26.736		
14,300.0	11,775.0	14,102.8	11,631.2	36.7	26.9	-84.98	2,276.2	-2,592.4	1,641.9	1,579.5	62.41	26.308		
14,400.0	11,775.0	14,202.8	11,631.2	37.1	27.5	-84.97	2,376.2	-2,593.3	1,641.5	1,578.1	63.42	25.884		
14,500.0	11,775.0	14,302.8	11,631.2	37.5	28.1	-84.97	2,476.1	-2,594.2	1,641.2	1,576.8	64.45	25.465		
14,600.0	11,775.0	14,402.8	11,631.2	37.9	28.7	-84.97	2,576.1	-2,595.2	1,640.9	1,575.4	65.50	25.053		
14,700.0	11,775.0	14,502.8	11,631.2	38.4	29.3	-84.97	2,676.1	-2,596.1	1,640.6	1,574.0	66.56	24.647		
14,800.0	11,775.0	14,602.8	11,631.2	38.8	29.9	-84.97	2,776.1	-2,597.0	1,640.2	1,572.6	67.64	24.248		
14,900.0	11,775.0	14,702.8	11,631.2	39.2	30.6	-84.97	2,876.1	-2,597.9	1,639.9	1,571.2	68.74	23.856		
15,000.0	11,775.0	14,802.8	11,631.2	39.7	31.2	-84.97	2,976.1	-2,598.8	1,639.6	1,569.7	69.86	23.471		
15,100.0	11,775.0	14,902.8	11,631.2	40.1	31.8	-84.97	3,076.1	-2,599.7	1,639.3	1,568.3	70.99	23.093		
15,200.0	11,775.0	15,002.8	11,631.2	40.6	32.5	-84.97	3,176.1	-2,600.6	1,638.9	1,566.8	72.13	22.723		
15,300.0	11,775.0	15,102.8	11,631.2	41.1	33.1	-84.97	3,276.1	-2,601.5	1,638.6	1,565.3	73.28	22.360		

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11147-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,400.0	11,775.0	15,202.8	11,631.2	41.6	33.8	-84.96	3,376.1	-2,602.4	1,638.3	1,563.8	74.45	22.004	
15,500.0	11,775.0	15,302.8	11,631.2	42.1	34.5	-84.96	3,476.1	-2,603.3	1,638.0	1,562.3	75.63	21.657	
15,600.0	11,775.0	15,402.8	11,631.2	42.6	35.1	-84.96	3,576.1	-2,604.2	1,637.7	1,560.8	76.83	21.316	
15,700.0	11,775.0	15,502.8	11,631.2	43.1	35.8	-84.96	3,676.1	-2,605.1	1,637.3	1,559.3	78.03	20.983	
15,800.0	11,775.0	15,602.8	11,631.2	43.6	36.5	-84.96	3,776.1	-2,606.0	1,637.0	1,557.8	79.25	20.657	
15,900.0	11,775.0	15,702.8	11,631.2	44.1	37.1	-84.96	3,876.1	-2,606.9	1,636.7	1,556.2	80.47	20.339	
16,000.0	11,775.0	15,802.8	11,631.2	44.7	37.8	-84.96	3,976.1	-2,607.9	1,636.4	1,554.6	81.71	20.027	
16,100.0	11,775.0	15,902.8	11,631.2	45.2	38.5	-84.96	4,076.1	-2,608.8	1,636.0	1,553.1	82.95	19.723	
16,200.0	11,775.0	16,002.8	11,631.2	45.7	39.2	-84.96	4,176.1	-2,609.7	1,635.7	1,551.5	84.20	19.426	
16,300.0	11,775.0	16,102.8	11,631.2	46.3	39.9	-84.96	4,276.1	-2,610.6	1,635.4	1,549.9	85.47	19.135	
16,400.0	11,775.0	16,202.8	11,631.2	46.9	40.6	-84.95	4,376.1	-2,611.5	1,635.1	1,548.3	86.74	18.851	
16,500.0	11,775.0	16,302.8	11,631.2	47.4	41.3	-84.95	4,476.1	-2,612.4	1,634.7	1,546.7	88.01	18.574	
16,600.0	11,775.0	16,402.8	11,631.2	48.0	42.0	-84.95	4,576.0	-2,613.3	1,634.4	1,545.1	89.30	18.303	
16,700.0	11,775.0	16,502.8	11,631.2	48.6	42.7	-84.95	4,676.0	-2,614.2	1,634.1	1,543.5	90.59	18.038	
16,800.0	11,775.0	16,602.8	11,631.2	49.1	43.4	-84.95	4,776.0	-2,615.1	1,633.8	1,541.9	91.89	17.779	
16,900.0	11,775.0	16,702.8	11,631.2	49.7	44.1	-84.95	4,876.0	-2,616.0	1,633.4	1,540.2	93.20	17.527	
17,000.0	11,775.0	16,802.8	11,631.2	50.3	44.8	-84.95	4,976.0	-2,616.9	1,633.1	1,538.6	94.51	17.280	
17,100.0	11,775.0	16,902.8	11,631.2	50.9	45.5	-84.95	5,076.0	-2,617.8	1,632.8	1,537.0	95.83	17.039	
17,200.0	11,775.0	17,002.8	11,631.2	51.5	46.2	-84.95	5,176.0	-2,618.7	1,632.5	1,535.3	97.15	16.803	
17,300.0	11,775.0	17,102.8	11,631.2	52.1	46.9	-84.95	5,276.0	-2,619.7	1,632.1	1,533.7	98.48	16.573	
17,400.0	11,775.0	17,202.8	11,631.2	52.7	47.6	-84.94	5,376.0	-2,620.6	1,631.8	1,532.0	99.82	16.348	
17,500.0	11,775.0	17,302.8	11,631.2	53.3	48.3	-84.94	5,476.0	-2,621.5	1,631.5	1,530.3	101.16	16.128	
17,600.0	11,775.0	17,402.8	11,631.2	54.0	49.0	-84.94	5,576.0	-2,622.4	1,631.2	1,528.7	102.51	15.913	
17,700.0	11,775.0	17,502.8	11,631.2	54.6	49.7	-84.94	5,676.0	-2,623.3	1,630.8	1,527.0	103.86	15.703	
17,800.0	11,775.0	17,602.8	11,631.2	55.2	50.5	-84.94	5,776.0	-2,624.2	1,630.5	1,525.3	105.21	15.497	
17,900.0	11,775.0	17,702.8	11,631.2	55.8	51.2	-84.94	5,876.0	-2,625.1	1,630.2	1,523.6	106.58	15.296	
18,000.0	11,775.0	17,802.8	11,631.2	56.5	51.9	-84.94	5,976.0	-2,626.0	1,629.9	1,521.9	107.94	15.100	
18,100.0	11,775.0	17,902.8	11,631.2	57.1	52.6	-84.94	6,076.0	-2,626.9	1,629.6	1,520.2	109.31	14.908	
18,200.0	11,775.0	18,002.8	11,631.2	57.7	53.3	-84.94	6,176.0	-2,627.8	1,629.2	1,518.5	110.68	14.720	
18,300.0	11,775.0	18,102.8	11,631.2	58.4	54.1	-84.93	6,276.0	-2,628.7	1,628.9	1,516.8	112.06	14.536	
18,400.0	11,775.0	18,202.8	11,631.2	59.0	54.8	-84.93	6,376.0	-2,629.6	1,628.6	1,515.1	113.44	14.356	
18,500.0	11,775.0	18,302.8	11,631.2	59.7	55.5	-84.93	6,476.0	-2,630.5	1,628.3	1,513.4	114.82	14.180	
18,600.0	11,775.0	18,402.8	11,631.2	60.3	56.2	-84.93	6,576.0	-2,631.5	1,627.9	1,511.7	116.21	14.008	
18,700.0	11,775.0	18,502.8	11,631.2	61.0	57.0	-84.93	6,676.0	-2,632.4	1,627.6	1,510.0	117.60	13.840	
18,800.0	11,775.0	18,602.8	11,631.2	61.6	57.7	-84.93	6,775.9	-2,633.3	1,627.3	1,508.3	119.00	13.675	
18,900.0	11,775.0	18,702.8	11,631.2	62.3	58.4	-84.93	6,875.9	-2,634.2	1,627.0	1,506.6	120.39	13.514	
19,000.0	11,775.0	18,802.8	11,631.2	63.0	59.2	-84.93	6,975.9	-2,635.1	1,626.6	1,504.8	121.80	13.355	
19,100.0	11,775.0	18,902.8	11,631.2	63.6	59.9	-84.93	7,075.9	-2,636.0	1,626.3	1,503.1	123.20	13.201	
19,200.0	11,775.0	19,002.8	11,631.2	64.3	60.6	-84.93	7,175.9	-2,636.9	1,626.0	1,501.4	124.61	13.049	
19,300.0	11,775.0	19,102.8	11,631.2	65.0	61.4	-84.92	7,275.9	-2,637.8	1,625.7	1,499.7	126.02	12.901	
19,400.0	11,775.0	19,202.8	11,631.2	65.6	62.1	-84.92	7,375.9	-2,638.7	1,625.3	1,497.9	127.43	12.755	
19,500.0	11,775.0	19,302.8	11,631.2	66.3	62.8	-84.92	7,475.9	-2,639.6	1,625.0	1,496.2	128.84	12.613	
19,600.0	11,775.0	19,402.8	11,631.2	67.0	63.6	-84.92	7,575.9	-2,640.5	1,624.7	1,494.4	130.26	12.473	
19,700.0	11,775.0	19,502.8	11,631.2	67.7	64.3	-84.92	7,675.9	-2,641.4	1,624.4	1,492.7	131.68	12.336	
19,800.0	11,775.0	19,602.8	11,631.2	68.3	65.0	-84.92	7,775.9	-2,642.3	1,624.0	1,490.9	133.10	12.202	
19,900.0	11,775.0	19,702.8	11,631.2	69.0	65.8	-84.92	7,875.9	-2,643.3	1,623.7	1,489.2	134.52	12.070	
20,000.0	11,775.0	19,802.8	11,631.2	69.7	66.5	-84.92	7,975.9	-2,644.2	1,623.4	1,487.4	135.95	11.941	
20,100.0	11,775.0	19,902.8	11,631.2	70.4	67.2	-84.92	8,075.9	-2,645.1	1,623.1	1,485.7	137.38	11.815	
20,200.0	11,775.0	20,002.8	11,631.2	71.1	68.0	-84.92	8,175.9	-2,646.0	1,622.7	1,483.9	138.81	11.690	
20,300.0	11,775.0	20,102.8	11,631.2	71.8	68.7	-84.91	8,275.9	-2,646.9	1,622.4	1,482.2	140.24	11.569	
20,400.0	11,775.0	20,202.8	11,631.2	72.5	69.5	-84.91	8,375.9	-2,647.8	1,622.1	1,480.4	141.68	11.449	
20,500.0	11,775.0	20,302.8	11,631.2	73.1	70.2	-84.91	8,475.9	-2,648.7	1,621.8	1,478.7	143.11	11.332	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11147-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	
20,600.0	11,775.0	20,402.8	11,631.2	73.8	70.9	-84.91	8,575.9	-2,649.6	1,621.5	1,476.9	144.55	11.217	
20,700.0	11,775.0	20,502.8	11,631.2	74.5	71.7	-84.91	8,675.9	-2,650.5	1,621.1	1,475.1	145.99	11.104	
20,800.0	11,775.0	20,602.8	11,631.2	75.2	72.4	-84.91	8,775.9	-2,651.4	1,620.8	1,473.4	147.43	10.994	
20,900.0	11,775.0	20,702.8	11,631.2	75.9	73.2	-84.91	8,875.8	-2,652.3	1,620.5	1,471.6	148.88	10.885	
21,000.0	11,775.0	20,802.8	11,631.2	76.6	73.9	-84.91	8,975.8	-2,653.2	1,620.2	1,469.8	150.32	10.778	
21,100.0	11,775.0	20,902.8	11,631.2	77.3	74.6	-84.91	9,075.8	-2,654.1	1,619.8	1,468.1	151.77	10.673	
21,200.0	11,775.0	21,002.8	11,631.2	78.0	75.4	-84.91	9,175.8	-2,655.0	1,619.5	1,466.3	153.22	10.570	
21,300.0	11,775.0	21,102.8	11,631.2	78.7	76.1	-84.90	9,275.8	-2,656.0	1,619.2	1,464.5	154.67	10.469	
21,400.0	11,775.0	21,202.8	11,631.2	79.4	76.9	-84.90	9,375.8	-2,656.9	1,618.9	1,462.7	156.12	10.369	
21,500.0	11,775.0	21,302.8	11,631.2	80.1	77.6	-84.90	9,475.8	-2,657.8	1,618.5	1,461.0	157.57	10.272	
21,600.0	11,775.0	21,402.8	11,631.2	80.8	78.4	-84.90	9,575.8	-2,658.7	1,618.2	1,459.2	159.02	10.176	
21,700.0	11,775.0	21,502.8	11,631.2	81.5	79.1	-84.90	9,675.8	-2,659.6	1,617.9	1,457.4	160.48	10.082	
21,800.0	11,775.0	21,602.8	11,631.2	82.2	79.9	-84.90	9,775.8	-2,660.5	1,617.6	1,455.6	161.94	9.989	
21,900.0	11,775.0	21,702.8	11,631.2	83.0	80.6	-84.90	9,875.8	-2,661.4	1,617.2	1,453.8	163.39	9.898	
22,000.0	11,775.0	21,802.8	11,631.2	83.7	81.4	-84.90	9,975.8	-2,662.3	1,616.9	1,452.1	164.85	9.808	
22,100.0	11,775.0	21,902.8	11,631.2	84.4	82.1	-84.90	10,075.8	-2,663.2	1,616.6	1,450.3	166.31	9.720	
22,158.7	11,775.0	21,956.2	11,631.2	84.8	82.5	-84.90	10,129.2	-2,663.7	1,616.4	1,449.3	167.16	9.670 CC, ES	
22,200.0	11,775.0	21,956.2	11,631.2	85.1	82.5	-84.90	10,129.2	-2,663.7	1,616.9	1,449.4	167.59	9.648	
22,300.0	11,775.0	21,956.2	11,631.2	85.8	82.5	-84.90	10,129.2	-2,663.7	1,622.6	1,454.3	168.24	9.644 SF	
22,400.0	11,775.0	21,956.2	11,631.2	86.5	82.5	-84.90	10,129.2	-2,663.7	1,634.3	1,466.0	168.33	9.709	
22,500.0	11,775.0	21,956.2	11,631.2	87.2	82.5	-84.90	10,129.2	-2,663.7	1,652.1	1,484.2	167.87	9.841	
22,600.0	11,775.0	21,956.2	11,631.2	87.9	82.5	-84.90	10,129.2	-2,663.7	1,675.6	1,508.7	166.92	10.038	
22,700.0	11,775.0	21,956.2	11,631.2	88.7	82.5	-84.90	10,129.2	-2,663.7	1,704.7	1,539.1	165.51	10.299	
22,800.0	11,775.0	21,956.2	11,631.2	89.4	82.5	-84.90	10,129.2	-2,663.7	1,739.0	1,575.3	163.72	10.622	
22,900.0	11,775.0	21,956.2	11,631.2	90.1	82.5	-84.90	10,129.2	-2,663.7	1,778.3	1,616.7	161.61	11.004	
23,000.0	11,775.0	21,956.2	11,631.2	90.8	82.5	-84.90	10,129.2	-2,663.7	1,822.3	1,663.0	159.25	11.443	
23,100.0	11,775.0	21,956.2	11,631.2	91.5	82.5	-84.90	10,129.2	-2,663.7	1,870.5	1,713.8	156.69	11.938	
23,200.0	11,775.0	21,956.2	11,631.2	92.2	82.5	-84.90	10,129.2	-2,663.7	1,922.8	1,768.8	154.00	12.486	
23,300.0	11,775.0	21,956.2	11,631.2	93.0	82.5	-84.90	10,129.2	-2,663.7	1,978.7	1,827.5	151.22	13.085	
23,400.0	11,775.0	21,956.2	11,631.2	93.7	82.5	-84.90	10,129.2	-2,663.7	2,038.1	1,889.7	148.40	13.734	
23,500.0	11,775.0	21,956.2	11,631.2	94.4	82.5	-84.90	10,129.2	-2,663.7	2,100.5	1,954.9	145.58	14.429	
23,600.0	11,775.0	21,956.2	11,631.2	95.1	82.5	-84.90	10,129.2	-2,663.7	2,165.7	2,022.9	142.78	15.168	
23,700.0	11,775.0	21,956.2	11,631.2	95.9	82.5	-84.90	10,129.2	-2,663.7	2,233.5	2,093.5	140.03	15.950	
23,800.0	11,775.0	21,956.2	11,631.2	96.6	82.5	-84.90	10,129.2	-2,663.7	2,303.6	2,166.3	137.34	16.773	
23,900.0	11,775.0	21,956.2	11,631.2	97.3	82.5	-84.90	10,129.2	-2,663.7	2,375.9	2,241.2	134.74	17.634	
24,000.0	11,775.0	21,956.2	11,631.2	98.0	82.5	-84.90	10,129.2	-2,663.7	2,450.2	2,317.9	132.22	18.531	
24,100.0	11,775.0	21,956.2	11,631.2	98.8	82.5	-84.90	10,129.2	-2,663.7	2,526.2	2,396.4	129.80	19.462	
24,200.0	11,775.0	21,956.2	11,631.2	99.5	82.5	-84.90	10,129.2	-2,663.7	2,603.8	2,476.3	127.47	20.426	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10977-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	
0.0	0.0	0.0	7.2	3.0	3.0	-99.74	-401.3	-2,336.6	2,370.9				
100.0	100.0	92.8	100.0	3.0	3.0	-99.74	-401.3	-2,336.6	2,370.9	2,364.8	6.04	392.248	
200.0	200.0	192.8	200.0	3.2	3.1	-99.74	-401.3	-2,336.6	2,370.9	2,364.6	6.28	377.508	
300.0	300.0	292.8	300.0	3.3	3.3	-99.74	-401.3	-2,336.6	2,370.9	2,364.3	6.52	363.665	
400.0	400.0	392.8	400.0	3.4	3.4	-99.74	-401.3	-2,336.6	2,370.9	2,364.1	6.75	351.321	
500.0	500.0	492.8	500.0	3.5	3.5	-99.74	-401.3	-2,336.6	2,370.9	2,363.9	6.97	340.157	
600.0	600.0	592.8	600.0	3.6	3.6	-99.74	-401.3	-2,336.6	2,370.9	2,363.7	7.18	329.988	
700.0	700.0	692.8	700.0	3.8	3.8	-99.74	-401.3	-2,336.6	2,370.9	2,363.5	7.39	320.673	
800.0	800.0	792.8	800.0	3.9	3.9	-99.74	-401.3	-2,336.6	2,370.9	2,363.3	7.60	312.097	
900.0	900.0	892.8	900.0	4.0	4.0	-99.74	-401.3	-2,336.6	2,370.9	2,363.1	7.79	304.168	
1,000.0	1,000.0	992.8	1,000.0	4.1	4.1	-99.74	-401.3	-2,336.6	2,370.9	2,362.9	7.99	296.808	
1,100.0	1,100.0	1,092.8	1,100.0	4.2	4.2	-99.74	-401.3	-2,336.6	2,370.9	2,362.7	8.18	289.951	
1,200.0	1,200.0	1,192.8	1,200.0	4.4	4.4	-99.74	-401.3	-2,336.6	2,370.9	2,362.5	8.36	283.543	
1,300.0	1,300.0	1,292.8	1,300.0	4.5	4.5	-99.74	-401.3	-2,336.6	2,370.9	2,362.3	8.54	277.537	
1,400.0	1,400.0	1,392.8	1,400.0	4.6	4.6	-99.74	-401.3	-2,336.6	2,370.9	2,362.1	8.72	271.891	
1,500.0	1,500.0	1,492.8	1,500.0	4.7	4.8	-99.74	-401.3	-2,336.6	2,370.9	2,361.9	8.98	264.117	
1,600.0	1,600.0	1,592.8	1,600.0	4.8	4.9	13.27	-401.3	-2,336.6	2,369.6	2,360.3	9.26	255.772	
1,700.0	1,699.9	1,692.7	1,699.9	5.0	5.1	13.30	-401.3	-2,336.6	2,365.8	2,356.1	9.64	245.482	
1,800.0	1,799.7	1,792.5	1,799.7	5.2	5.2	13.36	-401.3	-2,336.6	2,359.4	2,349.4	10.02	235.411	
1,900.0	1,899.3	1,892.1	1,899.3	5.4	5.4	13.44	-401.3	-2,336.6	2,350.5	2,340.1	10.42	225.500	
2,000.0	1,998.6	1,991.4	1,998.6	5.6	5.5	13.55	-401.3	-2,336.6	2,339.1	2,328.2	10.84	215.743	
2,100.0	2,097.5	2,291.2	2,298.0	5.9	5.9	13.82	-400.8	-2,322.2	2,319.4	2,307.7	11.67	198.696	
2,200.0	2,196.1	2,388.0	2,394.4	6.2	6.0	13.99	-400.5	-2,313.7	2,294.5	2,282.3	12.16	188.709	
2,300.0	2,294.3	2,484.3	2,490.3	6.5	6.2	14.11	-400.2	-2,305.3	2,267.7	2,255.1	12.60	179.952	
2,400.0	2,392.4	2,580.5	2,586.2	6.8	6.5	14.20	-399.9	-2,297.0	2,240.7	2,227.6	13.13	170.663	
2,500.0	2,490.6	2,676.8	2,682.0	7.2	6.7	14.30	-399.6	-2,288.6	2,213.8	2,200.1	13.69	161.761	
2,600.0	2,588.8	2,773.0	2,777.9	7.5	6.9	14.39	-399.3	-2,280.2	2,186.8	2,172.5	14.27	153.287	
2,700.0	2,686.9	2,869.3	2,873.8	7.9	7.2	14.49	-399.0	-2,271.8	2,159.9	2,145.0	14.87	145.260	
2,800.0	2,785.1	2,965.5	2,969.7	8.3	7.4	14.59	-398.7	-2,263.4	2,132.9	2,117.4	15.49	137.686	
2,900.0	2,883.3	3,061.7	3,065.5	8.6	7.7	14.69	-398.4	-2,255.1	2,106.0	2,089.9	16.13	130.559	
3,000.0	2,981.4	3,158.0	3,161.4	9.0	8.0	14.80	-398.1	-2,246.7	2,079.1	2,062.3	16.79	123.863	
3,100.0	3,079.6	3,254.2	3,257.3	9.4	8.3	14.90	-397.8	-2,238.3	2,052.2	2,034.7	17.45	117.579	
3,200.0	3,177.7	3,350.4	3,353.1	9.8	8.6	15.02	-397.5	-2,229.9	2,025.3	2,007.1	18.13	111.686	
3,300.0	3,275.9	3,446.7	3,449.0	10.3	8.9	15.13	-397.2	-2,221.5	1,998.4	1,979.5	18.82	106.158	
3,400.0	3,374.1	3,542.9	3,544.9	10.7	9.2	15.25	-396.9	-2,213.1	1,971.5	1,951.9	19.52	100.974	
3,500.0	3,472.2	3,639.1	3,640.7	11.1	9.5	15.37	-396.6	-2,204.8	1,944.6	1,924.4	20.23	96.146	
3,600.0	3,570.4	3,727.6	3,728.9	11.5	9.7	15.48	-396.4	-2,197.1	1,917.8	1,896.9	20.90	91.746	
3,700.0	3,668.6	3,810.3	3,811.4	11.9	10.0	15.59	-396.1	-2,190.6	1,891.7	1,870.1	21.59	87.602	
3,800.0	3,766.7	3,900.0	3,900.8	12.4	10.3	15.72	-395.9	-2,184.1	1,866.3	1,844.0	22.30	83.689	
3,900.0	3,864.9	3,976.8	3,977.4	12.8	10.5	15.83	-395.7	-2,179.2	1,841.5	1,818.6	22.98	80.140	
4,000.0	3,963.0	4,060.5	4,060.9	13.2	10.8	15.96	-395.6	-2,174.3	1,817.5	1,793.9	23.67	76.785	
4,100.0	4,061.2	4,144.4	4,144.8	13.7	11.1	16.09	-395.4	-2,170.1	1,794.2	1,769.9	24.36	73.655	
4,200.0	4,159.4	4,228.7	4,229.0	14.1	11.3	16.22	-395.3	-2,166.5	1,771.7	1,746.6	25.05	70.737	
4,300.0	4,257.5	4,313.2	4,313.4	14.6	11.6	16.37	-395.2	-2,163.4	1,749.9	1,724.1	25.73	68.017	
4,400.0	4,355.7	4,400.0	4,400.2	15.0	11.8	16.52	-395.1	-2,161.0	1,728.7	1,702.3	26.40	65.474	
4,500.0	4,453.9	4,483.1	4,483.2	15.4	12.0	16.67	-395.0	-2,159.3	1,708.4	1,681.3	27.06	63.132	
4,600.0	4,552.0	4,568.4	4,568.5	15.9	12.2	16.82	-395.0	-2,158.1	1,688.8	1,661.1	27.70	60.959	
4,700.0	4,650.2	4,653.9	4,654.1	16.3	12.4	16.99	-395.0	-2,157.6	1,669.9	1,641.6	28.28	59.041	
4,800.0	4,748.3	4,748.2	4,748.3	16.8	12.4	17.17	-395.0	-2,157.6	1,651.6	1,622.8	28.78	57.389	
4,900.0	4,846.5	4,846.3	4,846.5	17.2	12.5	17.37	-395.0	-2,157.6	1,633.3	1,604.1	29.27	55.811	
5,000.0	4,944.7	4,944.5	4,944.7	17.7	12.6	17.57	-395.0	-2,157.6	1,615.1	1,585.3	29.75	54.285	
5,100.0	5,042.8	5,042.7	5,042.8	18.1	12.6	17.78	-395.0	-2,157.6	1,596.9	1,566.6	30.24	52.809	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10977-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
5,200.0	5,141.0	5,140.8	5,141.0	18.6	12.7	17.99	-395.0	-2,157.6	1,578.7	1,548.0	30.73	51.381	
5,300.0	5,239.2	5,239.0	5,239.2	19.0	12.8	18.21	-395.0	-2,157.6	1,560.5	1,529.3	31.21	49.999	
5,400.0	5,337.3	5,337.2	5,337.3	19.5	12.8	18.43	-395.0	-2,157.6	1,542.4	1,510.7	31.70	48.660	
5,500.0	5,435.5	5,435.3	5,435.5	19.9	12.9	18.65	-395.0	-2,157.6	1,524.2	1,492.1	32.18	47.364	
5,600.0	5,533.6	5,533.5	5,533.6	20.4	12.9	18.88	-395.0	-2,157.6	1,506.1	1,473.5	32.67	46.108	
5,700.0	5,631.8	5,631.6	5,631.8	20.8	13.0	19.12	-395.0	-2,157.6	1,488.1	1,454.9	33.15	44.890	
5,800.0	5,730.0	5,729.8	5,730.0	21.3	13.1	19.36	-395.0	-2,157.6	1,470.0	1,436.4	33.63	43.709	
5,900.0	5,828.1	5,828.0	5,828.1	21.7	13.1	19.61	-395.0	-2,157.6	1,452.0	1,417.9	34.11	42.564	
6,000.0	5,926.3	5,926.1	5,926.3	22.2	13.2	19.87	-395.0	-2,157.6	1,434.0	1,399.4	34.59	41.453	
6,100.0	6,024.5	6,024.3	6,024.5	22.6	13.3	20.10	-395.0	-2,157.6	1,416.3	1,381.2	35.06	40.398	
6,200.0	6,122.9	6,122.7	6,122.9	23.1	13.3	20.33	-395.0	-2,157.6	1,399.4	1,363.8	35.53	39.384	
6,300.0	6,221.4	6,221.2	6,221.4	23.5	13.4	20.54	-395.0	-2,157.6	1,383.3	1,347.3	36.00	38.425	
6,400.0	6,320.1	6,319.9	6,320.1	24.0	13.5	20.76	-395.0	-2,157.6	1,368.0	1,331.6	36.46	37.519	
6,500.0	6,418.9	6,418.7	6,418.9	24.4	13.5	20.96	-395.0	-2,157.6	1,353.6	1,316.7	36.92	36.663	
6,600.0	6,517.8	6,517.6	6,517.8	24.9	13.6	21.16	-395.0	-2,157.6	1,340.0	1,302.7	37.37	35.856	
6,700.0	6,616.9	6,616.7	6,616.9	25.3	13.7	21.35	-395.0	-2,157.6	1,327.3	1,289.5	37.82	35.094	
6,800.0	6,716.1	6,715.9	6,716.1	25.7	13.7	21.53	-395.0	-2,157.6	1,315.3	1,277.1	38.26	34.378	
6,900.0	6,815.3	6,815.2	6,815.3	26.1	13.8	21.70	-395.0	-2,157.6	1,304.2	1,265.5	38.70	33.704	
7,000.0	6,914.7	6,914.5	6,914.7	26.5	13.9	21.86	-395.0	-2,157.6	1,293.9	1,254.8	39.13	33.071	
7,100.0	7,014.2	7,014.0	7,014.2	26.9	13.9	22.01	-395.0	-2,157.6	1,284.5	1,244.9	39.55	32.478	
7,200.0	7,113.8	7,113.6	7,113.8	27.3	14.0	22.15	-395.0	-2,157.6	1,275.8	1,235.8	39.96	31.924	
7,300.0	7,213.4	7,213.2	7,213.4	27.7	14.1	22.28	-395.0	-2,157.6	1,267.9	1,227.6	40.37	31.406	
7,400.0	7,313.1	7,312.9	7,313.1	28.1	14.1	22.40	-395.0	-2,157.6	1,260.9	1,220.1	40.77	30.925	
7,500.0	7,412.9	7,412.7	7,412.9	28.4	14.2	22.51	-395.0	-2,157.6	1,254.7	1,213.5	41.16	30.479	
7,600.0	7,512.7	7,512.5	7,512.7	28.8	14.3	22.60	-395.0	-2,157.6	1,249.3	1,207.7	41.55	30.068	
7,700.0	7,612.6	7,612.4	7,612.6	29.1	14.3	22.68	-395.0	-2,157.6	1,244.7	1,202.7	41.92	29.691	
7,800.0	7,712.5	7,712.3	7,712.5	29.5	14.4	22.74	-395.0	-2,157.6	1,240.9	1,198.6	42.28	29.347	
7,900.0	7,812.4	7,812.3	7,812.4	29.8	14.5	22.80	-395.0	-2,157.6	1,237.9	1,195.2	42.63	29.038	
8,000.0	7,912.4	7,912.2	7,912.4	30.1	14.5	22.83	-395.0	-2,157.6	1,235.7	1,192.7	42.96	28.764	
8,100.0	8,012.4	8,012.2	8,012.4	30.3	14.6	22.86	-395.0	-2,157.6	1,234.3	1,191.0	43.27	28.528	
8,200.0	8,112.4	8,112.2	8,112.4	30.5	14.7	22.87	-395.0	-2,157.6	1,233.7	1,190.2	43.53	28.344	
8,293.3	8,205.7	8,205.5	8,205.7	30.6	14.7	22.87	-395.0	-2,157.6	1,233.6	1,190.0	43.61	28.286 CC	
8,300.0	8,212.4	8,212.2	8,212.4	30.6	14.7	-90.13	-395.0	-2,157.6	1,233.7	1,190.1	43.62	28.283	
8,400.0	8,312.4	8,312.2	8,312.4	30.6	14.8	-90.13	-395.0	-2,157.6	1,233.7	1,190.0	43.71	28.226	
8,500.0	8,412.4	8,412.2	8,412.4	30.6	14.9	-90.13	-395.0	-2,157.6	1,233.7	1,189.9	43.80	28.169	
8,600.0	8,512.4	8,512.2	8,512.4	30.6	15.0	-90.13	-395.0	-2,157.6	1,233.7	1,189.8	43.88	28.112	
8,700.0	8,612.4	8,612.2	8,612.4	30.6	15.0	-90.13	-395.0	-2,157.6	1,233.7	1,189.7	43.97	28.056	
8,800.0	8,712.4	8,712.2	8,712.4	30.7	15.1	-90.13	-395.0	-2,157.6	1,233.7	1,189.6	44.06	27.999	
8,900.0	8,812.4	8,812.2	8,812.4	30.7	15.2	-90.13	-395.0	-2,157.6	1,233.7	1,189.5	44.15	27.942	
9,000.0	8,912.4	8,912.2	8,912.4	30.7	15.2	-90.13	-395.0	-2,157.6	1,233.7	1,189.5	44.24	27.885	
9,100.0	9,012.4	9,012.2	9,012.4	30.7	15.3	-90.13	-395.0	-2,157.6	1,233.7	1,189.4	44.33	27.828	
9,200.0	9,112.4	9,112.2	9,112.4	30.7	15.4	-90.13	-395.0	-2,157.6	1,233.7	1,189.3	44.42	27.772	
9,300.0	9,212.4	9,212.2	9,212.4	30.8	15.4	-90.13	-395.0	-2,157.6	1,233.7	1,189.2	44.51	27.715	
9,400.0	9,312.4	9,312.2	9,312.4	30.8	15.5	-90.13	-395.0	-2,157.6	1,233.7	1,189.1	44.61	27.658	
9,500.0	9,412.4	9,412.2	9,412.4	30.8	15.6	-90.13	-395.0	-2,157.6	1,233.7	1,189.0	44.70	27.601	
9,600.0	9,512.4	9,512.2	9,512.4	30.8	15.6	-90.13	-395.0	-2,157.6	1,233.7	1,188.9	44.79	27.545	
9,700.0	9,612.4	9,612.2	9,612.4	30.8	15.7	-90.13	-395.0	-2,157.6	1,233.7	1,188.8	44.88	27.488	
9,800.0	9,712.4	9,712.2	9,712.4	30.9	15.8	-90.13	-395.0	-2,157.6	1,233.7	1,188.7	44.97	27.432	
9,900.0	9,812.4	9,812.2	9,812.4	30.9	15.9	-90.13	-395.0	-2,157.6	1,233.7	1,188.6	45.07	27.375	
10,000.0	9,912.4	9,912.2	9,912.4	30.9	15.9	-90.13	-395.0	-2,157.6	1,233.7	1,188.5	45.16	27.319	
10,100.0	10,012.4	10,012.2	10,012.4	30.9	16.0	-90.13	-395.0	-2,157.6	1,233.7	1,188.4	45.25	27.262	
10,200.0	10,112.4	10,112.2	10,112.4	30.9	16.1	-90.13	-395.0	-2,157.6	1,233.7	1,188.3	45.35	27.206	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10977-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,212.4	10,212.2	10,212.4	31.0	16.1	-90.13	-395.0	-2,157.6	1,233.7	1,188.3	45.44	27.150	
10,400.0	10,312.4	10,312.2	10,312.4	31.0	16.2	-90.13	-395.0	-2,157.6	1,233.7	1,188.2	45.54	27.093	
10,500.0	10,412.4	10,412.2	10,412.4	31.0	16.3	-90.13	-395.0	-2,157.6	1,233.7	1,188.1	45.63	27.037	
10,600.0	10,512.4	10,512.2	10,512.4	31.0	16.4	-90.13	-395.0	-2,157.6	1,233.7	1,188.0	45.72	26.981	
10,700.0	10,612.4	10,612.2	10,612.4	31.1	16.4	-90.13	-395.0	-2,157.6	1,233.7	1,187.9	45.82	26.925	
10,800.0	10,712.4	10,712.2	10,712.4	31.1	16.5	-90.13	-395.0	-2,157.6	1,233.7	1,187.8	45.92	26.869	
10,900.0	10,812.4	10,812.2	10,812.4	31.1	16.6	-90.13	-395.0	-2,157.6	1,233.7	1,187.7	46.01	26.813	
11,000.0	10,912.4	10,912.2	10,912.4	31.1	16.6	-90.13	-395.0	-2,157.6	1,233.7	1,187.6	46.10	26.758	
11,004.1	10,916.5	10,916.3	10,916.5	31.1	16.6	-90.13	-395.0	-2,157.6	1,233.7	1,187.6	46.11	26.757	
11,100.0	11,012.4	11,011.7	11,011.9	31.2	16.7	-90.09	-394.2	-2,157.6	1,233.7	1,187.5	46.16	26.726	
11,200.0	11,112.4	11,107.2	11,106.0	31.2	16.7	-89.39	-379.1	-2,157.7	1,233.9	1,187.8	46.10	26.764	
11,300.0	11,212.4	11,193.6	11,187.1	31.2	16.7	-87.30	-349.5	-2,158.0	1,235.1	1,189.1	45.97	26.865	
11,400.0	11,311.7	11,272.0	11,254.9	31.2	16.7	-85.57	-310.5	-2,158.3	1,237.7	1,191.8	45.87	26.985	
11,500.0	11,407.7	11,345.6	11,312.0	31.2	16.7	-83.87	-264.2	-2,158.7	1,241.4	1,195.5	45.85	27.074	
11,600.0	11,497.4	11,415.5	11,359.1	31.3	16.8	-82.24	-212.6	-2,159.2	1,245.9	1,199.9	45.95	27.116	
11,700.0	11,578.2	11,482.5	11,396.7	31.3	16.8	-80.71	-157.2	-2,159.7	1,250.9	1,204.8	46.15	27.103	
11,800.0	11,647.5	11,550.0	11,426.3	31.3	16.9	-79.27	-96.6	-2,160.3	1,256.2	1,209.7	46.44	27.049	
11,900.0	11,703.3	11,610.1	11,445.3	31.4	16.9	-78.06	-39.6	-2,160.8	1,261.3	1,214.4	46.86	26.917	
12,000.0	11,743.9	11,675.0	11,457.6	31.4	17.0	-76.97	24.1	-2,161.4	1,265.9	1,218.6	47.28	26.772	
12,100.0	11,768.0	11,733.5	11,461.2	31.5	17.1	-76.14	82.5	-2,161.9	1,269.7	1,221.9	47.77	26.579	
12,200.0	11,775.0	11,831.1	11,461.2	31.6	17.3	-75.71	180.0	-2,162.8	1,271.1	1,223.1	48.06	26.450	
12,300.0	11,775.0	11,931.1	11,461.2	31.7	17.5	-75.70	280.0	-2,163.7	1,270.8	1,222.4	48.36	26.276	
12,400.0	11,775.0	12,031.1	11,461.2	31.8	17.7	-75.70	380.0	-2,164.6	1,270.5	1,221.8	48.72	26.079	
12,500.0	11,775.0	12,131.1	11,461.2	31.9	18.0	-75.70	480.0	-2,165.5	1,270.2	1,221.0	49.12	25.859	
12,600.0	11,775.0	12,231.1	11,461.2	32.1	18.3	-75.69	580.0	-2,166.4	1,269.8	1,220.3	49.57	25.620	
12,700.0	11,775.0	12,331.1	11,461.2	32.2	18.7	-75.69	680.0	-2,167.3	1,269.5	1,219.5	50.06	25.362	
12,800.0	11,775.0	12,431.1	11,461.2	32.4	19.0	-75.69	780.0	-2,168.2	1,269.2	1,218.6	50.59	25.088	
12,900.0	11,775.0	12,531.1	11,461.2	32.6	19.4	-75.68	879.9	-2,169.1	1,268.9	1,217.7	51.16	24.800	
13,000.0	11,775.0	12,631.1	11,461.2	32.8	19.8	-75.68	979.9	-2,170.0	1,268.6	1,216.8	51.78	24.500	
13,100.0	11,775.0	12,731.0	11,461.2	33.0	20.2	-75.68	1,079.9	-2,170.9	1,268.3	1,215.8	52.43	24.190	
13,200.0	11,775.0	12,831.0	11,461.2	33.3	20.7	-75.67	1,179.9	-2,171.8	1,268.0	1,214.8	53.12	23.871	
13,300.0	11,775.0	12,931.0	11,461.2	33.5	21.2	-75.67	1,279.9	-2,172.8	1,267.6	1,213.8	53.84	23.545	
13,400.0	11,775.0	13,031.0	11,461.2	33.8	21.6	-75.66	1,379.9	-2,173.7	1,267.3	1,212.7	54.59	23.213	
13,500.0	11,775.0	13,131.0	11,461.2	34.1	22.1	-75.66	1,479.9	-2,174.6	1,267.0	1,211.6	55.38	22.878	
13,600.0	11,775.0	13,231.0	11,461.2	34.4	22.6	-75.66	1,579.9	-2,175.5	1,266.7	1,210.5	56.20	22.540	
13,700.0	11,775.0	13,331.0	11,461.2	34.7	23.2	-75.65	1,679.9	-2,176.4	1,266.4	1,209.3	57.04	22.201	
13,800.0	11,775.0	13,431.0	11,461.2	35.0	23.7	-75.65	1,779.9	-2,177.3	1,266.1	1,208.2	57.91	21.861	
13,900.0	11,775.0	13,531.0	11,461.2	35.3	24.3	-75.65	1,879.9	-2,178.2	1,265.8	1,206.9	58.81	21.522	
14,000.0	11,775.0	13,631.0	11,461.2	35.6	24.8	-75.64	1,979.9	-2,179.1	1,265.4	1,205.7	59.74	21.184	
14,100.0	11,775.0	13,731.0	11,461.2	36.0	25.4	-75.64	2,079.9	-2,180.0	1,265.1	1,204.4	60.68	20.848	
14,200.0	11,775.0	13,831.0	11,461.2	36.4	26.0	-75.63	2,179.9	-2,180.9	1,264.8	1,203.2	61.65	20.515	
14,300.0	11,775.0	13,931.0	11,461.2	36.7	26.6	-75.63	2,279.9	-2,181.8	1,264.5	1,201.9	62.64	20.186	
14,400.0	11,775.0	14,031.0	11,461.2	37.1	27.2	-75.63	2,379.9	-2,182.7	1,264.2	1,200.5	63.65	19.860	
14,500.0	11,775.0	14,131.0	11,461.2	37.5	27.8	-75.62	2,479.9	-2,183.6	1,263.9	1,199.2	64.68	19.539	
14,600.0	11,775.0	14,231.0	11,461.2	37.9	28.4	-75.62	2,579.9	-2,184.6	1,263.5	1,197.8	65.73	19.223	
14,700.0	11,775.0	14,331.0	11,461.2	38.4	29.0	-75.62	2,679.9	-2,185.5	1,263.2	1,196.4	66.80	18.911	
14,800.0	11,775.0	14,431.0	11,461.2	38.8	29.6	-75.61	2,779.9	-2,186.4	1,262.9	1,195.0	67.88	18.604	
14,900.0	11,775.0	14,531.0	11,461.2	39.2	30.3	-75.61	2,879.9	-2,187.3	1,262.6	1,193.6	68.98	18.303	
15,000.0	11,775.0	14,631.0	11,461.2	39.7	30.9	-75.61	2,979.9	-2,188.2	1,262.3	1,192.2	70.10	18.008	
15,100.0	11,775.0	14,731.0	11,461.2	40.1	31.6	-75.60	3,079.8	-2,189.1	1,262.0	1,190.7	71.23	17.717	
15,200.0	11,775.0	14,831.0	11,461.2	40.6	32.2	-75.60	3,179.8	-2,190.0	1,261.7	1,189.3	72.37	17.433	
15,300.0	11,775.0	14,931.0	11,461.2	41.1	32.9	-75.59	3,279.8	-2,190.9	1,261.3	1,187.8	73.53	17.154	

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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10977-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	
15,400.0	11,775.0	15,031.0	11,461.2	41.6	33.5	-75.59	3,379.8	-2,191.8	1,261.0	1,186.3	74.70	16.882	
15,500.0	11,775.0	15,131.0	11,461.2	42.1	34.2	-75.59	3,479.8	-2,192.7	1,260.7	1,184.8	75.88	16.614	
15,600.0	11,775.0	15,231.0	11,461.2	42.6	34.9	-75.58	3,579.8	-2,193.6	1,260.4	1,183.3	77.07	16.353	
15,700.0	11,775.0	15,331.0	11,461.2	43.1	35.5	-75.58	3,679.8	-2,194.5	1,260.1	1,181.8	78.28	16.097	
15,800.0	11,775.0	15,431.0	11,461.2	43.6	36.2	-75.58	3,779.8	-2,195.4	1,259.8	1,180.3	79.50	15.847	
15,900.0	11,775.0	15,531.0	11,461.2	44.1	36.9	-75.57	3,879.8	-2,196.4	1,259.5	1,178.7	80.72	15.602	
16,000.0	11,775.0	15,631.0	11,461.2	44.7	37.6	-75.57	3,979.8	-2,197.3	1,259.1	1,177.2	81.96	15.363	
16,100.0	11,775.0	15,731.0	11,461.2	45.2	38.3	-75.56	4,079.8	-2,198.2	1,258.8	1,175.6	83.20	15.130	
16,200.0	11,775.0	15,831.0	11,461.2	45.7	39.0	-75.56	4,179.8	-2,199.1	1,258.5	1,174.1	84.46	14.901	
16,300.0	11,775.0	15,931.0	11,461.2	46.3	39.6	-75.56	4,279.8	-2,200.0	1,258.2	1,172.5	85.72	14.678	
16,400.0	11,775.0	16,031.0	11,461.2	46.9	40.3	-75.55	4,379.8	-2,200.9	1,257.9	1,170.9	86.99	14.460	
16,500.0	11,775.0	16,131.0	11,461.2	47.4	41.0	-75.55	4,479.8	-2,201.8	1,257.6	1,169.3	88.27	14.247	
16,600.0	11,775.0	16,231.0	11,461.2	48.0	41.7	-75.55	4,579.8	-2,202.7	1,257.3	1,167.7	89.55	14.039	
16,700.0	11,775.0	16,331.0	11,461.2	48.6	42.4	-75.54	4,679.8	-2,203.6	1,256.9	1,166.1	90.85	13.836	
16,800.0	11,775.0	16,431.0	11,461.2	49.1	43.1	-75.54	4,779.8	-2,204.5	1,256.6	1,164.5	92.15	13.637	
16,900.0	11,775.0	16,531.0	11,461.2	49.7	43.8	-75.54	4,879.8	-2,205.4	1,256.3	1,162.9	93.46	13.443	
17,000.0	11,775.0	16,631.0	11,461.2	50.3	44.6	-75.53	4,979.8	-2,206.3	1,256.0	1,161.2	94.77	13.253	
17,100.0	11,775.0	16,731.0	11,461.2	50.9	45.3	-75.53	5,079.8	-2,207.2	1,255.7	1,159.6	96.09	13.068	
17,200.0	11,775.0	16,831.0	11,461.2	51.5	46.0	-75.52	5,179.7	-2,208.2	1,255.4	1,157.9	97.41	12.887	
17,300.0	11,775.0	16,931.0	11,461.2	52.1	46.7	-75.52	5,279.7	-2,209.1	1,255.0	1,156.3	98.75	12.710	
17,400.0	11,775.0	17,031.0	11,461.2	52.7	47.4	-75.52	5,379.7	-2,210.0	1,254.7	1,154.7	100.08	12.537	
17,500.0	11,775.0	17,131.0	11,461.2	53.3	48.1	-75.51	5,479.7	-2,210.9	1,254.4	1,153.0	101.42	12.368	
17,600.0	11,775.0	17,231.0	11,461.2	54.0	48.8	-75.51	5,579.7	-2,211.8	1,254.1	1,151.3	102.77	12.203	
17,700.0	11,775.0	17,331.0	11,461.2	54.6	49.6	-75.51	5,679.7	-2,212.7	1,253.8	1,149.7	104.12	12.041	
17,800.0	11,775.0	17,431.0	11,461.2	55.2	50.3	-75.50	5,779.7	-2,213.6	1,253.5	1,148.0	105.48	11.883	
17,900.0	11,775.0	17,531.0	11,461.2	55.8	51.0	-75.50	5,879.7	-2,214.5	1,253.2	1,146.3	106.84	11.729	
18,000.0	11,775.0	17,631.0	11,461.2	56.5	51.7	-75.49	5,979.7	-2,215.4	1,252.8	1,144.6	108.21	11.578	
18,100.0	11,775.0	17,731.0	11,461.2	57.1	52.4	-75.49	6,079.7	-2,216.3	1,252.5	1,143.0	109.58	11.431	
18,200.0	11,775.0	17,831.0	11,461.2	57.7	53.2	-75.49	6,179.7	-2,217.2	1,252.2	1,141.3	110.95	11.286	
18,300.0	11,775.0	17,931.0	11,461.2	58.4	53.9	-75.48	6,279.7	-2,218.1	1,251.9	1,139.6	112.33	11.145	
18,400.0	11,775.0	18,031.0	11,461.2	59.0	54.6	-75.48	6,379.7	-2,219.0	1,251.6	1,137.9	113.71	11.007	
18,500.0	11,775.0	18,131.0	11,461.2	59.7	55.3	-75.48	6,479.7	-2,219.9	1,251.3	1,136.2	115.10	10.872	
18,600.0	11,775.0	18,231.0	11,461.2	60.3	56.1	-75.47	6,579.7	-2,220.9	1,251.0	1,134.5	116.48	10.739	
18,700.0	11,775.0	18,331.0	11,461.2	61.0	56.8	-75.47	6,679.7	-2,221.8	1,250.6	1,132.8	117.88	10.610	
18,800.0	11,775.0	18,431.0	11,461.2	61.6	57.5	-75.46	6,779.7	-2,222.7	1,250.3	1,131.1	119.27	10.483	
18,900.0	11,775.0	18,531.0	11,461.2	62.3	58.3	-75.46	6,879.7	-2,223.6	1,250.0	1,129.3	120.67	10.359	
19,000.0	11,775.0	18,631.0	11,461.2	63.0	59.0	-75.46	6,979.7	-2,224.5	1,249.7	1,127.6	122.07	10.237	
19,100.0	11,775.0	18,731.0	11,461.2	63.6	59.7	-75.45	7,079.7	-2,225.4	1,249.4	1,125.9	123.48	10.118	
19,200.0	11,775.0	18,831.0	11,461.2	64.3	60.5	-75.45	7,179.7	-2,226.3	1,249.1	1,124.2	124.88	10.002	
19,300.0	11,775.0	18,931.0	11,461.2	65.0	61.2	-75.45	7,279.7	-2,227.2	1,248.8	1,122.5	126.30	9.888	
19,400.0	11,775.0	19,031.0	11,461.2	65.6	61.9	-75.44	7,379.6	-2,228.1	1,248.4	1,120.7	127.71	9.776	
19,500.0	11,775.0	19,131.0	11,461.2	66.3	62.7	-75.44	7,479.6	-2,229.0	1,248.1	1,119.0	129.12	9.666	
19,600.0	11,775.0	19,231.0	11,461.2	67.0	63.4	-75.43	7,579.6	-2,229.9	1,247.8	1,117.3	130.54	9.559	
19,700.0	11,775.0	19,331.0	11,461.2	67.7	64.1	-75.43	7,679.6	-2,230.8	1,247.5	1,115.5	131.96	9.453	
19,800.0	11,775.0	19,431.0	11,461.2	68.3	64.9	-75.43	7,779.6	-2,231.7	1,247.2	1,113.8	133.39	9.350	
19,900.0	11,775.0	19,531.0	11,461.2	69.0	65.6	-75.42	7,879.6	-2,232.7	1,246.9	1,112.1	134.81	9.249	
20,000.0	11,775.0	19,631.0	11,461.2	69.7	66.4	-75.42	7,979.6	-2,233.6	1,246.5	1,110.3	136.24	9.150	
20,100.0	11,775.0	19,731.0	11,461.2	70.4	67.1	-75.42	8,079.6	-2,234.5	1,246.2	1,108.6	137.67	9.052	
20,200.0	11,775.0	19,831.0	11,461.2	71.1	67.8	-75.41	8,179.6	-2,235.4	1,245.9	1,106.8	139.10	8.957	
20,300.0	11,775.0	19,931.0	11,461.2	71.8	68.6	-75.41	8,279.6	-2,236.3	1,245.6	1,105.1	140.53	8.863	
20,400.0	11,775.0	20,031.0	11,461.2	72.5	69.3	-75.40	8,379.6	-2,237.2	1,245.3	1,103.3	141.97	8.772	
20,500.0	11,775.0	20,131.0	11,461.2	73.1	70.1	-75.40	8,479.6	-2,238.1	1,245.0	1,101.6	143.41	8.681	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_WL_NS-CT, 1500-r.5 MWD+IFR1+MS, 10977-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
20,600.0	11,775.0	20,231.0	11,461.2	73.8	70.8	-75.40	8,579.6	-2,239.0	1,244.7	1,099.8	144.85	8.593	
20,700.0	11,775.0	20,331.0	11,461.2	74.5	71.5	-75.39	8,679.6	-2,239.9	1,244.3	1,098.1	146.29	8.506	
20,800.0	11,775.0	20,431.0	11,461.2	75.2	72.3	-75.39	8,779.6	-2,240.8	1,244.0	1,096.3	147.73	8.421	
20,900.0	11,775.0	20,531.0	11,461.2	75.9	73.0	-75.38	8,879.6	-2,241.7	1,243.7	1,094.5	149.18	8.337	
21,000.0	11,775.0	20,631.0	11,461.2	76.6	73.8	-75.38	8,979.6	-2,242.6	1,243.4	1,092.8	150.62	8.255	
21,100.0	11,775.0	20,731.0	11,461.2	77.3	74.5	-75.38	9,079.6	-2,243.5	1,243.1	1,091.0	152.07	8.174	
21,200.0	11,775.0	20,831.0	11,461.2	78.0	75.3	-75.37	9,179.6	-2,244.5	1,242.8	1,089.3	153.52	8.095	
21,300.0	11,775.0	20,931.0	11,461.2	78.7	76.0	-75.37	9,279.6	-2,245.4	1,242.5	1,087.5	154.97	8.017	
21,400.0	11,775.0	21,031.0	11,461.2	79.4	76.8	-75.37	9,379.6	-2,246.3	1,242.1	1,085.7	156.42	7.941	
21,500.0	11,775.0	21,131.0	11,461.2	80.1	77.5	-75.36	9,479.5	-2,247.2	1,241.8	1,084.0	157.88	7.866	
21,600.0	11,775.0	21,231.0	11,461.2	80.8	78.2	-75.36	9,579.5	-2,248.1	1,241.5	1,082.2	159.33	7.792	
21,700.0	11,775.0	21,331.0	11,461.2	81.5	79.0	-75.35	9,679.5	-2,249.0	1,241.2	1,080.4	160.79	7.719	
21,800.0	11,775.0	21,431.0	11,461.2	82.2	79.7	-75.35	9,779.5	-2,249.9	1,240.9	1,078.6	162.25	7.648	
21,900.0	11,775.0	21,531.0	11,461.2	83.0	80.5	-75.35	9,879.5	-2,250.8	1,240.6	1,076.9	163.71	7.578	
22,000.0	11,775.0	21,631.0	11,461.2	83.7	81.2	-75.34	9,979.5	-2,251.7	1,240.3	1,075.1	165.17	7.509	
22,097.8	11,775.0	21,724.9	11,461.2	84.4	81.9	-75.34	10,073.4	-2,252.6	1,240.0	1,073.4	166.59	7.443	
22,100.0	11,775.0	21,724.9	11,461.2	84.4	81.9	-75.34	10,073.4	-2,252.6	1,240.0	1,073.3	166.62	7.442 ES	
22,200.0	11,775.0	21,724.9	11,461.2	85.1	81.9	-75.34	10,073.4	-2,252.6	1,244.2	1,076.8	167.39	7.433 SF	
22,300.0	11,775.0	21,724.9	11,461.2	85.8	81.9	-75.34	10,073.4	-2,252.6	1,256.3	1,089.1	167.22	7.513	
22,400.0	11,775.0	21,724.9	11,461.2	86.5	81.9	-75.34	10,073.4	-2,252.6	1,276.3	1,110.1	166.14	7.682	
22,500.0	11,775.0	21,724.9	11,461.2	87.2	81.9	-75.34	10,073.4	-2,252.6	1,303.6	1,139.3	164.28	7.935	
22,600.0	11,775.0	21,724.9	11,461.2	87.9	81.9	-75.34	10,073.4	-2,252.6	1,337.8	1,176.0	161.76	8.270	
22,700.0	11,775.0	21,724.9	11,461.2	88.7	81.9	-75.34	10,073.4	-2,252.6	1,378.5	1,219.7	158.72	8.685	
22,800.0	11,775.0	21,724.9	11,461.2	89.4	81.9	-75.34	10,073.4	-2,252.6	1,425.0	1,269.7	155.32	9.175	
22,900.0	11,775.0	21,724.9	11,461.2	90.1	81.9	-75.34	10,073.4	-2,252.6	1,476.8	1,325.2	151.67	9.737	
23,000.0	11,775.0	21,724.9	11,461.2	90.8	81.9	-75.34	10,073.4	-2,252.6	1,533.5	1,385.6	147.90	10.368	
23,100.0	11,775.0	21,724.9	11,461.2	91.5	81.9	-75.34	10,073.4	-2,252.6	1,594.3	1,450.3	144.10	11.064	
23,200.0	11,775.0	21,724.9	11,461.2	92.2	81.9	-75.34	10,073.4	-2,252.6	1,659.0	1,518.7	140.33	11.822	
23,300.0	11,775.0	21,724.9	11,461.2	93.0	81.9	-75.34	10,073.4	-2,252.6	1,727.1	1,590.4	136.65	12.638	
23,400.0	11,775.0	21,724.9	11,461.2	93.7	81.9	-75.34	10,073.4	-2,252.6	1,798.1	1,665.0	133.10	13.509	
23,500.0	11,775.0	21,724.9	11,461.2	94.4	81.9	-75.34	10,073.4	-2,252.6	1,871.8	1,742.1	129.71	14.431	
23,600.0	11,775.0	21,724.9	11,461.2	95.1	81.9	-75.34	10,073.4	-2,252.6	1,947.9	1,821.4	126.48	15.401	
23,700.0	11,775.0	21,724.9	11,461.2	95.9	81.9	-75.34	10,073.4	-2,252.6	2,026.0	1,902.6	123.42	16.415	
23,800.0	11,775.0	21,724.9	11,461.2	96.6	81.9	-75.34	10,073.4	-2,252.6	2,106.0	1,985.4	120.54	17.470	
23,900.0	11,775.0	21,724.9	11,461.2	97.3	81.9	-75.34	10,073.4	-2,252.6	2,187.6	2,069.7	117.84	18.564	
24,000.0	11,775.0	21,724.9	11,461.2	98.0	81.9	-75.34	10,073.4	-2,252.6	2,270.7	2,155.4	115.30	19.693	
24,100.0	11,775.0	21,724.9	11,461.2	98.8	81.9	-75.34	10,073.4	-2,252.6	2,355.1	2,242.2	112.93	20.854	
24,200.0	11,775.0	21,724.9	11,461.2	99.5	81.9	-75.34	10,073.4	-2,252.6	2,440.7	2,330.0	110.71	22.045	
24,300.0	11,775.0	21,724.9	11,461.2	100.2	81.9	-75.34	10,073.4	-2,252.6	2,527.3	2,418.7	108.64	23.264	
24,400.0	11,775.0	21,724.9	11,461.2	100.9	81.9	-75.34	10,073.4	-2,252.6	2,614.9	2,508.2	106.70	24.507	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_1500-r.5 MWD+IFR1_11195-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
0.0	0.0	0.0	7.2	3.0	3.0	-99.87	-401.1	-2,306.2	2,340.8				
100.0	100.0	92.8	100.0	3.0	3.0	-99.87	-401.1	-2,306.2	2,340.8	2,334.8	6.04	387.659	
200.0	200.0	192.8	200.0	3.2	3.1	-99.87	-401.1	-2,306.2	2,340.8	2,334.6	6.23	375.893	
300.0	300.0	292.8	300.0	3.3	3.2	-99.87	-401.1	-2,306.2	2,340.8	2,334.4	6.43	364.075	
400.0	400.0	392.8	400.0	3.4	3.3	-99.87	-401.1	-2,306.2	2,340.8	2,334.2	6.64	352.624	
500.0	500.0	492.8	500.0	3.5	3.4	-99.87	-401.1	-2,306.2	2,340.8	2,333.9	6.85	341.533	
600.0	600.0	592.8	600.0	3.6	3.5	-99.87	-401.1	-2,306.2	2,340.8	2,333.7	7.08	330.828	
700.0	700.0	692.8	700.0	3.8	3.7	-99.87	-401.1	-2,306.2	2,340.8	2,333.5	7.30	320.525	
800.0	800.0	792.8	800.0	3.9	3.8	-99.87	-401.1	-2,306.2	2,340.8	2,333.3	7.54	310.638	
900.0	900.0	892.8	900.0	4.0	4.0	-99.87	-401.1	-2,306.2	2,340.8	2,333.0	7.77	301.170	
1,000.0	1,000.0	992.8	1,000.0	4.1	4.1	-99.87	-401.1	-2,306.2	2,340.8	2,332.8	8.01	292.119	
1,100.0	1,100.0	1,092.8	1,100.0	4.2	4.3	-99.87	-401.1	-2,306.2	2,340.8	2,332.5	8.26	283.477	
1,200.0	1,200.0	1,192.8	1,200.0	4.4	4.5	-99.87	-401.1	-2,306.2	2,340.8	2,332.3	8.50	275.236	
1,300.0	1,300.0	1,292.8	1,300.0	4.5	4.7	-99.87	-401.1	-2,306.2	2,340.8	2,332.0	8.75	267.380	
1,400.0	1,400.0	1,392.8	1,400.0	4.6	4.9	-99.87	-401.1	-2,306.2	2,340.8	2,331.8	9.01	259.895	
1,500.0	1,500.0	1,492.8	1,500.0	4.7	5.1	-99.87	-401.1	-2,306.2	2,340.8	2,331.5	9.26	252.764	
1,600.0	1,600.0	1,592.8	1,600.0	4.8	5.3	13.15	-401.1	-2,306.2	2,339.5	2,329.9	9.60	243.747	
1,700.0	1,699.9	1,692.7	1,699.9	5.0	5.4	13.18	-401.1	-2,306.2	2,335.7	2,325.7	9.96	234.405	
1,800.0	1,799.7	1,792.5	1,799.7	5.2	5.6	13.24	-401.1	-2,306.2	2,329.3	2,319.0	10.34	225.295	
1,900.0	1,899.3	1,892.1	1,899.3	5.4	5.7	13.32	-401.1	-2,306.2	2,320.4	2,309.7	10.73	216.250	
2,000.0	1,998.6	1,991.4	1,998.6	5.6	5.8	13.43	-401.1	-2,306.2	2,309.0	2,297.9	11.14	207.278	
2,100.0	2,097.5	2,367.0	2,373.1	5.9	6.5	13.73	-400.7	-2,282.3	2,288.1	2,275.9	12.23	187.025	
2,200.0	2,196.1	2,501.8	2,506.8	6.2	6.8	13.91	-400.4	-2,264.1	2,258.5	2,245.6	12.82	176.195	
2,300.0	2,294.3	2,596.6	2,600.6	6.5	7.0	14.01	-400.3	-2,250.9	2,226.7	2,213.4	13.28	167.734	
2,400.0	2,392.4	2,691.4	2,694.5	6.8	7.2	14.08	-400.1	-2,237.8	2,194.8	2,181.0	13.82	158.858	
2,500.0	2,490.6	2,786.1	2,788.3	7.2	7.4	14.15	-399.9	-2,224.6	2,162.9	2,148.5	14.39	150.340	
2,600.0	2,588.8	2,880.9	2,882.1	7.5	7.7	14.22	-399.7	-2,211.4	2,131.0	2,116.1	14.98	142.223	
2,700.0	2,686.9	2,975.6	2,975.9	7.9	8.0	14.29	-399.5	-2,198.2	2,099.2	2,083.6	15.60	134.528	
2,800.0	2,785.1	3,070.4	3,069.8	8.3	8.3	14.37	-399.3	-2,185.0	2,067.3	2,051.0	16.24	127.259	
2,900.0	2,883.3	3,165.1	3,163.6	8.6	8.6	14.44	-399.1	-2,171.8	2,035.4	2,018.5	16.90	120.412	
3,000.0	2,981.4	3,259.9	3,257.4	9.0	8.9	14.52	-398.9	-2,158.7	2,003.5	1,986.0	17.58	113.973	
3,100.0	3,079.6	3,354.6	3,351.2	9.4	9.2	14.61	-398.7	-2,145.5	1,971.7	1,953.4	18.27	107.926	
3,200.0	3,177.7	3,449.4	3,445.1	9.8	9.5	14.69	-398.5	-2,132.3	1,939.8	1,920.8	18.97	102.250	
3,300.0	3,275.9	3,544.1	3,538.9	10.3	9.8	14.78	-398.3	-2,119.1	1,908.0	1,888.3	19.69	96.922	
3,400.0	3,374.1	3,638.9	3,632.7	10.7	10.2	14.87	-398.1	-2,105.9	1,876.1	1,855.7	20.41	91.922	
3,500.0	3,472.2	3,733.6	3,726.5	11.1	10.5	14.96	-397.9	-2,092.7	1,844.3	1,823.1	21.14	87.226	
3,600.0	3,570.4	3,828.4	3,820.4	11.5	10.8	15.06	-397.7	-2,079.5	1,812.4	1,790.5	21.89	82.814	
3,700.0	3,668.6	3,923.1	3,914.2	11.9	11.2	15.16	-397.5	-2,066.4	1,780.6	1,757.9	22.63	78.666	
3,800.0	3,766.7	4,017.9	4,008.0	12.4	11.5	15.27	-397.4	-2,053.2	1,748.7	1,725.3	23.39	74.763	
3,900.0	3,864.9	4,112.6	4,101.8	12.8	11.9	15.37	-397.2	-2,040.0	1,716.9	1,692.7	24.15	71.086	
4,000.0	3,963.0	4,207.4	4,195.7	13.2	12.3	15.49	-397.0	-2,026.8	1,685.1	1,660.2	24.92	67.620	
4,100.0	4,061.2	4,302.1	4,289.5	13.7	12.6	15.60	-396.8	-2,013.6	1,653.3	1,627.6	25.69	64.349	
4,200.0	4,159.4	4,396.9	4,383.3	14.1	13.0	15.72	-396.6	-2,000.4	1,621.4	1,595.0	26.47	61.258	
4,300.0	4,257.5	4,491.6	4,477.1	14.6	13.3	15.85	-396.4	-1,987.2	1,589.6	1,562.4	27.25	58.335	
4,400.0	4,355.7	4,586.3	4,571.0	15.0	13.7	15.98	-396.2	-1,974.1	1,557.8	1,529.8	28.03	55.569	
4,500.0	4,453.9	4,681.1	4,664.8	15.4	14.1	16.12	-396.0	-1,960.9	1,526.0	1,497.2	28.82	52.947	
4,600.0	4,552.0	4,775.8	4,758.6	15.9	14.5	16.26	-395.8	-1,947.7	1,494.3	1,464.7	29.61	50.460	
4,700.0	4,650.2	4,870.6	4,852.5	16.3	14.8	16.41	-395.6	-1,934.5	1,462.5	1,432.1	30.41	48.099	
4,800.0	4,748.3	4,965.3	4,946.3	16.8	15.2	16.56	-395.4	-1,921.3	1,430.7	1,399.5	31.20	45.854	
4,900.0	4,846.5	5,060.1	5,040.1	17.2	15.6	16.73	-395.2	-1,908.1	1,399.0	1,367.0	32.00	43.719	
5,000.0	4,944.7	5,154.8	5,133.9	17.7	16.0	16.89	-395.0	-1,895.0	1,367.2	1,334.4	32.80	41.685	
5,100.0	5,042.8	5,249.6	5,227.8	18.1	16.4	17.07	-394.8	-1,881.8	1,335.5	1,301.9	33.60	39.747	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_1500-r.5 MWD+IFR1_11195-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
5,200.0	5,141.0	5,344.3	5,321.6	18.6	16.7	17.26	-394.6	-1,868.6	1,303.8	1,269.4	34.40	37.898	
5,300.0	5,239.2	5,437.3	5,413.6	19.0	17.1	17.45	-394.5	-1,855.7	1,272.1	1,236.9	35.19	36.144	
5,400.0	5,337.3	5,522.8	5,498.4	19.5	17.5	17.64	-394.3	-1,844.2	1,240.9	1,204.9	35.99	34.480	
5,500.0	5,435.5	5,608.8	5,583.7	19.9	17.8	17.84	-394.1	-1,833.3	1,210.4	1,173.6	36.79	32.903	
5,600.0	5,533.6	5,695.2	5,669.4	20.4	18.1	18.05	-394.0	-1,823.0	1,180.6	1,143.1	37.58	31.416	
5,700.0	5,631.8	5,781.9	5,755.7	20.8	18.5	18.28	-393.8	-1,813.3	1,151.6	1,113.3	38.37	30.012	
5,800.0	5,730.0	5,869.1	5,842.4	21.3	18.8	18.52	-393.7	-1,804.3	1,123.4	1,084.2	39.16	28.687	
5,900.0	5,828.1	5,956.7	5,929.5	21.7	19.2	18.77	-393.6	-1,795.8	1,095.8	1,055.9	39.94	27.437	
6,000.0	5,926.3	6,044.6	6,017.1	22.2	19.5	19.04	-393.5	-1,788.0	1,069.1	1,028.4	40.72	26.258	
6,100.0	6,024.5	6,132.9	6,105.1	22.6	19.8	19.29	-393.4	-1,780.8	1,043.3	1,001.9	41.47	25.159	
6,200.0	6,122.9	6,221.8	6,193.8	23.1	20.1	19.53	-393.3	-1,774.3	1,019.2	976.9	42.23	24.136	
6,300.0	6,221.4	6,311.2	6,283.0	23.5	20.5	19.78	-393.2	-1,768.4	996.5	953.6	42.97	23.191	
6,400.0	6,320.1	6,400.0	6,371.6	24.0	20.8	20.02	-393.1	-1,763.3	975.5	931.8	43.70	22.322	
6,500.0	6,418.9	6,491.5	6,463.0	24.4	21.1	20.27	-393.0	-1,758.7	956.1	911.7	44.42	21.525	
6,600.0	6,517.8	6,582.3	6,553.7	24.9	21.4	20.51	-393.0	-1,754.8	938.3	893.2	45.12	20.797	
6,700.0	6,616.9	6,673.4	6,644.8	25.3	21.6	20.75	-392.9	-1,751.7	922.1	876.3	45.79	20.135	
6,800.0	6,716.1	6,765.0	6,736.3	25.7	21.9	20.98	-392.9	-1,749.3	907.5	861.0	46.45	19.537	
6,900.0	6,815.3	6,856.8	6,828.1	26.1	22.1	21.21	-392.9	-1,747.6	894.5	847.4	47.08	19.001	
7,000.0	6,914.7	6,948.9	6,920.2	26.5	22.4	21.43	-392.9	-1,746.7	883.1	835.5	47.66	18.530	
7,100.0	7,014.2	7,042.9	7,014.2	26.9	22.5	21.64	-392.9	-1,746.5	873.4	825.3	48.15	18.140	
7,200.0	7,113.8	7,142.4	7,113.8	27.3	22.5	21.85	-392.9	-1,746.5	864.7	816.2	48.52	17.822	
7,300.0	7,213.4	7,242.1	7,213.4	27.7	22.5	22.05	-392.9	-1,746.5	856.9	808.0	48.89	17.527	
7,400.0	7,313.1	7,341.8	7,313.1	28.1	22.6	22.23	-392.9	-1,746.5	849.8	800.6	49.25	17.255	
7,500.0	7,412.9	7,441.6	7,412.9	28.4	22.6	22.39	-392.9	-1,746.5	843.6	794.0	49.60	17.007	
7,600.0	7,512.7	7,541.4	7,512.7	28.8	22.7	22.53	-392.9	-1,746.5	838.2	788.2	49.95	16.781	
7,700.0	7,612.6	7,641.3	7,612.6	29.1	22.7	22.65	-392.9	-1,746.5	833.6	783.3	50.28	16.578	
7,800.0	7,712.5	7,741.2	7,712.5	29.5	22.7	22.76	-392.9	-1,746.5	829.8	779.1	50.60	16.397	
7,900.0	7,812.4	7,841.1	7,812.4	29.8	22.8	22.84	-392.9	-1,746.5	826.8	775.8	50.91	16.238	
8,000.0	7,912.4	7,941.1	7,912.4	30.1	22.8	22.90	-392.9	-1,746.5	824.6	773.4	51.21	16.102	
8,100.0	8,012.4	8,041.1	8,012.4	30.3	22.8	22.93	-392.9	-1,746.5	823.2	771.7	51.48	15.990	
8,200.0	8,112.4	8,141.1	8,112.4	30.5	22.9	22.95	-392.9	-1,746.5	822.6	770.9	51.71	15.908	
8,293.3	8,205.7	8,234.4	8,205.7	30.6	22.9	22.95	-392.9	-1,746.5	822.5	770.8	51.77	15.889	
8,300.0	8,212.4	8,241.1	8,212.4	30.6	22.9	-90.05	-392.9	-1,746.5	822.6	770.8	51.77	15.889	
8,400.0	8,312.4	8,341.1	8,312.4	30.6	22.9	-90.05	-392.9	-1,746.5	822.6	770.8	51.83	15.872	
8,500.0	8,412.4	8,441.1	8,412.4	30.6	23.0	-90.05	-392.9	-1,746.5	822.6	770.7	51.88	15.854	
8,600.0	8,512.4	8,541.1	8,512.4	30.6	23.0	-90.05	-392.9	-1,746.5	822.6	770.6	51.94	15.837	
8,700.0	8,612.4	8,641.1	8,612.4	30.6	23.1	-90.05	-392.9	-1,746.5	822.6	770.6	52.00	15.820	
8,800.0	8,712.4	8,741.1	8,712.4	30.7	23.1	-90.05	-392.9	-1,746.5	822.6	770.5	52.06	15.802	
8,900.0	8,812.4	8,841.1	8,812.4	30.7	23.1	-90.05	-392.9	-1,746.5	822.6	770.5	52.11	15.784	
9,000.0	8,912.4	8,941.1	8,912.4	30.7	23.2	-90.05	-392.9	-1,746.5	822.6	770.4	52.17	15.766	
9,100.0	9,012.4	9,041.1	9,012.4	30.7	23.2	-90.05	-392.9	-1,746.5	822.6	770.4	52.23	15.748	
9,200.0	9,112.4	9,141.1	9,112.4	30.7	23.2	-90.05	-392.9	-1,746.5	822.6	770.3	52.29	15.730	
9,300.0	9,212.4	9,241.1	9,212.4	30.8	23.3	-90.05	-392.9	-1,746.5	822.6	770.2	52.35	15.712	
9,400.0	9,312.4	9,341.1	9,312.4	30.8	23.3	-90.05	-392.9	-1,746.5	822.6	770.2	52.41	15.694	
9,500.0	9,412.4	9,441.1	9,412.4	30.8	23.4	-90.05	-392.9	-1,746.5	822.6	770.1	52.47	15.676	
9,600.0	9,512.4	9,541.1	9,512.4	30.8	23.4	-90.05	-392.9	-1,746.5	822.6	770.1	52.54	15.658	
9,700.0	9,612.4	9,641.1	9,612.4	30.8	23.4	-90.05	-392.9	-1,746.5	822.6	770.0	52.60	15.639	
9,800.0	9,712.4	9,741.1	9,712.4	30.9	23.5	-90.05	-392.9	-1,746.5	822.6	769.9	52.66	15.621	
9,900.0	9,812.4	9,841.1	9,812.4	30.9	23.5	-90.05	-392.9	-1,746.5	822.6	769.9	52.72	15.602	
10,000.0	9,912.4	9,941.1	9,912.4	30.9	23.6	-90.05	-392.9	-1,746.5	822.6	769.8	52.79	15.583	
10,100.0	10,012.4	10,041.1	10,012.4	30.9	23.6	-90.05	-392.9	-1,746.5	822.6	769.7	52.85	15.565	
10,200.0	10,112.4	10,141.1	10,112.4	30.9	23.7	-90.05	-392.9	-1,746.5	822.6	769.7	52.91	15.546	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_1500-r.5 MWD+IFR1_11195-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,212.4	10,241.1	10,212.4	31.0	23.7	-90.05	-392.9	-1,746.5	822.6	769.6	52.98	15.527	
10,400.0	10,312.4	10,341.1	10,312.4	31.0	23.7	-90.05	-392.9	-1,746.5	822.6	769.5	53.04	15.508	
10,500.0	10,412.4	10,441.1	10,412.4	31.0	23.8	-90.05	-392.9	-1,746.5	822.6	769.5	53.11	15.489	
10,600.0	10,512.4	10,541.1	10,512.4	31.0	23.8	-90.05	-392.9	-1,746.5	822.6	769.4	53.17	15.470	
10,700.0	10,612.4	10,641.1	10,612.4	31.1	23.9	-90.05	-392.9	-1,746.5	822.6	769.3	53.24	15.450	
10,800.0	10,712.4	10,741.1	10,712.4	31.1	23.9	-90.05	-392.9	-1,746.5	822.6	769.3	53.31	15.431	
10,900.0	10,812.4	10,841.1	10,812.4	31.1	23.9	-90.05	-392.9	-1,746.5	822.6	769.2	53.37	15.412	
11,000.0	10,912.4	10,941.1	10,912.4	31.1	24.0	-90.05	-392.9	-1,746.5	822.6	769.1	53.44	15.392	
11,100.0	11,012.4	11,041.1	11,012.4	31.2	24.0	-90.05	-392.9	-1,746.5	822.6	769.1	53.51	15.373	
11,200.0	11,112.4	11,141.1	11,112.4	31.2	24.1	-90.05	-392.9	-1,746.5	822.6	769.0	53.57	15.354	
11,247.1	11,159.5	11,188.1	11,159.4	31.2	24.1	-89.35	-392.8	-1,746.5	822.6	769.0	53.60	15.347	
11,300.0	11,212.4	11,240.0	11,211.2	31.2	24.1	-89.11	-389.4	-1,746.5	822.6	769.0	53.58	15.353	
11,400.0	11,311.7	11,336.1	11,304.8	31.2	24.1	-88.31	-368.3	-1,746.7	822.8	769.3	53.49	15.382	
11,500.0	11,407.7	11,429.5	11,390.0	31.2	24.1	-87.36	-330.3	-1,747.0	823.2	769.8	53.40	15.415	
11,600.0	11,497.4	11,520.0	11,463.9	31.3	24.1	-86.30	-278.4	-1,747.5	823.9	770.6	53.35	15.443	
11,700.0	11,578.2	11,607.6	11,524.9	31.3	24.1	-85.16	-215.7	-1,748.1	825.0	771.6	53.36	15.461	
11,800.0	11,647.5	11,692.3	11,572.1	31.3	24.2	-84.00	-145.5	-1,748.7	826.4	772.9	53.45	15.462	
11,900.0	11,703.3	11,775.0	11,605.5	31.4	24.2	-82.82	-70.0	-1,749.4	828.1	774.5	53.63	15.443	
12,000.0	11,743.9	11,854.2	11,624.8	31.4	24.3	-81.70	6.8	-1,750.1	830.1	776.2	53.91	15.400	
12,100.0	11,768.0	11,932.4	11,631.2	31.5	24.4	-80.62	84.6	-1,750.8	832.3	778.1	54.25	15.341	
12,200.0	11,775.0	12,031.5	11,631.2	31.6	24.5	-80.06	183.7	-1,751.7	833.2	778.7	54.46	15.299	
12,300.0	11,775.0	12,131.5	11,631.2	31.7	24.7	-80.06	283.7	-1,752.6	832.9	778.2	54.71	15.224	
12,400.0	11,775.0	12,231.5	11,631.2	31.8	24.8	-80.05	383.7	-1,753.5	832.5	777.5	55.00	15.138	
12,500.0	11,775.0	12,331.5	11,631.2	31.9	25.0	-80.05	483.7	-1,754.4	832.2	776.9	55.33	15.042	
12,600.0	11,775.0	12,431.5	11,631.2	32.1	25.3	-80.05	583.7	-1,755.3	831.9	776.2	55.70	14.936	
12,700.0	11,775.0	12,531.5	11,631.2	32.2	25.5	-80.04	683.7	-1,756.3	831.6	775.5	56.11	14.821	
12,800.0	11,775.0	12,631.5	11,631.2	32.4	25.8	-80.04	783.7	-1,757.2	831.3	774.7	56.56	14.698	
12,900.0	11,775.0	12,731.5	11,631.2	32.6	26.1	-80.04	883.7	-1,758.1	831.0	773.9	57.04	14.567	
13,000.0	11,775.0	12,831.5	11,631.2	32.8	26.4	-80.03	983.7	-1,759.0	830.6	773.1	57.56	14.430	
13,100.0	11,775.0	12,931.5	11,631.2	33.0	26.7	-80.03	1,083.6	-1,759.9	830.3	772.2	58.12	14.286	
13,200.0	11,775.0	13,031.5	11,631.2	33.3	27.0	-80.02	1,183.6	-1,760.8	830.0	771.3	58.71	14.136	
13,300.0	11,775.0	13,131.5	11,631.2	33.5	27.4	-80.02	1,283.6	-1,761.7	829.7	770.3	59.34	13.982	
13,400.0	11,775.0	13,231.5	11,631.2	33.8	27.8	-80.02	1,383.6	-1,762.6	829.4	769.4	60.00	13.823	
13,500.0	11,775.0	13,331.5	11,631.2	34.1	28.2	-80.01	1,483.6	-1,763.5	829.1	768.4	60.69	13.661	
13,600.0	11,775.0	13,431.5	11,631.2	34.4	28.6	-80.01	1,583.6	-1,764.4	828.7	767.3	61.41	13.496	
13,700.0	11,775.0	13,531.5	11,631.2	34.7	29.0	-80.00	1,683.6	-1,765.4	828.4	766.3	62.16	13.328	
13,800.0	11,775.0	13,631.5	11,631.2	35.0	29.4	-80.00	1,783.6	-1,766.3	828.1	765.2	62.93	13.158	
13,900.0	11,775.0	13,731.5	11,631.2	35.3	29.9	-80.00	1,883.6	-1,767.2	827.8	764.0	63.74	12.988	
14,000.0	11,775.0	13,831.5	11,631.2	35.6	30.3	-79.99	1,983.6	-1,768.1	827.5	762.9	64.57	12.816	
14,100.0	11,775.0	13,931.5	11,631.2	36.0	30.8	-79.99	2,083.6	-1,769.0	827.1	761.7	65.42	12.643	
14,200.0	11,775.0	14,031.5	11,631.2	36.4	31.3	-79.98	2,183.6	-1,769.9	826.8	760.5	66.30	12.471	
14,300.0	11,775.0	14,131.5	11,631.2	36.7	31.8	-79.98	2,283.6	-1,770.8	826.5	759.3	67.20	12.299	
14,400.0	11,775.0	14,231.5	11,631.2	37.1	32.3	-79.98	2,383.6	-1,771.7	826.2	758.1	68.13	12.127	
14,500.0	11,775.0	14,331.5	11,631.2	37.5	32.8	-79.97	2,483.6	-1,772.6	825.9	756.8	69.07	11.957	
14,600.0	11,775.0	14,431.5	11,631.2	37.9	33.3	-79.97	2,583.6	-1,773.5	825.6	755.5	70.04	11.787	
14,700.0	11,775.0	14,531.5	11,631.2	38.4	33.9	-79.97	2,683.6	-1,774.5	825.2	754.2	71.02	11.619	
14,800.0	11,775.0	14,631.5	11,631.2	38.8	34.4	-79.96	2,783.6	-1,775.4	824.9	752.9	72.03	11.453	
14,900.0	11,775.0	14,731.5	11,631.2	39.2	35.0	-79.96	2,883.6	-1,776.3	824.6	751.6	73.05	11.289	
15,000.0	11,775.0	14,831.5	11,631.2	39.7	35.5	-79.95	2,983.6	-1,777.2	824.3	750.2	74.09	11.126	
15,100.0	11,775.0	14,931.5	11,631.2	40.1	36.1	-79.95	3,083.6	-1,778.1	824.0	748.8	75.14	10.965	
15,200.0	11,775.0	15,031.5	11,631.2	40.6	36.7	-79.95	3,183.5	-1,779.0	823.7	747.4	76.22	10.807	
15,300.0	11,775.0	15,131.5	11,631.2	41.1	37.2	-79.94	3,283.5	-1,779.9	823.3	746.0	77.30	10.651	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_1500-r.5 MWD+IFR1_11195-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.0	11,775.0	15,231.5	11,631.2	41.6	37.8	-79.94	3,383.5	-1,780.8	823.0	744.6	78.40	10.497	
15,500.0	11,775.0	15,331.5	11,631.2	42.1	38.4	-79.93	3,483.5	-1,781.7	822.7	743.2	79.52	10.346	
15,600.0	11,775.0	15,431.5	11,631.2	42.6	39.0	-79.93	3,583.5	-1,782.7	822.4	741.7	80.65	10.197	
15,700.0	11,775.0	15,531.5	11,631.2	43.1	39.6	-79.93	3,683.5	-1,783.6	822.1	740.3	81.79	10.051	
15,800.0	11,775.0	15,631.5	11,631.2	43.6	40.2	-79.92	3,783.5	-1,784.5	821.8	738.8	82.94	9.907	
15,900.0	11,775.0	15,731.5	11,631.2	44.1	40.8	-79.92	3,883.5	-1,785.4	821.4	737.3	84.11	9.766	
16,000.0	11,775.0	15,831.5	11,631.2	44.7	41.5	-79.91	3,983.5	-1,786.3	821.1	735.8	85.29	9.628	
16,100.0	11,775.0	15,931.5	11,631.2	45.2	42.1	-79.91	4,083.5	-1,787.2	820.8	734.3	86.48	9.492	
16,200.0	11,775.0	16,031.5	11,631.2	45.7	42.7	-79.91	4,183.5	-1,788.1	820.5	732.8	87.68	9.358	
16,300.0	11,775.0	16,131.5	11,631.2	46.3	43.3	-79.90	4,283.5	-1,789.0	820.2	731.3	88.88	9.227	
16,400.0	11,775.0	16,231.5	11,631.2	46.9	44.0	-79.90	4,383.5	-1,789.9	819.8	729.7	90.10	9.099	
16,500.0	11,775.0	16,331.5	11,631.2	47.4	44.6	-79.89	4,483.5	-1,790.8	819.5	728.2	91.33	8.973	
16,600.0	11,775.0	16,431.5	11,631.2	48.0	45.3	-79.89	4,583.5	-1,791.8	819.2	726.6	92.57	8.850	
16,700.0	11,775.0	16,531.5	11,631.2	48.6	45.9	-79.89	4,683.5	-1,792.7	818.9	725.1	93.81	8.729	
16,800.0	11,775.0	16,631.5	11,631.2	49.1	46.6	-79.88	4,783.5	-1,793.6	818.6	723.5	95.06	8.611	
16,900.0	11,775.0	16,731.5	11,631.2	49.7	47.2	-79.88	4,883.5	-1,794.5	818.3	721.9	96.33	8.495	
17,000.0	11,775.0	16,831.5	11,631.2	50.3	47.9	-79.87	4,983.5	-1,795.4	817.9	720.3	97.59	8.381	
17,100.0	11,775.0	16,931.5	11,631.2	50.9	48.5	-79.87	5,083.5	-1,796.3	817.6	718.8	98.87	8.270	
17,200.0	11,775.0	17,031.5	11,631.2	51.5	49.2	-79.87	5,183.5	-1,797.2	817.3	717.2	100.15	8.161	
17,300.0	11,775.0	17,131.5	11,631.2	52.1	49.9	-79.86	5,283.5	-1,798.1	817.0	715.5	101.44	8.054	
17,400.0	11,775.0	17,231.5	11,631.2	52.7	50.5	-79.86	5,383.4	-1,799.0	816.7	713.9	102.74	7.949	
17,500.0	11,775.0	17,331.5	11,631.2	53.3	51.2	-79.86	5,483.4	-1,800.0	816.4	712.3	104.04	7.846	
17,600.0	11,775.0	17,431.5	11,631.2	54.0	51.9	-79.85	5,583.4	-1,800.9	816.0	710.7	105.35	7.746	
17,700.0	11,775.0	17,531.5	11,631.2	54.6	52.6	-79.85	5,683.4	-1,801.8	815.7	709.1	106.67	7.647	
17,800.0	11,775.0	17,631.5	11,631.2	55.2	53.2	-79.84	5,783.4	-1,802.7	815.4	707.4	107.99	7.551	
17,900.0	11,775.0	17,731.5	11,631.2	55.8	53.9	-79.84	5,883.4	-1,803.6	815.1	705.8	109.31	7.457	
18,000.0	11,775.0	17,831.5	11,631.2	56.5	54.6	-79.84	5,983.4	-1,804.5	814.8	704.1	110.64	7.364	
18,100.0	11,775.0	17,931.5	11,631.2	57.1	55.3	-79.83	6,083.4	-1,805.4	814.5	702.5	111.98	7.273	
18,200.0	11,775.0	18,031.5	11,631.2	57.7	56.0	-79.83	6,183.4	-1,806.3	814.1	700.8	113.32	7.185	
18,300.0	11,775.0	18,131.5	11,631.2	58.4	56.7	-79.82	6,283.4	-1,807.2	813.8	699.2	114.66	7.097	
18,400.0	11,775.0	18,231.5	11,631.2	59.0	57.4	-79.82	6,383.4	-1,808.1	813.5	697.5	116.01	7.012	
18,500.0	11,775.0	18,331.5	11,631.2	59.7	58.1	-79.82	6,483.4	-1,809.1	813.2	695.8	117.37	6.929	
18,600.0	11,775.0	18,431.5	11,631.2	60.3	58.8	-79.81	6,583.4	-1,810.0	812.9	694.1	118.72	6.847	
18,700.0	11,775.0	18,531.5	11,631.2	61.0	59.5	-79.81	6,683.4	-1,810.9	812.5	692.5	120.09	6.766	
18,800.0	11,775.0	18,631.5	11,631.2	61.6	60.2	-79.80	6,783.4	-1,811.8	812.2	690.8	121.45	6.688	
18,900.0	11,775.0	18,731.5	11,631.2	62.3	60.9	-79.80	6,883.4	-1,812.7	811.9	689.1	122.82	6.610	
19,000.0	11,775.0	18,831.5	11,631.2	63.0	61.6	-79.79	6,983.4	-1,813.6	811.6	687.4	124.20	6.535	
19,100.0	11,775.0	18,931.5	11,631.2	63.6	62.3	-79.79	7,083.4	-1,814.5	811.3	685.7	125.57	6.461	
19,200.0	11,775.0	19,031.5	11,631.2	64.3	63.0	-79.79	7,183.4	-1,815.4	811.0	684.0	126.96	6.388	
19,300.0	11,775.0	19,131.5	11,631.2	65.0	63.7	-79.78	7,283.4	-1,816.3	810.6	682.3	128.34	6.316	
19,400.0	11,775.0	19,231.5	11,631.2	65.6	64.4	-79.78	7,383.4	-1,817.2	810.3	680.6	129.73	6.246	
19,500.0	11,775.0	19,331.5	11,631.2	66.3	65.1	-79.77	7,483.3	-1,818.2	810.0	678.9	131.12	6.178	
19,600.0	11,775.0	19,431.5	11,631.2	67.0	65.8	-79.77	7,583.3	-1,819.1	809.7	677.2	132.51	6.110	
19,700.0	11,775.0	19,531.5	11,631.2	67.7	66.5	-79.77	7,683.3	-1,820.0	809.4	675.5	133.91	6.044	
19,800.0	11,775.0	19,631.5	11,631.2	68.3	67.2	-79.76	7,783.3	-1,820.9	809.1	673.8	135.31	5.979	
19,900.0	11,775.0	19,731.5	11,631.2	69.0	67.9	-79.76	7,883.3	-1,821.8	808.7	672.0	136.71	5.916	
20,000.0	11,775.0	19,831.4	11,631.2	69.7	68.6	-79.75	7,983.3	-1,822.7	808.4	670.3	138.11	5.853	
20,100.0	11,775.0	19,931.4	11,631.2	70.4	69.4	-79.75	8,083.3	-1,823.6	808.1	668.6	139.52	5.792	
20,200.0	11,775.0	20,031.4	11,631.2	71.1	70.1	-79.75	8,183.3	-1,824.5	807.8	666.9	140.93	5.732	
20,300.0	11,775.0	20,131.4	11,631.2	71.8	70.8	-79.74	8,283.3	-1,825.4	807.5	665.1	142.34	5.673	
20,400.0	11,775.0	20,231.4	11,631.2	72.5	71.5	-79.74	8,383.3	-1,826.4	807.2	663.4	143.76	5.615	
20,500.0	11,775.0	20,331.4	11,631.2	73.1	72.2	-79.73	8,483.3	-1,827.3	806.8	661.7	145.17	5.558	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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, 1500-r.5 MWD+IFR1, 11195-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
20,600.0	11,775.0	20,431.4	11,631.2	73.8	73.0	-79.73	8,583.3	-1,828.2	806.5	659.9	146.59	5.502	
20,700.0	11,775.0	20,531.4	11,631.2	74.5	73.7	-79.73	8,683.3	-1,829.1	806.2	658.2	148.01	5.447	
20,800.0	11,775.0	20,631.4	11,631.2	75.2	74.4	-79.72	8,783.3	-1,830.0	805.9	656.4	149.44	5.393	
20,900.0	11,775.0	20,731.4	11,631.2	75.9	75.1	-79.72	8,883.3	-1,830.9	805.6	654.7	150.86	5.340	
21,000.0	11,775.0	20,831.4	11,631.2	76.6	75.8	-79.71	8,983.3	-1,831.8	805.3	653.0	152.29	5.288	
21,100.0	11,775.0	20,931.4	11,631.2	77.3	76.6	-79.71	9,083.3	-1,832.7	804.9	651.2	153.72	5.236	
21,200.0	11,775.0	21,031.4	11,631.2	78.0	77.3	-79.71	9,183.3	-1,833.6	804.6	649.5	155.15	5.186	
21,300.0	11,775.0	21,131.4	11,631.2	78.7	78.0	-79.70	9,283.3	-1,834.5	804.3	647.7	156.59	5.136	
21,400.0	11,775.0	21,231.4	11,631.2	79.4	78.7	-79.70	9,383.3	-1,835.5	804.0	646.0	158.02	5.088	
21,500.0	11,775.0	21,331.4	11,631.2	80.1	79.5	-79.69	9,483.3	-1,836.4	803.7	644.2	159.46	5.040	
21,600.0	11,775.0	21,431.4	11,631.2	80.8	80.2	-79.69	9,583.3	-1,837.3	803.3	642.5	160.90	4.993	
21,700.0	11,775.0	21,531.4	11,631.2	81.5	80.9	-79.68	9,683.2	-1,838.2	803.0	640.7	162.34	4.947	
21,800.0	11,775.0	21,631.4	11,631.2	82.2	81.7	-79.68	9,783.2	-1,839.1	802.7	638.9	163.78	4.901	
21,900.0	11,775.0	21,731.4	11,631.2	83.0	82.4	-79.68	9,883.2	-1,840.0	802.4	637.2	165.22	4.857	
22,000.0	11,775.0	21,831.4	11,631.2	83.7	83.1	-79.67	9,983.2	-1,840.9	802.1	635.4	166.66	4.813	
22,100.0	11,775.0	21,931.4	11,631.2	84.4	83.8	-79.67	10,083.2	-1,841.8	801.8	633.7	168.11	4.769	
22,167.4	11,775.0	21,996.3	11,631.2	84.9	84.3	-79.67	10,148.1	-1,842.4	801.6	632.5	169.09	4.741 CC, ES	
22,200.0	11,775.0	21,996.3	11,631.2	85.1	84.3	-79.67	10,148.1	-1,842.4	802.2	632.8	169.41	4.735 SF	
22,300.0	11,775.0	21,996.3	11,631.2	85.8	84.3	-79.67	10,148.1	-1,842.4	812.4	643.6	168.87	4.811	
22,400.0	11,775.0	21,996.3	11,631.2	86.5	84.3	-79.67	10,148.1	-1,842.4	834.6	668.4	166.21	5.021	
22,500.0	11,775.0	21,996.3	11,631.2	87.2	84.3	-79.67	10,148.1	-1,842.4	867.8	705.9	161.88	5.361	
22,600.0	11,775.0	21,996.3	11,631.2	87.9	84.3	-79.67	10,148.1	-1,842.4	910.8	754.4	156.41	5.823	
22,700.0	11,775.0	21,996.3	11,631.2	88.7	84.3	-79.67	10,148.1	-1,842.4	962.3	812.0	150.33	6.402	
22,800.0	11,775.0	21,996.3	11,631.2	89.4	84.3	-79.67	10,148.1	-1,842.4	1,021.1	877.0	144.05	7.088	
22,900.0	11,775.0	21,996.3	11,631.2	90.1	84.3	-79.67	10,148.1	-1,842.4	1,085.9	948.0	137.88	7.876	
23,000.0	11,775.0	21,996.3	11,631.2	90.8	84.3	-79.67	10,148.1	-1,842.4	1,155.7	1,023.7	132.00	8.755	
23,100.0	11,775.0	21,996.3	11,631.2	91.5	84.3	-79.67	10,148.1	-1,842.4	1,229.7	1,103.2	126.52	9.720	
23,200.0	11,775.0	21,996.3	11,631.2	92.2	84.3	-79.67	10,148.1	-1,842.4	1,307.2	1,185.7	121.48	10.760	
23,300.0	11,775.0	21,996.3	11,631.2	93.0	84.3	-79.67	10,148.1	-1,842.4	1,387.5	1,270.6	116.90	11.870	
23,400.0	11,775.0	21,996.3	11,631.2	93.7	84.3	-79.67	10,148.1	-1,842.4	1,470.3	1,357.5	112.75	13.040	
23,500.0	11,775.0	21,996.3	11,631.2	94.4	84.3	-79.67	10,148.1	-1,842.4	1,555.1	1,446.1	109.01	14.266	
23,600.0	11,775.0	21,996.3	11,631.2	95.1	84.3	-79.67	10,148.1	-1,842.4	1,641.6	1,535.9	105.64	15.539	
23,700.0	11,775.0	21,996.3	11,631.2	95.9	84.3	-79.67	10,148.1	-1,842.4	1,729.5	1,626.9	102.61	16.855	
23,800.0	11,775.0	21,996.3	11,631.2	96.6	84.3	-79.67	10,148.1	-1,842.4	1,818.7	1,718.8	99.89	18.207	
23,900.0	11,775.0	21,996.3	11,631.2	97.3	84.3	-79.67	10,148.1	-1,842.4	1,909.0	1,811.5	97.45	19.590	
24,000.0	11,775.0	21,996.3	11,631.2	98.0	84.3	-79.67	10,148.1	-1,842.4	2,000.2	1,904.9	95.25	21.000	
24,100.0	11,775.0	21,996.3	11,631.2	98.8	84.3	-79.67	10,148.1	-1,842.4	2,092.2	1,998.9	93.26	22.434	
24,200.0	11,775.0	21,996.3	11,631.2	99.5	84.3	-79.67	10,148.1	-1,842.4	2,184.9	2,093.4	91.47	23.886	
24,300.0	11,775.0	21,996.3	11,631.2	100.2	84.3	-79.67	10,148.1	-1,842.4	2,278.2	2,188.4	89.86	25.354	
24,400.0	11,775.0	21,996.3	11,631.2	100.9	84.3	-79.67	10,148.1	-1,842.4	2,372.1	2,283.7	88.40	26.834	
24,500.0	11,775.0	21,996.3	11,631.2	101.7	84.3	-79.67	10,148.1	-1,842.4	2,466.4	2,379.4	87.08	28.325	
24,600.0	11,775.0	21,996.3	11,631.2	102.4	84.3	-79.67	10,148.1	-1,842.4	2,561.2	2,475.3	85.88	29.823	
24,700.0	11,775.0	21,996.3	11,631.2	103.1	84.3	-79.67	10,148.1	-1,842.4	2,656.4	2,571.6	84.79	31.327	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_11092-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	7.2	3.0	3.0	-99.99	-400.9	-2,276.2	2,311.2				
100.0	100.0	92.8	100.0	3.0	3.0	-99.99	-400.9	-2,276.2	2,311.2	2,305.2	6.04	382.761	
200.0	200.0	192.8	200.0	3.2	3.1	-99.99	-400.9	-2,276.2	2,311.2	2,305.0	6.23	371.143	
300.0	300.0	292.8	300.0	3.3	3.2	-99.99	-400.9	-2,276.2	2,311.2	2,304.8	6.43	359.475	
400.0	400.0	392.8	400.0	3.4	3.3	-99.99	-400.9	-2,276.2	2,311.2	2,304.6	6.64	348.167	
500.0	500.0	492.8	500.0	3.5	3.4	-99.99	-400.9	-2,276.2	2,311.2	2,304.4	6.85	337.216	
600.0	600.0	592.8	600.0	3.6	3.5	-99.99	-400.9	-2,276.2	2,311.2	2,304.2	7.08	326.645	
700.0	700.0	692.8	700.0	3.8	3.7	-99.99	-400.9	-2,276.2	2,311.2	2,303.9	7.30	316.472	
800.0	800.0	792.8	800.0	3.9	3.8	-99.99	-400.9	-2,276.2	2,311.2	2,303.7	7.54	306.708	
900.0	900.0	892.8	900.0	4.0	4.0	-99.99	-400.9	-2,276.2	2,311.2	2,303.5	7.77	297.359	
1,000.0	1,000.0	992.8	1,000.0	4.1	4.1	-99.99	-400.9	-2,276.2	2,311.2	2,303.2	8.01	288.421	
1,100.0	1,100.0	1,092.8	1,100.0	4.2	4.3	-99.99	-400.9	-2,276.2	2,311.2	2,303.0	8.26	279.888	
1,200.0	1,200.0	1,192.8	1,200.0	4.4	4.5	-99.99	-400.9	-2,276.2	2,311.2	2,302.7	8.51	271.750	
1,300.0	1,300.0	1,292.8	1,300.0	4.5	4.7	-99.99	-400.9	-2,276.2	2,311.2	2,302.5	8.75	263.992	
1,400.0	1,400.0	1,392.8	1,400.0	4.6	4.9	-99.99	-400.9	-2,276.2	2,311.2	2,302.2	9.01	256.601	
1,500.0	1,500.0	1,492.8	1,500.0	4.7	5.1	-99.99	-400.9	-2,276.2	2,311.2	2,302.0	9.26	249.560	
1,600.0	1,600.0	1,950.8	1,956.2	4.8	6.0	12.93	-400.5	-2,240.8	2,302.7	2,292.2	10.53	218.690	
1,700.0	1,699.9	2,126.9	2,129.3	5.0	6.5	12.91	-400.0	-2,208.9	2,280.5	2,269.4	11.14	204.787	
1,800.0	1,799.7	2,223.7	2,224.3	5.2	6.7	12.95	-399.8	-2,190.4	2,255.5	2,243.8	11.65	193.651	
1,900.0	1,899.3	2,319.8	2,318.7	5.4	7.0	13.02	-399.6	-2,172.1	2,227.9	2,215.8	12.19	182.757	
2,000.0	1,998.6	2,415.2	2,412.3	5.6	7.3	13.12	-399.3	-2,153.9	2,198.0	2,185.2	12.77	172.179	
2,100.0	2,097.5	2,509.8	2,505.2	5.9	7.6	13.24	-399.1	-2,135.8	2,165.6	2,152.2	13.37	161.981	
2,200.0	2,196.1	2,603.6	2,597.2	6.2	8.0	13.39	-398.9	-2,117.9	2,130.8	2,116.8	14.00	152.206	
2,300.0	2,294.3	2,696.6	2,688.6	6.5	8.3	13.47	-398.6	-2,100.2	2,094.2	2,079.6	14.58	143.676	
2,400.0	2,392.4	2,789.6	2,779.9	6.8	8.6	13.51	-398.4	-2,082.4	2,057.4	2,042.2	15.22	135.136	
2,500.0	2,490.6	2,882.6	2,871.1	7.2	9.0	13.55	-398.2	-2,064.7	2,020.7	2,004.8	15.90	127.120	
2,600.0	2,588.8	2,975.6	2,962.4	7.5	9.3	13.59	-397.9	-2,047.0	1,983.9	1,967.3	16.59	119.614	
2,700.0	2,686.9	3,068.6	3,053.7	7.9	9.7	13.63	-397.7	-2,029.2	1,947.2	1,929.9	17.29	112.598	
2,800.0	2,785.1	3,161.6	3,145.0	8.3	10.1	13.68	-397.5	-2,011.5	1,910.4	1,892.4	18.01	106.046	
2,900.0	2,883.3	3,254.6	3,236.3	8.6	10.5	13.72	-397.2	-1,993.7	1,873.7	1,854.9	18.75	99.930	
3,000.0	2,981.4	3,347.6	3,327.5	9.0	10.8	13.77	-397.0	-1,976.0	1,836.9	1,817.4	19.50	94.218	
3,100.0	3,079.6	3,440.5	3,418.8	9.4	11.2	13.82	-396.8	-1,958.3	1,800.1	1,779.9	20.25	88.884	
3,200.0	3,177.7	3,533.5	3,510.1	9.8	11.6	13.87	-396.5	-1,940.5	1,763.4	1,742.4	21.02	83.897	
3,300.0	3,275.9	3,626.5	3,601.4	10.3	12.0	13.93	-396.3	-1,922.8	1,726.6	1,704.9	21.79	79.231	
3,400.0	3,374.1	3,719.5	3,692.7	10.7	12.4	13.98	-396.1	-1,905.0	1,689.9	1,667.3	22.57	74.862	
3,500.0	3,472.2	3,812.5	3,784.0	11.1	12.8	14.04	-395.8	-1,887.3	1,653.1	1,629.8	23.36	70.765	
3,600.0	3,570.4	3,905.5	3,875.2	11.5	13.2	14.10	-395.6	-1,869.5	1,616.4	1,592.2	24.15	66.919	
3,700.0	3,668.6	3,998.5	3,966.5	11.9	13.6	14.17	-395.4	-1,851.8	1,579.7	1,554.7	24.95	63.304	
3,800.0	3,766.7	4,091.5	4,057.8	12.4	14.0	14.24	-395.1	-1,834.1	1,542.9	1,517.2	25.76	59.903	
3,900.0	3,864.9	4,184.5	4,149.1	12.8	14.4	14.31	-394.9	-1,816.3	1,506.2	1,479.6	26.57	56.698	
4,000.0	3,963.0	4,277.5	4,240.4	13.2	14.8	14.38	-394.7	-1,798.6	1,469.4	1,442.1	27.38	53.675	
4,100.0	4,061.2	4,370.4	4,331.6	13.7	15.2	14.46	-394.4	-1,780.8	1,432.7	1,404.5	28.19	50.819	
4,200.0	4,159.4	4,463.4	4,422.9	14.1	15.6	14.54	-394.2	-1,763.1	1,396.0	1,367.0	29.01	48.119	
4,300.0	4,257.5	4,556.4	4,514.2	14.6	16.0	14.63	-394.0	-1,745.4	1,359.2	1,329.4	29.83	45.563	
4,400.0	4,355.7	4,649.4	4,605.5	15.0	16.4	14.72	-393.7	-1,727.6	1,322.5	1,291.9	30.66	43.140	
4,500.0	4,453.9	4,742.4	4,696.8	15.4	16.8	14.82	-393.5	-1,709.9	1,285.8	1,254.3	31.48	40.841	
4,600.0	4,552.0	4,835.4	4,788.0	15.9	17.2	14.92	-393.3	-1,692.1	1,249.1	1,216.7	32.31	38.657	
4,700.0	4,650.2	4,928.4	4,879.3	16.3	17.6	15.03	-393.1	-1,674.4	1,212.3	1,179.2	33.14	36.580	
4,800.0	4,748.3	5,021.4	4,970.6	16.8	18.1	15.15	-392.8	-1,656.6	1,175.6	1,141.7	33.97	34.603	
4,900.0	4,846.5	5,114.4	5,061.9	17.2	18.5	15.27	-392.6	-1,638.9	1,138.9	1,104.1	34.81	32.720	
5,000.0	4,944.7	5,207.3	5,153.2	17.7	18.9	15.40	-392.4	-1,621.2	1,102.2	1,066.6	35.64	30.923	
5,100.0	5,042.8	5,300.3	5,244.4	18.1	19.3	15.54	-392.1	-1,603.4	1,065.5	1,029.0	36.48	29.208	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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, 11092-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,141.0	5,393.3	5,335.7	18.6	19.7	15.69	-391.9	-1,585.7	1,028.8	991.5	37.32	27.569	
5,300.0	5,239.2	5,486.3	5,427.0	19.0	20.1	15.85	-391.7	-1,567.9	992.1	954.0	38.16	26.002	
5,400.0	5,337.3	5,579.3	5,518.3	19.5	20.6	16.03	-391.4	-1,550.2	955.5	916.5	39.00	24.501	
5,500.0	5,435.5	5,672.3	5,609.6	19.9	21.0	16.21	-391.2	-1,532.5	918.8	878.9	39.84	23.064	
5,600.0	5,533.6	5,765.3	5,700.9	20.4	21.4	16.42	-391.0	-1,514.7	882.1	841.4	40.68	21.687	
5,700.0	5,631.8	5,858.3	5,792.1	20.8	21.8	16.64	-390.7	-1,497.0	845.5	804.0	41.51	20.366	
5,800.0	5,730.0	5,951.3	5,883.4	21.3	22.3	16.88	-390.5	-1,479.2	808.8	766.5	42.35	19.097	
5,900.0	5,828.1	6,044.3	5,974.7	21.7	22.7	17.14	-390.3	-1,461.5	772.2	729.0	43.19	17.878	
6,000.0	5,926.3	6,137.2	6,066.0	22.2	23.1	17.43	-390.0	-1,443.7	735.6	691.6	44.02	16.709	
6,100.0	6,024.5	6,221.5	6,148.7	22.6	23.5	17.67	-389.8	-1,428.1	699.8	654.9	44.87	15.594	
6,200.0	6,122.9	6,305.6	6,231.6	23.1	23.8	17.92	-389.6	-1,413.7	666.0	620.3	45.75	14.560	
6,300.0	6,221.4	6,390.8	6,315.7	23.5	24.2	18.19	-389.5	-1,400.4	634.5	587.9	46.60	13.615	
6,400.0	6,320.1	6,477.0	6,401.1	24.0	24.6	18.48	-389.3	-1,388.2	605.2	557.8	47.45	12.757	
6,500.0	6,418.9	6,564.2	6,487.6	24.4	24.9	18.79	-389.2	-1,377.1	578.2	530.0	48.27	11.979	
6,600.0	6,517.8	6,652.4	6,575.2	24.9	25.3	19.11	-389.0	-1,367.3	553.5	504.4	49.07	11.279	
6,700.0	6,616.9	6,741.3	6,663.8	25.3	25.6	19.46	-388.9	-1,358.7	531.1	481.3	49.85	10.654	
6,800.0	6,716.1	6,831.1	6,753.2	25.7	26.0	19.82	-388.8	-1,351.5	511.1	460.5	50.60	10.100	
6,900.0	6,815.3	6,921.5	6,843.5	26.1	26.3	20.19	-388.7	-1,345.6	493.4	442.1	51.32	9.614	
7,000.0	6,914.7	7,012.6	6,934.4	26.5	26.6	20.56	-388.7	-1,341.2	478.1	426.1	52.00	9.195	
7,100.0	7,014.2	7,104.1	7,025.9	26.9	26.9	20.93	-388.7	-1,338.1	465.3	412.6	52.64	8.839	
7,200.0	7,113.8	7,196.1	7,117.9	27.3	27.1	21.30	-388.6	-1,336.5	454.9	401.6	53.22	8.547	
7,300.0	7,213.4	7,291.6	7,213.4	27.7	27.2	21.66	-388.6	-1,336.3	446.7	393.1	53.60	8.334	
7,400.0	7,313.1	7,391.3	7,313.1	28.1	27.2	22.01	-388.6	-1,336.3	439.6	385.7	53.93	8.152	
7,500.0	7,412.9	7,491.1	7,412.9	28.4	27.3	22.33	-388.6	-1,336.3	433.4	379.2	54.26	7.988	
7,600.0	7,512.7	7,590.9	7,512.7	28.8	27.3	22.62	-388.6	-1,336.3	428.0	373.4	54.57	7.842	
7,700.0	7,612.6	7,690.8	7,612.6	29.1	27.3	22.87	-388.6	-1,336.3	423.4	368.5	54.88	7.714	
7,800.0	7,712.5	7,790.7	7,712.5	29.5	27.3	23.08	-388.6	-1,336.3	419.6	364.4	55.18	7.604	
7,900.0	7,812.4	7,890.7	7,812.4	29.8	27.4	23.25	-388.6	-1,336.3	416.6	361.1	55.47	7.511	
8,000.0	7,912.4	7,990.6	7,912.4	30.1	27.4	23.38	-388.6	-1,336.3	414.4	358.7	55.75	7.434	
8,100.0	8,012.4	8,090.6	8,012.4	30.3	27.4	23.46	-388.6	-1,336.3	413.1	357.1	56.00	7.376	
8,200.0	8,112.4	8,190.6	8,112.4	30.5	27.5	23.49	-388.6	-1,336.3	412.5	356.3	56.22	7.337	
8,293.3	8,205.7	8,283.9	8,205.7	30.6	27.5	23.49	-388.6	-1,336.3	412.4	356.1	56.27	7.329 CC	
8,300.0	8,212.4	8,290.6	8,212.4	30.6	27.5	-89.51	-388.6	-1,336.3	412.5	356.2	56.27	7.330	
8,400.0	8,312.4	8,390.6	8,312.4	30.6	27.5	-89.51	-388.6	-1,336.3	412.5	356.1	56.32	7.324	
8,500.0	8,412.4	8,490.6	8,412.4	30.6	27.6	-89.51	-388.6	-1,336.3	412.5	356.1	56.37	7.317	
8,600.0	8,512.4	8,590.6	8,512.4	30.6	27.6	-89.51	-388.6	-1,336.3	412.5	356.0	56.42	7.311	
8,700.0	8,612.4	8,690.6	8,612.4	30.6	27.6	-89.51	-388.6	-1,336.3	412.5	356.0	56.47	7.304	
8,800.0	8,712.4	8,790.6	8,712.4	30.7	27.6	-89.51	-388.6	-1,336.3	412.5	355.9	56.52	7.298	
8,900.0	8,812.4	8,890.6	8,812.4	30.7	27.7	-89.51	-388.6	-1,336.3	412.5	355.9	56.57	7.291	
9,000.0	8,912.4	8,990.6	8,912.4	30.7	27.7	-89.51	-388.6	-1,336.3	412.5	355.8	56.62	7.285	
9,100.0	9,012.4	9,090.6	9,012.4	30.7	27.7	-89.51	-388.6	-1,336.3	412.5	355.8	56.67	7.278	
9,200.0	9,112.4	9,190.6	9,112.4	30.7	27.8	-89.51	-388.6	-1,336.3	412.5	355.7	56.72	7.272	
9,300.0	9,212.4	9,290.6	9,212.4	30.8	27.8	-89.51	-388.6	-1,336.3	412.5	355.7	56.77	7.265	
9,400.0	9,312.4	9,390.6	9,312.4	30.8	27.8	-89.51	-388.6	-1,336.3	412.5	355.6	56.83	7.258	
9,500.0	9,412.4	9,490.6	9,412.4	30.8	27.9	-89.51	-388.6	-1,336.3	412.5	355.6	56.88	7.251	
9,600.0	9,512.4	9,590.6	9,512.4	30.8	27.9	-89.51	-388.6	-1,336.3	412.5	355.5	56.93	7.245	
9,700.0	9,612.4	9,690.6	9,612.4	30.8	27.9	-89.51	-388.6	-1,336.3	412.5	355.5	56.99	7.238	
9,800.0	9,712.4	9,790.6	9,712.4	30.9	28.0	-89.51	-388.6	-1,336.3	412.5	355.4	57.04	7.231	
9,900.0	9,812.4	9,890.6	9,812.4	30.9	28.0	-89.51	-388.6	-1,336.3	412.5	355.4	57.10	7.224	
10,000.0	9,912.4	9,990.6	9,912.4	30.9	28.0	-89.51	-388.6	-1,336.3	412.5	355.3	57.15	7.217	
10,100.0	10,012.4	10,090.6	10,012.4	30.9	28.1	-89.51	-388.6	-1,336.3	412.5	355.2	57.21	7.210	
10,200.0	10,112.4	10,190.6	10,112.4	30.9	28.1	-89.51	-388.6	-1,336.3	412.5	355.2	57.26	7.203	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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_11092-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.0	10,212.4	10,290.6	10,212.4	31.0	28.1	-89.51	-388.6	-1,336.3	412.5	355.1	57.32	7.196	
10,400.0	10,312.4	10,390.6	10,312.4	31.0	28.2	-89.51	-388.6	-1,336.3	412.5	355.1	57.37	7.189	
10,500.0	10,412.4	10,490.6	10,412.4	31.0	28.2	-89.51	-388.6	-1,336.3	412.5	355.0	57.43	7.182	
10,600.0	10,512.4	10,590.6	10,512.4	31.0	28.2	-89.51	-388.6	-1,336.3	412.5	355.0	57.49	7.174	
10,700.0	10,612.4	10,690.6	10,612.4	31.1	28.3	-89.51	-388.6	-1,336.3	412.5	354.9	57.55	7.167	
10,800.0	10,712.4	10,790.6	10,712.4	31.1	28.3	-89.51	-388.6	-1,336.3	412.5	354.9	57.61	7.160	
10,900.0	10,812.4	10,890.6	10,812.4	31.1	28.3	-89.51	-388.6	-1,336.3	412.5	354.8	57.66	7.153	
11,000.0	10,912.4	10,990.6	10,912.4	31.1	28.4	-89.51	-388.6	-1,336.3	412.5	354.7	57.72	7.145	
11,004.2	10,916.6	10,994.8	10,916.6	31.1	28.4	-89.51	-388.6	-1,336.3	412.5	354.7	57.73	7.145	
11,100.0	11,012.4	11,090.2	11,011.9	31.2	28.4	-89.39	-387.8	-1,336.3	412.5	354.7	57.75	7.142	
11,200.0	11,112.4	11,185.8	11,106.2	31.2	28.4	-87.29	-372.6	-1,336.4	413.1	355.7	57.41	7.195	
11,300.0	11,212.4	11,272.5	11,187.5	31.2	28.4	-82.45	-343.0	-1,336.7	416.5	359.9	56.59	7.360	
11,400.0	11,311.7	11,350.0	11,254.6	31.2	28.4	-77.45	-304.3	-1,337.1	424.1	368.5	55.56	7.632	
11,500.0	11,407.7	11,425.0	11,312.8	31.2	28.4	-72.58	-257.1	-1,337.5	434.8	380.2	54.67	7.954	
11,600.0	11,497.4	11,494.5	11,359.5	31.3	28.4	-68.17	-205.7	-1,338.0	447.8	393.7	54.11	8.277	
11,700.0	11,578.2	11,561.5	11,397.0	31.3	28.4	-64.19	-150.3	-1,338.5	462.1	408.2	53.90	8.573	
11,800.0	11,647.5	11,625.0	11,425.0	31.3	28.5	-60.75	-93.4	-1,339.0	476.5	422.5	54.04	8.817	
11,900.0	11,703.3	11,689.2	11,445.5	31.4	28.5	-57.79	-32.6	-1,339.5	490.2	435.9	54.38	9.015	
12,000.0	11,743.9	11,750.0	11,457.2	31.4	28.6	-55.42	27.1	-1,340.1	502.5	447.6	54.92	9.150	
12,100.0	11,768.0	11,811.9	11,461.2	31.5	28.6	-53.55	88.8	-1,340.6	512.7	457.2	55.49	9.240	
12,200.0	11,775.0	11,910.6	11,461.2	31.6	28.7	-52.60	187.5	-1,341.5	516.7	461.0	55.64	9.286	
12,300.0	11,775.0	12,010.6	11,461.2	31.7	28.9	-52.58	287.5	-1,342.4	516.4	460.5	55.89	9.240	
12,400.0	11,775.0	12,110.6	11,461.2	31.8	29.0	-52.56	387.4	-1,343.3	516.1	460.0	56.18	9.188	
12,500.0	11,775.0	12,210.6	11,461.2	31.9	29.2	-52.54	487.4	-1,344.2	515.9	459.4	56.50	9.130	
12,600.0	11,775.0	12,310.6	11,461.2	32.1	29.4	-52.51	587.4	-1,345.1	515.6	458.7	56.87	9.066	
12,700.0	11,775.0	12,410.6	11,461.2	32.2	29.6	-52.49	687.4	-1,346.0	515.4	458.1	57.28	8.997	
12,800.0	11,775.0	12,510.6	11,461.2	32.4	29.8	-52.47	787.4	-1,346.9	515.1	457.4	57.73	8.923	
12,900.0	11,775.0	12,610.6	11,461.2	32.6	30.1	-52.45	887.4	-1,347.8	514.8	456.6	58.21	8.844	
13,000.0	11,775.0	12,710.6	11,461.2	32.8	30.4	-52.42	987.4	-1,348.7	514.6	455.8	58.74	8.761	
13,100.0	11,775.0	12,810.6	11,461.2	33.0	30.6	-52.40	1,087.4	-1,349.6	514.3	455.0	59.29	8.674	
13,200.0	11,775.0	12,910.6	11,461.2	33.3	30.9	-52.38	1,187.4	-1,350.5	514.1	454.2	59.88	8.584	
13,300.0	11,775.0	13,010.6	11,461.2	33.5	31.3	-52.36	1,287.4	-1,351.4	513.8	453.3	60.51	8.491	
13,400.0	11,775.0	13,110.6	11,461.2	33.8	31.6	-52.33	1,387.4	-1,352.3	513.5	452.4	61.17	8.396	
13,500.0	11,775.0	13,210.6	11,461.2	34.1	31.9	-52.31	1,487.4	-1,353.2	513.3	451.4	61.86	8.298	
13,600.0	11,775.0	13,310.6	11,461.2	34.4	32.3	-52.29	1,587.4	-1,354.1	513.0	450.4	62.57	8.198	
13,700.0	11,775.0	13,410.6	11,461.2	34.7	32.7	-52.27	1,687.4	-1,355.0	512.7	449.4	63.32	8.097	
13,800.0	11,775.0	13,510.6	11,461.2	35.0	33.1	-52.24	1,787.4	-1,355.9	512.5	448.4	64.10	7.995	
13,900.0	11,775.0	13,610.6	11,461.2	35.3	33.5	-52.22	1,887.4	-1,356.8	512.2	447.3	64.90	7.892	
14,000.0	11,775.0	13,710.6	11,461.2	35.6	33.9	-52.20	1,987.4	-1,357.7	512.0	446.2	65.74	7.788	
14,100.0	11,775.0	13,810.6	11,461.2	36.0	34.3	-52.18	2,087.4	-1,358.7	511.7	445.1	66.59	7.684	
14,200.0	11,775.0	13,910.6	11,461.2	36.4	34.7	-52.15	2,187.4	-1,359.6	511.4	444.0	67.47	7.580	
14,300.0	11,775.0	14,010.6	11,461.2	36.7	35.2	-52.13	2,287.4	-1,360.5	511.2	442.8	68.37	7.476	
14,400.0	11,775.0	14,110.6	11,461.2	37.1	35.6	-52.11	2,387.4	-1,361.4	510.9	441.6	69.30	7.372	
14,500.0	11,775.0	14,210.5	11,461.2	37.5	36.1	-52.09	2,487.3	-1,362.3	510.7	440.4	70.25	7.269	
14,600.0	11,775.0	14,310.5	11,461.2	37.9	36.6	-52.06	2,587.3	-1,363.2	510.4	439.2	71.22	7.167	
14,700.0	11,775.0	14,410.5	11,461.2	38.4	37.1	-52.04	2,687.3	-1,364.1	510.1	437.9	72.21	7.065	
14,800.0	11,775.0	14,510.5	11,461.2	38.8	37.6	-52.02	2,787.3	-1,365.0	509.9	436.7	73.21	6.964	
14,900.0	11,775.0	14,610.5	11,461.2	39.2	38.1	-51.99	2,887.3	-1,365.9	509.6	435.4	74.24	6.865	
15,000.0	11,775.0	14,710.5	11,461.2	39.7	38.6	-51.97	2,987.3	-1,366.8	509.4	434.1	75.28	6.766	
15,100.0	11,775.0	14,810.5	11,461.2	40.1	39.1	-51.95	3,087.3	-1,367.7	509.1	432.8	76.34	6.669	
15,200.0	11,775.0	14,910.5	11,461.2	40.6	39.7	-51.93	3,187.3	-1,368.6	508.8	431.4	77.42	6.573	
15,300.0	11,775.0	15,010.5	11,461.2	41.1	40.2	-51.90	3,287.3	-1,369.5	508.6	430.1	78.51	6.478	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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, 11092-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	
15,400.0	11,775.0	15,110.5	11,461.2	41.6	40.7	-51.88	3,387.3	-1,370.4	508.3	428.7	79.62	6.385	
15,500.0	11,775.0	15,210.5	11,461.2	42.1	41.3	-51.86	3,487.3	-1,371.3	508.1	427.3	80.74	6.293	
15,600.0	11,775.0	15,310.5	11,461.2	42.6	41.8	-51.83	3,587.3	-1,372.2	507.8	425.9	81.87	6.202	
15,700.0	11,775.0	15,410.5	11,461.2	43.1	42.4	-51.81	3,687.3	-1,373.1	507.5	424.5	83.02	6.113	
15,800.0	11,775.0	15,510.5	11,461.2	43.6	43.0	-51.79	3,787.3	-1,374.0	507.3	423.1	84.18	6.026	
15,900.0	11,775.0	15,610.5	11,461.2	44.1	43.6	-51.76	3,887.3	-1,374.9	507.0	421.7	85.35	5.940	
16,000.0	11,775.0	15,710.5	11,461.2	44.7	44.1	-51.74	3,987.3	-1,375.8	506.8	420.2	86.54	5.856	
16,100.0	11,775.0	15,810.5	11,461.2	45.2	44.7	-51.72	4,087.3	-1,376.7	506.5	418.8	87.73	5.773	
16,200.0	11,775.0	15,910.5	11,461.2	45.7	45.3	-51.69	4,187.3	-1,377.6	506.2	417.3	88.94	5.692	
16,300.0	11,775.0	16,010.5	11,461.2	46.3	45.9	-51.67	4,287.3	-1,378.5	506.0	415.8	90.15	5.612	
16,400.0	11,775.0	16,110.5	11,461.2	46.9	46.5	-51.65	4,387.3	-1,379.4	505.7	414.3	91.38	5.534	
16,500.0	11,775.0	16,210.5	11,461.2	47.4	47.1	-51.63	4,487.3	-1,380.3	505.5	412.8	92.62	5.458	
16,600.0	11,775.0	16,310.5	11,461.2	48.0	47.7	-51.60	4,587.3	-1,381.2	505.2	411.3	93.86	5.383	
16,700.0	11,775.0	16,410.5	11,461.2	48.6	48.4	-51.58	4,687.2	-1,382.1	504.9	409.8	95.11	5.309	
16,800.0	11,775.0	16,510.5	11,461.2	49.1	49.0	-51.56	4,787.2	-1,383.0	504.7	408.3	96.37	5.237	
16,900.0	11,775.0	16,610.5	11,461.2	49.7	49.6	-51.53	4,887.2	-1,383.9	504.4	406.8	97.64	5.166	
17,000.0	11,775.0	16,710.5	11,461.2	50.3	50.2	-51.51	4,987.2	-1,384.8	504.2	405.2	98.92	5.097	
17,100.0	11,775.0	16,810.5	11,461.2	50.9	50.9	-51.49	5,087.2	-1,385.7	503.9	403.7	100.21	5.029	
17,200.0	11,775.0	16,910.5	11,461.2	51.5	51.5	-51.46	5,187.2	-1,386.6	503.7	402.2	101.50	4.962	
17,300.0	11,775.0	17,010.5	11,461.2	52.1	52.1	-51.44	5,287.2	-1,387.5	503.4	400.6	102.80	4.897	
17,400.0	11,775.0	17,110.5	11,461.2	52.7	52.8	-51.42	5,387.2	-1,388.4	503.1	399.0	104.10	4.833	
17,500.0	11,775.0	17,210.5	11,461.2	53.3	53.4	-51.39	5,487.2	-1,389.3	502.9	397.5	105.42	4.770	
17,600.0	11,775.0	17,310.5	11,461.2	54.0	54.1	-51.37	5,587.2	-1,390.2	502.6	395.9	106.74	4.709	
17,700.0	11,775.0	17,410.5	11,461.2	54.6	54.7	-51.34	5,687.2	-1,391.1	502.4	394.3	108.06	4.649	
17,800.0	11,775.0	17,510.5	11,461.2	55.2	55.4	-51.32	5,787.2	-1,392.0	502.1	392.7	109.39	4.590	
17,900.0	11,775.0	17,610.5	11,461.2	55.8	56.0	-51.30	5,887.2	-1,392.9	501.8	391.1	110.73	4.532	
18,000.0	11,775.0	17,710.5	11,461.2	56.5	56.7	-51.27	5,987.2	-1,393.9	501.6	389.5	112.07	4.476	
18,100.0	11,775.0	17,810.5	11,461.2	57.1	57.4	-51.25	6,087.2	-1,394.8	501.3	387.9	113.41	4.420	
18,200.0	11,775.0	17,910.5	11,461.2	57.7	58.0	-51.23	6,187.2	-1,395.7	501.1	386.3	114.76	4.366	
18,300.0	11,775.0	18,010.5	11,461.2	58.4	58.7	-51.20	6,287.2	-1,396.6	500.8	384.7	116.12	4.313	
18,400.0	11,775.0	18,110.5	11,461.2	59.0	59.4	-51.18	6,387.2	-1,397.5	500.6	383.1	117.48	4.261	
18,500.0	11,775.0	18,210.5	11,461.2	59.7	60.0	-51.16	6,487.2	-1,398.4	500.3	381.5	118.85	4.210	
18,600.0	11,775.0	18,310.5	11,461.2	60.3	60.7	-51.13	6,587.2	-1,399.3	500.0	379.8	120.22	4.160	
18,700.0	11,775.0	18,410.5	11,461.2	61.0	61.4	-51.11	6,687.2	-1,400.2	499.8	378.2	121.59	4.110	
18,800.0	11,775.0	18,510.5	11,461.2	61.6	62.0	-51.08	6,787.2	-1,401.1	499.5	376.6	122.97	4.062	
18,900.0	11,775.0	18,610.5	11,461.2	62.3	62.7	-51.06	6,887.1	-1,402.0	499.3	374.9	124.35	4.015	
19,000.0	11,775.0	18,710.5	11,461.2	63.0	63.4	-51.04	6,987.1	-1,402.9	499.0	373.3	125.73	3.969	
19,100.0	11,775.0	18,810.5	11,461.2	63.6	64.1	-51.01	7,087.1	-1,403.8	498.8	371.6	127.12	3.923	
19,200.0	11,775.0	18,910.5	11,461.2	64.3	64.8	-50.99	7,187.1	-1,404.7	498.5	370.0	128.52	3.879	
19,300.0	11,775.0	19,010.5	11,461.2	65.0	65.5	-50.97	7,287.1	-1,405.6	498.2	368.3	129.91	3.835	
19,400.0	11,775.0	19,110.5	11,461.2	65.6	66.2	-50.94	7,387.1	-1,406.5	498.0	366.7	131.31	3.792	
19,500.0	11,775.0	19,210.5	11,461.2	66.3	66.8	-50.92	7,487.1	-1,407.4	497.7	365.0	132.72	3.750	
19,600.0	11,775.0	19,310.5	11,461.2	67.0	67.5	-50.89	7,587.1	-1,408.3	497.5	363.4	134.12	3.709	
19,700.0	11,775.0	19,410.5	11,461.2	67.7	68.2	-50.87	7,687.1	-1,409.2	497.2	361.7	135.53	3.669	
19,800.0	11,775.0	19,510.5	11,461.2	68.3	68.9	-50.85	7,787.1	-1,410.1	497.0	360.0	136.94	3.629	
19,900.0	11,775.0	19,610.5	11,461.2	69.0	69.6	-50.82	7,887.1	-1,411.0	496.7	358.4	138.36	3.590	
20,000.0	11,775.0	19,710.5	11,461.2	69.7	70.3	-50.80	7,987.1	-1,411.9	496.5	356.7	139.77	3.552	
20,100.0	11,775.0	19,810.5	11,461.2	70.4	71.0	-50.77	8,087.1	-1,412.8	496.2	355.0	141.19	3.514	
20,200.0	11,775.0	19,910.5	11,461.2	71.1	71.7	-50.75	8,187.1	-1,413.7	495.9	353.3	142.62	3.477	
20,300.0	11,775.0	20,010.5	11,461.2	71.8	72.4	-50.72	8,287.1	-1,414.6	495.7	351.6	144.04	3.441	
20,400.0	11,775.0	20,110.5	11,461.2	72.5	73.1	-50.70	8,387.1	-1,415.5	495.4	350.0	145.47	3.406	
20,500.0	11,775.0	20,210.5	11,461.2	73.1	73.8	-50.68	8,487.1	-1,416.4	495.2	348.3	146.90	3.371	

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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference 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, 11092-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	
20,600.0	11,775.0	20,310.5	11,461.2	73.8	74.5	-50.65	8,587.1	-1,417.3	494.9	346.6	148.33	3.337	
20,700.0	11,775.0	20,410.5	11,461.2	74.5	75.2	-50.63	8,687.1	-1,418.2	494.7	344.9	149.77	3.303	
20,800.0	11,775.0	20,510.5	11,461.2	75.2	75.9	-50.60	8,787.1	-1,419.1	494.4	343.2	151.21	3.270	
20,900.0	11,775.0	20,610.5	11,461.2	75.9	76.7	-50.58	8,887.1	-1,420.0	494.2	341.5	152.64	3.237	
21,000.0	11,775.0	20,710.5	11,461.2	76.6	77.4	-50.55	8,987.0	-1,420.9	493.9	339.8	154.09	3.205	
21,100.0	11,775.0	20,810.5	11,461.2	77.3	78.1	-50.53	9,087.0	-1,421.8	493.6	338.1	155.53	3.174	
21,200.0	11,775.0	20,910.5	11,461.2	78.0	78.8	-50.51	9,187.0	-1,422.7	493.4	336.4	156.97	3.143	
21,300.0	11,775.0	21,010.5	11,461.2	78.7	79.5	-50.48	9,287.0	-1,423.6	493.1	334.7	158.42	3.113	
21,400.0	11,775.0	21,110.5	11,461.2	79.4	80.2	-50.46	9,387.0	-1,424.5	492.9	333.0	159.87	3.083	
21,500.0	11,775.0	21,210.5	11,461.2	80.1	80.9	-50.43	9,487.0	-1,425.4	492.6	331.3	161.32	3.054	
21,600.0	11,775.0	21,310.5	11,461.2	80.8	81.6	-50.41	9,587.0	-1,426.3	492.4	329.6	162.77	3.025	
21,700.0	11,775.0	21,410.5	11,461.2	81.5	82.4	-50.38	9,687.0	-1,427.2	492.1	327.9	164.23	2.997	
21,800.0	11,775.0	21,510.5	11,461.2	82.2	83.1	-50.36	9,787.0	-1,428.2	491.9	326.2	165.68	2.969	
21,900.0	11,775.0	21,610.5	11,461.2	83.0	83.8	-50.33	9,887.0	-1,429.1	491.6	324.5	167.14	2.941	
22,000.0	11,775.0	21,710.5	11,461.2	83.7	84.5	-50.31	9,987.0	-1,430.0	491.4	322.8	168.60	2.914	
22,100.0	11,775.0	21,810.5	11,461.2	84.4	85.2	-50.29	10,087.0	-1,430.9	491.1	321.0	170.06	2.888	
22,166.3	11,775.0	21,875.5	11,461.2	84.8	85.7	-50.27	10,152.0	-1,431.4	490.9	319.9	171.04	2.870 ES, SF	
22,200.0	11,775.0	21,875.5	11,461.2	85.1	85.7	-50.27	10,152.0	-1,431.4	492.1	320.7	171.38	2.871	
22,300.0	11,775.0	21,875.5	11,461.2	85.8	85.7	-50.27	10,152.0	-1,431.4	508.8	340.4	168.40	3.022	
22,400.0	11,775.0	21,875.5	11,461.2	86.5	85.7	-50.27	10,152.0	-1,431.4	543.7	383.0	160.77	3.382	
22,500.0	11,775.0	21,875.5	11,461.2	87.2	85.7	-50.27	10,152.0	-1,431.4	593.6	442.8	150.80	3.937	
22,600.0	11,775.0	21,875.5	11,461.2	87.9	85.7	-50.27	10,152.0	-1,431.4	655.1	514.7	140.39	4.666	
22,700.0	11,775.0	21,875.5	11,461.2	88.7	85.7	-50.27	10,152.0	-1,431.4	725.2	594.5	130.65	5.550	
22,800.0	11,775.0	21,875.5	11,461.2	89.4	85.7	-50.27	10,152.0	-1,431.4	801.6	679.6	122.04	6.568	
22,900.0	11,775.0	21,875.5	11,461.2	90.1	85.7	-50.27	10,152.0	-1,431.4	882.8	768.2	114.64	7.700	
23,000.0	11,775.0	21,875.5	11,461.2	90.8	85.7	-50.27	10,152.0	-1,431.4	967.5	859.2	108.37	8.928	
23,100.0	11,775.0	21,875.5	11,461.2	91.5	85.7	-50.27	10,152.0	-1,431.4	1,054.9	951.8	103.08	10.234	
23,200.0	11,775.0	21,875.5	11,461.2	92.2	85.7	-50.27	10,152.0	-1,431.4	1,144.4	1,045.8	98.61	11.605	
23,300.0	11,775.0	21,875.5	11,461.2	93.0	85.7	-50.27	10,152.0	-1,431.4	1,235.4	1,140.6	94.84	13.027	
23,400.0	11,775.0	21,875.5	11,461.2	93.7	85.7	-50.27	10,152.0	-1,431.4	1,327.8	1,236.2	91.64	14.489	
23,500.0	11,775.0	21,875.5	11,461.2	94.4	85.7	-50.27	10,152.0	-1,431.4	1,421.2	1,332.3	88.92	15.983	
23,600.0	11,775.0	21,875.5	11,461.2	95.1	85.7	-50.27	10,152.0	-1,431.4	1,515.4	1,428.9	86.59	17.501	
23,700.0	11,775.0	21,875.5	11,461.2	95.9	85.7	-50.27	10,152.0	-1,431.4	1,610.4	1,525.8	84.59	19.037	
23,800.0	11,775.0	21,875.5	11,461.2	96.6	85.7	-50.27	10,152.0	-1,431.4	1,705.9	1,623.0	82.87	20.586	
23,900.0	11,775.0	21,875.5	11,461.2	97.3	85.7	-50.27	10,152.0	-1,431.4	1,801.9	1,720.5	81.38	22.142	
24,000.0	11,775.0	21,875.5	11,461.2	98.0	85.7	-50.27	10,152.0	-1,431.4	1,898.3	1,818.2	80.08	23.704	
24,100.0	11,775.0	21,875.5	11,461.2	98.8	85.7	-50.27	10,152.0	-1,431.4	1,995.1	1,916.1	78.95	25.269	
24,200.0	11,775.0	21,875.5	11,461.2	99.5	85.7	-50.27	10,152.0	-1,431.4	2,092.1	2,014.2	77.97	26.833	
24,300.0	11,775.0	21,875.5	11,461.2	100.2	85.7	-50.27	10,152.0	-1,431.4	2,189.5	2,112.4	77.11	28.395	
24,400.0	11,775.0	21,875.5	11,461.2	100.9	85.7	-50.27	10,152.0	-1,431.4	2,287.0	2,210.7	76.35	29.954	
24,500.0	11,775.0	21,875.5	11,461.2	101.7	85.7	-50.27	10,152.0	-1,431.4	2,384.8	2,309.1	75.69	31.508	
24,600.0	11,775.0	21,875.5	11,461.2	102.4	85.7	-50.27	10,152.0	-1,431.4	2,482.7	2,407.6	75.11	33.057	
24,700.0	11,775.0	21,875.5	11,461.2	103.1	85.7	-50.27	10,152.0	-1,431.4	2,580.8	2,506.3	74.59	34.599	
24,800.0	11,775.0	21,875.5	11,461.2	103.9	85.7	-50.27	10,152.0	-1,431.4	2,679.1	2,604.9	74.14	36.135	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - SNAPPING 12 1 FEDERAL #332H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 179-MWD - OWSG R1													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)				
23,000.0	11,775.0	11,144.0	11,070.0	90.8	38.9	66.19	12,958.1	509.1	2,616.2	2,510.6	105.54	24.789		
23,100.0	11,775.0	11,144.0	11,070.0	91.5	38.9	66.19	12,958.1	509.1	2,542.6	2,435.2	107.37	23.679		
23,200.0	11,775.0	11,144.0	11,070.0	92.2	38.9	66.19	12,958.1	509.1	2,470.8	2,361.5	109.29	22.608		
23,300.0	11,775.0	11,144.0	11,070.0	93.0	38.9	66.19	12,958.1	509.1	2,401.1	2,289.8	111.27	21.579		
23,400.0	11,775.0	11,180.1	11,103.4	93.7	39.0	67.19	12,971.8	508.6	2,332.6	2,219.5	113.18	20.610		
23,500.0	11,775.0	11,192.8	11,114.9	94.4	39.0	67.54	12,977.2	508.2	2,266.8	2,151.5	115.23	19.671		
23,600.0	11,775.0	11,239.0	11,155.3	95.1	39.2	68.76	12,999.4	505.7	2,203.9	2,086.8	117.13	18.816		
23,700.0	11,775.0	11,239.0	11,155.3	95.9	39.2	68.76	12,999.4	505.7	2,142.3	2,022.9	119.36	17.948		
23,800.0	11,775.0	11,239.0	11,155.3	96.6	39.2	68.76	12,999.4	505.7	2,083.6	1,962.0	121.64	17.130		
23,900.0	11,775.0	11,239.0	11,155.3	97.3	39.2	68.76	12,999.4	505.7	2,028.2	1,904.3	123.94	16.365		
24,000.0	11,775.0	11,239.0	11,155.3	98.0	39.2	68.76	12,999.4	505.7	1,976.3	1,850.0	126.24	15.656		
24,100.0	11,775.0	11,280.7	11,189.4	98.8	39.3	69.80	13,023.1	502.7	1,926.4	1,798.1	128.26	15.019		
24,200.0	11,775.0	11,297.3	11,202.2	99.5	39.3	70.20	13,033.7	501.5	1,880.8	1,750.3	130.42	14.421		
24,300.0	11,775.0	11,335.0	11,229.4	100.2	39.4	71.04	13,059.7	498.6	1,839.2	1,706.8	132.38	13.893		
24,400.0	11,775.0	11,335.0	11,229.4	100.9	39.4	71.04	13,059.7	498.6	1,800.7	1,666.2	134.54	13.384		
24,500.0	11,775.0	11,335.0	11,229.4	101.7	39.4	71.04	13,059.7	498.6	1,767.1	1,630.5	136.57	12.939		
24,600.0	11,775.0	11,387.5	11,263.5	102.4	39.5	72.12	13,099.4	495.2	1,736.3	1,598.1	138.22	12.562		
24,700.0	11,775.0	11,429.0	11,287.8	103.1	39.6	72.90	13,132.9	493.3	1,710.3	1,570.4	139.83	12.231		
24,800.0	11,775.0	11,429.0	11,287.8	103.9	39.6	72.90	13,132.9	493.3	1,688.3	1,546.9	141.43	11.937		
24,803.7	11,775.0	11,429.0	11,287.8	103.9	39.6	72.90	13,132.9	493.3	1,687.6	1,546.1	141.49	11.928	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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - SNAPPING 12 1 FEDERAL #621H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 180-MWD - OWSG R1												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)			
22,400.0	11,775.0	11,117.0	11,045.9	86.5	38.9	22.71	12,914.1	-782.7	2,641.1	2,564.8	76.30	34.614	
22,500.0	11,775.0	11,117.0	11,045.9	87.2	38.9	22.71	12,914.1	-782.7	2,545.9	2,468.9	77.05	33.042	
22,600.0	11,775.0	11,117.0	11,045.9	87.9	38.9	22.71	12,914.1	-782.7	2,451.0	2,373.2	77.86	31.480	
22,700.0	11,775.0	11,117.0	11,045.9	88.7	38.9	22.71	12,914.1	-782.7	2,356.6	2,277.9	78.74	29.929	
22,800.0	11,775.0	11,117.0	11,045.9	89.4	38.9	22.71	12,914.1	-782.7	2,262.6	2,182.9	79.70	28.391	
22,900.0	11,775.0	11,117.0	11,045.9	90.1	38.9	22.71	12,914.1	-782.7	2,169.2	2,088.5	80.74	26.866	
23,000.0	11,775.0	11,117.0	11,045.9	90.8	38.9	22.71	12,914.1	-782.7	2,076.4	1,994.5	81.89	25.357	
23,100.0	11,775.0	11,160.6	11,087.5	91.5	39.0	23.98	12,926.9	-782.2	1,981.4	1,899.0	82.41	24.043	
23,200.0	11,775.0	11,166.5	11,093.0	92.2	39.0	24.16	12,929.0	-782.1	1,889.2	1,805.6	83.62	22.593	
23,300.0	11,775.0	11,212.0	11,134.3	93.0	39.2	25.60	12,948.0	-781.3	1,800.1	1,716.0	84.17	21.387	
23,400.0	11,775.0	11,212.0	11,134.3	93.7	39.2	25.60	12,948.0	-781.3	1,708.7	1,623.0	85.69	19.940	
23,500.0	11,775.0	11,212.0	11,134.3	94.4	39.2	25.60	12,948.0	-781.3	1,618.3	1,530.9	87.39	18.518	
23,600.0	11,775.0	11,212.0	11,134.3	95.1	39.2	25.60	12,948.0	-781.3	1,529.1	1,439.8	89.29	17.125	
23,700.0	11,775.0	11,212.0	11,134.3	95.9	39.2	25.60	12,948.0	-781.3	1,441.3	1,349.8	91.41	15.767	
23,800.0	11,775.0	11,212.0	11,134.3	96.6	39.2	25.60	12,948.0	-781.3	1,355.1	1,261.4	93.79	14.448	
23,900.0	11,775.0	11,212.0	11,134.3	97.3	39.2	25.60	12,948.0	-781.3	1,271.1	1,174.6	96.46	13.177	
24,000.0	11,775.0	11,246.5	11,164.2	98.0	39.3	26.76	12,965.2	-780.5	1,187.9	1,089.6	98.26	12.090	
24,100.0	11,775.0	11,264.0	11,179.0	98.8	39.3	27.37	12,974.6	-780.1	1,107.2	1,006.3	100.88	10.976	
24,200.0	11,775.0	11,307.0	11,213.8	99.5	39.4	28.93	12,999.7	-778.8	1,029.7	926.9	102.81	10.016	
24,300.0	11,775.0	11,307.0	11,213.8	100.2	39.4	28.93	12,999.7	-778.8	953.5	846.7	106.76	8.931	
24,400.0	11,775.0	11,307.0	11,213.8	100.9	39.4	28.93	12,999.7	-778.8	882.1	770.9	111.11	7.939	
24,500.0	11,775.0	11,357.0	11,251.8	101.7	39.5	30.86	13,032.1	-776.7	813.0	699.3	113.72	7.149	
24,600.0	11,775.0	11,403.0	11,284.3	102.4	39.6	32.76	13,064.6	-774.0	749.6	632.8	116.82	6.417	
24,700.0	11,775.0	11,426.0	11,299.7	103.1	39.7	33.75	13,081.6	-772.4	690.6	569.3	121.24	5.696	
24,800.0	11,775.0	11,473.9	11,330.3	103.9	39.8	35.81	13,118.3	-769.5	637.0	512.2	124.83	5.103	
24,803.7	11,775.0	11,475.8	11,331.5	103.9	39.8	35.89	13,119.8	-769.4	635.2	510.2	124.97	5.083 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - SNAPPING 12 1 FEDERAL #711H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		180-MWD - OWSG R1					Rule Assigned:							Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
22,500.0	11,775.0	11,449.5	11,342.7	87.2	41.1	67.75	12,879.8	-30.8	2,636.6	2,546.0	90.54	29.121			
22,600.0	11,775.0	11,452.3	11,345.6	87.9	41.1	67.88	12,880.3	-30.7	2,546.8	2,455.0	91.81	27.739			
22,700.0	11,775.0	11,455.5	11,348.6	88.7	41.1	68.03	12,880.9	-30.7	2,457.8	2,364.6	93.17	26.380			
22,800.0	11,775.0	11,458.8	11,351.9	89.4	41.1	68.18	12,881.5	-30.6	2,369.6	2,275.0	94.62	25.043			
22,900.0	11,775.0	11,499.0	11,391.0	90.1	41.2	70.04	12,890.9	-30.1	2,283.9	2,187.8	96.09	23.768			
23,000.0	11,775.0	11,499.0	11,391.0	90.8	41.2	70.04	12,890.9	-30.1	2,197.5	2,099.7	97.76	22.479			
23,100.0	11,775.0	11,499.0	11,391.0	91.5	41.2	70.04	12,890.9	-30.1	2,112.2	2,012.6	99.54	21.219			
23,200.0	11,775.0	11,499.0	11,391.0	92.2	41.2	70.04	12,890.9	-30.1	2,028.2	1,926.8	101.46	19.991			
23,300.0	11,775.0	11,499.0	11,391.0	93.0	41.2	70.04	12,890.9	-30.1	1,945.8	1,842.3	103.51	18.798			
23,400.0	11,775.0	11,499.0	11,391.0	93.7	41.2	70.04	12,890.9	-30.1	1,865.1	1,759.4	105.72	17.642			
23,500.0	11,775.0	11,499.0	11,391.0	94.4	41.2	70.04	12,890.9	-30.1	1,786.4	1,678.3	108.08	16.528			
23,600.0	11,775.0	11,499.0	11,391.0	95.1	41.2	70.04	12,890.9	-30.1	1,709.9	1,599.3	110.61	15.459			
23,700.0	11,775.0	11,499.0	11,391.0	95.9	41.2	70.04	12,890.9	-30.1	1,635.9	1,522.6	113.29	14.439			
23,800.0	11,775.0	11,499.0	11,391.0	96.6	41.2	70.04	12,890.9	-30.1	1,564.8	1,448.7	116.14	13.474			
23,900.0	11,775.0	11,499.0	11,391.0	97.3	41.2	70.04	12,890.9	-30.1	1,497.0	1,377.9	119.12	12.567			
24,000.0	11,775.0	11,535.8	11,426.0	98.0	41.3	71.74	12,902.4	-29.8	1,431.6	1,309.6	122.00	11.734			
24,100.0	11,775.0	11,548.2	11,437.5	98.8	41.4	72.31	12,906.9	-29.8	1,370.8	1,245.7	125.12	10.956			
24,200.0	11,775.0	11,562.5	11,450.6	99.5	41.4	72.96	12,912.5	-29.7	1,314.5	1,186.2	128.28	10.247			
24,300.0	11,775.0	11,594.0	11,479.0	100.2	41.5	74.38	12,926.2	-29.6	1,263.3	1,132.0	131.30	9.622			
24,400.0	11,775.0	11,594.0	11,479.0	100.9	41.5	74.38	12,926.2	-29.6	1,217.1	1,082.6	134.46	9.052			
24,500.0	11,775.0	11,624.2	11,505.2	101.7	41.5	75.70	12,941.2	-29.7	1,176.9	1,039.6	137.24	8.575			
24,600.0	11,775.0	11,655.2	11,531.0	102.4	41.6	77.02	12,958.4	-30.0	1,142.7	1,002.9	139.77	8.176			
24,700.0	11,775.0	11,689.0	11,557.7	103.1	41.7	78.39	12,979.1	-30.7	1,114.7	972.7	141.97	7.852			
24,800.0	11,775.0	11,734.9	11,591.4	103.9	41.7	80.15	13,010.3	-31.9	1,092.7	949.0	143.77	7.601			
24,803.7	11,775.0	11,736.7	11,592.6	103.9	41.7	80.21	13,011.5	-31.9	1,092.1	948.2	143.83	7.593	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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - SNAPPING 12 1 FEDERAL #712H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		179-MWD - OWSG R1				Rule Assigned:				Offset Well Error:		3.0 usft		
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
23,000.0	11,775.0	11,620.0	11,536.0	90.8	41.0	82.76	12,893.9	792.8	2,670.1	2,557.6	112.47	23.740		
23,100.0	11,775.0	11,620.0	11,536.0	91.5	41.0	82.76	12,893.9	792.8	2,600.6	2,486.3	114.34	22.745		
23,200.0	11,775.0	11,620.0	11,536.0	92.2	41.0	82.76	12,893.9	792.8	2,533.2	2,416.9	116.26	21.788		
23,300.0	11,775.0	11,620.0	11,536.0	93.0	41.0	82.76	12,893.9	792.8	2,468.0	2,349.7	118.24	20.872		
23,400.0	11,775.0	11,648.2	11,563.9	93.7	41.0	83.59	12,898.1	792.3	2,404.8	2,284.5	120.31	19.988		
23,500.0	11,775.0	11,655.7	11,571.3	94.4	41.1	83.82	12,899.3	792.2	2,344.3	2,222.0	122.39	19.155		
23,600.0	11,775.0	11,664.1	11,579.5	95.1	41.1	84.06	12,900.8	792.0	2,286.6	2,162.1	124.49	18.368		
23,700.0	11,775.0	11,673.3	11,588.6	95.9	41.1	84.34	12,902.5	791.8	2,231.8	2,105.2	126.60	17.628		
23,800.0	11,775.0	11,683.8	11,598.9	96.6	41.2	84.64	12,904.6	791.5	2,180.1	2,051.4	128.72	16.937		
23,900.0	11,775.0	11,715.0	11,629.3	97.3	41.3	85.56	12,911.4	790.5	2,131.9	2,001.1	130.83	16.295		
24,000.0	11,775.0	11,715.0	11,629.3	98.0	41.3	85.56	12,911.4	790.5	2,087.0	1,954.1	132.89	15.705		
24,100.0	11,775.0	11,715.0	11,629.3	98.8	41.3	85.56	12,911.4	790.5	2,045.9	1,911.1	134.87	15.169		
24,200.0	11,775.0	11,744.1	11,657.3	99.5	41.3	86.41	12,919.1	789.2	2,008.8	1,872.0	136.80	14.684		
24,300.0	11,775.0	11,770.2	11,682.0	100.2	41.4	87.16	12,927.4	787.6	1,975.7	1,837.1	138.60	14.254		
24,400.0	11,775.0	11,806.5	11,715.6	100.9	41.5	88.18	12,941.0	784.6	1,946.6	1,806.3	140.27	13.877		
24,500.0	11,775.0	11,919.7	11,811.3	101.7	41.8	91.12	12,998.6	769.2	1,920.7	1,779.1	141.66	13.558		
24,600.0	11,775.0	11,958.6	11,840.0	102.4	41.8	92.01	13,023.9	762.2	1,897.5	1,754.5	143.03	13.267		
24,700.0	11,775.0	11,999.0	11,866.9	103.1	41.9	92.85	13,053.0	754.5	1,877.3	1,733.1	144.27	13.013		
24,800.0	11,775.0	12,068.8	11,905.5	103.9	42.0	94.07	13,109.6	741.2	1,859.9	1,714.5	145.33	12.797		
24,803.7	11,775.0	12,071.0	11,906.5	103.9	42.0	94.11	13,111.5	740.8	1,859.3	1,713.9	145.37	12.790	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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11094-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.4	0.0	3.0	3.0	89.43	0.3	30.0	30.0				
100.0	100.0	100.4	100.0	3.0	3.0	89.43	0.3	30.0	30.0	23.9	6.05	4.952	
200.0	200.0	200.4	200.0	3.2	3.2	89.43	0.3	30.0	30.0	23.7	6.30	4.760	
300.0	300.0	300.4	300.0	3.3	3.3	89.43	0.3	30.0	30.0	23.4	6.53	4.588	
400.0	400.0	400.4	400.0	3.4	3.4	89.43	0.3	30.0	30.0	23.2	6.76	4.433	
500.0	500.0	500.4	500.0	3.5	3.5	89.43	0.3	30.0	30.0	23.0	6.98	4.294	
600.0	600.0	600.4	600.0	3.6	3.6	89.43	0.3	30.0	30.0	22.8	7.19	4.166	
700.0	700.0	700.4	700.0	3.8	3.8	89.43	0.3	30.0	30.0	22.6	7.40	4.050	
800.0	800.0	800.4	800.0	3.9	3.9	89.43	0.3	30.0	30.0	22.4	7.60	3.942	
900.0	900.0	900.4	900.0	4.0	4.0	89.43	0.3	30.0	30.0	22.2	7.80	3.843	
1,000.0	1,000.0	1,000.4	1,000.0	4.1	4.1	89.43	0.3	30.0	30.0	22.0	7.99	3.751	
1,100.0	1,100.0	1,101.2	1,100.8	4.2	4.3	91.51	-0.8	28.5	28.5	20.3	8.25	3.458	
1,200.0	1,200.0	1,201.8	1,201.2	4.4	4.6	99.09	-3.9	24.2	24.6	16.0	8.58	2.864	
1,300.0	1,300.0	1,301.9	1,300.9	4.5	4.9	117.84	-9.0	17.1	19.4	10.5	8.86	2.187	
1,372.9	1,372.9	1,374.3	1,372.9	4.6	5.1	144.00	-14.1	10.2	17.4	8.2	9.14	1.901 Advise and Monitor, CC, ES, SF	
1,400.0	1,400.0	1,401.2	1,399.5	4.6	5.2	155.78	-16.2	7.3	17.8	8.5	9.30	1.908 Advise and Monitor	
1,500.0	1,500.0	1,500.2	1,497.6	4.7	5.5	-170.95	-24.3	-3.9	24.7	14.8	9.92	2.492	
1,600.0	1,600.0	1,599.4	1,595.8	4.8	5.7	-43.43	-32.4	-15.0	35.0	24.6	10.37	3.376	
1,700.0	1,699.9	1,698.9	1,694.3	5.0	6.0	-37.71	-40.5	-26.2	44.4	33.5	10.86	4.089	
1,800.0	1,799.7	1,798.6	1,793.0	5.2	6.3	-35.62	-48.7	-37.5	51.9	40.6	11.37	4.570	
1,900.0	1,899.3	1,898.4	1,891.9	5.4	6.7	-35.53	-56.9	-48.7	57.4	45.5	11.89	4.827	
2,000.0	1,998.6	1,998.4	1,990.9	5.6	7.0	-36.91	-65.0	-60.0	60.7	48.3	12.41	4.891	
2,100.0	2,097.5	2,098.3	2,089.8	5.9	7.4	-39.64	-73.2	-71.2	62.0	49.1	12.91	4.803	
2,200.0	2,196.1	2,198.2	2,188.7	6.2	7.7	-43.91	-81.4	-82.5	61.6	48.2	13.35	4.610	
2,300.0	2,294.3	2,298.0	2,287.6	6.5	8.1	-49.66	-89.5	-93.7	60.1	46.5	13.62	4.416	
2,400.0	2,392.4	2,397.8	2,386.4	6.8	8.4	-55.74	-97.7	-104.9	59.2	45.4	13.85	4.276	
2,480.5	2,471.5	2,478.2	2,466.0	7.1	8.7	-60.72	-104.3	-114.0	59.0	45.0	13.98	4.220	
2,500.0	2,490.6	2,497.6	2,485.2	7.2	8.8	-61.93	-105.9	-116.2	59.0	45.0	14.00	4.214	
2,600.0	2,588.8	2,597.4	2,584.1	7.5	9.2	-68.09	-114.0	-127.4	59.5	45.4	14.09	4.221	
2,700.0	2,686.9	2,697.2	2,682.9	7.9	9.6	-74.09	-122.2	-138.6	60.6	46.5	14.15	4.285	
2,800.0	2,785.1	2,797.0	2,781.7	8.3	10.0	-79.80	-130.4	-149.9	62.4	48.2	14.21	4.393	
2,900.0	2,883.3	2,896.8	2,880.5	8.6	10.4	-85.15	-138.5	-161.1	64.8	50.5	14.31	4.529	
3,000.0	2,981.4	2,996.6	2,979.3	9.0	10.7	-90.08	-146.7	-172.3	67.7	53.3	14.47	4.680	
3,100.0	3,079.6	3,096.4	3,078.2	9.4	11.1	-94.58	-154.9	-183.6	71.1	56.4	14.71	4.833	
3,200.0	3,177.7	3,196.2	3,177.0	9.8	11.5	-98.64	-163.0	-194.8	74.8	59.8	15.03	4.980	
3,300.0	3,275.9	3,296.0	3,275.8	10.3	11.9	-102.31	-171.2	-206.1	78.9	63.5	15.43	5.117	
3,400.0	3,374.1	3,395.8	3,374.6	10.7	12.4	-105.60	-179.3	-217.3	83.3	67.4	15.90	5.243	
3,500.0	3,472.2	3,495.6	3,473.5	11.1	12.8	-108.55	-187.5	-228.5	88.0	71.5	16.43	5.356	
3,600.0	3,570.4	3,595.4	3,572.3	11.5	13.2	-111.20	-195.7	-239.8	92.8	75.8	17.01	5.458	
3,700.0	3,668.6	3,695.1	3,671.1	11.9	13.6	-113.59	-203.8	-251.0	97.9	80.2	17.63	5.550	
3,800.0	3,766.7	3,794.9	3,769.9	12.4	14.0	-115.73	-212.0	-262.2	103.0	84.7	18.28	5.635	
3,900.0	3,864.9	3,894.7	3,868.8	12.8	14.4	-117.67	-220.2	-273.5	108.3	89.4	18.97	5.712	
4,000.0	3,963.0	3,994.5	3,967.6	13.2	14.8	-119.43	-228.3	-284.7	113.8	94.1	19.67	5.784	
4,100.0	4,061.2	4,094.3	4,066.4	13.7	15.2	-121.03	-236.5	-295.9	119.3	98.9	20.39	5.851	
4,200.0	4,159.4	4,194.1	4,165.2	14.1	15.6	-122.48	-244.7	-307.2	124.9	103.8	21.12	5.914	
4,300.0	4,257.5	4,293.9	4,264.1	14.6	16.1	-123.81	-252.8	-318.4	130.6	108.7	21.86	5.973	
4,400.0	4,355.7	4,393.7	4,362.9	15.0	16.5	-125.03	-261.0	-329.7	136.3	113.7	22.61	6.030	
4,500.0	4,453.9	4,493.5	4,461.7	15.4	16.9	-126.15	-269.1	-340.9	142.1	118.7	23.36	6.083	
4,600.0	4,552.0	4,593.3	4,560.5	15.9	17.3	-127.18	-277.3	-352.1	148.0	123.8	24.12	6.134	
4,700.0	4,650.2	4,693.1	4,659.3	16.3	17.7	-128.13	-285.5	-363.4	153.8	129.0	24.88	6.183	
4,800.0	4,748.3	4,792.9	4,758.2	16.8	18.2	-129.01	-293.6	-374.6	159.8	134.1	25.65	6.229	
4,900.0	4,846.5	4,892.7	4,857.0	17.2	18.6	-129.83	-301.8	-385.8	165.7	139.3	26.42	6.274	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11094-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
5,000.0	4,944.7	4,992.5	4,955.8	17.7	19.0	-130.59	-310.0	-397.1	171.7	144.6	27.19	6.317	
5,100.0	5,042.8	5,092.3	5,054.6	18.1	19.4	-131.30	-318.1	-408.3	177.8	149.8	27.96	6.358	
5,200.0	5,141.0	5,192.1	5,153.5	18.6	19.8	-131.96	-326.3	-419.5	183.8	155.1	28.73	6.398	
5,300.0	5,239.2	5,291.4	5,251.9	19.0	20.2	-132.61	-334.4	-430.6	189.9	160.5	29.48	6.443	
5,400.0	5,337.3	5,390.3	5,349.9	19.5	20.7	-133.41	-341.9	-441.1	196.5	166.2	30.31	6.483	
5,500.0	5,435.5	5,489.1	5,448.0	19.9	21.1	-134.37	-349.0	-450.8	203.5	172.3	31.20	6.523	
5,600.0	5,533.6	5,587.8	5,546.1	20.4	21.5	-135.45	-355.6	-459.8	211.1	178.9	32.14	6.567	
5,700.0	5,631.8	5,686.4	5,644.1	20.8	21.9	-136.64	-361.6	-468.2	219.2	186.0	33.13	6.615	
5,800.0	5,730.0	5,784.8	5,742.0	21.3	22.2	-137.92	-367.2	-475.8	227.9	193.7	34.16	6.669	
5,900.0	5,828.1	5,883.0	5,839.9	21.7	22.6	-139.27	-372.2	-482.8	237.1	201.9	35.23	6.731	
6,000.0	5,926.3	5,981.1	5,937.7	22.2	23.0	-140.67	-376.8	-489.1	247.1	210.8	36.32	6.802	
6,100.0	6,024.5	6,079.0	6,035.3	22.6	23.3	-142.10	-380.9	-494.7	257.5	220.1	37.41	6.884	
6,200.0	6,122.9	6,176.8	6,133.0	23.1	23.7	-143.45	-384.4	-499.6	267.9	229.4	38.48	6.963	
6,300.0	6,221.4	6,274.6	6,230.6	23.5	24.0	-144.73	-387.5	-503.8	278.3	238.8	39.52	7.043	
6,400.0	6,320.1	6,372.2	6,328.1	24.0	24.4	-145.94	-390.1	-507.3	288.7	248.2	40.53	7.124	
6,500.0	6,418.9	6,469.8	6,425.6	24.4	24.7	-147.09	-392.2	-510.2	299.1	257.6	41.51	7.206	
6,600.0	6,517.8	6,567.3	6,523.0	24.9	25.0	-148.19	-393.8	-512.4	309.5	267.0	42.46	7.288	
6,700.0	6,616.9	6,664.6	6,620.4	25.3	25.2	-149.24	-394.9	-513.9	319.8	276.4	43.38	7.373	
6,800.0	6,716.1	6,761.9	6,717.7	25.7	25.5	-150.26	-395.5	-514.8	330.1	285.9	44.25	7.460	
6,900.0	6,815.3	6,859.6	6,815.3	26.1	25.6	-151.23	-395.7	-515.0	340.3	295.3	45.02	7.560	
7,000.0	6,914.7	6,959.0	6,914.7	26.5	25.6	-152.12	-395.7	-515.0	350.1	304.4	45.70	7.661	
7,100.0	7,014.2	7,058.4	7,014.2	26.9	25.6	-152.91	-395.7	-515.0	359.2	312.8	46.34	7.751	
7,200.0	7,113.8	7,158.0	7,113.8	27.3	25.6	-153.59	-395.7	-515.0	367.5	320.6	46.94	7.829	
7,300.0	7,213.4	7,257.6	7,213.4	27.7	25.7	-154.18	-395.7	-515.0	375.1	327.6	47.51	7.896	
7,400.0	7,313.1	7,357.4	7,313.1	28.1	25.7	-154.69	-395.7	-515.0	382.0	334.0	48.04	7.952	
7,500.0	7,412.9	7,457.1	7,412.9	28.4	25.7	-155.13	-395.7	-515.0	388.1	339.6	48.54	7.996	
7,600.0	7,512.7	7,557.0	7,512.7	28.8	25.7	-155.50	-395.7	-515.0	393.4	344.4	49.01	8.028	
7,700.0	7,612.6	7,656.8	7,612.6	29.1	25.7	-155.81	-395.7	-515.0	398.0	348.5	49.44	8.050	
7,800.0	7,712.5	7,756.7	7,712.5	29.5	25.8	-156.05	-395.7	-515.0	401.7	351.9	49.84	8.060	
7,900.0	7,812.4	7,856.7	7,812.4	29.8	25.8	-156.25	-395.7	-515.0	404.7	354.5	50.22	8.059	
8,000.0	7,912.4	7,956.7	7,912.4	30.1	25.8	-156.39	-395.7	-515.0	406.9	356.3	50.55	8.049	
8,100.0	8,012.4	8,056.7	8,012.4	30.3	25.8	-156.47	-395.7	-515.0	408.3	357.4	50.84	8.030	
8,200.0	8,112.4	8,156.7	8,112.4	30.5	25.9	-156.51	-395.7	-515.0	408.8	357.8	51.07	8.005	
8,300.0	8,212.4	8,256.7	8,212.4	30.6	25.9	90.49	-395.7	-515.0	408.9	357.7	51.12	7.997	
8,400.0	8,312.4	8,356.7	8,312.4	30.6	25.9	90.49	-395.7	-515.0	408.9	357.7	51.17	7.990	
8,500.0	8,412.4	8,456.7	8,412.4	30.6	25.9	90.49	-395.7	-515.0	408.9	357.6	51.21	7.983	
8,600.0	8,512.4	8,556.7	8,512.4	30.6	25.9	90.49	-395.7	-515.0	408.9	357.6	51.26	7.976	
8,700.0	8,612.4	8,656.7	8,612.4	30.6	26.0	90.49	-395.7	-515.0	408.9	357.6	51.31	7.969	
8,800.0	8,712.4	8,756.7	8,712.4	30.7	26.0	90.49	-395.7	-515.0	408.9	357.5	51.35	7.962	
8,900.0	8,812.4	8,856.7	8,812.4	30.7	26.0	90.49	-395.7	-515.0	408.9	357.5	51.40	7.955	
9,000.0	8,912.4	8,956.7	8,912.4	30.7	26.0	90.49	-395.7	-515.0	408.9	357.4	51.45	7.947	
9,100.0	9,012.4	9,056.7	9,012.4	30.7	26.1	90.49	-395.7	-515.0	408.9	357.4	51.50	7.940	
9,200.0	9,112.4	9,156.7	9,112.4	30.7	26.1	90.49	-395.7	-515.0	408.9	357.3	51.54	7.932	
9,300.0	9,212.4	9,256.7	9,212.4	30.8	26.1	90.49	-395.7	-515.0	408.9	357.3	51.59	7.925	
9,400.0	9,312.4	9,356.7	9,312.4	30.8	26.1	90.49	-395.7	-515.0	408.9	357.2	51.64	7.917	
9,500.0	9,412.4	9,456.7	9,412.4	30.8	26.2	90.49	-395.7	-515.0	408.9	357.2	51.69	7.910	
9,600.0	9,512.4	9,556.7	9,512.4	30.8	26.2	90.49	-395.7	-515.0	408.9	357.1	51.74	7.902	
9,700.0	9,612.4	9,656.7	9,612.4	30.8	26.2	90.49	-395.7	-515.0	408.9	357.1	51.79	7.894	
9,800.0	9,712.4	9,756.7	9,712.4	30.9	26.3	90.49	-395.7	-515.0	408.9	357.0	51.84	7.886	
9,900.0	9,812.4	9,856.7	9,812.4	30.9	26.3	90.49	-395.7	-515.0	408.9	357.0	51.90	7.878	
10,000.0	9,912.4	9,956.7	9,912.4	30.9	26.3	90.49	-395.7	-515.0	408.9	356.9	51.95	7.871	
10,100.0	10,012.4	10,056.7	10,012.4	30.9	26.3	90.49	-395.7	-515.0	408.9	356.9	52.00	7.863	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11094-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	
10,200.0	10,112.4	10,156.7	10,112.4	30.9	26.4	90.49	-395.7	-515.0	408.9	356.8	52.05	7.855	
10,300.0	10,212.4	10,256.7	10,212.4	31.0	26.4	90.49	-395.7	-515.0	408.9	356.8	52.11	7.846	
10,400.0	10,312.4	10,356.7	10,312.4	31.0	26.4	90.49	-395.7	-515.0	408.9	356.7	52.16	7.838	
10,500.0	10,412.4	10,456.7	10,412.4	31.0	26.4	90.49	-395.7	-515.0	408.9	356.6	52.22	7.830	
10,600.0	10,512.4	10,556.7	10,512.4	31.0	26.5	90.49	-395.7	-515.0	408.9	356.6	52.27	7.822	
10,700.0	10,612.4	10,656.7	10,612.4	31.1	26.5	90.49	-395.7	-515.0	408.9	356.5	52.33	7.814	
10,800.0	10,712.4	10,756.7	10,712.4	31.1	26.5	90.49	-395.7	-515.0	408.9	356.5	52.38	7.805	
10,900.0	10,812.4	10,856.7	10,812.4	31.1	26.6	90.49	-395.7	-515.0	408.9	356.4	52.44	7.797	
11,000.0	10,912.4	10,956.7	10,912.4	31.1	26.6	90.49	-395.7	-515.0	408.9	356.4	52.50	7.788	
11,100.0	11,012.4	11,056.7	11,012.4	31.2	26.6	90.49	-395.7	-515.0	408.9	356.3	52.55	7.780	
11,200.0	11,112.4	11,157.4	11,113.0	31.2	26.6	90.00	-392.1	-515.1	408.8	356.0	52.76	7.749	
11,237.7	11,150.1	11,194.9	11,150.1	31.2	26.7	89.97	-386.8	-515.1	408.8	355.8	52.99	7.714	
11,300.0	11,212.4	11,254.8	11,208.5	31.2	26.7	88.05	-373.2	-515.3	409.0	355.5	53.52	7.642	
11,400.0	11,311.7	11,347.2	11,294.8	31.2	26.7	84.61	-340.5	-515.7	410.7	356.5	54.19	7.578	
11,500.0	11,407.7	11,436.3	11,372.0	31.2	26.8	81.39	-296.3	-516.3	413.6	359.2	54.47	7.594	
11,600.0	11,497.4	11,522.7	11,439.5	31.3	26.8	78.46	-242.5	-517.0	417.5	363.1	54.41	7.674	
11,700.0	11,578.2	11,606.9	11,496.8	31.3	26.9	75.88	-180.9	-517.8	421.8	367.7	54.09	7.799	
11,800.0	11,647.5	11,689.3	11,543.5	31.3	26.9	73.71	-113.1	-518.6	426.1	372.5	53.59	7.952	
11,900.0	11,703.3	11,770.4	11,579.5	31.4	27.0	71.97	-40.5	-519.6	430.0	377.0	52.98	8.116	
12,000.0	11,743.9	11,850.0	11,604.6	31.4	27.0	70.69	34.9	-520.5	433.1	380.8	52.29	8.282	
12,100.0	11,768.0	11,929.9	11,619.0	31.5	27.1	69.86	113.5	-521.6	435.2	383.5	51.63	8.429	
12,200.0	11,775.0	12,012.7	11,622.5	31.6	27.1	69.54	196.1	-522.6	436.0	384.9	51.11	8.531	
12,300.0	11,775.0	12,112.7	11,622.4	31.7	27.2	69.51	296.1	-523.9	436.0	384.7	51.33	8.495	
12,400.0	11,775.0	12,212.7	11,622.2	31.8	27.3	69.49	396.1	-525.2	436.0	384.4	51.59	8.451	
12,500.0	11,775.0	12,312.7	11,622.0	31.9	27.5	69.46	496.1	-526.5	436.0	384.1	51.90	8.401	
12,600.0	11,775.0	12,412.7	11,621.8	32.1	27.6	69.44	596.1	-527.8	436.0	383.8	52.25	8.345	
12,700.0	11,775.0	12,512.7	11,621.7	32.2	27.8	69.42	696.1	-529.0	436.1	383.4	52.65	8.283	
12,800.0	11,775.0	12,612.7	11,621.5	32.4	27.9	69.39	796.1	-530.3	436.1	383.0	53.08	8.215	
12,900.0	11,775.0	12,712.7	11,621.3	32.6	28.1	69.37	896.1	-531.6	436.1	382.5	53.56	8.142	
13,000.0	11,775.0	12,812.7	11,621.1	32.8	28.3	69.34	996.1	-532.9	436.1	382.0	54.08	8.064	
13,100.0	11,775.0	12,912.7	11,621.0	33.0	28.5	69.32	1,096.1	-534.2	436.1	381.5	54.63	7.983	
13,200.0	11,775.0	13,012.7	11,620.8	33.3	28.8	69.30	1,196.1	-535.5	436.1	380.9	55.22	7.897	
13,300.0	11,775.0	13,112.7	11,620.6	33.5	29.0	69.27	1,296.0	-536.7	436.1	380.3	55.85	7.809	
13,400.0	11,775.0	13,212.7	11,620.4	33.8	29.3	69.25	1,396.0	-538.0	436.1	379.6	56.52	7.717	
13,500.0	11,775.0	13,312.7	11,620.3	34.1	29.5	69.23	1,496.0	-539.3	436.2	378.9	57.21	7.623	
13,600.0	11,775.0	13,412.7	11,620.1	34.4	29.8	69.20	1,596.0	-540.6	436.2	378.2	57.94	7.528	
13,700.0	11,775.0	13,512.7	11,619.9	34.7	30.1	69.18	1,696.0	-541.9	436.2	377.5	58.70	7.430	
13,800.0	11,775.0	13,612.7	11,619.7	35.0	30.4	69.15	1,796.0	-543.2	436.2	376.7	59.49	7.332	
13,900.0	11,775.0	13,712.7	11,619.6	35.3	30.8	69.13	1,896.0	-544.4	436.2	375.9	60.31	7.232	
14,000.0	11,775.0	13,812.7	11,619.4	35.6	31.1	69.11	1,996.0	-545.7	436.2	375.1	61.16	7.133	
14,100.0	11,775.0	13,912.7	11,619.2	36.0	31.5	69.08	2,096.0	-547.0	436.2	374.2	62.03	7.032	
14,200.0	11,775.0	14,012.7	11,619.0	36.4	31.9	69.06	2,196.0	-548.3	436.3	373.3	62.93	6.932	
14,300.0	11,775.0	14,112.7	11,618.9	36.7	32.3	69.04	2,296.0	-549.6	436.3	372.4	63.85	6.832	
14,400.0	11,775.0	14,212.7	11,618.7	37.1	32.7	69.01	2,396.0	-550.9	436.3	371.5	64.80	6.733	
14,500.0	11,775.0	14,312.7	11,618.5	37.5	33.1	68.99	2,495.9	-552.2	436.3	370.5	65.77	6.634	
14,600.0	11,775.0	14,412.7	11,618.3	37.9	33.5	68.96	2,595.9	-553.4	436.3	369.6	66.76	6.536	
14,700.0	11,775.0	14,512.7	11,618.2	38.4	34.0	68.94	2,695.9	-554.7	436.3	368.6	67.77	6.439	
14,800.0	11,775.0	14,612.7	11,618.0	38.8	34.4	68.92	2,795.9	-556.0	436.3	367.5	68.80	6.343	
14,900.0	11,775.0	14,712.7	11,617.8	39.2	34.9	68.89	2,895.9	-557.3	436.4	366.5	69.84	6.248	
15,000.0	11,775.0	14,812.7	11,617.7	39.7	35.4	68.87	2,995.9	-558.6	436.4	365.5	70.91	6.154	
15,100.0	11,775.0	14,912.7	11,617.5	40.1	35.9	68.85	3,095.9	-559.9	436.4	364.4	71.99	6.062	
15,200.0	11,775.0	15,012.7	11,617.3	40.6	36.4	68.82	3,195.9	-561.1	436.4	363.3	73.09	5.971	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11094-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	
15,300.0	11,775.0	15,112.7	11,617.1	41.1	36.9	68.80	3,295.9	-562.4	436.4	362.2	74.20	5.881	
15,400.0	11,775.0	15,212.7	11,617.0	41.6	37.4	68.77	3,395.9	-563.7	436.4	361.1	75.33	5.793	
15,500.0	11,775.0	15,312.7	11,616.8	42.1	37.9	68.75	3,495.9	-565.0	436.4	360.0	76.47	5.707	
15,600.0	11,775.0	15,412.7	11,616.6	42.6	38.5	68.73	3,595.8	-566.3	436.5	358.8	77.63	5.622	
15,700.0	11,775.0	15,512.7	11,616.4	43.1	39.0	68.70	3,695.8	-567.6	436.5	357.7	78.80	5.539	
15,800.0	11,775.0	15,612.7	11,616.3	43.6	39.6	68.68	3,795.8	-568.8	436.5	356.5	79.98	5.457	
15,900.0	11,775.0	15,712.7	11,616.1	44.1	40.2	68.65	3,895.8	-570.1	436.5	355.3	81.18	5.377	
16,000.0	11,775.0	15,812.7	11,615.9	44.7	40.7	68.63	3,995.8	-571.4	436.5	354.1	82.38	5.299	
16,100.0	11,775.0	15,912.7	11,615.7	45.2	41.3	68.61	4,095.8	-572.7	436.5	352.9	83.60	5.222	
16,200.0	11,775.0	16,012.7	11,615.6	45.7	41.9	68.58	4,195.8	-574.0	436.6	351.7	84.82	5.147	
16,300.0	11,775.0	16,112.7	11,615.4	46.3	42.5	68.56	4,295.8	-575.3	436.6	350.5	86.06	5.073	
16,400.0	11,775.0	16,212.7	11,615.2	46.9	43.1	68.54	4,395.8	-576.6	436.6	349.3	87.30	5.001	
16,500.0	11,775.0	16,312.7	11,615.0	47.4	43.7	68.51	4,495.8	-577.8	436.6	348.0	88.56	4.930	
16,600.0	11,775.0	16,412.7	11,614.9	48.0	44.3	68.49	4,595.8	-579.1	436.6	346.8	89.82	4.861	
16,700.0	11,775.0	16,512.7	11,614.7	48.6	44.9	68.46	4,695.8	-580.4	436.6	345.5	91.09	4.793	
16,800.0	11,775.0	16,612.7	11,614.5	49.1	45.5	68.44	4,795.7	-581.7	436.7	344.3	92.37	4.727	
16,900.0	11,775.0	16,712.7	11,614.3	49.7	46.2	68.42	4,895.7	-583.0	436.7	343.0	93.66	4.662	
17,000.0	11,775.0	16,812.7	11,614.2	50.3	46.8	68.39	4,995.7	-584.3	436.7	341.7	94.95	4.599	
17,100.0	11,775.0	16,912.7	11,614.0	50.9	47.4	68.37	5,095.7	-585.5	436.7	340.4	96.25	4.537	
17,200.0	11,775.0	17,012.7	11,613.8	51.5	48.1	68.35	5,195.7	-586.8	436.7	339.2	97.56	4.476	
17,300.0	11,775.0	17,112.7	11,613.7	52.1	48.7	68.32	5,295.7	-588.1	436.7	337.9	98.88	4.417	
17,400.0	11,775.0	17,212.7	11,613.5	52.7	49.4	68.30	5,395.7	-589.4	436.7	336.5	100.20	4.359	
17,500.0	11,775.0	17,312.7	11,613.3	53.3	50.0	68.27	5,495.7	-590.7	436.8	335.2	101.53	4.302	
17,600.0	11,775.0	17,412.7	11,613.1	54.0	50.7	68.25	5,595.7	-592.0	436.8	333.9	102.86	4.246	
17,700.0	11,775.0	17,512.7	11,613.0	54.6	51.3	68.23	5,695.7	-593.2	436.8	332.6	104.20	4.192	
17,800.0	11,775.0	17,612.7	11,612.8	55.2	52.0	68.20	5,795.7	-594.5	436.8	331.3	105.54	4.139	
17,900.0	11,775.0	17,712.7	11,612.6	55.8	52.7	68.18	5,895.7	-595.8	436.8	329.9	106.89	4.087	
18,000.0	11,775.0	17,812.7	11,612.4	56.5	53.3	68.16	5,995.6	-597.1	436.9	328.6	108.25	4.036	
18,100.0	11,775.0	17,912.7	11,612.3	57.1	54.0	68.13	6,095.6	-598.4	436.9	327.3	109.61	3.986	
18,200.0	11,775.0	18,012.7	11,612.1	57.7	54.7	68.11	6,195.6	-599.7	436.9	325.9	110.97	3.937	
18,300.0	11,775.0	18,112.7	11,611.9	58.4	55.4	68.08	6,295.6	-601.0	436.9	324.6	112.34	3.889	
18,400.0	11,775.0	18,212.7	11,611.7	59.0	56.0	68.06	6,395.6	-602.2	436.9	323.2	113.71	3.842	
18,500.0	11,775.0	18,312.7	11,611.6	59.7	56.7	68.04	6,495.6	-603.5	436.9	321.8	115.09	3.797	
18,600.0	11,775.0	18,412.7	11,611.4	60.3	57.4	68.01	6,595.6	-604.8	437.0	320.5	116.47	3.752	
18,700.0	11,775.0	18,512.7	11,611.2	61.0	58.1	67.99	6,695.6	-606.1	437.0	319.1	117.85	3.708	
18,800.0	11,775.0	18,612.7	11,611.0	61.6	58.8	67.97	6,795.6	-607.4	437.0	317.7	119.24	3.665	
18,900.0	11,775.0	18,712.7	11,610.9	62.3	59.5	67.94	6,895.6	-608.7	437.0	316.4	120.63	3.623	
19,000.0	11,775.0	18,812.7	11,610.7	63.0	60.2	67.92	6,995.6	-609.9	437.0	315.0	122.03	3.581	
19,100.0	11,775.0	18,912.7	11,610.5	63.6	60.9	67.90	7,095.5	-611.2	437.0	313.6	123.43	3.541	
19,200.0	11,775.0	19,012.7	11,610.3	64.3	61.6	67.87	7,195.5	-612.5	437.1	312.2	124.83	3.501	
19,300.0	11,775.0	19,112.7	11,610.2	65.0	62.3	67.85	7,295.5	-613.8	437.1	310.8	126.24	3.462	
19,400.0	11,775.0	19,212.7	11,610.0	65.6	63.0	67.82	7,395.5	-615.1	437.1	309.5	127.64	3.424	
19,500.0	11,775.0	19,312.7	11,609.8	66.3	63.7	67.80	7,495.5	-616.4	437.1	308.1	129.06	3.387	
19,600.0	11,775.0	19,412.7	11,609.7	67.0	64.4	67.78	7,595.5	-617.6	437.1	306.7	130.47	3.350	
19,700.0	11,775.0	19,512.7	11,609.5	67.7	65.1	67.75	7,695.5	-618.9	437.2	305.3	131.89	3.315	
19,800.0	11,775.0	19,612.7	11,609.3	68.3	65.8	67.73	7,795.5	-620.2	437.2	303.9	133.31	3.279	
19,900.0	11,775.0	19,712.7	11,609.1	69.0	66.5	67.71	7,895.5	-621.5	437.2	302.5	134.73	3.245	
20,000.0	11,775.0	19,812.7	11,609.0	69.7	67.2	67.68	7,995.5	-622.8	437.2	301.1	136.15	3.211	
20,100.0	11,775.0	19,912.7	11,608.8	70.4	67.9	67.66	8,095.5	-624.1	437.2	299.6	137.58	3.178	
20,200.0	11,775.0	20,012.7	11,608.6	71.1	68.6	67.63	8,195.5	-625.4	437.2	298.2	139.01	3.145	
20,300.0	11,775.0	20,112.7	11,608.4	71.8	69.3	67.61	8,295.4	-626.6	437.3	296.8	140.44	3.113	
20,400.0	11,775.0	20,212.7	11,608.3	72.5	70.0	67.59	8,395.4	-627.9	437.3	295.4	141.88	3.082	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11094-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)			
20,500.0	11,775.0	20,312.7	11,608.1	73.1	70.8	67.56	8,495.4	-629.2	437.3	294.0	143.31	3.051	
20,600.0	11,775.0	20,412.7	11,607.9	73.8	71.5	67.54	8,595.4	-630.5	437.3	292.6	144.75	3.021	
20,700.0	11,775.0	20,512.7	11,607.7	74.5	72.2	67.52	8,695.4	-631.8	437.3	291.1	146.19	2.992	
20,800.0	11,775.0	20,612.7	11,607.6	75.2	72.9	67.49	8,795.4	-633.1	437.4	289.7	147.63	2.962	
20,900.0	11,775.0	20,712.7	11,607.4	75.9	73.6	67.47	8,895.4	-634.3	437.4	288.3	149.08	2.934	
21,000.0	11,775.0	20,812.7	11,607.2	76.6	74.4	67.44	8,995.4	-635.6	437.4	286.9	150.52	2.906	
21,100.0	11,775.0	20,912.7	11,607.0	77.3	75.1	67.42	9,095.4	-636.9	437.4	285.4	151.97	2.878	
21,200.0	11,775.0	21,012.7	11,606.9	78.0	75.8	67.40	9,195.4	-638.2	437.4	284.0	153.42	2.851	
21,300.0	11,775.0	21,112.7	11,606.7	78.7	76.5	67.37	9,295.4	-639.5	437.5	282.6	154.87	2.825	
21,400.0	11,775.0	21,212.7	11,606.5	79.4	77.2	67.35	9,395.4	-640.8	437.5	281.1	156.33	2.798	
21,500.0	11,775.0	21,312.7	11,606.3	80.1	78.0	67.33	9,495.3	-642.0	437.5	279.7	157.78	2.773	
21,600.0	11,775.0	21,412.7	11,606.2	80.8	78.7	67.30	9,595.3	-643.3	437.5	278.3	159.24	2.748	
21,700.0	11,775.0	21,512.7	11,606.0	81.5	79.4	67.28	9,695.3	-644.6	437.5	276.8	160.69	2.723	
21,800.0	11,775.0	21,612.7	11,605.8	82.2	80.1	67.26	9,795.3	-645.9	437.6	275.4	162.15	2.698	
21,900.0	11,775.0	21,712.7	11,605.6	83.0	80.9	67.23	9,895.3	-647.2	437.6	274.0	163.61	2.674	
22,000.0	11,775.0	21,812.7	11,605.5	83.7	81.6	67.21	9,995.3	-648.5	437.6	272.5	165.08	2.651	
22,100.0	11,775.0	21,912.7	11,605.3	84.4	82.3	67.18	10,095.3	-649.8	437.6	271.1	166.54	2.628	
22,200.0	11,775.0	22,012.7	11,605.1	85.1	83.1	67.16	10,195.3	-651.0	437.6	269.6	168.01	2.605	
22,300.0	11,775.0	22,112.7	11,605.0	85.8	83.8	67.14	10,295.3	-652.3	437.7	268.2	169.47	2.582	
22,400.0	11,775.0	22,212.7	11,604.8	86.5	84.5	67.11	10,395.3	-653.6	437.7	266.7	170.94	2.560	
22,500.0	11,775.0	22,312.7	11,604.6	87.2	85.3	67.09	10,495.3	-654.9	437.7	265.3	172.41	2.539	
22,600.0	11,775.0	22,412.7	11,604.4	87.9	86.0	67.07	10,595.2	-656.2	437.7	263.8	173.88	2.517	
22,700.0	11,775.0	22,512.7	11,604.3	88.7	86.7	67.04	10,695.2	-657.5	437.7	262.4	175.35	2.496	
22,800.0	11,775.0	22,612.7	11,604.1	89.4	87.4	67.02	10,795.2	-658.7	437.8	260.9	176.82	2.476	
22,900.0	11,775.0	22,712.7	11,603.9	90.1	88.2	67.00	10,895.2	-660.0	437.8	259.5	178.29	2.455	
23,000.0	11,775.0	22,812.7	11,603.7	90.8	88.9	66.97	10,995.2	-661.3	437.8	258.0	179.77	2.435	
23,100.0	11,775.0	22,912.7	11,603.6	91.5	89.7	66.95	11,095.2	-662.6	437.8	256.6	181.25	2.416	
23,200.0	11,775.0	23,012.7	11,603.4	92.2	90.4	66.92	11,195.2	-663.9	437.8	255.1	182.72	2.396	
23,300.0	11,775.0	23,112.7	11,603.2	93.0	91.1	66.90	11,295.2	-665.2	437.9	253.7	184.20	2.377	
23,400.0	11,775.0	23,212.7	11,603.0	93.7	91.9	66.88	11,395.2	-666.4	437.9	252.2	185.68	2.358	
23,500.0	11,775.0	23,312.7	11,602.9	94.4	92.6	66.85	11,495.2	-667.7	437.9	250.7	187.16	2.340	
23,600.0	11,775.0	23,412.7	11,602.7	95.1	93.3	66.83	11,595.2	-669.0	437.9	249.3	188.64	2.321	
23,700.0	11,775.0	23,512.7	11,602.5	95.9	94.1	66.81	11,695.2	-670.3	437.9	247.8	190.12	2.304	
23,800.0	11,775.0	23,612.7	11,602.3	96.6	94.8	66.78	11,795.1	-671.6	438.0	246.4	191.60	2.286	
23,900.0	11,775.0	23,712.7	11,602.2	97.3	95.5	66.76	11,895.1	-672.9	438.0	244.9	193.09	2.268	
24,000.0	11,775.0	23,812.7	11,602.0	98.0	96.3	66.74	11,995.1	-674.2	438.0	243.4	194.57	2.251	
24,100.0	11,775.0	23,912.7	11,601.8	98.8	97.0	66.71	12,095.1	-675.4	438.0	242.0	196.06	2.234	
24,200.0	11,775.0	24,012.7	11,601.6	99.5	97.8	66.69	12,195.1	-676.7	438.1	240.5	197.54	2.218	
24,300.0	11,775.0	24,112.7	11,601.5	100.2	98.5	66.66	12,295.1	-678.0	438.1	239.0	199.03	2.201	
24,400.0	11,775.0	24,212.7	11,601.3	100.9	99.2	66.64	12,395.1	-679.3	438.1	237.6	200.52	2.185	
24,500.0	11,775.0	24,312.7	11,601.1	101.7	100.0	66.62	12,495.1	-680.6	438.1	236.1	202.00	2.169	
24,600.0	11,775.0	24,412.7	11,601.0	102.4	100.7	66.59	12,595.1	-681.9	438.1	234.6	203.49	2.153	
24,700.0	11,775.0	24,512.7	11,600.8	103.1	101.5	66.57	12,695.1	-683.1	438.2	233.2	204.98	2.138	
24,800.0	11,775.0	24,612.7	11,600.6	103.9	102.2	66.55	12,795.1	-684.4	438.2	231.7	206.47	2.122	
24,803.7	11,775.0	24,614.3	11,600.6	103.9	102.2	66.55	12,796.7	-684.4	438.2	231.7	206.48	2.122	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11231-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.3	0.0	3.0	3.0	89.37	0.7	59.8	59.8				
100.0	100.0	100.3	100.0	3.0	3.0	89.37	0.7	59.8	59.8	53.8	6.05	9.885	
200.0	200.0	200.3	200.0	3.2	3.2	89.37	0.7	59.8	59.8	53.5	6.30	9.501	
300.0	300.0	300.3	300.0	3.3	3.3	89.37	0.7	59.8	59.8	53.3	6.53	9.158	
400.0	400.0	400.3	400.0	3.4	3.4	89.37	0.7	59.8	59.8	53.1	6.76	8.849	
500.0	500.0	500.3	500.0	3.5	3.5	89.37	0.7	59.8	59.8	52.8	6.98	8.570	
600.0	600.0	600.3	600.0	3.6	3.6	89.37	0.7	59.8	59.8	52.6	7.19	8.316	
700.0	700.0	700.3	700.0	3.8	3.8	89.37	0.7	59.8	59.8	52.4	7.40	8.083	
800.0	800.0	800.3	800.0	3.9	3.9	89.37	0.7	59.8	59.8	52.2	7.60	7.869	
900.0	900.0	900.3	900.0	4.0	4.0	89.37	0.7	59.8	59.8	52.0	7.80	7.671	
1,000.0	1,000.0	1,000.3	1,000.0	4.1	4.1	89.37	0.7	59.8	59.8	51.8	7.99	7.487	
1,100.0	1,100.0	1,101.1	1,100.8	4.2	4.3	90.96	-1.0	59.1	59.1	51.0	8.19	7.219	
1,200.0	1,200.0	1,201.6	1,201.2	4.4	4.6	95.89	-5.9	57.1	57.4	48.9	8.47	6.778	
1,300.0	1,300.0	1,301.7	1,300.8	4.5	5.0	104.60	-14.0	53.7	55.5	46.8	8.74	6.353	
1,366.6	1,366.6	1,368.0	1,366.6	4.6	5.2	112.60	-21.1	50.8	55.0	46.0	8.94	6.152 CC, ES	
1,400.0	1,400.0	1,401.0	1,399.4	4.6	5.3	117.20	-25.2	49.1	55.2	46.1	9.05	6.095	
1,500.0	1,500.0	1,500.0	1,497.4	4.7	5.5	130.92	-37.9	43.8	58.0	48.5	9.46	6.127	
1,600.0	1,600.0	1,599.2	1,595.6	4.8	5.8	-105.23	-50.7	38.5	64.1	54.2	9.91	6.468	
1,700.0	1,699.9	1,698.5	1,694.0	5.0	6.1	-98.48	-63.4	33.1	72.4	62.0	10.39	6.967	
1,800.0	1,799.7	1,798.0	1,792.5	5.2	6.4	-94.95	-76.2	27.8	81.7	70.9	10.84	7.537	
1,900.0	1,899.3	1,897.5	1,891.0	5.4	6.7	-93.76	-89.0	22.5	91.3	80.1	11.25	8.121	
2,000.0	1,998.6	1,997.0	1,989.6	5.6	7.0	-94.26	-101.8	17.2	101.2	89.6	11.62	8.705	
2,100.0	2,097.5	2,096.4	2,088.0	5.9	7.4	-95.98	-114.6	11.9	111.3	99.3	11.97	9.299	
2,200.0	2,196.1	2,195.7	2,186.3	6.2	7.7	-98.61	-127.3	6.5	121.8	109.6	12.28	9.921	
2,300.0	2,294.3	2,294.8	2,284.5	6.5	8.1	-101.75	-140.0	1.2	133.0	120.5	12.52	10.629	
2,400.0	2,392.4	2,393.9	2,382.6	6.8	8.5	-104.51	-152.8	-4.1	144.6	131.8	12.84	11.268	
2,500.0	2,490.6	2,493.0	2,480.8	7.2	8.8	-106.85	-165.5	-9.4	156.5	143.3	13.17	11.883	
2,600.0	2,588.8	2,592.1	2,578.9	7.5	9.2	-108.86	-178.2	-14.7	168.6	155.1	13.52	12.469	
2,700.0	2,686.9	2,691.2	2,677.1	7.9	9.6	-110.60	-191.0	-20.0	180.9	167.0	13.89	13.025	
2,800.0	2,785.1	2,790.3	2,775.2	8.3	10.0	-112.11	-203.7	-25.3	193.3	179.0	14.26	13.550	
2,900.0	2,883.3	2,889.4	2,873.3	8.6	10.4	-113.45	-216.5	-30.6	205.8	191.1	14.65	14.044	
3,000.0	2,981.4	2,988.5	2,971.5	9.0	10.7	-114.63	-229.2	-35.9	218.4	203.4	15.05	14.509	
3,100.0	3,079.6	3,087.6	3,069.6	9.4	11.1	-115.68	-241.9	-41.2	231.1	215.7	15.47	14.945	
3,200.0	3,177.7	3,186.7	3,167.8	9.8	11.5	-116.62	-254.7	-46.5	243.9	228.0	15.88	15.355	
3,300.0	3,275.9	3,285.9	3,265.9	10.3	11.9	-117.47	-267.4	-51.8	256.7	240.4	16.31	15.739	
3,400.0	3,374.1	3,385.0	3,364.0	10.7	12.3	-118.24	-280.1	-57.1	269.6	252.9	16.75	16.101	
3,500.0	3,472.2	3,484.1	3,462.2	11.1	12.7	-118.93	-292.9	-62.4	282.6	265.4	17.19	16.440	
3,600.0	3,570.4	3,583.2	3,560.3	11.5	13.1	-119.57	-305.6	-67.7	295.5	277.9	17.63	16.759	
3,700.0	3,668.6	3,682.3	3,658.5	11.9	13.5	-120.15	-318.3	-73.0	308.5	290.4	18.08	17.060	
3,800.0	3,766.7	3,781.4	3,756.6	12.4	14.0	-120.69	-331.1	-78.3	321.6	303.0	18.54	17.343	
3,900.0	3,864.9	3,881.2	3,855.5	12.8	14.3	-121.23	-343.6	-83.5	334.5	315.6	18.97	17.633	
4,000.0	3,963.0	3,981.5	3,955.1	13.2	14.7	-122.00	-354.8	-88.1	347.2	327.8	19.44	17.865	
4,100.0	4,061.2	4,081.8	4,054.8	13.7	15.1	-122.98	-364.4	-92.1	359.7	339.8	19.91	18.062	
4,200.0	4,159.4	4,181.9	4,154.6	14.1	15.5	-124.16	-372.3	-95.4	371.9	351.5	20.40	18.232	
4,300.0	4,257.5	4,281.8	4,254.2	14.6	15.9	-125.53	-378.6	-98.1	384.0	363.1	20.90	18.376	
4,400.0	4,355.7	4,381.4	4,353.7	15.0	16.2	-127.05	-383.3	-100.0	396.1	374.7	21.42	18.497	
4,500.0	4,453.9	4,480.7	4,452.9	15.4	16.5	-128.72	-386.4	-101.3	408.3	386.4	21.96	18.595	
4,600.0	4,552.0	4,579.6	4,551.8	15.9	16.8	-130.52	-388.0	-101.9	420.7	398.2	22.53	18.673	
4,700.0	4,650.2	4,678.0	4,650.2	16.3	16.8	-132.40	-388.1	-102.0	433.5	410.4	23.07	18.788	
4,800.0	4,748.3	4,776.1	4,748.3	16.8	16.9	-134.19	-388.1	-102.0	446.7	423.1	23.65	18.893	
4,900.0	4,846.5	4,874.3	4,846.5	17.2	16.9	-135.88	-388.1	-102.0	460.4	436.1	24.24	18.990	
5,000.0	4,944.7	4,972.5	4,944.7	17.7	16.9	-137.47	-388.1	-102.0	474.4	449.5	24.85	19.087	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11231-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	
5,100.0	5,042.8	5,070.6	5,042.8	18.1	17.0	-138.97	-388.1	-102.0	488.7	463.2	25.48	19.183	
5,200.0	5,141.0	5,168.8	5,141.0	18.6	17.0	-140.39	-388.1	-102.0	503.4	477.3	26.11	19.281	
5,300.0	5,239.2	5,267.0	5,239.2	19.0	17.0	-141.72	-388.1	-102.0	518.3	491.6	26.74	19.381	
5,400.0	5,337.3	5,365.1	5,337.3	19.5	17.1	-142.98	-388.1	-102.0	533.5	506.2	27.38	19.484	
5,500.0	5,435.5	5,463.3	5,435.5	19.9	17.1	-144.18	-388.1	-102.0	549.0	521.0	28.03	19.589	
5,600.0	5,533.6	5,561.4	5,533.6	20.4	17.1	-145.30	-388.1	-102.0	564.7	536.0	28.67	19.697	
5,700.0	5,631.8	5,659.6	5,631.8	20.8	17.2	-146.37	-388.1	-102.0	580.5	551.2	29.31	19.808	
5,800.0	5,730.0	5,757.8	5,730.0	21.3	17.2	-147.38	-388.1	-102.0	596.6	566.7	29.95	19.921	
5,900.0	5,828.1	5,855.9	5,828.1	21.7	17.2	-148.33	-388.1	-102.0	612.9	582.3	30.59	20.037	
6,000.0	5,926.3	5,954.1	5,926.3	22.2	17.3	-149.24	-388.1	-102.0	629.3	598.0	31.22	20.154	
6,100.0	6,024.5	6,052.3	6,024.5	22.6	17.3	-150.12	-388.1	-102.0	645.6	613.7	31.84	20.278	
6,200.0	6,122.9	6,150.7	6,122.9	23.1	17.3	-150.94	-388.1	-102.0	661.3	628.8	32.45	20.379	
6,300.0	6,221.4	6,249.2	6,221.4	23.5	17.4	-151.68	-388.1	-102.0	676.4	643.3	33.05	20.465	
6,400.0	6,320.1	6,347.9	6,320.1	24.0	17.4	-152.35	-388.1	-102.0	690.8	657.1	33.64	20.537	
6,500.0	6,418.9	6,446.7	6,418.9	24.4	17.4	-152.96	-388.1	-102.0	704.5	670.3	34.21	20.594	
6,600.0	6,517.8	6,545.6	6,517.8	24.9	17.5	-153.51	-388.1	-102.0	717.5	682.7	34.77	20.638	
6,700.0	6,616.9	6,644.7	6,616.9	25.3	17.5	-154.02	-388.1	-102.0	729.8	694.5	35.31	20.667	
6,800.0	6,716.1	6,743.8	6,716.1	25.7	17.5	-154.48	-388.1	-102.0	741.3	705.5	35.84	20.683	
6,900.0	6,815.3	6,843.1	6,815.3	26.1	17.6	-154.89	-388.1	-102.0	752.2	715.8	36.36	20.685	
7,000.0	6,914.7	6,942.5	6,914.7	26.5	17.6	-155.27	-388.1	-102.0	762.2	725.3	36.87	20.674	
7,100.0	7,014.2	7,042.0	7,014.2	26.9	17.7	-155.60	-388.1	-102.0	771.5	734.2	37.36	20.650	
7,200.0	7,113.8	7,141.6	7,113.8	27.3	17.7	-155.90	-388.1	-102.0	780.0	742.2	37.84	20.614	
7,300.0	7,213.4	7,241.2	7,213.4	27.7	17.7	-156.17	-388.1	-102.0	787.8	749.5	38.30	20.567	
7,400.0	7,313.1	7,340.9	7,313.1	28.1	17.8	-156.41	-388.1	-102.0	794.7	756.0	38.75	20.507	
7,500.0	7,412.9	7,440.7	7,412.9	28.4	17.8	-156.61	-388.1	-102.0	800.9	761.7	39.19	20.437	
7,600.0	7,512.7	7,540.5	7,512.7	28.8	17.9	-156.79	-388.1	-102.0	806.3	766.7	39.61	20.357	
7,700.0	7,612.6	7,640.4	7,612.6	29.1	17.9	-156.94	-388.1	-102.0	810.9	770.9	40.01	20.267	
7,800.0	7,712.5	7,740.3	7,712.5	29.5	17.9	-157.06	-388.1	-102.0	814.7	774.3	40.39	20.169	
7,900.0	7,812.4	7,840.2	7,812.4	29.8	18.0	-157.15	-388.1	-102.0	817.7	776.9	40.76	20.063	
8,000.0	7,912.4	7,940.2	7,912.4	30.1	18.0	-157.22	-388.1	-102.0	819.9	778.8	41.09	19.951	
8,100.0	8,012.4	8,040.2	8,012.4	30.3	18.1	-157.26	-388.1	-102.0	821.3	779.9	41.40	19.837	
8,200.0	8,112.4	8,140.2	8,112.4	30.5	18.1	-157.28	-388.1	-102.0	821.8	780.2	41.65	19.731	
8,300.0	8,212.4	8,240.2	8,212.4	30.6	18.1	89.72	-388.1	-102.0	821.9	780.1	41.73	19.694	
8,400.0	8,312.4	8,340.2	8,312.4	30.6	18.2	89.72	-388.1	-102.0	821.9	780.1	41.81	19.659	
8,500.0	8,412.4	8,440.2	8,412.4	30.6	18.2	89.72	-388.1	-102.0	821.9	780.0	41.88	19.623	
8,600.0	8,512.4	8,540.2	8,512.4	30.6	18.3	89.72	-388.1	-102.0	821.9	779.9	41.96	19.588	
8,700.0	8,612.4	8,640.2	8,612.4	30.6	18.3	89.72	-388.1	-102.0	821.9	779.8	42.03	19.553	
8,800.0	8,712.4	8,740.2	8,712.4	30.7	18.3	89.72	-388.1	-102.0	821.9	779.7	42.11	19.517	
8,900.0	8,812.4	8,840.2	8,812.4	30.7	18.4	89.72	-388.1	-102.0	821.9	779.7	42.19	19.482	
9,000.0	8,912.4	8,940.2	8,912.4	30.7	18.4	89.72	-388.1	-102.0	821.9	779.6	42.26	19.446	
9,100.0	9,012.4	9,040.2	9,012.4	30.7	18.5	89.72	-388.1	-102.0	821.9	779.5	42.34	19.410	
9,200.0	9,112.4	9,140.2	9,112.4	30.7	18.5	89.72	-388.1	-102.0	821.9	779.4	42.42	19.374	
9,300.0	9,212.4	9,240.2	9,212.4	30.8	18.6	89.72	-388.1	-102.0	821.9	779.4	42.50	19.338	
9,400.0	9,312.4	9,340.2	9,312.4	30.8	18.6	89.72	-388.1	-102.0	821.9	779.3	42.58	19.303	
9,500.0	9,412.4	9,440.2	9,412.4	30.8	18.7	89.72	-388.1	-102.0	821.9	779.2	42.66	19.266	
9,600.0	9,512.4	9,540.2	9,512.4	30.8	18.7	89.72	-388.1	-102.0	821.9	779.1	42.74	19.230	
9,700.0	9,612.4	9,640.2	9,612.4	30.8	18.7	89.72	-388.1	-102.0	821.9	779.0	42.82	19.194	
9,800.0	9,712.4	9,740.2	9,712.4	30.9	18.8	89.72	-388.1	-102.0	821.9	779.0	42.90	19.158	
9,900.0	9,812.4	9,840.2	9,812.4	30.9	18.8	89.72	-388.1	-102.0	821.9	778.9	42.98	19.122	
10,000.0	9,912.4	9,940.2	9,912.4	30.9	18.9	89.72	-388.1	-102.0	821.9	778.8	43.06	19.085	
10,100.0	10,012.4	10,040.2	10,012.4	30.9	18.9	89.72	-388.1	-102.0	821.9	778.7	43.14	19.049	
10,200.0	10,112.4	10,140.2	10,112.4	30.9	19.0	89.72	-388.1	-102.0	821.9	778.6	43.23	19.012	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11231-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	
10,300.0	10,212.4	10,240.2	10,212.4	31.0	19.0	89.72	-388.1	-102.0	821.9	778.5	43.31	18.976	
10,400.0	10,312.4	10,340.2	10,312.4	31.0	19.1	89.72	-388.1	-102.0	821.9	778.5	43.39	18.939	
10,500.0	10,412.4	10,440.2	10,412.4	31.0	19.1	89.72	-388.1	-102.0	821.9	778.4	43.48	18.903	
10,600.0	10,512.4	10,540.2	10,512.4	31.0	19.2	89.72	-388.1	-102.0	821.9	778.3	43.56	18.866	
10,700.0	10,612.4	10,640.2	10,612.4	31.1	19.2	89.72	-388.1	-102.0	821.9	778.2	43.65	18.829	
10,800.0	10,712.4	10,740.2	10,712.4	31.1	19.3	89.72	-388.1	-102.0	821.9	778.1	43.73	18.793	
10,900.0	10,812.4	10,840.2	10,812.4	31.1	19.3	89.72	-388.1	-102.0	821.9	778.0	43.82	18.756	
11,000.0	10,912.4	10,940.2	10,912.4	31.1	19.4	89.72	-388.1	-102.0	821.9	778.0	43.90	18.719	
11,100.0	11,012.4	11,040.2	11,012.4	31.2	19.4	89.72	-388.1	-102.0	821.9	777.9	43.99	18.682	
11,200.0	11,112.4	11,140.2	11,112.4	31.2	19.5	89.72	-388.1	-102.0	821.9	777.8	44.08	18.645	
11,300.0	11,212.4	11,240.3	11,212.5	31.2	19.5	90.43	-388.0	-102.0	821.9	777.7	44.14	18.618	
11,400.0	11,311.7	11,341.6	11,313.1	31.2	19.6	90.43	-377.4	-102.2	821.8	777.7	44.17	18.607	
11,500.0	11,407.7	11,442.9	11,410.2	31.2	19.7	90.41	-349.2	-102.5	821.8	777.6	44.18	18.600	
11,600.0	11,497.4	11,544.1	11,500.8	31.3	19.8	90.39	-304.5	-103.2	821.7	777.6	44.19	18.597	
11,700.0	11,578.2	11,645.1	11,582.1	31.3	20.0	90.35	-244.5	-104.0	821.7	777.5	44.19	18.593	
11,800.0	11,647.5	11,746.1	11,651.5	31.3	20.1	90.30	-171.4	-105.0	821.6	777.3	44.21	18.583	
11,900.0	11,703.3	11,846.9	11,706.9	31.4	20.2	90.25	-87.3	-106.1	821.4	777.2	44.26	18.561	
12,000.0	11,743.9	11,947.5	11,746.7	31.4	20.3	90.18	4.9	-107.4	821.3	777.0	44.34	18.523	
12,100.0	11,768.0	12,047.9	11,769.7	31.5	20.4	90.11	102.5	-108.7	821.2	776.7	44.47	18.465	
12,200.0	11,775.0	12,148.1	11,775.7	31.6	20.4	90.05	202.4	-110.1	821.0	776.4	44.66	18.385	
12,300.0	11,775.0	12,248.1	11,775.7	31.7	20.4	90.05	302.4	-111.5	820.9	776.0	44.92	18.273	
12,400.0	11,775.0	12,348.1	11,775.7	31.8	20.5	90.05	402.4	-112.8	820.8	775.5	45.25	18.139	
12,500.0	11,775.0	12,448.1	11,775.7	31.9	20.5	90.05	502.4	-114.2	820.6	775.0	45.63	17.986	
12,600.0	11,775.0	12,548.1	11,775.7	32.1	20.6	90.05	602.4	-115.6	820.5	774.4	46.05	17.816	
12,700.0	11,775.0	12,648.1	11,775.7	32.2	20.7	90.05	702.3	-116.9	820.4	773.8	46.53	17.630	
12,800.0	11,775.0	12,748.1	11,775.7	32.4	20.8	90.05	802.3	-118.3	820.2	773.2	47.06	17.430	
12,900.0	11,775.0	12,848.1	11,775.7	32.6	20.8	90.05	902.3	-119.7	820.1	772.5	47.63	17.218	
13,000.0	11,775.0	12,948.1	11,775.7	32.8	20.9	90.05	1,002.3	-121.0	820.0	771.7	48.25	16.995	
13,100.0	11,775.0	13,048.1	11,775.7	33.0	21.1	90.05	1,102.3	-122.4	819.8	770.9	48.90	16.764	
13,200.0	11,775.0	13,148.1	11,775.7	33.3	21.2	90.05	1,202.3	-123.8	819.7	770.1	49.60	16.526	
13,300.0	11,775.0	13,248.1	11,775.7	33.5	21.4	90.05	1,302.3	-125.1	819.5	769.2	50.33	16.283	
13,400.0	11,775.0	13,348.1	11,775.7	33.8	21.6	90.05	1,402.3	-126.5	819.4	768.3	51.10	16.035	
13,500.0	11,775.0	13,448.1	11,775.7	34.1	21.8	90.05	1,502.3	-127.9	819.3	767.4	51.90	15.785	
13,600.0	11,775.0	13,548.1	11,775.7	34.4	22.0	90.05	1,602.3	-129.2	819.1	766.4	52.74	15.533	
13,700.0	11,775.0	13,648.1	11,775.7	34.7	22.3	90.05	1,702.3	-130.6	819.0	765.4	53.60	15.280	
13,800.0	11,775.0	13,748.1	11,775.7	35.0	22.6	90.05	1,802.2	-132.0	818.9	764.4	54.49	15.027	
13,900.0	11,775.0	13,848.1	11,775.7	35.3	23.0	90.05	1,902.2	-133.4	818.7	763.3	55.41	14.776	
14,000.0	11,775.0	13,948.1	11,775.7	35.6	23.4	90.05	2,002.2	-134.7	818.6	762.2	56.36	14.526	
14,100.0	11,775.0	14,048.1	11,775.7	36.0	23.8	90.05	2,102.2	-136.1	818.5	761.1	57.32	14.278	
14,200.0	11,775.0	14,148.1	11,775.7	36.4	24.3	90.05	2,202.2	-137.5	818.3	760.0	58.31	14.033	
14,300.0	11,775.0	14,248.1	11,775.7	36.7	24.8	90.05	2,302.2	-138.8	818.2	758.9	59.33	13.791	
14,400.0	11,775.0	14,348.1	11,775.7	37.1	25.3	90.05	2,402.2	-140.2	818.1	757.7	60.36	13.553	
14,500.0	11,775.0	14,448.1	11,775.7	37.5	25.9	90.05	2,502.2	-141.6	817.9	756.5	61.41	13.318	
14,600.0	11,775.0	14,548.1	11,775.7	37.9	26.5	90.05	2,602.2	-142.9	817.8	755.3	62.49	13.087	
14,700.0	11,775.0	14,648.1	11,775.7	38.4	27.0	90.05	2,702.2	-144.3	817.7	754.1	63.58	12.861	
14,800.0	11,775.0	14,748.1	11,775.7	38.8	27.6	90.05	2,802.1	-145.7	817.5	752.8	64.68	12.639	
14,900.0	11,775.0	14,848.1	11,775.7	39.2	28.2	90.05	2,902.1	-147.0	817.4	751.6	65.80	12.422	
15,000.0	11,775.0	14,948.1	11,775.7	39.7	28.9	90.05	3,002.1	-148.4	817.2	750.3	66.94	12.209	
15,100.0	11,775.0	15,048.1	11,775.7	40.1	29.5	90.05	3,102.1	-149.8	817.1	749.0	68.09	12.000	
15,200.0	11,775.0	15,148.1	11,775.7	40.6	30.1	90.05	3,202.1	-151.1	817.0	747.7	69.26	11.796	
15,300.0	11,775.0	15,248.1	11,775.7	41.1	30.8	90.05	3,302.1	-152.5	816.8	746.4	70.43	11.597	
15,400.0	11,775.0	15,348.1	11,775.7	41.6	31.4	90.05	3,402.1	-153.9	816.7	745.1	71.62	11.403	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11231-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	
15,500.0	11,775.0	15,448.1	11,775.7	42.1	32.1	90.05	3,502.1	-155.2	816.6	743.7	72.83	11.213	
15,600.0	11,775.0	15,548.1	11,775.7	42.6	32.8	90.05	3,602.1	-156.6	816.4	742.4	74.04	11.027	
15,700.0	11,775.0	15,648.1	11,775.7	43.1	33.4	90.05	3,702.1	-158.0	816.3	741.0	75.26	10.846	
15,800.0	11,775.0	15,748.1	11,775.7	43.6	34.1	90.05	3,802.1	-159.3	816.2	739.7	76.50	10.669	
15,900.0	11,775.0	15,848.1	11,775.7	44.1	34.8	90.05	3,902.0	-160.7	816.0	738.3	77.74	10.497	
16,000.0	11,775.0	15,948.1	11,775.7	44.7	35.5	90.05	4,002.0	-162.1	815.9	736.9	79.00	10.328	
16,100.0	11,775.0	16,048.1	11,775.7	45.2	36.1	90.05	4,102.0	-163.5	815.8	735.5	80.26	10.164	
16,200.0	11,775.0	16,148.1	11,775.7	45.7	36.8	90.05	4,202.0	-164.8	815.6	734.1	81.53	10.004	
16,300.0	11,775.0	16,248.1	11,775.7	46.3	37.5	90.05	4,302.0	-166.2	815.5	732.7	82.81	9.848	
16,400.0	11,775.0	16,348.1	11,775.7	46.9	38.2	90.05	4,402.0	-167.6	815.3	731.3	84.10	9.695	
16,500.0	11,775.0	16,448.1	11,775.7	47.4	38.9	90.05	4,502.0	-168.9	815.2	729.8	85.39	9.547	
16,600.0	11,775.0	16,548.1	11,775.7	48.0	39.6	90.05	4,602.0	-170.3	815.1	728.4	86.69	9.402	
16,700.0	11,775.0	16,648.1	11,775.7	48.6	40.3	90.05	4,702.0	-171.7	814.9	726.9	88.00	9.261	
16,800.0	11,775.0	16,748.1	11,775.7	49.1	41.1	90.05	4,802.0	-173.0	814.8	725.5	89.32	9.123	
16,900.0	11,775.0	16,848.1	11,775.7	49.7	41.8	90.05	4,901.9	-174.4	814.7	724.0	90.64	8.988	
17,000.0	11,775.0	16,948.1	11,775.7	50.3	42.5	90.05	5,001.9	-175.8	814.5	722.6	91.97	8.857	
17,100.0	11,775.0	17,048.1	11,775.7	50.9	43.2	90.05	5,101.9	-177.1	814.4	721.1	93.30	8.729	
17,200.0	11,775.0	17,148.1	11,775.7	51.5	43.9	90.05	5,201.9	-178.5	814.3	719.6	94.64	8.604	
17,300.0	11,775.0	17,248.1	11,775.7	52.1	44.6	90.05	5,301.9	-179.9	814.1	718.1	95.98	8.482	
17,400.0	11,775.0	17,348.1	11,775.7	52.7	45.3	90.05	5,401.9	-181.2	814.0	716.7	97.33	8.363	
17,500.0	11,775.0	17,448.1	11,775.7	53.3	46.1	90.05	5,501.9	-182.6	813.9	715.2	98.69	8.247	
17,600.0	11,775.0	17,548.1	11,775.7	54.0	46.8	90.05	5,601.9	-184.0	813.7	713.7	100.05	8.134	
17,700.0	11,775.0	17,648.1	11,775.7	54.6	47.5	90.05	5,701.9	-185.3	813.6	712.2	101.41	8.023	
17,800.0	11,775.0	17,748.1	11,775.7	55.2	48.2	90.05	5,801.9	-186.7	813.5	710.7	102.78	7.915	
17,900.0	11,775.0	17,848.1	11,775.7	55.8	49.0	90.05	5,901.9	-188.1	813.3	709.2	104.15	7.809	
18,000.0	11,775.0	17,948.1	11,775.7	56.5	49.7	90.05	6,001.8	-189.4	813.2	707.7	105.53	7.706	
18,100.0	11,775.0	18,048.1	11,775.7	57.1	50.4	90.05	6,101.8	-190.8	813.0	706.1	106.91	7.605	
18,200.0	11,775.0	18,148.1	11,775.7	57.7	51.1	90.05	6,201.8	-192.2	812.9	704.6	108.29	7.507	
18,300.0	11,775.0	18,248.1	11,775.7	58.4	51.9	90.05	6,301.8	-193.6	812.8	703.1	109.68	7.410	
18,400.0	11,775.0	18,348.1	11,775.7	59.0	52.6	90.05	6,401.8	-194.9	812.6	701.6	111.07	7.316	
18,500.0	11,775.0	18,448.1	11,775.7	59.7	53.3	90.05	6,501.8	-196.3	812.5	700.0	112.47	7.224	
18,600.0	11,775.0	18,548.1	11,775.7	60.3	54.1	90.05	6,601.8	-197.7	812.4	698.5	113.87	7.135	
18,700.0	11,775.0	18,648.1	11,775.7	61.0	54.8	90.05	6,701.8	-199.0	812.2	697.0	115.27	7.047	
18,800.0	11,775.0	18,748.1	11,775.7	61.6	55.5	90.05	6,801.8	-200.4	812.1	695.4	116.67	6.961	
18,900.0	11,775.0	18,848.1	11,775.7	62.3	56.3	90.05	6,901.8	-201.8	812.0	693.9	118.08	6.876	
19,000.0	11,775.0	18,948.1	11,775.7	63.0	57.0	90.05	7,001.8	-203.1	811.8	692.3	119.49	6.794	
19,100.0	11,775.0	19,048.1	11,775.7	63.6	57.8	90.05	7,101.7	-204.5	811.7	690.8	120.90	6.714	
19,200.0	11,775.0	19,148.1	11,775.7	64.3	58.5	90.05	7,201.7	-205.9	811.6	689.2	122.32	6.635	
19,300.0	11,775.0	19,248.1	11,775.7	65.0	59.2	90.05	7,301.7	-207.2	811.4	687.7	123.74	6.558	
19,400.0	11,775.0	19,348.1	11,775.7	65.6	60.0	90.05	7,401.7	-208.6	811.3	686.1	125.16	6.482	
19,500.0	11,775.0	19,448.1	11,775.7	66.3	60.7	90.05	7,501.7	-210.0	811.2	684.6	126.58	6.408	
19,600.0	11,775.0	19,548.1	11,775.7	67.0	61.5	90.05	7,601.7	-211.3	811.0	683.0	128.01	6.336	
19,700.0	11,775.0	19,648.1	11,775.7	67.7	62.2	90.05	7,701.7	-212.7	810.9	681.4	129.43	6.265	
19,800.0	11,775.0	19,748.1	11,775.7	68.3	62.9	90.05	7,801.7	-214.1	810.7	679.9	130.86	6.195	
19,900.0	11,775.0	19,848.1	11,775.7	69.0	63.7	90.05	7,901.7	-215.4	810.6	678.3	132.30	6.127	
20,000.0	11,775.0	19,948.1	11,775.7	69.7	64.4	90.05	8,001.7	-216.8	810.5	676.7	133.73	6.061	
20,100.0	11,775.0	20,048.1	11,775.7	70.4	65.2	90.05	8,101.6	-218.2	810.3	675.2	135.17	5.995	
20,200.0	11,775.0	20,148.1	11,775.7	71.1	65.9	90.05	8,201.6	-219.5	810.2	673.6	136.60	5.931	
20,300.0	11,775.0	20,248.1	11,775.7	71.8	66.7	90.05	8,301.6	-220.9	810.1	672.0	138.04	5.868	
20,400.0	11,775.0	20,348.1	11,775.7	72.5	67.4	90.05	8,401.6	-222.3	809.9	670.4	139.49	5.807	
20,500.0	11,775.0	20,448.1	11,775.7	73.1	68.2	90.05	8,501.6	-223.7	809.8	668.9	140.93	5.746	
20,600.0	11,775.0	20,548.1	11,775.7	73.8	68.9	90.05	8,601.6	-225.0	809.7	667.3	142.38	5.687	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11231-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
20,700.0	11,775.0	20,648.1	11,775.7	74.5	69.6	90.05	8,701.6	-226.4	809.5	665.7	143.82	5.629	
20,800.0	11,775.0	20,748.1	11,775.7	75.2	70.4	90.05	8,801.6	-227.8	809.4	664.1	145.27	5.572	
20,900.0	11,775.0	20,848.1	11,775.7	75.9	71.1	90.05	8,901.6	-229.1	809.3	662.5	146.72	5.516	
21,000.0	11,775.0	20,948.1	11,775.7	76.6	71.9	90.05	9,001.6	-230.5	809.1	660.9	148.17	5.461	
21,100.0	11,775.0	21,048.1	11,775.7	77.3	72.6	90.05	9,101.6	-231.9	809.0	659.4	149.63	5.407	
21,200.0	11,775.0	21,148.1	11,775.7	78.0	73.4	90.05	9,201.5	-233.2	808.9	657.8	151.08	5.354	
21,300.0	11,775.0	21,248.1	11,775.7	78.7	74.1	90.05	9,301.5	-234.6	808.7	656.2	152.54	5.302	
21,400.0	11,775.0	21,348.1	11,775.7	79.4	74.9	90.05	9,401.5	-236.0	808.6	654.6	154.00	5.251	
21,500.0	11,775.0	21,448.1	11,775.7	80.1	75.6	90.05	9,501.5	-237.3	808.4	653.0	155.45	5.201	
21,600.0	11,775.0	21,548.1	11,775.7	80.8	76.4	90.05	9,601.5	-238.7	808.3	651.4	156.91	5.151	
21,700.0	11,775.0	21,648.1	11,775.7	81.5	77.1	90.05	9,701.5	-240.1	808.2	649.8	158.38	5.103	
21,800.0	11,775.0	21,748.1	11,775.7	82.2	77.9	90.05	9,801.5	-241.4	808.0	648.2	159.84	5.055	
21,900.0	11,775.0	21,848.1	11,775.7	83.0	78.6	90.05	9,901.5	-242.8	807.9	646.6	161.30	5.009	
22,000.0	11,775.0	21,948.1	11,775.7	83.7	79.4	90.05	10,001.5	-244.2	807.8	645.0	162.77	4.963	
22,100.0	11,775.0	22,048.1	11,775.7	84.4	80.1	90.05	10,101.5	-245.5	807.6	643.4	164.23	4.918	
22,200.0	11,775.0	22,148.1	11,775.7	85.1	80.9	90.05	10,201.4	-246.9	807.5	641.8	165.70	4.873	
22,300.0	11,775.0	22,248.1	11,775.7	85.8	81.6	90.05	10,301.4	-248.3	807.4	640.2	167.17	4.830	
22,400.0	11,775.0	22,348.1	11,775.7	86.5	82.4	90.05	10,401.4	-249.6	807.2	638.6	168.64	4.787	
22,500.0	11,775.0	22,448.1	11,775.7	87.2	83.1	90.05	10,501.4	-251.0	807.1	637.0	170.11	4.745	
22,600.0	11,775.0	22,548.1	11,775.7	87.9	83.9	90.05	10,601.4	-252.4	807.0	635.4	171.58	4.703	
22,700.0	11,775.0	22,648.1	11,775.7	88.7	84.6	90.05	10,701.4	-253.8	806.8	633.8	173.05	4.662	
22,800.0	11,775.0	22,748.1	11,775.7	89.4	85.4	90.05	10,801.4	-255.1	806.7	632.2	174.52	4.622	
22,900.0	11,775.0	22,848.1	11,775.7	90.1	86.1	90.05	10,901.4	-256.5	806.5	630.6	176.00	4.583	
23,000.0	11,775.0	22,948.1	11,775.7	90.8	86.9	90.05	11,001.4	-257.9	806.4	628.9	177.47	4.544	
23,100.0	11,775.0	23,048.1	11,775.7	91.5	87.7	90.05	11,101.4	-259.2	806.3	627.3	178.95	4.506	
23,200.0	11,775.0	23,148.1	11,775.7	92.2	88.4	90.05	11,201.4	-260.6	806.1	625.7	180.43	4.468	
23,300.0	11,775.0	23,248.1	11,775.7	93.0	89.2	90.05	11,301.3	-262.0	806.0	624.1	181.90	4.431	
23,400.0	11,775.0	23,348.1	11,775.7	93.7	89.9	90.05	11,401.3	-263.3	805.9	622.5	183.38	4.394	
23,500.0	11,775.0	23,448.1	11,775.7	94.4	90.7	90.05	11,501.3	-264.7	805.7	620.9	184.86	4.359	
23,600.0	11,775.0	23,548.1	11,775.7	95.1	91.4	90.05	11,601.3	-266.1	805.6	619.3	186.34	4.323	
23,700.0	11,775.0	23,648.1	11,775.7	95.9	92.2	90.05	11,701.3	-267.4	805.5	617.6	187.82	4.288	
23,800.0	11,775.0	23,748.1	11,775.7	96.6	92.9	90.05	11,801.3	-268.8	805.3	616.0	189.30	4.254	
23,900.0	11,775.0	23,848.1	11,775.7	97.3	93.7	90.05	11,901.3	-270.2	805.2	614.4	190.79	4.220	
24,000.0	11,775.0	23,948.1	11,775.7	98.0	94.4	90.05	12,001.3	-271.5	805.1	612.8	192.27	4.187	
24,100.0	11,775.0	24,048.1	11,775.7	98.8	95.2	90.05	12,101.3	-272.9	804.9	611.2	193.75	4.154	
24,200.0	11,775.0	24,148.1	11,775.7	99.5	96.0	90.05	12,201.3	-274.3	804.8	609.6	195.24	4.122	
24,300.0	11,775.0	24,248.1	11,775.7	100.2	96.7	90.05	12,301.2	-275.6	804.7	607.9	196.72	4.090	
24,400.0	11,775.0	24,348.1	11,775.7	100.9	97.5	90.05	12,401.2	-277.0	804.5	606.3	198.21	4.059	
24,500.0	11,775.0	24,448.1	11,775.7	101.7	98.2	90.05	12,501.2	-278.4	804.4	604.7	199.69	4.028	
24,600.0	11,775.0	24,548.1	11,775.7	102.4	99.0	90.05	12,601.2	-279.7	804.2	603.1	201.18	3.998	
24,700.0	11,775.0	24,648.1	11,775.7	103.1	99.7	90.05	12,701.2	-281.1	804.1	601.4	202.67	3.968	
24,798.2	11,775.0	24,746.3	11,775.7	103.8	100.5	90.05	12,799.4	-282.5	804.0	599.9	204.13	3.939	
24,800.0	11,775.0	24,746.9	11,775.7	103.9	100.5	90.05	12,800.0	-282.5	804.0	599.8	204.14	3.938 SF	
24,803.7	11,775.0	24,746.9	11,775.7	103.9	100.5	90.05	12,800.0	-282.5	804.0	599.9	204.13	3.939	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11080-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.7	0.0	3.0	3.0	89.28	1.1	89.9	89.9				
100.0	100.0	100.7	100.0	3.0	3.0	89.28	1.1	89.9	89.9	83.9	6.05	14.855	
200.0	200.0	200.7	200.0	3.2	3.2	89.28	1.1	89.9	89.9	83.6	6.30	14.277	
300.0	300.0	300.7	300.0	3.3	3.3	89.28	1.1	89.9	89.9	83.4	6.53	13.762	
400.0	400.0	400.7	400.0	3.4	3.4	89.28	1.1	89.9	89.9	83.1	6.76	13.299	
500.0	500.0	500.7	500.0	3.5	3.5	89.28	1.1	89.9	89.9	82.9	6.98	12.879	
600.0	600.0	600.7	600.0	3.6	3.6	89.28	1.1	89.9	89.9	82.7	7.19	12.497	
700.0	700.0	700.7	700.0	3.8	3.8	89.28	1.1	89.9	89.9	82.5	7.40	12.147	
800.0	800.0	800.7	800.0	3.9	3.9	89.28	1.1	89.9	89.9	82.3	7.60	11.825	
900.0	900.0	900.7	900.0	4.0	4.0	89.28	1.1	89.9	89.9	82.1	7.80	11.526	
916.4	916.4	917.1	916.4	4.0	4.0	89.28	1.1	89.9	89.9	82.1	7.85	11.458 CC	
1,000.0	1,000.0	1,000.0	999.3	4.1	4.2	89.28	1.1	89.9	89.9	81.8	8.09	11.114 ES	
1,100.0	1,100.0	1,099.2	1,098.5	4.2	4.5	90.23	-0.4	90.7	90.7	82.4	8.38	10.824	
1,200.0	1,200.0	1,197.4	1,196.6	4.4	4.8	92.96	-4.8	93.2	93.4	84.7	8.68	10.761	
1,300.0	1,300.0	1,295.2	1,294.0	4.5	5.1	97.13	-12.2	97.3	98.2	89.2	8.99	10.921	
1,400.0	1,400.0	1,392.4	1,390.4	4.6	5.4	102.24	-22.3	102.9	105.7	96.4	9.34	11.318	
1,500.0	1,500.0	1,491.2	1,488.3	4.7	5.6	107.41	-34.4	109.6	115.4	105.7	9.70	11.896	
1,600.0	1,600.0	1,590.2	1,586.3	4.8	5.9	-135.53	-46.4	116.2	126.8	116.7	10.10	12.563	
1,700.0	1,699.9	1,689.1	1,684.3	5.0	6.2	-132.89	-58.4	122.9	140.5	129.9	10.57	13.297	
1,800.0	1,799.7	1,787.8	1,782.0	5.2	6.5	-131.40	-70.5	129.6	156.1	145.1	11.04	14.141	
1,900.0	1,899.3	1,886.3	1,879.5	5.4	6.8	-130.79	-82.4	136.2	173.4	161.9	11.51	15.063	
2,000.0	1,998.6	1,984.4	1,976.8	5.6	7.1	-130.84	-94.4	142.9	192.5	180.5	11.99	16.046	
2,100.0	2,097.5	2,082.2	2,073.6	5.9	7.4	-131.36	-106.3	149.4	213.2	200.7	12.48	17.078	
2,200.0	2,196.1	2,179.6	2,170.0	6.2	7.7	-132.21	-118.1	156.0	235.7	222.7	12.98	18.151	
2,300.0	2,294.3	2,276.5	2,266.0	6.5	8.1	-133.37	-129.9	162.6	259.6	246.1	13.42	19.336	
2,400.0	2,392.4	2,373.5	2,362.0	6.8	8.4	-134.44	-141.7	169.1	283.7	269.7	13.94	20.347	
2,500.0	2,490.6	2,470.4	2,458.0	7.2	8.8	-135.33	-153.5	175.6	307.8	293.4	14.47	21.267	
2,600.0	2,588.8	2,567.3	2,554.0	7.5	9.2	-136.10	-165.3	182.2	332.1	317.1	15.02	22.104	
2,700.0	2,686.9	2,664.3	2,650.0	7.9	9.5	-136.76	-177.1	188.7	356.4	340.8	15.59	22.865	
2,800.0	2,785.1	2,761.2	2,745.9	8.3	9.9	-137.34	-188.9	195.3	380.7	364.5	16.16	23.558	
2,900.0	2,883.3	2,858.1	2,841.9	8.6	10.3	-137.85	-200.7	201.8	405.0	388.3	16.74	24.191	
3,000.0	2,981.4	2,955.0	2,937.9	9.0	10.7	-138.30	-212.5	208.3	429.4	412.1	17.34	24.770	
3,100.0	3,079.6	3,052.0	3,033.9	9.4	11.0	-138.70	-224.3	214.9	453.8	435.9	17.94	25.300	
3,200.0	3,177.7	3,148.9	3,129.9	9.8	11.4	-139.06	-236.1	221.4	478.2	459.7	18.55	25.786	
3,300.0	3,275.9	3,245.8	3,225.9	10.3	11.8	-139.39	-247.9	228.0	502.7	483.5	19.16	26.233	
3,400.0	3,374.1	3,342.8	3,321.9	10.7	12.2	-139.68	-259.7	234.5	527.1	507.4	19.78	26.645	
3,500.0	3,472.2	3,439.7	3,417.8	11.1	12.6	-139.95	-271.5	241.0	551.6	531.2	20.41	27.026	
3,600.0	3,570.4	3,536.6	3,513.8	11.5	13.0	-140.20	-283.3	247.6	576.1	555.0	21.04	27.378	
3,700.0	3,668.6	3,633.6	3,609.8	11.9	13.4	-140.43	-295.1	254.1	600.6	578.9	21.68	27.704	
3,800.0	3,766.7	3,730.5	3,705.8	12.4	13.8	-140.63	-306.9	260.7	625.1	602.7	22.32	28.007	
3,900.0	3,864.9	3,827.4	3,801.8	12.8	14.2	-140.83	-318.7	267.2	649.6	626.6	22.96	28.289	
4,000.0	3,963.0	3,924.3	3,897.8	13.2	14.6	-141.01	-330.5	273.7	674.1	650.5	23.61	28.552	
4,100.0	4,061.2	4,021.3	3,993.8	13.7	15.0	-141.17	-342.3	280.3	698.6	674.3	24.25	28.809	
4,200.0	4,159.4	4,126.9	4,098.5	14.1	15.4	-141.39	-354.4	287.0	722.5	697.6	24.93	28.983	
4,300.0	4,257.5	4,233.7	4,204.6	14.6	15.8	-141.71	-364.9	292.8	745.3	719.7	25.62	29.088	
4,400.0	4,355.7	4,340.9	4,311.3	15.0	16.2	-142.12	-373.8	297.7	766.8	740.5	26.30	29.157	
4,500.0	4,453.9	4,448.6	4,418.7	15.4	16.6	-142.62	-380.9	301.6	787.1	760.1	26.96	29.196	
4,600.0	4,552.0	4,556.6	4,526.5	15.9	17.0	-143.21	-386.2	304.6	806.2	778.6	27.60	29.211	
4,700.0	4,650.2	4,664.9	4,634.7	16.3	17.3	-143.87	-389.8	306.6	824.1	795.9	28.21	29.211	
4,800.0	4,748.3	4,773.4	4,743.2	16.8	17.6	-144.60	-391.6	307.6	840.9	812.1	28.79	29.208	
4,900.0	4,846.5	4,876.7	4,846.5	17.2	17.7	-145.36	-391.8	307.7	856.8	827.6	29.23	29.316	
5,000.0	4,944.7	4,974.8	4,944.7	17.7	17.7	-146.07	-391.8	307.7	872.7	843.0	29.62	29.459	

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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11080-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
5,100.0	5,042.8	5,073.0	5,042.8	18.1	17.8	-146.76	-391.8	307.7	888.7	858.6	30.03	29.593	
5,200.0	5,141.0	5,171.2	5,141.0	18.6	17.8	-147.41	-391.8	307.7	904.8	874.3	30.44	29.721	
5,300.0	5,239.2	5,269.3	5,239.2	19.0	17.8	-148.05	-391.8	307.7	921.0	890.1	30.86	29.845	
5,400.0	5,337.3	5,367.5	5,337.3	19.5	17.8	-148.66	-391.8	307.7	937.3	906.0	31.28	29.963	
5,500.0	5,435.5	5,465.6	5,435.5	19.9	17.9	-149.26	-391.8	307.7	953.7	922.0	31.71	30.077	
5,600.0	5,533.6	5,563.8	5,533.6	20.4	17.9	-149.83	-391.8	307.7	970.3	938.1	32.14	30.187	
5,700.0	5,631.8	5,662.0	5,631.8	20.8	17.9	-150.39	-391.8	307.7	986.9	954.3	32.58	30.293	
5,800.0	5,730.0	5,760.1	5,730.0	21.3	18.0	-150.92	-391.8	307.7	1,003.6	970.6	33.02	30.394	
5,900.0	5,828.1	5,858.3	5,828.1	21.7	18.0	-151.44	-391.8	307.7	1,020.4	986.9	33.46	30.492	
6,000.0	5,926.3	5,956.5	5,926.3	22.2	18.0	-151.94	-391.8	307.7	1,037.2	1,003.3	33.91	30.586	
6,100.0	6,024.5	6,054.7	6,024.5	22.6	18.1	-152.45	-391.8	307.7	1,054.0	1,019.6	34.35	30.683	
6,200.0	6,122.9	6,153.0	6,122.9	23.1	18.1	-152.93	-391.8	307.7	1,070.0	1,035.2	34.80	30.747	
6,300.0	6,221.4	6,251.6	6,221.4	23.5	18.1	-153.38	-391.8	307.7	1,085.3	1,050.1	35.25	30.791	
6,400.0	6,320.1	6,350.2	6,320.1	24.0	18.2	-153.79	-391.8	307.7	1,099.9	1,064.2	35.70	30.814	
6,500.0	6,418.9	6,449.0	6,418.9	24.4	18.2	-154.17	-391.8	307.7	1,113.8	1,077.6	36.14	30.819	
6,600.0	6,517.8	6,548.0	6,517.8	24.9	18.2	-154.52	-391.8	307.7	1,126.9	1,090.3	36.58	30.806	
6,700.0	6,616.9	6,647.0	6,616.9	25.3	18.3	-154.84	-391.8	307.7	1,139.3	1,102.3	37.02	30.776	
6,800.0	6,716.1	6,746.2	6,716.1	25.7	18.3	-155.14	-391.8	307.7	1,150.9	1,113.5	37.45	30.730	
6,900.0	6,815.3	6,845.5	6,815.3	26.1	18.3	-155.41	-391.8	307.7	1,161.8	1,123.9	37.88	30.668	
7,000.0	6,914.7	6,944.9	6,914.7	26.5	18.4	-155.65	-391.8	307.7	1,171.9	1,133.6	38.31	30.591	
7,100.0	7,014.2	7,044.4	7,014.2	26.9	18.4	-155.88	-391.8	307.7	1,181.2	1,142.5	38.73	30.501	
7,200.0	7,113.8	7,143.9	7,113.8	27.3	18.5	-156.08	-391.8	307.7	1,189.7	1,150.6	39.14	30.398	
7,300.0	7,213.4	7,243.6	7,213.4	27.7	18.5	-156.26	-391.8	307.7	1,197.5	1,158.0	39.54	30.282	
7,400.0	7,313.1	7,343.3	7,313.1	28.1	18.5	-156.42	-391.8	307.7	1,204.5	1,164.5	39.94	30.155	
7,500.0	7,412.9	7,443.0	7,412.9	28.4	18.6	-156.56	-391.8	307.7	1,210.6	1,170.3	40.33	30.018	
7,600.0	7,512.7	7,542.9	7,512.7	28.8	18.6	-156.68	-391.8	307.7	1,216.0	1,175.3	40.71	29.871	
7,700.0	7,612.6	7,642.7	7,612.6	29.1	18.6	-156.78	-391.8	307.7	1,220.6	1,179.5	41.08	29.715	
7,800.0	7,712.5	7,742.7	7,712.5	29.5	18.7	-156.86	-391.8	307.7	1,224.4	1,183.0	41.43	29.553	
7,900.0	7,812.4	7,842.6	7,812.4	29.8	18.7	-156.93	-391.8	307.7	1,227.4	1,185.6	41.77	29.385	
8,000.0	7,912.4	7,942.6	7,912.4	30.1	18.8	-156.97	-391.8	307.7	1,229.6	1,187.5	42.09	29.214	
8,100.0	8,012.4	8,042.6	8,012.4	30.3	18.8	-157.00	-391.8	307.7	1,231.0	1,188.6	42.38	29.045	
8,200.0	8,112.4	8,142.6	8,112.4	30.5	18.8	-157.02	-391.8	307.7	1,231.5	1,188.9	42.63	28.891	
8,300.0	8,212.4	8,242.6	8,212.4	30.6	18.9	89.98	-391.8	307.7	1,231.6	1,188.9	42.70	28.840	
8,400.0	8,312.4	8,342.6	8,312.4	30.6	18.9	89.98	-391.8	307.7	1,231.6	1,188.8	42.77	28.793	
8,500.0	8,412.4	8,442.6	8,412.4	30.6	19.0	89.98	-391.8	307.7	1,231.6	1,188.7	42.84	28.745	
8,600.0	8,512.4	8,542.6	8,512.4	30.6	19.0	89.98	-391.8	307.7	1,231.6	1,188.6	42.92	28.697	
8,700.0	8,612.4	8,642.6	8,612.4	30.6	19.0	89.98	-391.8	307.7	1,231.6	1,188.6	42.99	28.649	
8,800.0	8,712.4	8,742.6	8,712.4	30.7	19.1	89.98	-391.8	307.7	1,231.6	1,188.5	43.06	28.601	
8,900.0	8,812.4	8,842.6	8,812.4	30.7	19.1	89.98	-391.8	307.7	1,231.6	1,188.4	43.13	28.552	
9,000.0	8,912.4	8,942.6	8,912.4	30.7	19.2	89.98	-391.8	307.7	1,231.6	1,188.3	43.21	28.504	
9,100.0	9,012.4	9,042.6	9,012.4	30.7	19.2	89.98	-391.8	307.7	1,231.6	1,188.3	43.28	28.455	
9,200.0	9,112.4	9,142.6	9,112.4	30.7	19.2	89.98	-391.8	307.7	1,231.6	1,188.2	43.36	28.406	
9,300.0	9,212.4	9,242.6	9,212.4	30.8	19.3	89.98	-391.8	307.7	1,231.6	1,188.1	43.43	28.357	
9,400.0	9,312.4	9,342.6	9,312.4	30.8	19.3	89.98	-391.8	307.7	1,231.6	1,188.0	43.51	28.308	
9,500.0	9,412.4	9,442.6	9,412.4	30.8	19.4	89.98	-391.8	307.7	1,231.6	1,188.0	43.58	28.258	
9,600.0	9,512.4	9,542.6	9,512.4	30.8	19.4	89.98	-391.8	307.7	1,231.6	1,187.9	43.66	28.209	
9,700.0	9,612.4	9,642.6	9,612.4	30.8	19.5	89.98	-391.8	307.7	1,231.6	1,187.8	43.74	28.159	
9,800.0	9,712.4	9,742.6	9,712.4	30.9	19.5	89.98	-391.8	307.7	1,231.6	1,187.7	43.81	28.109	
9,900.0	9,812.4	9,842.6	9,812.4	30.9	19.5	89.98	-391.8	307.7	1,231.6	1,187.7	43.89	28.060	
10,000.0	9,912.4	9,942.6	9,912.4	30.9	19.6	89.98	-391.8	307.7	1,231.6	1,187.6	43.97	28.010	
10,100.0	10,012.4	10,042.6	10,012.4	30.9	19.6	89.98	-391.8	307.7	1,231.6	1,187.5	44.05	27.960	
10,200.0	10,112.4	10,142.6	10,112.4	30.9	19.7	89.98	-391.8	307.7	1,231.6	1,187.4	44.13	27.910	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11080-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
10,300.0	10,212.4	10,242.6	10,212.4	31.0	19.7	89.98	-391.8	307.7	1,231.6	1,187.3	44.21	27.859	
10,400.0	10,312.4	10,342.6	10,312.4	31.0	19.8	89.98	-391.8	307.7	1,231.6	1,187.3	44.29	27.809	
10,500.0	10,412.4	10,442.6	10,412.4	31.0	19.8	89.98	-391.8	307.7	1,231.6	1,187.2	44.37	27.759	
10,600.0	10,512.4	10,542.6	10,512.4	31.0	19.9	89.98	-391.8	307.7	1,231.6	1,187.1	44.45	27.708	
10,700.0	10,612.4	10,642.6	10,612.4	31.1	19.9	89.98	-391.8	307.7	1,231.6	1,187.0	44.53	27.657	
10,800.0	10,712.4	10,742.6	10,712.4	31.1	20.0	89.98	-391.8	307.7	1,231.6	1,186.9	44.61	27.607	
10,900.0	10,812.4	10,842.6	10,812.4	31.1	20.0	89.98	-391.8	307.7	1,231.6	1,186.9	44.69	27.556	
11,000.0	10,912.4	10,942.6	10,912.4	31.1	20.0	89.98	-391.8	307.7	1,231.6	1,186.8	44.78	27.505	
11,100.0	11,012.4	11,042.6	11,012.4	31.2	20.1	89.98	-391.8	307.7	1,231.6	1,186.7	44.85	27.461	
11,200.0	11,112.4	11,144.5	11,114.0	31.2	20.2	89.98	-385.3	307.6	1,231.5	1,186.6	44.91	27.424	
11,256.8	11,169.2	11,200.8	11,169.1	31.2	20.2	89.88	-374.2	307.4	1,231.4	1,186.5	44.94	27.404	
11,300.0	11,212.4	11,241.8	11,208.5	31.2	20.3	89.34	-362.7	307.3	1,231.5	1,186.5	44.95	27.395	
11,400.0	11,311.7	11,333.1	11,292.6	31.2	20.4	88.04	-327.2	306.8	1,232.1	1,187.2	44.96	27.407	
11,500.0	11,407.7	11,420.9	11,367.0	31.2	20.5	86.81	-280.9	306.1	1,233.3	1,188.4	44.93	27.451	
11,600.0	11,497.4	11,505.7	11,431.5	31.3	20.6	85.67	-225.9	305.3	1,234.8	1,190.0	44.88	27.513	
11,700.0	11,578.2	11,588.1	11,485.6	31.3	20.7	84.65	-164.0	304.4	1,236.6	1,191.8	44.84	27.577	
11,800.0	11,647.5	11,668.6	11,529.5	31.3	20.8	83.77	-96.5	303.5	1,238.4	1,193.6	44.82	27.629	
11,900.0	11,703.3	11,750.0	11,563.8	31.4	20.8	83.03	-22.7	302.4	1,240.0	1,195.2	44.84	27.657	
12,000.0	11,743.9	11,825.6	11,585.9	31.4	20.9	82.49	49.5	301.4	1,241.3	1,196.5	44.88	27.660	
12,100.0	11,768.0	11,900.0	11,598.3	31.5	20.9	82.13	122.8	300.4	1,242.2	1,197.3	44.95	27.633	
12,200.0	11,775.0	11,986.0	11,601.3	31.6	21.0	81.96	208.7	299.1	1,242.5	1,197.4	45.10	27.550	
12,300.0	11,775.0	12,086.0	11,601.3	31.7	21.0	81.96	308.7	297.7	1,242.3	1,197.0	45.36	27.386	
12,400.0	11,775.0	12,186.0	11,601.3	31.8	21.1	81.96	408.7	296.3	1,242.1	1,196.4	45.68	27.192	
12,500.0	11,775.0	12,286.0	11,601.3	31.9	21.1	81.96	508.7	294.9	1,241.9	1,195.9	46.05	26.970	
12,600.0	11,775.0	12,386.0	11,601.3	32.1	21.2	81.96	608.7	293.4	1,241.7	1,195.3	46.47	26.723	
12,700.0	11,775.0	12,486.0	11,601.3	32.2	21.3	81.96	708.7	292.0	1,241.6	1,194.6	46.94	26.452	
12,800.0	11,775.0	12,586.0	11,601.3	32.4	21.4	81.96	808.6	290.6	1,241.4	1,193.9	47.45	26.161	
12,900.0	11,775.0	12,686.0	11,601.3	32.6	21.5	81.96	908.6	289.1	1,241.2	1,193.2	48.01	25.852	
13,000.0	11,775.0	12,786.0	11,601.3	32.8	21.6	81.95	1,008.6	287.7	1,241.0	1,192.4	48.61	25.527	
13,100.0	11,775.0	12,886.0	11,601.3	33.0	21.8	81.95	1,108.6	286.3	1,240.8	1,191.5	49.26	25.189	
13,200.0	11,775.0	12,986.0	11,601.3	33.3	21.9	81.95	1,208.6	284.9	1,240.6	1,190.7	49.94	24.840	
13,300.0	11,775.0	13,086.0	11,601.3	33.5	22.1	81.95	1,308.6	283.4	1,240.4	1,189.7	50.66	24.483	
13,400.0	11,775.0	13,186.0	11,601.3	33.8	22.3	81.95	1,408.6	282.0	1,240.2	1,188.8	51.42	24.119	
13,500.0	11,775.0	13,286.0	11,601.3	34.1	22.6	81.95	1,508.6	280.6	1,240.0	1,187.8	52.21	23.750	
13,600.0	11,775.0	13,386.0	11,601.3	34.4	22.8	81.95	1,608.6	279.2	1,239.8	1,186.8	53.03	23.378	
13,700.0	11,775.0	13,486.0	11,601.3	34.7	23.1	81.95	1,708.5	277.7	1,239.6	1,185.8	53.89	23.004	
13,800.0	11,775.0	13,586.0	11,601.3	35.0	23.4	81.94	1,808.5	276.3	1,239.5	1,184.7	54.77	22.630	
13,900.0	11,775.0	13,686.0	11,601.3	35.3	23.8	81.94	1,908.5	274.9	1,239.3	1,183.6	55.68	22.257	
14,000.0	11,775.0	13,786.0	11,601.3	35.6	24.2	81.94	2,008.5	273.5	1,239.1	1,182.5	56.61	21.886	
14,100.0	11,775.0	13,886.0	11,601.3	36.0	24.6	81.94	2,108.5	272.0	1,238.9	1,181.3	57.57	21.518	
14,200.0	11,775.0	13,986.0	11,601.3	36.4	25.1	81.94	2,208.5	270.6	1,238.7	1,180.1	58.56	21.154	
14,300.0	11,775.0	14,086.0	11,601.3	36.7	25.5	81.94	2,308.5	269.2	1,238.5	1,178.9	59.56	20.793	
14,400.0	11,775.0	14,186.0	11,601.3	37.1	26.0	81.94	2,408.5	267.8	1,238.3	1,177.7	60.59	20.438	
14,500.0	11,775.0	14,286.0	11,601.3	37.5	26.6	81.94	2,508.5	266.3	1,238.1	1,176.5	61.64	20.088	
14,600.0	11,775.0	14,386.0	11,601.3	37.9	27.1	81.93	2,608.5	264.9	1,237.9	1,175.2	62.70	19.743	
14,700.0	11,775.0	14,486.0	11,601.3	38.4	27.6	81.93	2,708.4	263.5	1,237.7	1,173.9	63.78	19.405	
14,800.0	11,775.0	14,586.0	11,601.3	38.8	28.2	81.93	2,808.4	262.1	1,237.5	1,172.7	64.89	19.073	
14,900.0	11,775.0	14,686.0	11,601.3	39.2	28.8	81.93	2,908.4	260.6	1,237.3	1,171.3	66.00	18.747	
15,000.0	11,775.0	14,786.0	11,601.3	39.7	29.4	81.93	3,008.4	259.2	1,237.2	1,170.0	67.13	18.428	
15,100.0	11,775.0	14,886.0	11,601.3	40.1	30.0	81.93	3,108.4	257.8	1,237.0	1,168.7	68.28	18.116	
15,200.0	11,775.0	14,986.0	11,601.3	40.6	30.6	81.93	3,208.4	256.4	1,236.8	1,167.3	69.44	17.810	
15,300.0	11,775.0	15,086.0	11,601.3	41.1	31.3	81.93	3,308.4	254.9	1,236.6	1,166.0	70.62	17.511	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11080-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	
15,400.0	11,775.0	15,186.0	11,601.3	41.6	31.9	81.92	3,408.4	253.5	1,236.4	1,164.6	71.80	17.219	
15,500.0	11,775.0	15,286.0	11,601.3	42.1	32.6	81.92	3,508.4	252.1	1,236.2	1,163.2	73.00	16.933	
15,600.0	11,775.0	15,386.0	11,601.3	42.6	33.2	81.92	3,608.4	250.7	1,236.0	1,161.8	74.22	16.654	
15,700.0	11,775.0	15,486.0	11,601.3	43.1	33.9	81.92	3,708.3	249.2	1,235.8	1,160.4	75.44	16.382	
15,800.0	11,775.0	15,586.0	11,601.3	43.6	34.5	81.92	3,808.3	247.8	1,235.6	1,159.0	76.67	16.116	
15,900.0	11,775.0	15,686.0	11,601.3	44.1	35.2	81.92	3,908.3	246.4	1,235.4	1,157.5	77.91	15.857	
16,000.0	11,775.0	15,786.0	11,601.3	44.7	35.9	81.92	4,008.3	244.9	1,235.2	1,156.1	79.16	15.604	
16,100.0	11,775.0	15,886.0	11,601.3	45.2	36.5	81.92	4,108.3	243.5	1,235.1	1,154.6	80.43	15.357	
16,200.0	11,775.0	15,986.0	11,601.3	45.7	37.2	81.91	4,208.3	242.1	1,234.9	1,153.2	81.70	15.115	
16,300.0	11,775.0	16,086.0	11,601.3	46.3	37.9	81.91	4,308.3	240.7	1,234.7	1,151.7	82.97	14.880	
16,400.0	11,775.0	16,186.0	11,601.3	46.9	38.6	81.91	4,408.3	239.2	1,234.5	1,150.2	84.26	14.651	
16,500.0	11,775.0	16,286.0	11,601.3	47.4	39.3	81.91	4,508.3	237.8	1,234.3	1,148.7	85.55	14.427	
16,600.0	11,775.0	16,386.0	11,601.3	48.0	40.0	81.91	4,608.2	236.4	1,234.1	1,147.2	86.85	14.209	
16,700.0	11,775.0	16,486.0	11,601.3	48.6	40.7	81.91	4,708.2	235.0	1,233.9	1,145.7	88.16	13.996	
16,800.0	11,775.0	16,586.0	11,601.3	49.1	41.4	81.91	4,808.2	233.5	1,233.7	1,144.2	89.48	13.788	
16,900.0	11,775.0	16,686.0	11,601.3	49.7	42.1	81.90	4,908.2	232.1	1,233.5	1,142.7	90.80	13.585	
17,000.0	11,775.0	16,786.0	11,601.3	50.3	42.8	81.90	5,008.2	230.7	1,233.3	1,141.2	92.13	13.387	
17,100.0	11,775.0	16,886.0	11,601.3	50.9	43.5	81.90	5,108.2	229.3	1,233.1	1,139.7	93.46	13.194	
17,200.0	11,775.0	16,986.0	11,601.3	51.5	44.2	81.90	5,208.2	227.8	1,233.0	1,138.2	94.80	13.006	
17,300.0	11,775.0	17,086.0	11,601.3	52.1	44.9	81.90	5,308.2	226.4	1,232.8	1,136.6	96.14	12.822	
17,400.0	11,775.0	17,186.0	11,601.3	52.7	45.6	81.90	5,408.2	225.0	1,232.6	1,135.1	97.49	12.642	
17,500.0	11,775.0	17,286.0	11,601.3	53.3	46.4	81.90	5,508.2	223.6	1,232.4	1,133.5	98.85	12.467	
17,600.0	11,775.0	17,386.0	11,601.3	54.0	47.1	81.90	5,608.1	222.1	1,232.2	1,132.0	100.21	12.296	
17,700.0	11,775.0	17,486.0	11,601.3	54.6	47.8	81.89	5,708.1	220.7	1,232.0	1,130.4	101.57	12.129	
17,800.0	11,775.0	17,586.0	11,601.3	55.2	48.5	81.89	5,808.1	219.3	1,231.8	1,128.9	102.94	11.966	
17,900.0	11,775.0	17,686.0	11,601.3	55.8	49.2	81.89	5,908.1	217.9	1,231.6	1,127.3	104.32	11.807	
18,000.0	11,775.0	17,786.0	11,601.3	56.5	50.0	81.89	6,008.1	216.4	1,231.4	1,125.7	105.69	11.651	
18,100.0	11,775.0	17,886.0	11,601.3	57.1	50.7	81.89	6,108.1	215.0	1,231.2	1,124.2	107.07	11.499	
18,200.0	11,775.0	17,986.0	11,601.3	57.7	51.4	81.89	6,208.1	213.6	1,231.0	1,122.6	108.46	11.350	
18,300.0	11,775.0	18,086.0	11,601.3	58.4	52.1	81.89	6,308.1	212.2	1,230.8	1,121.0	109.85	11.205	
18,400.0	11,775.0	18,186.0	11,601.3	59.0	52.9	81.89	6,408.1	210.7	1,230.7	1,119.4	111.24	11.063	
18,500.0	11,775.0	18,286.0	11,601.3	59.7	53.6	81.88	6,508.0	209.3	1,230.5	1,117.8	112.64	10.924	
18,600.0	11,775.0	18,386.0	11,601.3	60.3	54.3	81.88	6,608.0	207.9	1,230.3	1,116.2	114.04	10.788	
18,700.0	11,775.0	18,486.0	11,601.3	61.0	55.1	81.88	6,708.0	206.5	1,230.1	1,114.6	115.44	10.656	
18,800.0	11,775.0	18,586.0	11,601.3	61.6	55.8	81.88	6,808.0	205.0	1,229.9	1,113.0	116.84	10.526	
18,900.0	11,775.0	18,686.0	11,601.3	62.3	56.5	81.88	6,908.0	203.6	1,229.7	1,111.5	118.25	10.399	
19,000.0	11,775.0	18,786.0	11,601.3	63.0	57.3	81.88	7,008.0	202.2	1,229.5	1,109.8	119.66	10.275	
19,100.0	11,775.0	18,886.0	11,601.3	63.6	58.0	81.88	7,108.0	200.7	1,229.3	1,108.2	121.08	10.153	
19,200.0	11,775.0	18,986.0	11,601.3	64.3	58.7	81.88	7,208.0	199.3	1,229.1	1,106.6	122.50	10.034	
19,300.0	11,775.0	19,086.0	11,601.3	65.0	59.5	81.87	7,308.0	197.9	1,228.9	1,105.0	123.91	9.918	
19,400.0	11,775.0	19,186.0	11,601.3	65.6	60.2	81.87	7,408.0	196.5	1,228.7	1,103.4	125.34	9.804	
19,500.0	11,775.0	19,286.0	11,601.3	66.3	60.9	81.87	7,507.9	195.0	1,228.6	1,101.8	126.76	9.692	
19,600.0	11,775.0	19,386.0	11,601.3	67.0	61.7	81.87	7,607.9	193.6	1,228.4	1,100.2	128.19	9.583	
19,700.0	11,775.0	19,486.0	11,601.3	67.7	62.4	81.87	7,707.9	192.2	1,228.2	1,098.6	129.62	9.475	
19,800.0	11,775.0	19,586.0	11,601.3	68.3	63.2	81.87	7,807.9	190.8	1,228.0	1,096.9	131.05	9.370	
19,900.0	11,775.0	19,686.0	11,601.3	69.0	63.9	81.87	7,907.9	189.3	1,227.8	1,095.3	132.48	9.268	
20,000.0	11,775.0	19,786.0	11,601.3	69.7	64.6	81.87	8,007.9	187.9	1,227.6	1,093.7	133.92	9.167	
20,100.0	11,775.0	19,886.0	11,601.3	70.4	65.4	81.86	8,107.9	186.5	1,227.4	1,092.1	135.36	9.068	
20,200.0	11,775.0	19,986.0	11,601.3	71.1	66.1	81.86	8,207.9	185.1	1,227.2	1,090.4	136.79	8.971	
20,300.0	11,775.0	20,086.0	11,601.3	71.8	66.9	81.86	8,307.9	183.6	1,227.0	1,088.8	138.24	8.876	
20,400.0	11,775.0	20,186.0	11,601.3	72.5	67.6	81.86	8,407.9	182.2	1,226.8	1,087.2	139.68	8.783	
20,500.0	11,775.0	20,286.0	11,601.3	73.1	68.4	81.86	8,507.8	180.8	1,226.6	1,085.5	141.12	8.692	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11080-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
20,600.0	11,775.0	20,386.0	11,601.3	73.8	69.1	81.86	8,607.8	179.4	1,226.5	1,083.9	142.57	8.602	
20,700.0	11,775.0	20,486.0	11,601.3	74.5	69.8	81.86	8,707.8	177.9	1,226.3	1,082.2	144.02	8.515	
20,800.0	11,775.0	20,586.0	11,601.3	75.2	70.6	81.86	8,807.8	176.5	1,226.1	1,080.6	145.47	8.428	
20,900.0	11,775.0	20,686.0	11,601.3	75.9	71.3	81.85	8,907.8	175.1	1,225.9	1,079.0	146.92	8.344	
21,000.0	11,775.0	20,786.0	11,601.3	76.6	72.1	81.85	9,007.8	173.7	1,225.7	1,077.3	148.37	8.261	
21,100.0	11,775.0	20,886.0	11,601.3	77.3	72.8	81.85	9,107.8	172.2	1,225.5	1,075.7	149.83	8.179	
21,200.0	11,775.0	20,986.0	11,601.3	78.0	73.6	81.85	9,207.8	170.8	1,225.3	1,074.0	151.29	8.099	
21,300.0	11,775.0	21,086.0	11,601.3	78.7	74.3	81.85	9,307.8	169.4	1,225.1	1,072.4	152.74	8.021	
21,400.0	11,775.0	21,186.0	11,601.3	79.4	75.1	81.85	9,407.7	168.0	1,224.9	1,070.7	154.20	7.944	
21,500.0	11,775.0	21,286.0	11,601.3	80.1	75.8	81.85	9,507.7	166.5	1,224.7	1,069.1	155.66	7.868	
21,600.0	11,775.0	21,386.0	11,601.3	80.8	76.6	81.85	9,607.7	165.1	1,224.5	1,067.4	157.12	7.793	
21,700.0	11,775.0	21,486.0	11,601.3	81.5	77.3	81.84	9,707.7	163.7	1,224.4	1,065.8	158.59	7.720	
21,800.0	11,775.0	21,586.0	11,601.3	82.2	78.1	81.84	9,807.7	162.3	1,224.2	1,064.1	160.05	7.649	
21,900.0	11,775.0	21,686.0	11,601.3	83.0	78.8	81.84	9,907.7	160.8	1,224.0	1,062.5	161.52	7.578	
22,000.0	11,775.0	21,786.0	11,601.3	83.7	79.6	81.84	10,007.7	159.4	1,223.8	1,060.8	162.98	7.509	
22,100.0	11,775.0	21,886.0	11,601.3	84.4	80.3	81.84	10,107.7	158.0	1,223.6	1,059.1	164.45	7.440	
22,200.0	11,775.0	21,986.0	11,601.3	85.1	81.1	81.84	10,207.7	156.5	1,223.4	1,057.5	165.92	7.373	
22,300.0	11,775.0	22,086.0	11,601.3	85.8	81.8	81.84	10,307.7	155.1	1,223.2	1,055.8	167.39	7.308	
22,400.0	11,775.0	22,186.0	11,601.3	86.5	82.6	81.83	10,407.6	153.7	1,223.0	1,054.2	168.86	7.243	
22,500.0	11,775.0	22,286.0	11,601.3	87.2	83.3	81.83	10,507.6	152.3	1,222.8	1,052.5	170.33	7.179	
22,600.0	11,775.0	22,386.0	11,601.3	87.9	84.1	81.83	10,607.6	150.8	1,222.6	1,050.8	171.80	7.116	
22,700.0	11,775.0	22,486.0	11,601.3	88.7	84.8	81.83	10,707.6	149.4	1,222.4	1,049.2	173.28	7.055	
22,800.0	11,775.0	22,586.0	11,601.3	89.4	85.6	81.83	10,807.6	148.0	1,222.2	1,047.5	174.75	6.994	
22,900.0	11,775.0	22,686.0	11,601.3	90.1	86.3	81.83	10,907.6	146.6	1,222.1	1,045.8	176.23	6.935	
23,000.0	11,775.0	22,786.0	11,601.3	90.8	87.1	81.83	11,007.6	145.1	1,221.9	1,044.2	177.70	6.876	
23,100.0	11,775.0	22,886.0	11,601.3	91.5	87.8	81.83	11,107.6	143.7	1,221.7	1,042.5	179.18	6.818	
23,200.0	11,775.0	22,986.0	11,601.3	92.2	88.6	81.82	11,207.6	142.3	1,221.5	1,040.8	180.66	6.761	
23,300.0	11,775.0	23,086.0	11,601.3	93.0	89.3	81.82	11,307.6	140.9	1,221.3	1,039.2	182.14	6.705	
23,400.0	11,775.0	23,186.0	11,601.3	93.7	90.1	81.82	11,407.5	139.4	1,221.1	1,037.5	183.62	6.650	
23,500.0	11,775.0	23,286.0	11,601.3	94.4	90.8	81.82	11,507.5	138.0	1,220.9	1,035.8	185.10	6.596	
23,600.0	11,775.0	23,386.0	11,601.3	95.1	91.6	81.82	11,607.5	136.6	1,220.7	1,034.1	186.58	6.543	
23,700.0	11,775.0	23,486.0	11,601.3	95.9	92.3	81.82	11,707.5	135.2	1,220.5	1,032.5	188.06	6.490	
23,800.0	11,775.0	23,586.0	11,601.3	96.6	93.1	81.82	11,807.5	133.7	1,220.3	1,030.8	189.55	6.438	
23,900.0	11,775.0	23,686.0	11,601.3	97.3	93.8	81.82	11,907.5	132.3	1,220.1	1,029.1	191.03	6.387	
24,000.0	11,775.0	23,786.0	11,601.3	98.0	94.6	81.81	12,007.5	130.9	1,220.0	1,027.4	192.51	6.337	
24,100.0	11,775.0	23,886.0	11,601.3	98.8	95.4	81.81	12,107.5	129.5	1,219.8	1,025.8	194.00	6.287	
24,200.0	11,775.0	23,986.0	11,601.3	99.5	96.1	81.81	12,207.5	128.0	1,219.6	1,024.1	195.49	6.239	
24,300.0	11,775.0	24,086.0	11,601.3	100.2	96.9	81.81	12,307.4	126.6	1,219.4	1,022.4	196.97	6.191	
24,400.0	11,775.0	24,186.0	11,601.3	100.9	97.6	81.81	12,407.4	125.2	1,219.2	1,020.7	198.46	6.143	
24,500.0	11,775.0	24,286.0	11,601.3	101.7	98.4	81.81	12,507.4	123.8	1,219.0	1,019.1	199.95	6.097	
24,600.0	11,775.0	24,386.0	11,601.3	102.4	99.1	81.81	12,607.4	122.3	1,218.8	1,017.4	201.44	6.051	
24,700.0	11,775.0	24,486.0	11,601.3	103.1	99.9	81.81	12,707.4	120.9	1,218.6	1,015.7	202.92	6.005	
24,783.8	11,775.0	24,569.8	11,601.3	103.7	100.5	81.80	12,791.2	119.7	1,218.5	1,014.3	204.17	5.968	
24,800.0	11,775.0	24,580.8	11,601.3	103.9	100.6	81.80	12,802.2	119.5	1,218.4	1,014.1	204.36	5.962	
24,803.7	11,775.0	24,580.8	11,601.3	103.9	100.6	81.80	12,802.2	119.5	1,218.5	1,014.1	204.38	5.962 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11252-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.2	0.0	3.0	3.0	89.23	1.6	119.7	119.7				
100.0	100.0	101.2	100.0	3.0	3.0	89.23	1.6	119.7	119.7	113.6	6.05	19.772	
200.0	200.0	201.2	200.0	3.2	3.2	89.23	1.6	119.7	119.7	113.4	6.30	19.002	
300.0	300.0	301.2	300.0	3.3	3.3	89.23	1.6	119.7	119.7	113.1	6.53	18.316	
400.0	400.0	401.2	400.0	3.4	3.4	89.23	1.6	119.7	119.7	112.9	6.76	17.700	
500.0	500.0	501.2	500.0	3.5	3.5	89.23	1.6	119.7	119.7	112.7	6.98	17.142	
600.0	600.0	601.2	600.0	3.6	3.6	89.23	1.6	119.7	119.7	112.5	7.19	16.633	
700.0	700.0	701.2	700.0	3.8	3.8	89.23	1.6	119.7	119.7	112.3	7.40	16.167	
800.0	800.0	801.2	800.0	3.9	3.9	89.23	1.6	119.7	119.7	112.1	7.60	15.739	
900.0	900.0	901.2	900.0	4.0	4.0	89.23	1.6	119.7	119.7	111.9	7.80	15.340	
916.3	916.3	917.5	916.3	4.0	4.0	89.23	1.6	119.7	119.7	111.8	7.85	15.250 CC	
1,000.0	1,000.0	1,000.0	998.8	4.1	4.2	89.23	1.6	119.7	119.7	111.6	8.09	14.793 ES	
1,100.0	1,100.0	1,097.8	1,096.5	4.2	4.4	89.67	0.7	121.1	121.1	112.7	8.43	14.361	
1,200.0	1,200.0	1,194.1	1,192.8	4.4	4.7	90.91	-2.0	125.2	125.4	116.6	8.77	14.299	
1,300.0	1,300.0	1,290.1	1,288.4	4.5	5.0	92.77	-6.4	132.0	132.6	123.5	9.12	14.550	
1,400.0	1,400.0	1,385.4	1,383.0	4.6	5.3	95.05	-12.5	141.4	142.9	133.5	9.48	15.083	
1,500.0	1,500.0	1,483.8	1,480.5	4.7	5.6	97.43	-19.9	152.8	155.3	145.5	9.82	15.816	
1,600.0	1,600.0	1,582.7	1,578.4	4.8	5.8	-147.65	-27.4	164.4	169.1	158.9	10.21	16.565	
1,700.0	1,699.9	1,681.3	1,676.1	5.0	6.1	-146.44	-34.9	175.9	185.2	174.5	10.69	17.319	
1,800.0	1,799.7	1,779.6	1,773.4	5.2	6.4	-145.80	-42.4	187.4	203.5	192.3	11.19	18.174	
1,900.0	1,899.3	1,877.5	1,870.4	5.4	6.7	-145.61	-49.8	198.8	223.8	212.1	11.72	19.107	
2,000.0	1,998.6	1,975.0	1,966.9	5.6	7.0	-145.75	-57.2	210.2	246.3	234.1	12.26	20.100	
2,100.0	2,097.5	2,071.8	2,062.8	5.9	7.3	-146.14	-64.5	221.5	271.0	258.2	12.82	21.142	
2,200.0	2,196.1	2,168.1	2,158.1	6.2	7.7	-146.70	-71.8	232.7	297.7	284.3	13.40	22.224	
2,300.0	2,294.3	2,263.9	2,253.0	6.5	8.0	-147.47	-79.1	243.9	326.2	312.3	13.92	23.433	
2,400.0	2,392.4	2,359.6	2,347.8	6.8	8.4	-148.20	-86.3	255.0	354.8	340.3	14.52	24.440	
2,500.0	2,490.6	2,455.3	2,442.5	7.2	8.7	-148.83	-93.6	266.2	383.5	368.4	15.13	25.340	
2,600.0	2,588.8	2,551.0	2,537.3	7.5	9.1	-149.36	-100.8	277.4	412.2	396.5	15.77	26.144	
2,700.0	2,686.9	2,646.8	2,632.1	7.9	9.4	-149.83	-108.1	288.6	441.0	424.5	16.41	26.864	
2,800.0	2,785.1	2,742.5	2,726.9	8.3	9.8	-150.24	-115.3	299.7	469.7	452.7	17.07	27.510	
2,900.0	2,883.3	2,838.2	2,821.7	8.6	10.2	-150.60	-122.6	310.9	498.5	480.8	17.75	28.092	
3,000.0	2,981.4	2,933.9	2,916.5	9.0	10.6	-150.93	-129.9	322.1	527.3	508.9	18.43	28.617	
3,100.0	3,079.6	3,029.7	3,011.3	9.4	10.9	-151.22	-137.1	333.3	556.1	537.0	19.12	29.091	
3,200.0	3,177.7	3,125.4	3,106.1	9.8	11.3	-151.48	-144.4	344.4	585.0	565.1	19.81	29.522	
3,300.0	3,275.9	3,221.1	3,200.9	10.3	11.7	-151.71	-151.6	355.6	613.8	593.3	20.52	29.913	
3,400.0	3,374.1	3,316.8	3,295.7	10.7	12.1	-151.93	-158.9	366.8	642.6	621.4	21.23	30.270	
3,500.0	3,472.2	3,412.5	3,390.5	11.1	12.5	-152.12	-166.1	377.9	671.5	649.5	21.95	30.596	
3,600.0	3,570.4	3,508.3	3,485.2	11.5	12.9	-152.31	-173.4	389.1	700.4	677.7	22.67	30.895	
3,700.0	3,668.6	3,604.0	3,580.0	11.9	13.2	-152.47	-180.6	400.3	729.2	705.8	23.40	31.169	
3,800.0	3,766.7	3,699.7	3,674.8	12.4	13.6	-152.62	-187.9	411.5	758.1	734.0	24.13	31.422	
3,900.0	3,864.9	3,795.4	3,769.6	12.8	14.0	-152.77	-195.2	422.6	787.0	762.1	24.86	31.655	
4,000.0	3,963.0	3,891.2	3,864.4	13.2	14.4	-152.90	-202.4	433.8	815.9	790.3	25.60	31.871	
4,100.0	4,061.2	3,986.9	3,959.2	13.7	14.8	-153.02	-209.7	445.0	844.7	818.4	26.34	32.071	
4,200.0	4,159.4	4,082.6	4,054.0	14.1	15.2	-153.14	-216.9	456.2	873.6	846.5	27.08	32.256	
4,300.0	4,257.5	4,178.3	4,148.8	14.6	15.6	-153.25	-224.2	467.3	902.5	874.7	27.83	32.429	
4,400.0	4,355.7	4,274.0	4,243.6	15.0	16.0	-153.35	-231.4	478.5	931.4	902.8	28.58	32.590	
4,500.0	4,453.9	4,369.8	4,338.4	15.4	16.4	-153.44	-238.7	489.7	960.3	931.0	29.33	32.740	
4,600.0	4,552.0	4,465.5	4,433.2	15.9	16.8	-153.53	-245.9	500.8	989.2	959.1	30.08	32.881	
4,700.0	4,650.2	4,561.2	4,527.9	16.3	17.2	-153.62	-253.2	512.0	1,018.1	987.3	30.84	33.012	
4,800.0	4,748.3	4,656.9	4,622.7	16.8	17.6	-153.69	-260.5	523.2	1,047.0	1,015.4	31.60	33.136	
4,900.0	4,846.5	4,752.7	4,717.5	17.2	18.0	-153.77	-267.7	534.4	1,075.9	1,043.5	32.36	33.252	
5,000.0	4,944.7	4,848.4	4,812.3	17.7	18.4	-153.84	-275.0	545.5	1,104.8	1,071.7	33.12	33.361	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11252-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
5,100.0	5,042.8	4,944.1	4,907.1	18.1	18.8	-153.91	-282.2	556.7	1,133.7	1,099.8	33.88	33.464	
5,200.0	5,141.0	5,039.8	5,001.9	18.6	19.2	-153.97	-289.5	567.9	1,162.6	1,128.0	34.64	33.562	
5,300.0	5,239.2	5,135.5	5,096.7	19.0	19.6	-154.04	-296.7	579.1	1,191.5	1,156.1	35.41	33.653	
5,400.0	5,337.3	5,231.3	5,191.5	19.5	20.0	-154.09	-304.0	590.2	1,220.4	1,184.3	36.17	33.740	
5,500.0	5,435.5	5,327.0	5,286.3	19.9	20.4	-154.15	-311.2	601.4	1,249.4	1,212.4	36.94	33.822	
5,600.0	5,533.6	5,422.7	5,381.1	20.4	20.8	-154.20	-318.5	612.6	1,278.3	1,240.6	37.71	33.900	
5,700.0	5,631.8	5,518.4	5,475.9	20.8	21.2	-154.25	-325.8	623.7	1,307.2	1,268.7	38.47	33.978	
5,800.0	5,730.0	5,622.2	5,578.7	21.3	21.7	-154.31	-333.5	635.6	1,335.9	1,296.6	39.28	34.009	
5,900.0	5,828.1	5,729.0	5,684.6	21.7	22.1	-154.39	-340.9	647.0	1,363.8	1,323.7	40.12	33.994	
6,000.0	5,926.3	5,836.2	5,791.0	22.2	22.5	-154.49	-347.8	657.7	1,391.0	1,350.1	40.95	33.966	
6,100.0	6,024.5	5,944.0	5,898.2	22.6	23.0	-154.65	-354.2	667.5	1,417.2	1,375.5	41.77	33.932	
6,200.0	6,122.9	6,052.4	6,006.1	23.1	23.4	-154.81	-360.1	676.6	1,441.9	1,399.3	42.58	33.861	
6,300.0	6,221.4	6,161.5	6,114.7	23.5	23.8	-154.98	-365.4	684.8	1,465.0	1,421.6	43.39	33.766	
6,400.0	6,320.1	6,271.1	6,224.0	24.0	24.2	-155.14	-370.3	692.3	1,486.6	1,442.4	44.18	33.648	
6,500.0	6,418.9	6,381.3	6,333.9	24.4	24.7	-155.30	-374.5	698.8	1,506.6	1,461.6	44.96	33.512	
6,600.0	6,517.8	6,492.0	6,444.4	24.9	25.0	-155.46	-378.2	704.5	1,525.0	1,479.3	45.72	33.357	
6,700.0	6,616.9	6,603.2	6,555.4	25.3	25.4	-155.62	-381.4	709.4	1,541.8	1,495.4	46.46	33.186	
6,800.0	6,716.1	6,714.8	6,666.9	25.7	25.8	-155.78	-383.9	713.3	1,557.0	1,509.9	47.18	33.003	
6,900.0	6,815.3	6,826.8	6,778.8	26.1	26.1	-155.94	-385.9	716.4	1,570.7	1,522.8	47.87	32.810	
7,000.0	6,914.7	6,939.0	6,891.1	26.5	26.5	-156.10	-387.3	718.5	1,582.7	1,534.2	48.54	32.609	
7,100.0	7,014.2	7,051.6	7,003.6	26.9	26.7	-156.26	-388.1	719.7	1,593.1	1,544.0	49.16	32.410	
7,200.0	7,113.8	7,161.8	7,113.8	27.3	26.9	-156.42	-388.3	720.0	1,602.0	1,552.3	49.65	32.265	
7,300.0	7,213.4	7,261.4	7,213.4	27.7	26.9	-156.56	-388.3	720.0	1,609.7	1,559.7	50.02	32.185	
7,400.0	7,313.1	7,361.1	7,313.1	28.1	26.9	-156.68	-388.3	720.0	1,616.7	1,566.3	50.38	32.091	
7,500.0	7,412.9	7,460.9	7,412.9	28.4	26.9	-156.78	-388.3	720.0	1,622.9	1,572.2	50.74	31.987	
7,600.0	7,512.7	7,560.7	7,512.7	28.8	27.0	-156.87	-388.3	720.0	1,628.3	1,577.2	51.08	31.876	
7,700.0	7,612.6	7,660.6	7,612.6	29.1	27.0	-156.95	-388.3	720.0	1,632.9	1,581.5	51.42	31.757	
7,800.0	7,712.5	7,760.5	7,712.5	29.5	27.0	-157.02	-388.3	720.0	1,636.7	1,584.9	51.74	31.632	
7,900.0	7,812.4	7,860.4	7,812.4	29.8	27.0	-157.07	-388.3	720.0	1,639.7	1,587.6	52.05	31.502	
8,000.0	7,912.4	7,960.4	7,912.4	30.1	27.0	-157.10	-388.3	720.0	1,641.9	1,589.5	52.34	31.370	
8,100.0	8,012.4	8,060.4	8,012.4	30.3	27.1	-157.13	-388.3	720.0	1,643.2	1,590.6	52.60	31.239	
8,200.0	8,112.4	8,160.4	8,112.4	30.5	27.1	-157.14	-388.3	720.0	1,643.8	1,591.0	52.82	31.121	
8,300.0	8,212.4	8,260.4	8,212.4	30.6	27.1	89.86	-388.3	720.0	1,643.8	1,591.0	52.87	31.093	
8,400.0	8,312.4	8,360.4	8,312.4	30.6	27.1	89.86	-388.3	720.0	1,643.8	1,590.9	52.91	31.068	
8,500.0	8,412.4	8,460.4	8,412.4	30.6	27.2	89.86	-388.3	720.0	1,643.8	1,590.9	52.95	31.042	
8,600.0	8,512.4	8,560.4	8,512.4	30.6	27.2	89.86	-388.3	720.0	1,643.8	1,590.8	53.00	31.017	
8,700.0	8,612.4	8,660.4	8,612.4	30.6	27.2	89.86	-388.3	720.0	1,643.8	1,590.8	53.04	30.991	
8,800.0	8,712.4	8,760.4	8,712.4	30.7	27.2	89.86	-388.3	720.0	1,643.8	1,590.8	53.09	30.964	
8,900.0	8,812.4	8,860.4	8,812.4	30.7	27.2	89.86	-388.3	720.0	1,643.8	1,590.7	53.13	30.938	
9,000.0	8,912.4	8,960.4	8,912.4	30.7	27.3	89.86	-388.3	720.0	1,643.8	1,590.7	53.18	30.911	
9,100.0	9,012.4	9,060.4	9,012.4	30.7	27.3	89.86	-388.3	720.0	1,643.8	1,590.6	53.23	30.884	
9,200.0	9,112.4	9,160.4	9,112.4	30.7	27.3	89.86	-388.3	720.0	1,643.8	1,590.6	53.27	30.857	
9,300.0	9,212.4	9,260.4	9,212.4	30.8	27.3	89.86	-388.3	720.0	1,643.8	1,590.5	53.32	30.830	
9,400.0	9,312.4	9,360.4	9,312.4	30.8	27.4	89.86	-388.3	720.0	1,643.8	1,590.5	53.37	30.802	
9,500.0	9,412.4	9,460.4	9,412.4	30.8	27.4	89.86	-388.3	720.0	1,643.8	1,590.4	53.42	30.775	
9,600.0	9,512.4	9,560.4	9,512.4	30.8	27.4	89.86	-388.3	720.0	1,643.8	1,590.4	53.46	30.747	
9,700.0	9,612.4	9,660.4	9,612.4	30.8	27.4	89.86	-388.3	720.0	1,643.8	1,590.3	53.51	30.718	
9,800.0	9,712.4	9,760.4	9,712.4	30.9	27.5	89.86	-388.3	720.0	1,643.8	1,590.3	53.56	30.690	
9,900.0	9,812.4	9,860.4	9,812.4	30.9	27.5	89.86	-388.3	720.0	1,643.8	1,590.2	53.61	30.661	
10,000.0	9,912.4	9,960.4	9,912.4	30.9	27.5	89.86	-388.3	720.0	1,643.8	1,590.2	53.66	30.633	
10,100.0	10,012.4	10,060.4	10,012.4	30.9	27.5	89.86	-388.3	720.0	1,643.8	1,590.1	53.71	30.604	
10,200.0	10,112.4	10,160.4	10,112.4	30.9	27.6	89.86	-388.3	720.0	1,643.8	1,590.1	53.77	30.574	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11252-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
10,300.0	10,212.4	10,260.4	10,212.4	31.0	27.6	89.86	-388.3	720.0	1,643.8	1,590.0	53.82	30.545	
10,400.0	10,312.4	10,360.4	10,312.4	31.0	27.6	89.86	-388.3	720.0	1,643.8	1,590.0	53.87	30.515	
10,500.0	10,412.4	10,460.4	10,412.4	31.0	27.6	89.86	-388.3	720.0	1,643.8	1,589.9	53.92	30.486	
10,600.0	10,512.4	10,560.4	10,512.4	31.0	27.7	89.86	-388.3	720.0	1,643.8	1,589.9	53.98	30.456	
10,700.0	10,612.4	10,660.4	10,612.4	31.1	27.7	89.86	-388.3	720.0	1,643.8	1,589.8	54.03	30.425	
10,800.0	10,712.4	10,760.4	10,712.4	31.1	27.7	89.86	-388.3	720.0	1,643.8	1,589.8	54.08	30.395	
10,900.0	10,812.4	10,860.4	10,812.4	31.1	27.8	89.86	-388.3	720.0	1,643.8	1,589.7	54.14	30.364	
11,000.0	10,912.4	10,960.4	10,912.4	31.1	27.8	89.86	-388.3	720.0	1,643.8	1,589.7	54.19	30.334	
11,100.0	11,012.4	11,060.4	11,012.4	31.2	27.8	89.86	-388.3	720.0	1,643.8	1,589.6	54.25	30.303	
11,200.0	11,112.4	11,160.4	11,112.4	31.2	27.8	89.86	-388.3	720.0	1,643.8	1,589.5	54.30	30.272	
11,300.0	11,212.4	11,260.7	11,212.7	31.2	27.9	90.57	-388.2	720.0	1,643.8	1,589.5	54.34	30.249	
11,400.0	11,311.7	11,364.5	11,315.8	31.2	27.9	90.58	-377.4	719.8	1,643.8	1,589.5	54.36	30.240	
11,500.0	11,407.7	11,468.2	11,415.2	31.2	27.9	90.57	-348.2	719.4	1,643.7	1,589.4	54.36	30.240	
11,600.0	11,497.4	11,571.8	11,507.6	31.3	28.0	90.54	-301.7	718.7	1,643.6	1,589.3	54.34	30.244	
11,700.0	11,578.2	11,675.1	11,589.9	31.3	28.0	90.49	-239.5	717.7	1,643.4	1,589.1	54.33	30.249	
11,800.0	11,647.5	11,778.0	11,659.5	31.3	28.1	90.43	-163.9	716.6	1,643.2	1,588.9	54.33	30.248	
11,900.0	11,703.3	11,880.4	11,714.2	31.4	28.1	90.35	-77.6	715.3	1,643.0	1,588.6	54.34	30.234	
12,000.0	11,743.9	11,982.3	11,752.6	31.4	28.2	90.27	16.7	713.9	1,642.7	1,588.3	54.39	30.202	
12,100.0	11,768.0	12,083.5	11,773.6	31.5	28.3	90.17	115.6	712.4	1,642.4	1,587.9	54.48	30.147	
12,200.0	11,775.0	12,184.0	11,777.8	31.6	28.3	90.10	215.9	710.9	1,642.1	1,587.5	54.61	30.068	
12,300.0	11,775.0	12,284.0	11,777.8	31.7	28.4	90.10	315.8	709.4	1,641.9	1,587.1	54.81	29.954	
12,400.0	11,775.0	12,384.0	11,777.8	31.8	28.6	90.10	415.8	707.9	1,641.6	1,586.5	55.05	29.819	
12,500.0	11,775.0	12,484.0	11,777.8	31.9	28.7	90.10	515.8	706.4	1,641.3	1,586.0	55.33	29.662	
12,600.0	11,775.0	12,584.0	11,777.8	32.1	28.8	90.10	615.8	704.9	1,641.0	1,585.4	55.66	29.485	
12,700.0	11,775.0	12,684.0	11,777.8	32.2	29.0	90.10	715.8	703.4	1,640.8	1,584.8	56.02	29.289	
12,800.0	11,775.0	12,784.0	11,777.8	32.4	29.1	90.10	815.8	701.9	1,640.5	1,584.1	56.42	29.075	
12,900.0	11,775.0	12,884.0	11,777.8	32.6	29.3	90.10	915.8	700.4	1,640.2	1,583.4	56.86	28.845	
13,000.0	11,775.0	12,984.0	11,777.8	32.8	29.5	90.10	1,015.8	698.9	1,640.0	1,582.6	57.34	28.600	
13,100.0	11,775.0	13,084.0	11,777.8	33.0	29.7	90.10	1,115.8	697.4	1,639.7	1,581.8	57.86	28.341	
13,200.0	11,775.0	13,184.0	11,777.8	33.3	30.0	90.10	1,215.7	695.9	1,639.4	1,581.0	58.41	28.069	
13,300.0	11,775.0	13,284.0	11,777.8	33.5	30.2	90.10	1,315.7	694.3	1,639.1	1,580.2	58.99	27.786	
13,400.0	11,775.0	13,384.0	11,777.8	33.8	30.4	90.10	1,415.7	692.8	1,638.9	1,579.3	59.61	27.493	
13,500.0	11,775.0	13,484.0	11,777.8	34.1	30.7	90.10	1,515.7	691.3	1,638.6	1,578.3	60.26	27.192	
13,600.0	11,775.0	13,584.0	11,777.8	34.4	31.0	90.10	1,615.7	689.8	1,638.3	1,577.4	60.94	26.883	
13,700.0	11,775.0	13,684.0	11,777.8	34.7	31.3	90.10	1,715.7	688.3	1,638.1	1,576.4	61.66	26.568	
13,800.0	11,775.0	13,784.0	11,777.8	35.0	31.6	90.10	1,815.7	686.8	1,637.8	1,575.4	62.40	26.248	
13,900.0	11,775.0	13,884.0	11,777.8	35.3	31.9	90.10	1,915.7	685.3	1,637.5	1,574.4	63.17	25.923	
14,000.0	11,775.0	13,984.0	11,777.8	35.6	32.3	90.10	2,015.6	683.8	1,637.2	1,573.3	63.97	25.596	
14,100.0	11,775.0	14,084.0	11,777.8	36.0	32.6	90.10	2,115.6	682.3	1,637.0	1,572.2	64.79	25.266	
14,200.0	11,775.0	14,184.0	11,777.8	36.4	33.0	90.10	2,215.6	680.8	1,636.7	1,571.1	65.64	24.935	
14,300.0	11,775.0	14,284.0	11,777.8	36.7	33.4	90.10	2,315.6	679.3	1,636.4	1,569.9	66.51	24.604	
14,400.0	11,775.0	14,384.0	11,777.8	37.1	33.8	90.10	2,415.6	677.8	1,636.2	1,568.8	67.41	24.272	
14,500.0	11,775.0	14,484.0	11,777.8	37.5	34.2	90.10	2,515.6	676.3	1,635.9	1,567.6	68.33	23.942	
14,600.0	11,775.0	14,584.0	11,777.8	37.9	34.6	90.10	2,615.6	674.8	1,635.6	1,566.4	69.27	23.613	
14,700.0	11,775.0	14,684.0	11,777.8	38.4	35.0	90.10	2,715.6	673.3	1,635.3	1,565.1	70.23	23.286	
14,800.0	11,775.0	14,784.0	11,777.8	38.8	35.5	90.10	2,815.6	671.8	1,635.1	1,563.9	71.21	22.962	
14,900.0	11,775.0	14,884.0	11,777.8	39.2	35.9	90.10	2,915.5	670.3	1,634.8	1,562.6	72.21	22.640	
15,000.0	11,775.0	14,984.0	11,777.8	39.7	36.4	90.10	3,015.5	668.8	1,634.5	1,561.3	73.23	22.321	
15,100.0	11,775.0	15,084.0	11,777.8	40.1	36.9	90.10	3,115.5	667.3	1,634.3	1,560.0	74.26	22.007	
15,200.0	11,775.0	15,184.0	11,777.8	40.6	37.4	90.10	3,215.5	665.8	1,634.0	1,558.7	75.31	21.696	
15,300.0	11,775.0	15,284.0	11,777.8	41.1	37.9	90.10	3,315.5	664.3	1,633.7	1,557.3	76.38	21.389	
15,400.0	11,775.0	15,384.0	11,777.8	41.6	38.4	90.10	3,415.5	662.8	1,633.4	1,556.0	77.47	21.086	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11252-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
15,500.0	11,775.0	15,484.0	11,777.8	42.1	38.9	90.10	3,515.5	661.3	1,633.2	1,554.6	78.56	20.788	
15,600.0	11,775.0	15,584.0	11,777.8	42.6	39.4	90.10	3,615.5	659.8	1,632.9	1,553.2	79.68	20.494	
15,700.0	11,775.0	15,684.0	11,777.8	43.1	40.0	90.10	3,715.5	658.2	1,632.6	1,551.8	80.80	20.205	
15,800.0	11,775.0	15,784.0	11,777.8	43.6	40.5	90.10	3,815.4	656.7	1,632.4	1,550.4	81.94	19.921	
15,900.0	11,775.0	15,884.0	11,777.8	44.1	41.1	90.10	3,915.4	655.2	1,632.1	1,549.0	83.09	19.642	
16,000.0	11,775.0	15,984.0	11,777.8	44.7	41.6	90.10	4,015.4	653.7	1,631.8	1,547.6	84.26	19.367	
16,100.0	11,775.0	16,084.0	11,777.8	45.2	42.2	90.10	4,115.4	652.2	1,631.5	1,546.1	85.43	19.098	
16,200.0	11,775.0	16,184.0	11,777.8	45.7	42.8	90.10	4,215.4	650.7	1,631.3	1,544.7	86.62	18.833	
16,300.0	11,775.0	16,284.0	11,777.8	46.3	43.4	90.10	4,315.4	649.2	1,631.0	1,543.2	87.81	18.574	
16,400.0	11,775.0	16,384.0	11,777.8	46.9	44.0	90.10	4,415.4	647.7	1,630.7	1,541.7	89.02	18.319	
16,500.0	11,775.0	16,484.0	11,777.8	47.4	44.5	90.10	4,515.4	646.2	1,630.5	1,540.2	90.23	18.069	
16,600.0	11,775.0	16,584.0	11,777.8	48.0	45.2	90.10	4,615.3	644.7	1,630.2	1,538.7	91.46	17.824	
16,700.0	11,775.0	16,684.0	11,777.8	48.6	45.8	90.10	4,715.3	643.2	1,629.9	1,537.2	92.69	17.584	
16,800.0	11,775.0	16,784.0	11,777.8	49.1	46.4	90.10	4,815.3	641.7	1,629.7	1,535.7	93.94	17.348	
16,900.0	11,775.0	16,884.0	11,777.8	49.7	47.0	90.10	4,915.3	640.2	1,629.4	1,534.2	95.19	17.117	
17,000.0	11,775.0	16,984.0	11,777.8	50.3	47.6	90.10	5,015.3	638.7	1,629.1	1,532.7	96.45	16.891	
17,100.0	11,775.0	17,084.0	11,777.8	50.9	48.2	90.10	5,115.3	637.2	1,628.8	1,531.1	97.71	16.669	
17,200.0	11,775.0	17,184.0	11,777.8	51.5	48.9	90.10	5,215.3	635.7	1,628.6	1,529.6	98.99	16.452	
17,300.0	11,775.0	17,284.0	11,777.8	52.1	49.5	90.10	5,315.3	634.2	1,628.3	1,528.0	100.27	16.239	
17,400.0	11,775.0	17,384.0	11,777.8	52.7	50.1	90.10	5,415.3	632.7	1,628.0	1,526.5	101.56	16.031	
17,500.0	11,775.0	17,484.0	11,777.8	53.3	50.8	90.10	5,515.2	631.2	1,627.8	1,524.9	102.85	15.826	
17,600.0	11,775.0	17,584.0	11,777.8	54.0	51.4	90.10	5,615.2	629.7	1,627.5	1,523.3	104.15	15.626	
17,700.0	11,775.0	17,684.0	11,777.8	54.6	52.1	90.10	5,715.2	628.2	1,627.2	1,521.7	105.46	15.430	
17,800.0	11,775.0	17,784.0	11,777.8	55.2	52.7	90.10	5,815.2	626.7	1,626.9	1,520.2	106.77	15.237	
17,900.0	11,775.0	17,884.0	11,777.8	55.8	53.4	90.10	5,915.2	625.2	1,626.7	1,518.6	108.09	15.049	
18,000.0	11,775.0	17,984.0	11,777.8	56.5	54.0	90.10	6,015.2	623.7	1,626.4	1,517.0	109.41	14.864	
18,100.0	11,775.0	18,084.0	11,777.8	57.1	54.7	90.10	6,115.2	622.1	1,626.1	1,515.4	110.74	14.684	
18,200.0	11,775.0	18,184.0	11,777.8	57.7	55.4	90.10	6,215.2	620.6	1,625.9	1,513.8	112.08	14.506	
18,300.0	11,775.0	18,284.0	11,777.8	58.4	56.0	90.10	6,315.1	619.1	1,625.6	1,512.2	113.42	14.333	
18,400.0	11,775.0	18,384.0	11,777.8	59.0	56.7	90.10	6,415.1	617.6	1,625.3	1,510.5	114.76	14.163	
18,500.0	11,775.0	18,484.0	11,777.8	59.7	57.4	90.10	6,515.1	616.1	1,625.0	1,508.9	116.11	13.996	
18,600.0	11,775.0	18,584.0	11,777.8	60.3	58.1	90.10	6,615.1	614.6	1,624.8	1,507.3	117.46	13.832	
18,700.0	11,775.0	18,684.0	11,777.8	61.0	58.7	90.10	6,715.1	613.1	1,624.5	1,505.7	118.82	13.672	
18,800.0	11,775.0	18,784.0	11,777.8	61.6	59.4	90.10	6,815.1	611.6	1,624.2	1,504.0	120.18	13.515	
18,900.0	11,775.0	18,884.0	11,777.8	62.3	60.1	90.10	6,915.1	610.1	1,624.0	1,502.4	121.55	13.361	
19,000.0	11,775.0	18,984.0	11,777.8	63.0	60.8	90.10	7,015.1	608.6	1,623.7	1,500.8	122.91	13.210	
19,100.0	11,775.0	19,084.0	11,777.8	63.6	61.5	90.10	7,115.1	607.1	1,623.4	1,499.1	124.29	13.062	
19,200.0	11,775.0	19,184.0	11,777.8	64.3	62.2	90.10	7,215.0	605.6	1,623.1	1,497.5	125.66	12.917	
19,300.0	11,775.0	19,284.0	11,777.8	65.0	62.9	90.10	7,315.0	604.1	1,622.9	1,495.8	127.04	12.774	
19,400.0	11,775.0	19,384.0	11,777.8	65.6	63.6	90.10	7,415.0	602.6	1,622.6	1,494.2	128.43	12.635	
19,500.0	11,775.0	19,484.0	11,777.8	66.3	64.3	90.10	7,515.0	601.1	1,622.3	1,492.5	129.81	12.498	
19,600.0	11,775.0	19,584.0	11,777.8	67.0	65.0	90.10	7,615.0	599.6	1,622.1	1,490.8	131.20	12.363	
19,700.0	11,775.0	19,684.0	11,777.8	67.7	65.7	90.10	7,715.0	598.1	1,621.8	1,489.2	132.59	12.231	
19,800.0	11,775.0	19,784.0	11,777.8	68.3	66.4	90.10	7,815.0	596.6	1,621.5	1,487.5	133.99	12.102	
19,900.0	11,775.0	19,884.0	11,777.8	69.0	67.1	90.10	7,915.0	595.1	1,621.2	1,485.8	135.39	11.975	
20,000.0	11,775.0	19,984.0	11,777.8	69.7	67.8	90.10	8,014.9	593.6	1,621.0	1,484.2	136.79	11.850	
20,100.0	11,775.0	20,084.0	11,777.8	70.4	68.5	90.10	8,114.9	592.1	1,620.7	1,482.5	138.19	11.728	
20,200.0	11,775.0	20,184.0	11,777.8	71.1	69.2	90.10	8,214.9	590.6	1,620.4	1,480.8	139.60	11.608	
20,300.0	11,775.0	20,284.0	11,777.8	71.8	69.9	90.10	8,314.9	589.1	1,620.2	1,479.1	141.01	11.490	
20,400.0	11,775.0	20,384.0	11,777.8	72.5	70.6	90.10	8,414.9	587.6	1,619.9	1,477.5	142.42	11.374	
20,500.0	11,775.0	20,484.0	11,777.8	73.1	71.3	90.10	8,514.9	586.0	1,619.6	1,475.8	143.83	11.260	
20,600.0	11,775.0	20,584.0	11,777.8	73.8	72.0	90.10	8,614.9	584.5	1,619.3	1,474.1	145.25	11.149	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11252-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
20,700.0	11,775.0	20,684.0	11,777.8	74.5	72.7	90.10	8,714.9	583.0	1,619.1	1,472.4	146.67	11.039	
20,800.0	11,775.0	20,784.0	11,777.8	75.2	73.4	90.10	8,814.9	581.5	1,618.8	1,470.7	148.09	10.931	
20,900.0	11,775.0	20,884.0	11,777.8	75.9	74.1	90.10	8,914.8	580.0	1,618.5	1,469.0	149.51	10.826	
21,000.0	11,775.0	20,984.0	11,777.8	76.6	74.9	90.10	9,014.8	578.5	1,618.3	1,467.3	150.93	10.722	
21,100.0	11,775.0	21,084.0	11,777.8	77.3	75.6	90.10	9,114.8	577.0	1,618.0	1,465.6	152.36	10.619	
21,200.0	11,775.0	21,184.0	11,777.8	78.0	76.3	90.10	9,214.8	575.5	1,617.7	1,463.9	153.79	10.519	
21,300.0	11,775.0	21,284.0	11,777.8	78.7	77.0	90.10	9,314.8	574.0	1,617.4	1,462.2	155.22	10.420	
21,400.0	11,775.0	21,384.0	11,777.8	79.4	77.7	90.10	9,414.8	572.5	1,617.2	1,460.5	156.65	10.323	
21,500.0	11,775.0	21,484.0	11,777.8	80.1	78.5	90.10	9,514.8	571.0	1,616.9	1,458.8	158.09	10.228	
21,600.0	11,775.0	21,584.0	11,777.8	80.8	79.2	90.10	9,614.8	569.5	1,616.6	1,457.1	159.52	10.134	
21,700.0	11,775.0	21,684.0	11,777.8	81.5	79.9	90.10	9,714.8	568.0	1,616.4	1,455.4	160.96	10.042	
21,800.0	11,775.0	21,784.0	11,777.8	82.2	80.6	90.10	9,814.7	566.5	1,616.1	1,453.7	162.40	9.951	
21,900.0	11,775.0	21,884.0	11,777.8	83.0	81.3	90.10	9,914.7	565.0	1,615.8	1,452.0	163.84	9.862	
22,000.0	11,775.0	21,984.0	11,777.8	83.7	82.1	90.10	10,014.7	563.5	1,615.5	1,450.3	165.28	9.774	
22,100.0	11,775.0	22,084.0	11,777.8	84.4	82.8	90.10	10,114.7	562.0	1,615.3	1,448.5	166.72	9.688	
22,200.0	11,775.0	22,184.0	11,777.8	85.1	83.5	90.10	10,214.7	560.5	1,615.0	1,446.8	168.17	9.603	
22,300.0	11,775.0	22,284.0	11,777.8	85.8	84.2	90.10	10,314.7	559.0	1,614.7	1,445.1	169.62	9.520	
22,400.0	11,775.0	22,384.0	11,777.8	86.5	85.0	90.10	10,414.7	557.5	1,614.5	1,443.4	171.07	9.438	
22,500.0	11,775.0	22,484.0	11,777.8	87.2	85.7	90.10	10,514.7	556.0	1,614.2	1,441.7	172.52	9.357	
22,600.0	11,775.0	22,584.0	11,777.8	87.9	86.4	90.10	10,614.6	554.5	1,613.9	1,439.9	173.97	9.277	
22,700.0	11,775.0	22,684.0	11,777.8	88.7	87.2	90.10	10,714.6	553.0	1,613.6	1,438.2	175.42	9.199	
22,800.0	11,775.0	22,784.0	11,777.8	89.4	87.9	90.10	10,814.6	551.5	1,613.4	1,436.5	176.87	9.122	
22,900.0	11,775.0	22,884.0	11,777.8	90.1	88.6	90.10	10,914.6	549.9	1,613.1	1,434.8	178.33	9.046	
23,000.0	11,775.0	22,984.0	11,777.8	90.8	89.4	90.10	11,014.6	548.4	1,612.8	1,433.0	179.78	8.971	
23,100.0	11,775.0	23,084.0	11,777.8	91.5	90.1	90.10	11,114.6	546.9	1,612.6	1,431.3	181.24	8.897	
23,200.0	11,775.0	23,184.0	11,777.8	92.2	90.8	90.10	11,214.6	545.4	1,612.3	1,429.6	182.70	8.825	
23,300.0	11,775.0	23,284.0	11,777.8	93.0	91.6	90.10	11,314.6	543.9	1,612.0	1,427.9	184.16	8.753	
23,400.0	11,775.0	23,384.0	11,777.8	93.7	92.3	90.10	11,414.6	542.4	1,611.7	1,426.1	185.62	8.683	
23,500.0	11,775.0	23,484.0	11,777.8	94.4	93.0	90.10	11,514.5	540.9	1,611.5	1,424.4	187.08	8.614	
23,600.0	11,775.0	23,584.0	11,777.8	95.1	93.8	90.10	11,614.5	539.4	1,611.2	1,422.7	188.54	8.546	
23,700.0	11,775.0	23,684.0	11,777.8	95.9	94.5	90.10	11,714.5	537.9	1,610.9	1,420.9	190.01	8.478	
23,800.0	11,775.0	23,784.0	11,777.8	96.6	95.2	90.10	11,814.5	536.4	1,610.7	1,419.2	191.47	8.412	
23,900.0	11,775.0	23,884.0	11,777.8	97.3	96.0	90.10	11,914.5	534.9	1,610.4	1,417.4	192.94	8.347	
24,000.0	11,775.0	23,984.0	11,777.8	98.0	96.7	90.10	12,014.5	533.4	1,610.1	1,415.7	194.40	8.282	
24,100.0	11,775.0	24,084.0	11,777.8	98.8	97.4	90.10	12,114.5	531.9	1,609.8	1,414.0	195.87	8.219	
24,200.0	11,775.0	24,184.0	11,777.8	99.5	98.2	90.10	12,214.5	530.4	1,609.6	1,412.2	197.34	8.156	
24,300.0	11,775.0	24,284.0	11,777.8	100.2	98.9	90.10	12,314.4	528.9	1,609.3	1,410.5	198.81	8.095	
24,400.0	11,775.0	24,384.0	11,777.8	100.9	99.6	90.10	12,414.4	527.4	1,609.0	1,408.7	200.28	8.034	
24,500.0	11,775.0	24,484.0	11,777.8	101.7	100.4	90.10	12,514.4	525.9	1,608.8	1,407.0	201.75	7.974	
24,600.0	11,775.0	24,584.0	11,777.8	102.4	101.1	90.10	12,614.4	524.4	1,608.5	1,405.3	203.22	7.915	
24,700.0	11,775.0	24,684.0	11,777.8	103.1	101.9	90.10	12,714.4	522.9	1,608.2	1,403.5	204.70	7.857	
24,795.0	11,775.0	24,774.6	11,777.8	103.8	102.5	90.10	12,805.0	521.5	1,608.0	1,401.9	206.06	7.803	
24,800.0	11,775.0	24,774.6	11,777.8	103.9	102.5	90.10	12,805.0	521.5	1,608.0	1,401.9	206.09	7.802	
24,803.7	11,775.0	24,774.6	11,777.8	103.9	102.5	90.10	12,805.0	521.5	1,608.0	1,401.9	206.11	7.801 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11118-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	
0.0	0.0	0.9	0.0	3.0	3.0	89.21	2.1	150.0	150.0				
100.0	100.0	100.9	100.0	3.0	3.0	89.21	2.1	150.0	150.0	144.0	6.05	24.788	
200.0	200.0	200.9	200.0	3.2	3.2	89.21	2.1	150.0	150.0	143.7	6.30	23.823	
300.0	300.0	300.9	300.0	3.3	3.3	89.21	2.1	150.0	150.0	143.5	6.53	22.963	
400.0	400.0	400.9	400.0	3.4	3.4	89.21	2.1	150.0	150.0	143.3	6.76	22.190	
500.0	500.0	500.9	500.0	3.5	3.5	89.21	2.1	150.0	150.0	143.0	6.98	21.490	
600.0	600.0	600.9	600.0	3.6	3.6	89.21	2.1	150.0	150.0	142.8	7.19	20.853	
700.0	700.0	700.9	700.0	3.8	3.8	89.21	2.1	150.0	150.0	142.6	7.40	20.269	
800.0	800.0	800.9	800.0	3.9	3.9	89.21	2.1	150.0	150.0	142.4	7.60	19.732	
900.0	900.0	900.9	900.0	4.0	4.0	89.21	2.1	150.0	150.0	142.2	7.80	19.235	
916.4	916.4	917.3	916.4	4.0	4.0	89.21	2.1	150.0	150.0	142.2	7.83	19.159 CC	
1,000.0	1,000.0	1,000.0	999.1	4.1	4.1	89.21	2.1	150.0	150.0	142.0	7.99	18.776 ES	
1,100.0	1,100.0	1,096.2	1,095.3	4.2	4.3	89.43	1.5	151.5	151.6	143.3	8.27	18.328	
1,200.0	1,200.0	1,191.3	1,190.3	4.4	4.5	90.08	-0.2	156.0	156.3	147.6	8.63	18.112	
1,300.0	1,300.0	1,286.0	1,284.6	4.5	4.8	91.06	-3.0	163.3	164.1	155.1	8.99	18.246	
1,400.0	1,400.0	1,380.1	1,378.1	4.6	5.1	92.29	-6.9	173.5	175.0	165.7	9.36	18.691	
1,500.0	1,500.0	1,473.3	1,470.3	4.7	5.4	93.65	-11.9	186.4	189.2	179.4	9.75	19.405	
1,600.0	1,600.0	1,569.1	1,564.5	4.8	5.7	-151.98	-17.9	202.1	207.1	197.0	10.12	20.455	
1,700.0	1,699.9	1,666.9	1,660.8	5.0	6.0	-151.06	-24.2	218.3	227.6	217.0	10.62	21.433	
1,800.0	1,799.7	1,764.2	1,756.6	5.2	6.3	-150.54	-30.4	234.5	250.4	239.3	11.15	22.465	
1,900.0	1,899.3	1,861.1	1,851.9	5.4	6.6	-150.35	-36.5	250.6	275.5	263.8	11.70	23.543	
2,000.0	1,998.6	1,957.3	1,946.6	5.6	7.0	-150.39	-42.7	266.6	302.7	290.4	12.28	24.656	
2,100.0	2,097.5	2,052.8	2,040.6	5.9	7.3	-150.60	-48.8	282.5	332.1	319.2	12.87	25.793	
2,200.0	2,196.1	2,147.6	2,133.9	6.2	7.6	-150.93	-54.8	298.2	363.7	350.2	13.50	26.948	
2,300.0	2,294.3	2,241.8	2,226.6	6.5	8.0	-151.48	-60.8	313.9	397.0	383.0	14.06	28.235	
2,400.0	2,392.4	2,336.0	2,319.2	6.8	8.4	-152.03	-66.8	329.5	430.5	415.8	14.70	29.287	
2,500.0	2,490.6	2,430.1	2,411.9	7.2	8.7	-152.50	-72.8	345.1	464.0	448.7	15.36	30.215	
2,600.0	2,588.8	2,524.3	2,504.5	7.5	9.1	-152.90	-78.8	360.8	497.6	481.5	16.03	31.035	
2,700.0	2,686.9	2,618.5	2,597.2	7.9	9.5	-153.25	-84.8	376.4	531.1	514.4	16.72	31.762	
2,800.0	2,785.1	2,712.6	2,689.8	8.3	9.9	-153.56	-90.8	392.1	564.7	547.3	17.42	32.408	
2,900.0	2,883.3	2,806.8	2,782.5	8.6	10.3	-153.84	-96.8	407.7	598.3	580.1	18.14	32.983	
3,000.0	2,981.4	2,900.9	2,875.1	9.0	10.6	-154.09	-102.8	423.3	631.9	613.0	18.86	33.497	
3,100.0	3,079.6	2,995.1	2,967.8	9.4	11.0	-154.31	-108.8	439.0	665.5	645.9	19.60	33.958	
3,200.0	3,177.7	3,089.2	3,060.4	9.8	11.4	-154.51	-114.9	454.6	699.1	678.8	20.34	34.372	
3,300.0	3,275.9	3,183.4	3,153.1	10.3	11.8	-154.69	-120.9	470.3	732.7	711.6	21.09	34.745	
3,400.0	3,374.1	3,277.5	3,245.7	10.7	12.2	-154.86	-126.9	485.9	766.3	744.5	21.84	35.083	
3,500.0	3,472.2	3,371.7	3,338.4	11.1	12.6	-155.01	-132.9	501.5	800.0	777.4	22.61	35.389	
3,600.0	3,570.4	3,465.8	3,431.0	11.5	13.0	-155.15	-138.9	517.2	833.6	810.2	23.37	35.668	
3,700.0	3,668.6	3,560.0	3,523.7	11.9	13.5	-155.28	-144.9	532.8	867.3	843.1	24.14	35.921	
3,800.0	3,766.7	3,654.1	3,616.3	12.4	13.9	-155.40	-150.9	548.5	900.9	876.0	24.92	36.154	
3,900.0	3,864.9	3,748.3	3,709.0	12.8	14.3	-155.51	-156.9	564.1	934.6	908.9	25.70	36.366	
4,000.0	3,963.0	3,842.5	3,801.6	13.2	14.7	-155.61	-162.9	579.8	968.2	941.7	26.48	36.562	
4,100.0	4,061.2	3,936.6	3,894.3	13.7	15.1	-155.71	-168.9	595.4	1,001.9	974.6	27.27	36.741	
4,200.0	4,159.4	4,030.8	3,986.9	14.1	15.5	-155.80	-174.9	611.0	1,035.5	1,007.5	28.06	36.907	
4,300.0	4,257.5	4,124.9	4,079.6	14.6	15.9	-155.88	-180.9	626.7	1,069.2	1,040.3	28.85	37.061	
4,400.0	4,355.7	4,219.1	4,172.2	15.0	16.3	-155.96	-186.9	642.3	1,102.8	1,073.2	29.64	37.203	
4,500.0	4,453.9	4,313.2	4,264.9	15.4	16.8	-156.04	-192.9	658.0	1,136.5	1,106.1	30.44	37.335	
4,600.0	4,552.0	4,407.4	4,357.5	15.9	17.2	-156.11	-198.9	673.6	1,170.2	1,138.9	31.24	37.458	
4,700.0	4,650.2	4,501.5	4,450.2	16.3	17.6	-156.17	-204.9	689.2	1,203.8	1,171.8	32.04	37.572	
4,800.0	4,748.3	4,595.7	4,542.8	16.8	18.0	-156.24	-210.9	704.9	1,237.5	1,204.7	32.84	37.679	
4,900.0	4,846.5	4,689.8	4,635.5	17.2	18.4	-156.29	-216.9	720.5	1,271.2	1,237.5	33.65	37.778	
5,000.0	4,944.7	4,784.0	4,728.1	17.7	18.8	-156.35	-222.9	736.2	1,304.8	1,270.4	34.45	37.871	

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

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Anticollision Report

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Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11118-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	
5,100.0	5,042.8	4,878.1	4,820.8	18.1	19.3	-156.40	-228.9	751.8	1,338.5	1,303.3	35.26	37.959	
5,200.0	5,141.0	4,972.3	4,913.5	18.6	19.7	-156.46	-234.9	767.5	1,372.2	1,336.1	36.07	38.041	
5,300.0	5,239.2	5,066.5	5,006.1	19.0	20.1	-156.50	-240.9	783.1	1,405.9	1,369.0	36.88	38.118	
5,400.0	5,337.3	5,160.6	5,098.8	19.5	20.5	-156.55	-246.9	798.7	1,439.5	1,401.8	37.69	38.190	
5,500.0	5,435.5	5,254.8	5,191.4	19.9	21.0	-156.59	-252.9	814.4	1,473.2	1,434.7	38.51	38.259	
5,600.0	5,533.6	5,348.9	5,284.1	20.4	21.4	-156.64	-258.9	830.0	1,506.9	1,467.6	39.32	38.323	
5,700.0	5,631.8	5,443.1	5,376.7	20.8	21.8	-156.68	-265.0	845.7	1,540.6	1,500.4	40.14	38.384	
5,800.0	5,730.0	5,537.2	5,469.4	21.3	22.2	-156.71	-271.0	861.3	1,574.2	1,533.3	40.95	38.441	
5,900.0	5,828.1	5,631.4	5,562.0	21.7	22.6	-156.75	-277.0	876.9	1,607.9	1,566.1	41.77	38.496	
6,000.0	5,926.3	5,725.5	5,654.7	22.2	23.1	-156.79	-283.0	892.6	1,641.6	1,599.0	42.59	38.547	
6,100.0	6,024.5	5,819.8	5,747.4	22.6	23.5	-156.87	-289.0	908.2	1,675.0	1,631.6	43.39	38.603	
6,200.0	6,122.9	5,914.3	5,840.4	23.1	23.9	-156.96	-295.0	923.9	1,707.7	1,663.5	44.21	38.630	
6,300.0	6,221.4	6,009.0	5,933.6	23.5	24.3	-157.03	-301.0	939.7	1,739.7	1,694.7	45.02	38.641	
6,400.0	6,320.1	6,104.0	6,027.1	24.0	24.8	-157.08	-307.1	955.5	1,770.9	1,725.1	45.83	38.638	
6,500.0	6,418.9	6,211.8	6,133.2	24.4	25.2	-157.13	-313.9	973.1	1,801.1	1,754.3	46.72	38.546	
6,600.0	6,517.8	6,324.2	6,244.0	24.9	25.7	-157.17	-320.5	990.5	1,829.6	1,782.0	47.65	38.396	
6,700.0	6,616.9	6,437.4	6,355.9	25.3	26.2	-157.21	-326.9	1,007.0	1,856.5	1,808.0	48.57	38.225	
6,800.0	6,716.1	6,551.5	6,468.7	25.7	26.7	-157.24	-332.8	1,022.5	1,881.8	1,832.3	49.48	38.034	
6,900.0	6,815.3	6,666.3	6,582.5	26.1	27.2	-157.28	-338.5	1,037.1	1,905.3	1,854.9	50.37	37.826	
7,000.0	6,914.7	6,781.9	6,697.1	26.5	27.7	-157.31	-343.7	1,050.8	1,927.2	1,875.9	51.25	37.602	
7,100.0	7,014.2	6,898.1	6,812.5	26.9	28.2	-157.33	-348.5	1,063.4	1,947.3	1,895.2	52.12	37.364	
7,200.0	7,113.8	7,014.9	6,928.7	27.3	28.7	-157.36	-353.0	1,075.0	1,965.8	1,912.8	52.97	37.114	
7,300.0	7,213.4	7,132.3	7,045.6	27.7	29.1	-157.38	-357.0	1,085.5	1,982.5	1,928.7	53.79	36.853	
7,400.0	7,313.1	7,250.3	7,163.1	28.1	29.6	-157.40	-360.7	1,095.0	1,997.5	1,942.9	54.60	36.582	
7,500.0	7,412.9	7,368.6	7,281.1	28.4	30.0	-157.42	-363.9	1,103.3	2,010.7	1,955.3	55.39	36.303	
7,600.0	7,512.7	7,487.4	7,399.7	28.8	30.5	-157.44	-366.6	1,110.6	2,022.1	1,966.0	56.14	36.017	
7,700.0	7,612.6	7,606.6	7,518.6	29.1	30.9	-157.46	-369.0	1,116.7	2,031.9	1,975.0	56.87	35.727	
7,800.0	7,712.5	7,726.0	7,637.9	29.5	31.3	-157.47	-370.9	1,121.6	2,039.8	1,982.2	57.56	35.436	
7,900.0	7,812.4	7,845.6	7,757.5	29.8	31.7	-157.48	-372.4	1,125.4	2,046.0	1,987.7	58.21	35.147	
8,000.0	7,912.4	7,965.5	7,877.3	30.1	32.0	-157.49	-373.4	1,128.1	2,050.4	1,991.5	58.81	34.863	
8,100.0	8,012.4	8,085.4	7,997.2	30.3	32.3	-157.50	-373.9	1,129.6	2,053.0	1,993.6	59.34	34.596	
8,200.0	8,112.4	8,200.6	8,112.4	30.5	32.4	-157.50	-374.1	1,129.9	2,053.8	1,994.2	59.65	34.433	
8,300.0	8,212.4	8,300.6	8,212.4	30.6	32.4	89.50	-374.1	1,129.9	2,053.8	1,994.2	59.69	34.409	
8,400.0	8,312.4	8,400.6	8,312.4	30.6	32.5	89.50	-374.1	1,129.9	2,053.8	1,994.1	59.73	34.387	
8,500.0	8,412.4	8,500.6	8,412.4	30.6	32.5	89.50	-374.1	1,129.9	2,053.8	1,994.1	59.76	34.365	
8,600.0	8,512.4	8,600.6	8,512.4	30.6	32.5	89.50	-374.1	1,129.9	2,053.8	1,994.0	59.80	34.343	
8,700.0	8,612.4	8,700.6	8,612.4	30.6	32.5	89.50	-374.1	1,129.9	2,053.8	1,994.0	59.84	34.321	
8,800.0	8,712.4	8,800.6	8,712.4	30.7	32.5	89.50	-374.1	1,129.9	2,053.8	1,994.0	59.88	34.299	
8,900.0	8,812.4	8,900.6	8,812.4	30.7	32.5	89.50	-374.1	1,129.9	2,053.8	1,993.9	59.92	34.277	
9,000.0	8,912.4	9,000.6	8,912.4	30.7	32.6	89.50	-374.1	1,129.9	2,053.8	1,993.9	59.96	34.254	
9,100.0	9,012.4	9,100.6	9,012.4	30.7	32.6	89.50	-374.1	1,129.9	2,053.8	1,993.8	60.00	34.231	
9,200.0	9,112.4	9,200.6	9,112.4	30.7	32.6	89.50	-374.1	1,129.9	2,053.8	1,993.8	60.04	34.208	
9,300.0	9,212.4	9,300.6	9,212.4	30.8	32.6	89.50	-374.1	1,129.9	2,053.8	1,993.8	60.08	34.184	
9,400.0	9,312.4	9,400.6	9,312.4	30.8	32.6	89.50	-374.1	1,129.9	2,053.8	1,993.7	60.12	34.161	
9,500.0	9,412.4	9,500.6	9,412.4	30.8	32.7	89.50	-374.1	1,129.9	2,053.8	1,993.7	60.16	34.137	
9,600.0	9,512.4	9,600.6	9,512.4	30.8	32.7	89.50	-374.1	1,129.9	2,053.8	1,993.6	60.21	34.113	
9,700.0	9,612.4	9,700.6	9,612.4	30.8	32.7	89.50	-374.1	1,129.9	2,053.8	1,993.6	60.25	34.089	
9,800.0	9,712.4	9,800.6	9,712.4	30.9	32.7	89.50	-374.1	1,129.9	2,053.8	1,993.6	60.29	34.065	
9,900.0	9,812.4	9,900.6	9,812.4	30.9	32.7	89.50	-374.1	1,129.9	2,053.8	1,993.5	60.34	34.040	
10,000.0	9,912.4	10,000.6	9,912.4	30.9	32.8	89.50	-374.1	1,129.9	2,053.8	1,993.5	60.38	34.015	
10,100.0	10,012.4	10,100.6	10,012.4	30.9	32.8	89.50	-374.1	1,129.9	2,053.8	1,993.4	60.42	33.990	
10,200.0	10,112.4	10,200.6	10,112.4	30.9	32.8	89.50	-374.1	1,129.9	2,053.8	1,993.4	60.47	33.965	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11118-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	
10,300.0	10,212.4	10,300.6	10,212.4	31.0	32.8	89.50	-374.1	1,129.9	2,053.8	1,993.3	60.51	33.940	
10,400.0	10,312.4	10,400.6	10,312.4	31.0	32.9	89.50	-374.1	1,129.9	2,053.8	1,993.3	60.56	33.914	
10,500.0	10,412.4	10,500.6	10,412.4	31.0	32.9	89.50	-374.1	1,129.9	2,053.8	1,993.2	60.61	33.889	
10,600.0	10,512.4	10,600.6	10,512.4	31.0	32.9	89.50	-374.1	1,129.9	2,053.8	1,993.2	60.65	33.863	
10,700.0	10,612.4	10,700.6	10,612.4	31.1	32.9	89.50	-374.1	1,129.9	2,053.8	1,993.1	60.70	33.837	
10,800.0	10,712.4	10,800.6	10,712.4	31.1	32.9	89.50	-374.1	1,129.9	2,053.8	1,993.1	60.75	33.810	
10,900.0	10,812.4	10,900.6	10,812.4	31.1	33.0	89.50	-374.1	1,129.9	2,053.8	1,993.1	60.79	33.784	
11,000.0	10,912.4	11,000.6	10,912.4	31.1	33.0	89.50	-374.1	1,129.9	2,053.8	1,993.0	60.84	33.757	
11,100.0	11,012.4	11,100.6	11,012.4	31.2	33.0	89.50	-374.1	1,129.9	2,053.8	1,993.0	60.89	33.731	
11,200.0	11,112.4	11,202.8	11,114.3	31.2	33.0	89.32	-367.8	1,129.8	2,053.8	1,992.9	60.92	33.715	
11,267.1	11,179.5	11,269.3	11,179.4	31.2	33.0	89.66	-354.3	1,129.5	2,053.8	1,992.8	60.92	33.710	
11,300.0	11,212.4	11,300.0	11,208.8	31.2	33.0	89.41	-345.5	1,129.4	2,053.8	1,992.9	60.93	33.710	
11,400.0	11,311.7	11,392.2	11,293.7	31.2	33.1	88.63	-309.8	1,128.7	2,054.1	1,993.2	60.91	33.724	
11,500.0	11,407.7	11,480.3	11,368.5	31.2	33.1	87.91	-263.5	1,127.9	2,054.6	1,993.7	60.88	33.747	
11,600.0	11,497.4	11,565.4	11,433.2	31.3	33.1	87.25	-208.3	1,126.9	2,055.3	1,994.5	60.86	33.773	
11,700.0	11,578.2	11,650.0	11,488.7	31.3	33.1	86.65	-144.6	1,125.8	2,056.1	1,995.3	60.84	33.795	
11,800.0	11,647.5	11,728.9	11,531.5	31.3	33.2	86.16	-78.4	1,124.6	2,056.8	1,996.0	60.85	33.804	
11,900.0	11,703.3	11,808.2	11,565.0	31.4	33.2	85.75	-6.6	1,123.3	2,057.4	1,996.6	60.87	33.798	
12,000.0	11,743.9	11,886.3	11,587.9	31.4	33.2	85.45	68.0	1,122.0	2,057.8	1,996.9	60.93	33.771	
12,100.0	11,768.0	11,963.8	11,600.5	31.5	33.3	85.27	144.4	1,120.6	2,057.9	1,996.9	61.03	33.723	
12,200.0	11,775.0	12,047.5	11,603.1	31.6	33.4	85.21	228.0	1,119.1	2,057.7	1,996.5	61.15	33.649	
12,300.0	11,775.0	12,147.5	11,603.1	31.7	33.5	85.21	328.0	1,117.3	2,057.1	1,995.8	61.33	33.544	
12,400.0	11,775.0	12,247.5	11,603.1	31.8	33.6	85.21	428.0	1,115.5	2,056.5	1,995.0	61.54	33.418	
12,500.0	11,775.0	12,347.5	11,603.1	31.9	33.7	85.20	528.0	1,113.7	2,056.0	1,994.2	61.79	33.272	
12,600.0	11,775.0	12,447.5	11,603.1	32.1	33.9	85.20	627.9	1,111.9	2,055.4	1,993.3	62.08	33.109	
12,700.0	11,775.0	12,547.5	11,603.1	32.2	34.0	85.20	727.9	1,110.1	2,054.8	1,992.4	62.41	32.927	
12,800.0	11,775.0	12,647.5	11,603.1	32.4	34.2	85.20	827.9	1,108.3	2,054.3	1,991.5	62.77	32.729	
12,900.0	11,775.0	12,747.5	11,603.1	32.6	34.4	85.20	927.9	1,106.5	2,053.7	1,990.6	63.16	32.516	
13,000.0	11,775.0	12,847.5	11,603.1	32.8	34.6	85.20	1,027.9	1,104.7	2,053.2	1,989.6	63.59	32.287	
13,100.0	11,775.0	12,947.5	11,603.1	33.0	34.8	85.20	1,127.9	1,102.9	2,052.6	1,988.5	64.05	32.045	
13,200.0	11,775.0	13,047.5	11,603.1	33.3	35.0	85.19	1,227.8	1,101.1	2,052.0	1,987.5	64.55	31.790	
13,300.0	11,775.0	13,147.5	11,603.1	33.5	35.3	85.19	1,327.8	1,099.3	2,051.5	1,986.4	65.08	31.523	
13,400.0	11,775.0	13,247.5	11,603.1	33.8	35.5	85.19	1,427.8	1,097.5	2,050.9	1,985.3	65.64	31.246	
13,500.0	11,775.0	13,347.5	11,603.1	34.1	35.8	85.19	1,527.8	1,095.7	2,050.3	1,984.1	66.23	30.959	
13,600.0	11,775.0	13,447.5	11,603.1	34.4	36.1	85.19	1,627.8	1,093.9	2,049.8	1,982.9	66.85	30.663	
13,700.0	11,775.0	13,547.5	11,603.1	34.7	36.4	85.19	1,727.8	1,092.1	2,049.2	1,981.7	67.50	30.360	
13,800.0	11,775.0	13,647.5	11,603.1	35.0	36.7	85.19	1,827.7	1,090.3	2,048.7	1,980.5	68.18	30.050	
13,900.0	11,775.0	13,747.5	11,603.1	35.3	37.0	85.19	1,927.7	1,088.5	2,048.1	1,979.2	68.88	29.734	
14,000.0	11,775.0	13,847.5	11,603.1	35.6	37.3	85.18	2,027.7	1,086.7	2,047.5	1,977.9	69.61	29.414	
14,100.0	11,775.0	13,947.5	11,603.1	36.0	37.7	85.18	2,127.7	1,084.9	2,047.0	1,976.6	70.37	29.090	
14,200.0	11,775.0	14,047.5	11,603.1	36.4	38.0	85.18	2,227.7	1,083.1	2,046.4	1,975.3	71.15	28.762	
14,300.0	11,775.0	14,147.5	11,603.1	36.7	38.4	85.18	2,327.6	1,081.3	2,045.8	1,973.9	71.95	28.432	
14,400.0	11,775.0	14,247.5	11,603.1	37.1	38.7	85.18	2,427.6	1,079.5	2,045.3	1,972.5	72.78	28.101	
14,500.0	11,775.0	14,347.5	11,603.1	37.5	39.1	85.18	2,527.6	1,077.7	2,044.7	1,971.1	73.63	27.768	
14,600.0	11,775.0	14,447.5	11,603.1	37.9	39.5	85.18	2,627.6	1,075.9	2,044.1	1,969.6	74.51	27.436	
14,700.0	11,775.0	14,547.5	11,603.1	38.4	39.9	85.17	2,727.6	1,074.1	2,043.6	1,968.2	75.40	27.103	
14,800.0	11,775.0	14,647.5	11,603.1	38.8	40.3	85.17	2,827.6	1,072.3	2,043.0	1,966.7	76.32	26.771	
14,900.0	11,775.0	14,747.5	11,603.1	39.2	40.8	85.17	2,927.5	1,070.5	2,042.5	1,965.2	77.25	26.440	
15,000.0	11,775.0	14,847.5	11,603.1	39.7	41.2	85.17	3,027.5	1,068.7	2,041.9	1,963.7	78.20	26.111	
15,100.0	11,775.0	14,947.5	11,603.1	40.1	41.7	85.17	3,127.5	1,066.9	2,041.3	1,962.2	79.17	25.784	
15,200.0	11,775.0	15,047.5	11,603.1	40.6	42.1	85.17	3,227.5	1,065.2	2,040.8	1,960.6	80.16	25.459	
15,300.0	11,775.0	15,147.5	11,603.1	41.1	42.6	85.17	3,327.5	1,063.4	2,040.2	1,959.0	81.16	25.137	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11118-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	
15,400.0	11,775.0	15,247.5	11,603.1	41.6	43.0	85.17	3,427.5	1,061.6	2,039.6	1,957.5	82.18	24.818	
15,500.0	11,775.0	15,347.5	11,603.1	42.1	43.5	85.16	3,527.4	1,059.8	2,039.1	1,955.9	83.22	24.502	
15,600.0	11,775.0	15,447.4	11,603.1	42.6	44.0	85.16	3,627.4	1,058.0	2,038.5	1,954.2	84.27	24.190	
15,700.0	11,775.0	15,547.4	11,603.1	43.1	44.5	85.16	3,727.4	1,056.2	2,038.0	1,952.6	85.34	23.881	
15,800.0	11,775.0	15,647.4	11,603.1	43.6	45.0	85.16	3,827.4	1,054.4	2,037.4	1,951.0	86.42	23.576	
15,900.0	11,775.0	15,747.4	11,603.1	44.1	45.5	85.16	3,927.4	1,052.6	2,036.8	1,949.3	87.51	23.276	
16,000.0	11,775.0	15,847.4	11,603.1	44.7	46.0	85.16	4,027.3	1,050.8	2,036.3	1,947.7	88.62	22.979	
16,100.0	11,775.0	15,947.4	11,603.1	45.2	46.6	85.16	4,127.3	1,049.0	2,035.7	1,946.0	89.73	22.686	
16,200.0	11,775.0	16,047.4	11,603.1	45.7	47.1	85.15	4,227.3	1,047.2	2,035.1	1,944.3	90.86	22.398	
16,300.0	11,775.0	16,147.4	11,603.1	46.3	47.6	85.15	4,327.3	1,045.4	2,034.6	1,942.6	92.01	22.114	
16,400.0	11,775.0	16,247.4	11,603.1	46.9	48.2	85.15	4,427.3	1,043.6	2,034.0	1,940.9	93.16	21.834	
16,500.0	11,775.0	16,347.4	11,603.1	47.4	48.7	85.15	4,527.3	1,041.8	2,033.5	1,939.1	94.32	21.559	
16,600.0	11,775.0	16,447.4	11,603.1	48.0	49.3	85.15	4,627.2	1,040.0	2,032.9	1,937.4	95.50	21.288	
16,700.0	11,775.0	16,547.4	11,603.1	48.6	49.8	85.15	4,727.2	1,038.2	2,032.3	1,935.6	96.68	21.021	
16,800.0	11,775.0	16,647.4	11,603.1	49.1	50.4	85.15	4,827.2	1,036.4	2,031.8	1,933.9	97.87	20.759	
16,900.0	11,775.0	16,747.4	11,603.1	49.7	51.0	85.14	4,927.2	1,034.6	2,031.2	1,932.1	99.08	20.501	
17,000.0	11,775.0	16,847.4	11,603.1	50.3	51.6	85.14	5,027.2	1,032.8	2,030.6	1,930.4	100.29	20.248	
17,100.0	11,775.0	16,947.4	11,603.1	50.9	52.1	85.14	5,127.1	1,031.0	2,030.1	1,928.6	101.51	19.999	
17,200.0	11,775.0	17,047.4	11,603.1	51.5	52.7	85.14	5,227.1	1,029.2	2,029.5	1,926.8	102.74	19.755	
17,300.0	11,775.0	17,147.4	11,603.1	52.1	53.3	85.14	5,327.1	1,027.4	2,029.0	1,925.0	103.97	19.514	
17,400.0	11,775.0	17,247.4	11,603.1	52.7	53.9	85.14	5,427.1	1,025.6	2,028.4	1,923.2	105.22	19.278	
17,500.0	11,775.0	17,347.4	11,603.1	53.3	54.5	85.14	5,527.1	1,023.8	2,027.8	1,921.4	106.47	19.046	
17,600.0	11,775.0	17,447.4	11,603.1	54.0	55.1	85.14	5,627.1	1,022.0	2,027.3	1,919.5	107.73	18.819	
17,700.0	11,775.0	17,547.4	11,603.1	54.6	55.7	85.13	5,727.0	1,020.2	2,026.7	1,917.7	108.99	18.595	
17,800.0	11,775.0	17,647.4	11,603.1	55.2	56.3	85.13	5,827.0	1,018.4	2,026.1	1,915.9	110.26	18.375	
17,900.0	11,775.0	17,747.4	11,603.1	55.8	57.0	85.13	5,927.0	1,016.6	2,025.6	1,914.0	111.54	18.160	
18,000.0	11,775.0	17,847.4	11,603.1	56.5	57.6	85.13	6,027.0	1,014.8	2,025.0	1,912.2	112.83	17.948	
18,100.0	11,775.0	17,947.4	11,603.1	57.1	58.2	85.13	6,127.0	1,013.0	2,024.4	1,910.3	114.12	17.740	
18,200.0	11,775.0	18,047.4	11,603.1	57.7	58.8	85.13	6,227.0	1,011.2	2,023.9	1,908.5	115.42	17.536	
18,300.0	11,775.0	18,147.4	11,603.1	58.4	59.5	85.13	6,326.9	1,009.4	2,023.3	1,906.6	116.72	17.335	
18,400.0	11,775.0	18,247.4	11,603.1	59.0	60.1	85.12	6,426.9	1,007.6	2,022.8	1,904.7	118.03	17.138	
18,500.0	11,775.0	18,347.4	11,603.1	59.7	60.7	85.12	6,526.9	1,005.8	2,022.2	1,902.9	119.34	16.945	
18,600.0	11,775.0	18,447.4	11,603.1	60.3	61.4	85.12	6,626.9	1,004.0	2,021.6	1,901.0	120.66	16.755	
18,700.0	11,775.0	18,547.4	11,603.1	61.0	62.0	85.12	6,726.9	1,002.2	2,021.1	1,899.1	121.98	16.569	
18,800.0	11,775.0	18,647.4	11,603.1	61.6	62.7	85.12	6,826.8	1,000.4	2,020.5	1,897.2	123.31	16.386	
18,900.0	11,775.0	18,747.4	11,603.1	62.3	63.3	85.12	6,926.8	998.6	2,019.9	1,895.3	124.64	16.206	
19,000.0	11,775.0	18,847.4	11,603.1	63.0	64.0	85.12	7,026.8	996.8	2,019.4	1,893.4	125.98	16.030	
19,100.0	11,775.0	18,947.4	11,603.1	63.6	64.6	85.11	7,126.8	995.0	2,018.8	1,891.5	127.32	15.856	
19,200.0	11,775.0	19,047.4	11,603.1	64.3	65.3	85.11	7,226.8	993.2	2,018.3	1,889.6	128.66	15.686	
19,300.0	11,775.0	19,147.4	11,603.1	65.0	65.9	85.11	7,326.8	991.5	2,017.7	1,887.7	130.01	15.519	
19,400.0	11,775.0	19,247.4	11,603.1	65.6	66.6	85.11	7,426.7	989.7	2,017.1	1,885.8	131.37	15.355	
19,500.0	11,775.0	19,347.4	11,603.1	66.3	67.3	85.11	7,526.7	987.9	2,016.6	1,883.8	132.73	15.194	
19,600.0	11,775.0	19,447.4	11,603.1	67.0	67.9	85.11	7,626.7	986.1	2,016.0	1,881.9	134.09	15.035	
19,700.0	11,775.0	19,547.4	11,603.1	67.7	68.6	85.11	7,726.7	984.3	2,015.4	1,880.0	135.45	14.880	
19,800.0	11,775.0	19,647.4	11,603.1	68.3	69.3	85.11	7,826.7	982.5	2,014.9	1,878.1	136.82	14.727	
19,900.0	11,775.0	19,747.4	11,603.1	69.0	69.9	85.10	7,926.7	980.7	2,014.3	1,876.1	138.19	14.576	
20,000.0	11,775.0	19,847.4	11,603.1	69.7	70.6	85.10	8,026.6	978.9	2,013.8	1,874.2	139.56	14.429	
20,100.0	11,775.0	19,947.4	11,603.1	70.4	71.3	85.10	8,126.6	977.1	2,013.2	1,872.3	140.94	14.284	
20,200.0	11,775.0	20,047.4	11,603.1	71.1	72.0	85.10	8,226.6	975.3	2,012.6	1,870.3	142.32	14.141	
20,300.0	11,775.0	20,147.4	11,603.1	71.8	72.7	85.10	8,326.6	973.5	2,012.1	1,868.4	143.71	14.001	
20,400.0	11,775.0	20,247.4	11,603.1	72.5	73.3	85.10	8,426.6	971.7	2,011.5	1,866.4	145.09	13.863	
20,500.0	11,775.0	20,347.4	11,603.1	73.1	74.0	85.10	8,526.5	969.9	2,010.9	1,864.5	146.48	13.728	

CC - Min centre to center 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+MS, 11118-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	
20,600.0	11,775.0	20,447.4	11,603.1	73.8	74.7	85.09	8,626.5	968.1	2,010.4	1,862.5	147.88	13.595	
20,700.0	11,775.0	20,547.4	11,603.1	74.5	75.4	85.09	8,726.5	966.3	2,009.8	1,860.5	149.27	13.464	
20,800.0	11,775.0	20,647.4	11,603.1	75.2	76.1	85.09	8,826.5	964.5	2,009.3	1,858.6	150.67	13.335	
20,900.0	11,775.0	20,747.4	11,603.1	75.9	76.8	85.09	8,926.5	962.7	2,008.7	1,856.6	152.07	13.209	
21,000.0	11,775.0	20,847.4	11,603.1	76.6	77.5	85.09	9,026.5	960.9	2,008.1	1,854.7	153.47	13.085	
21,100.0	11,775.0	20,947.4	11,603.1	77.3	78.2	85.09	9,126.4	959.1	2,007.6	1,852.7	154.88	12.962	
21,200.0	11,775.0	21,047.4	11,603.1	78.0	78.9	85.09	9,226.4	957.3	2,007.0	1,850.7	156.29	12.842	
21,300.0	11,775.0	21,147.4	11,603.1	78.7	79.6	85.08	9,326.4	955.5	2,006.4	1,848.7	157.70	12.724	
21,400.0	11,775.0	21,247.4	11,603.1	79.4	80.2	85.08	9,426.4	953.7	2,005.9	1,846.8	159.11	12.607	
21,500.0	11,775.0	21,347.4	11,603.1	80.1	80.9	85.08	9,526.4	951.9	2,005.3	1,844.8	160.52	12.492	
21,600.0	11,775.0	21,447.4	11,603.1	80.8	81.6	85.08	9,626.3	950.1	2,004.8	1,842.8	161.94	12.380	
21,700.0	11,775.0	21,547.4	11,603.1	81.5	82.3	85.08	9,726.3	948.3	2,004.2	1,840.8	163.36	12.269	
21,800.0	11,775.0	21,647.4	11,603.1	82.2	83.0	85.08	9,826.3	946.5	2,003.6	1,838.8	164.78	12.160	
21,900.0	11,775.0	21,747.3	11,603.1	83.0	83.8	85.08	9,926.3	944.7	2,003.1	1,836.9	166.20	12.052	
22,000.0	11,775.0	21,847.3	11,603.1	83.7	84.5	85.07	10,026.3	942.9	2,002.5	1,834.9	167.62	11.946	
22,100.0	11,775.0	21,947.3	11,603.1	84.4	85.2	85.07	10,126.3	941.1	2,001.9	1,832.9	169.05	11.842	
22,200.0	11,775.0	22,047.3	11,603.1	85.1	85.9	85.07	10,226.2	939.3	2,001.4	1,830.9	170.48	11.740	
22,300.0	11,775.0	22,147.3	11,603.1	85.8	86.6	85.07	10,326.2	937.5	2,000.8	1,828.9	171.91	11.639	
22,400.0	11,775.0	22,247.3	11,603.1	86.5	87.3	85.07	10,426.2	935.7	2,000.2	1,826.9	173.34	11.540	
22,500.0	11,775.0	22,347.3	11,603.1	87.2	88.0	85.07	10,526.2	933.9	1,999.7	1,824.9	174.77	11.442	
22,600.0	11,775.0	22,447.3	11,603.1	87.9	88.7	85.07	10,626.2	932.1	1,999.1	1,822.9	176.20	11.346	
22,700.0	11,775.0	22,547.3	11,603.1	88.7	89.4	85.06	10,726.2	930.3	1,998.6	1,820.9	177.64	11.251	
22,800.0	11,775.0	22,647.3	11,603.1	89.4	90.1	85.06	10,826.1	928.5	1,998.0	1,818.9	179.08	11.157	
22,900.0	11,775.0	22,747.3	11,603.1	90.1	90.8	85.06	10,926.1	926.7	1,997.4	1,816.9	180.52	11.065	
23,000.0	11,775.0	22,847.3	11,603.1	90.8	91.6	85.06	11,026.1	924.9	1,996.9	1,814.9	181.96	10.974	
23,100.0	11,775.0	22,947.3	11,603.1	91.5	92.3	85.06	11,126.1	923.1	1,996.3	1,812.9	183.40	10.885	
23,200.0	11,775.0	23,047.3	11,603.1	92.2	93.0	85.06	11,226.1	921.3	1,995.7	1,810.9	184.84	10.797	
23,300.0	11,775.0	23,147.3	11,603.1	93.0	93.7	85.06	11,326.0	919.5	1,995.2	1,808.9	186.29	10.710	
23,400.0	11,775.0	23,247.3	11,603.1	93.7	94.4	85.05	11,426.0	917.8	1,994.6	1,806.9	187.73	10.625	
23,500.0	11,775.0	23,347.3	11,603.1	94.4	95.1	85.05	11,526.0	916.0	1,994.1	1,804.9	189.18	10.540	
23,600.0	11,775.0	23,447.3	11,603.1	95.1	95.9	85.05	11,626.0	914.2	1,993.5	1,802.9	190.63	10.457	
23,700.0	11,775.0	23,547.3	11,603.1	95.9	96.6	85.05	11,726.0	912.4	1,992.9	1,800.9	192.08	10.376	
23,800.0	11,775.0	23,647.3	11,603.1	96.6	97.3	85.05	11,826.0	910.6	1,992.4	1,798.8	193.53	10.295	
23,900.0	11,775.0	23,747.3	11,603.1	97.3	98.0	85.05	11,925.9	908.8	1,991.8	1,796.8	194.98	10.215	
24,000.0	11,775.0	23,847.3	11,603.1	98.0	98.7	85.05	12,025.9	907.0	1,991.2	1,794.8	196.44	10.137	
24,100.0	11,775.0	23,947.3	11,603.1	98.8	99.5	85.04	12,125.9	905.2	1,990.7	1,792.8	197.89	10.059	
24,200.0	11,775.0	24,047.3	11,603.1	99.5	100.2	85.04	12,225.9	903.4	1,990.1	1,790.8	199.35	9.983	
24,300.0	11,775.0	24,147.3	11,603.1	100.2	100.9	85.04	12,325.9	901.6	1,989.6	1,788.8	200.80	9.908	
24,400.0	11,775.0	24,247.3	11,603.1	100.9	101.6	85.04	12,425.9	899.8	1,989.0	1,786.7	202.26	9.834	
24,500.0	11,775.0	24,347.3	11,603.1	101.7	102.4	85.04	12,525.8	898.0	1,988.4	1,784.7	203.72	9.761	
24,600.0	11,775.0	24,447.3	11,603.1	102.4	103.1	85.04	12,625.8	896.2	1,987.9	1,782.7	205.18	9.688	
24,700.0	11,775.0	24,547.3	11,603.1	103.1	103.8	85.04	12,725.8	894.4	1,987.3	1,780.7	206.64	9.617	
24,750.8	11,775.0	24,586.9	11,603.1	103.5	104.1	85.04	12,765.4	893.7	1,987.1	1,779.7	207.31	9.585	
24,800.0	11,775.0	24,586.9	11,603.1	103.9	104.1	85.04	12,765.4	893.7	1,987.7	1,780.0	207.63	9.573	
24,803.7	11,775.0	24,586.9	11,603.1	103.9	104.1	85.04	12,765.4	893.7	1,987.8	1,780.1	207.65	9.573 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Reference Depths are relative to KB=27 @ 3202.2usft

Offset Depths are relative to Offset Datum

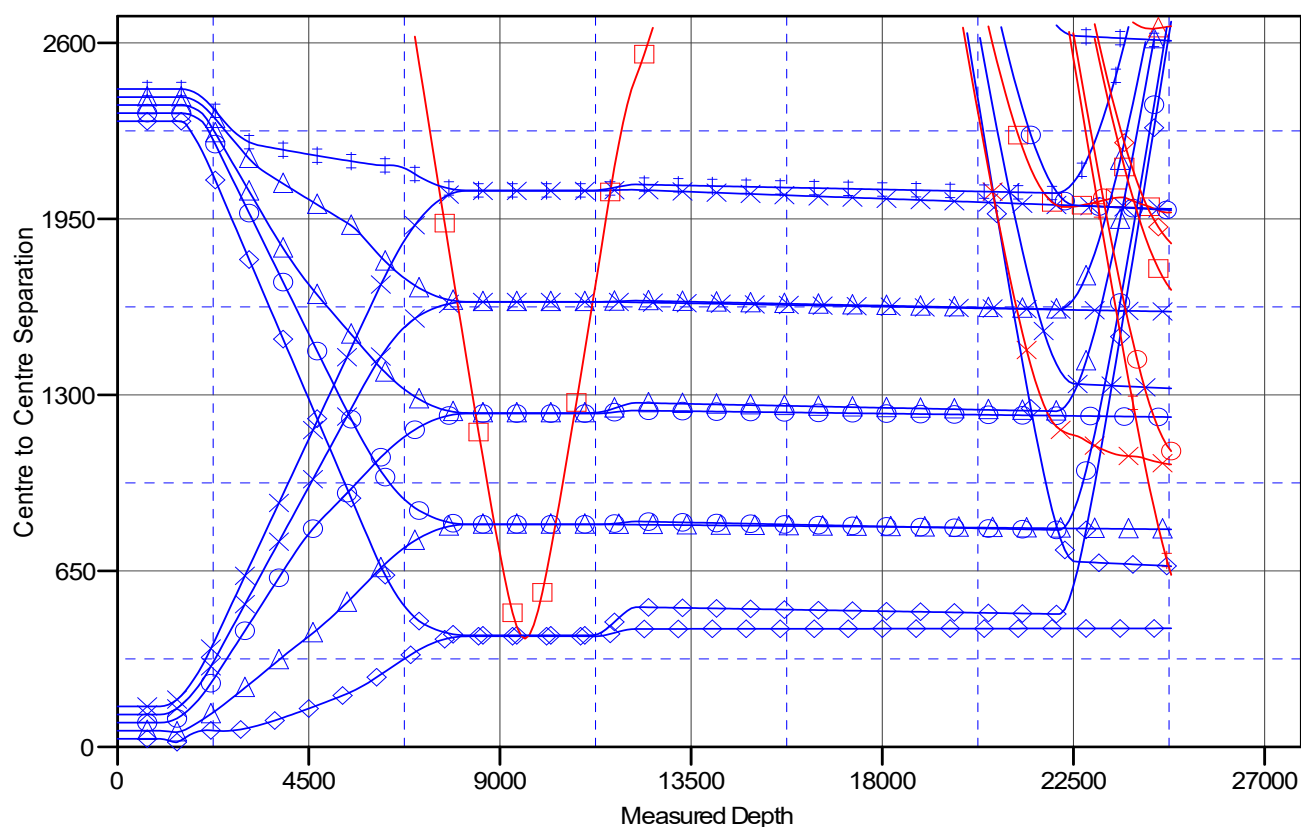
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2431 WC #701H

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

Grid Convergence at Surface is: 0.32°

Ladder Plot



LEGEND

ZA HILLS UNIT 2431 WC #704H, OWB, PWP0 V0
 ZA HILLS UNIT 2431 WC #709H, OWB, PWP0 V0
 ZA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0
 ZA HILLS UNIT 2431 WC #702H, OWB, PWP0 V0
 ZA HILLS UNIT 2431 WC #700H, OWB, PWP0 V0
 GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0
 ZA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
 SHETLAND 11 FEDERAL #77H, OWB, PWP0 V0

SHETLAND 11 FEDERAL #73H, OWB, PWP0 V0
 SHETLAND 11-2 FEDERAL STATE COM #732H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #633H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #613H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #713H, OWB, PWP0 V0
 SHETLAND 2-11 STATE FEDERAL COM #733H, OWB, PWP0 V0
 ZA HILLS UNIT 2331 WC #709H, OWB, PWP0 V0
 ZA HILLS UNIT 2331 WC #710H, OWB, PWP0 V0

ZA HILLS UNIT 2331 WC #711H, OWB, PWP0 V0
 ZA HILLS UNIT 2331 WC #712H, OWB, PWP0 V0
 SNAPPING 12 1 FEDERAL #32H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #21H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #71H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #72H, OWB, AWP 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 2431 WC #701H
Project:	BULLDOG PROSPECT (NM-E)	TVD Reference:	KB=27 @ 3202.2usft
Reference Site:	ZIA HILLS UNIT 2431 PROJECT	MD Reference:	KB=27 @ 3202.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	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:	Reference Datum

Reference Depths are relative to KB=27 @ 3202.2usft

Offset Depths are relative to Offset Datum

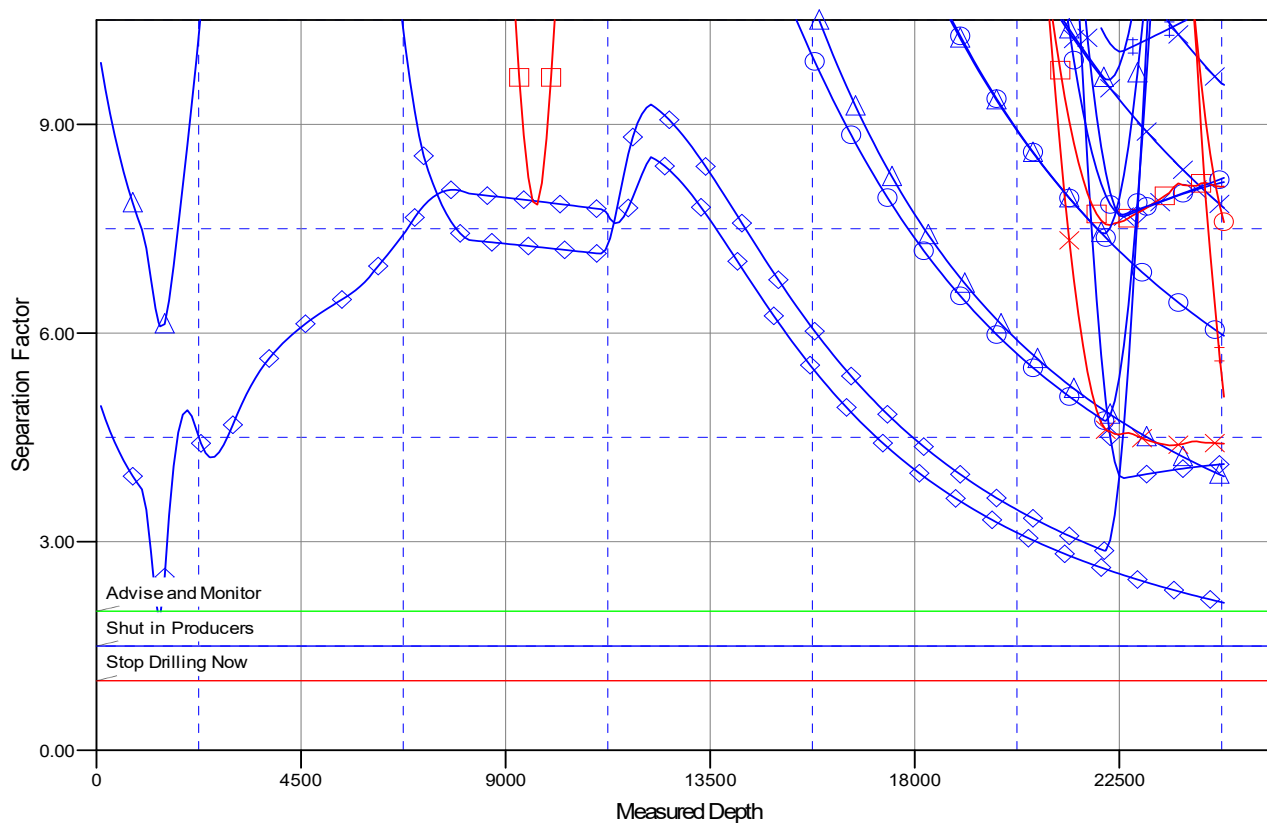
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 2431 WC #701H

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

Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2431 WC #704H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #706H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #707H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #708H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #709H, OWB, PWP0 V0
 GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0
 ZIA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
 SHETLAND 11 FEDERAL #714H, OWB, PWP0 V0

SHETLAND 11 FEDERAL #724H, OWB, PWP0 V0
 SHETLAND 11-2 FEDERAL STATE COM #725H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #726H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #727H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #728H, OWB, AWP V0
 SHETLAND 2-11 STATE FEDERAL COM #729H, OWB, PWP0 V0
 SHETLAND 2-11 STATE FEDERAL COM #730H, OWB, PWP0 V0
 ZIA HILLS UNIT 2331 WC #709H, OWB, PWP0 V0
 ZIA HILLS UNIT 2331 WC #710H, OWB, PWP0 V0

ZIA HILLS UNIT 2331 WC #711H, OWB, PWP0 V0
 ZIA HILLS UNIT 2331 WC #712H, OWB, PWP0 V0
 SNAPPING 12 1 FEDERAL #324H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #325H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #721H, OWB, AWP V0
 SNAPPING 12 1 FEDERAL #722H, OWB, AWP 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 2431 PROJECT

ZIA HILLS UNIT 2431 WC #701H

OWB

Plan: PWP0

Standard Planning Report

07 November, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	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		

Well	ZIA HILLS UNIT 2431 WC #701H			
Well Position	+N/-S	463.4 usft	Northing:	372,242.49 usft
	+E/-W	1,305.6 usft	Easting:	685,290.64 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:	
			Latitude:	32° 1' 19.199 N
			Longitude:	103° 44' 7.704 W
			Ground Level:	3,175.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/31/2023	6.34	59.52	47,263.54616411

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	355.15

Plan Survey Tool Program	Date	11/7/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP0 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp
2	1,500.0	11,290.0 PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	11,290.0	24,803.7 PWP0 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,233.3	11.00	247.00	2,228.8	-27.4	-64.6	1.50	1.50	0.00	247.00	
6,022.1	11.00	247.00	5,948.0	-309.9	-730.1	0.00	0.00	0.00	0.00	
8,222.1	0.00	0.00	8,134.5	-392.2	-923.9	0.50	-0.50	0.00	180.00	
11,289.6	0.00	0.00	11,202.0	-392.2	-923.9	0.00	0.00	0.00	0.00	
12,189.6	90.00	359.29	11,775.0	180.8	-930.9	10.00	10.00	-0.08	359.29	
24,803.7	90.00	359.29	11,775.0	12,793.9	-1,086.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	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	1.50	247.00	1,600.0	-0.5	-1.2	-0.4	1.50	1.50	0.00
1,700.0	3.00	247.00	1,699.9	-2.0	-4.8	-1.6	1.50	1.50	0.00
1,800.0	4.50	247.00	1,799.7	-4.6	-10.8	-3.7	1.50	1.50	0.00
1,900.0	6.00	247.00	1,899.3	-8.2	-19.3	-6.5	1.50	1.50	0.00
2,000.0	7.50	247.00	1,998.6	-12.8	-30.1	-10.2	1.50	1.50	0.00
2,100.0	9.00	247.00	2,097.5	-18.4	-43.3	-14.6	1.50	1.50	0.00
2,200.0	10.50	247.00	2,196.1	-25.0	-58.9	-19.9	1.50	1.50	0.00
2,233.3	11.00	247.00	2,228.8	-27.4	-64.6	-21.9	1.50	1.50	0.00
2,300.0	11.00	247.00	2,294.3	-32.4	-76.3	-25.8	0.00	0.00	0.00
2,400.0	11.00	247.00	2,392.4	-39.8	-93.9	-31.8	0.00	0.00	0.00
2,500.0	11.00	247.00	2,490.6	-47.3	-111.4	-37.7	0.00	0.00	0.00
2,600.0	11.00	247.00	2,588.8	-54.8	-129.0	-43.6	0.00	0.00	0.00
2,700.0	11.00	247.00	2,686.9	-62.2	-146.6	-49.6	0.00	0.00	0.00
2,800.0	11.00	247.00	2,785.1	-69.7	-164.1	-55.5	0.00	0.00	0.00
2,900.0	11.00	247.00	2,883.3	-77.1	-181.7	-61.5	0.00	0.00	0.00
3,000.0	11.00	247.00	2,981.4	-84.6	-199.3	-67.4	0.00	0.00	0.00
3,100.0	11.00	247.00	3,079.6	-92.0	-216.8	-73.4	0.00	0.00	0.00
3,200.0	11.00	247.00	3,177.7	-99.5	-234.4	-79.3	0.00	0.00	0.00
3,300.0	11.00	247.00	3,275.9	-106.9	-252.0	-85.2	0.00	0.00	0.00
3,400.0	11.00	247.00	3,374.1	-114.4	-269.5	-91.2	0.00	0.00	0.00
3,500.0	11.00	247.00	3,472.2	-121.9	-287.1	-97.1	0.00	0.00	0.00
3,600.0	11.00	247.00	3,570.4	-129.3	-304.6	-103.1	0.00	0.00	0.00
3,700.0	11.00	247.00	3,668.6	-136.8	-322.2	-109.0	0.00	0.00	0.00
3,800.0	11.00	247.00	3,766.7	-144.2	-339.8	-115.0	0.00	0.00	0.00
3,900.0	11.00	247.00	3,864.9	-151.7	-357.3	-120.9	0.00	0.00	0.00
4,000.0	11.00	247.00	3,963.0	-159.1	-374.9	-126.8	0.00	0.00	0.00
4,100.0	11.00	247.00	4,061.2	-166.6	-392.5	-132.8	0.00	0.00	0.00
4,200.0	11.00	247.00	4,159.4	-174.0	-410.0	-138.7	0.00	0.00	0.00
4,300.0	11.00	247.00	4,257.5	-181.5	-427.6	-144.7	0.00	0.00	0.00
4,400.0	11.00	247.00	4,355.7	-189.0	-445.2	-150.6	0.00	0.00	0.00
4,500.0	11.00	247.00	4,453.9	-196.4	-462.7	-156.6	0.00	0.00	0.00
4,600.0	11.00	247.00	4,552.0	-203.9	-480.3	-162.5	0.00	0.00	0.00
4,700.0	11.00	247.00	4,650.2	-211.3	-497.8	-168.4	0.00	0.00	0.00
4,800.0	11.00	247.00	4,748.3	-218.8	-515.4	-174.4	0.00	0.00	0.00
4,900.0	11.00	247.00	4,846.5	-226.2	-533.0	-180.3	0.00	0.00	0.00
5,000.0	11.00	247.00	4,944.7	-233.7	-550.5	-186.3	0.00	0.00	0.00
5,100.0	11.00	247.00	5,042.8	-241.1	-568.1	-192.2	0.00	0.00	0.00
5,200.0	11.00	247.00	5,141.0	-248.6	-585.7	-198.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	11.00	247.00	5,239.2	-256.1	-603.2	-204.1	0.00	0.00	0.00
5,400.0	11.00	247.00	5,337.3	-263.5	-620.8	-210.0	0.00	0.00	0.00
5,500.0	11.00	247.00	5,435.5	-271.0	-638.4	-216.0	0.00	0.00	0.00
5,600.0	11.00	247.00	5,533.6	-278.4	-655.9	-221.9	0.00	0.00	0.00
5,700.0	11.00	247.00	5,631.8	-285.9	-673.5	-227.9	0.00	0.00	0.00
5,800.0	11.00	247.00	5,730.0	-293.3	-691.1	-233.8	0.00	0.00	0.00
5,900.0	11.00	247.00	5,828.1	-300.8	-708.6	-239.8	0.00	0.00	0.00
6,000.0	11.00	247.00	5,926.3	-308.2	-726.2	-245.7	0.00	0.00	0.00
6,022.1	11.00	247.00	5,948.0	-309.9	-730.1	-247.0	0.00	0.00	0.00
6,100.0	10.61	247.00	6,024.5	-315.6	-743.5	-251.6	0.50	-0.50	0.00
6,200.0	10.11	247.00	6,122.9	-322.6	-760.1	-257.2	0.50	-0.50	0.00
6,300.0	9.61	247.00	6,221.4	-329.3	-775.8	-262.5	0.50	-0.50	0.00
6,400.0	9.11	247.00	6,320.1	-335.7	-790.8	-267.6	0.50	-0.50	0.00
6,500.0	8.61	247.00	6,418.9	-341.7	-805.0	-272.4	0.50	-0.50	0.00
6,600.0	8.11	247.00	6,517.8	-347.4	-818.4	-276.9	0.50	-0.50	0.00
6,700.0	7.61	247.00	6,616.9	-352.7	-830.9	-281.1	0.50	-0.50	0.00
6,800.0	7.11	247.00	6,716.1	-357.7	-842.7	-285.1	0.50	-0.50	0.00
6,900.0	6.61	247.00	6,815.3	-362.4	-853.7	-288.9	0.50	-0.50	0.00
7,000.0	6.11	247.00	6,914.7	-366.7	-863.9	-292.3	0.50	-0.50	0.00
7,100.0	5.61	247.00	7,014.2	-370.7	-873.3	-295.5	0.50	-0.50	0.00
7,200.0	5.11	247.00	7,113.8	-374.4	-881.9	-298.4	0.50	-0.50	0.00
7,300.0	4.61	247.00	7,213.4	-377.7	-889.7	-301.0	0.50	-0.50	0.00
7,400.0	4.11	247.00	7,313.1	-380.6	-896.7	-303.4	0.50	-0.50	0.00
7,500.0	3.61	247.00	7,412.9	-383.3	-902.9	-305.5	0.50	-0.50	0.00
7,600.0	3.11	247.00	7,512.7	-385.6	-908.3	-307.3	0.50	-0.50	0.00
7,700.0	2.61	247.00	7,612.6	-387.5	-912.9	-308.9	0.50	-0.50	0.00
7,800.0	2.11	247.00	7,712.5	-389.1	-916.7	-310.2	0.50	-0.50	0.00
7,900.0	1.61	247.00	7,812.4	-390.4	-919.7	-311.2	0.50	-0.50	0.00
8,000.0	1.11	247.00	7,912.4	-391.3	-921.9	-311.9	0.50	-0.50	0.00
8,100.0	0.61	247.00	8,012.4	-391.9	-923.3	-312.4	0.50	-0.50	0.00
8,200.0	0.11	247.00	8,112.4	-392.1	-923.8	-312.6	0.50	-0.50	0.00
8,222.1	0.00	0.00	8,134.5	-392.2	-923.9	-312.6	0.50	-0.50	0.00
8,300.0	0.00	0.00	8,212.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,312.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,412.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,512.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,700.0	0.00	0.00	8,612.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,712.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,812.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,912.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,012.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,200.0	0.00	0.00	9,112.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,300.0	0.00	0.00	9,212.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,312.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,412.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,600.0	0.00	0.00	9,512.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,612.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,712.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,812.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,912.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,100.0	0.00	0.00	10,012.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,112.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,212.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,312.4	-392.2	-923.9	-312.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,412.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,512.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,700.0	0.00	0.00	10,612.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,800.0	0.00	0.00	10,712.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,812.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,912.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
11,100.0	0.00	0.00	11,012.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
11,200.0	0.00	0.00	11,112.4	-392.2	-923.9	-312.6	0.00	0.00	0.00
11,289.6	0.00	0.00	11,202.0	-392.2	-923.9	-312.6	0.00	0.00	0.00
11,300.0	1.04	359.29	11,212.4	-392.1	-923.9	-312.5	10.00	10.00	0.00
11,350.0	6.04	359.29	11,262.3	-389.0	-923.9	-309.4	10.00	10.00	0.00
11,400.0	11.04	359.29	11,311.7	-381.6	-924.0	-302.0	10.00	10.00	0.00
11,450.0	16.04	359.29	11,360.3	-369.9	-924.1	-290.3	10.00	10.00	0.00
11,500.0	21.04	359.29	11,407.7	-354.0	-924.3	-274.5	10.00	10.00	0.00
11,550.0	26.04	359.29	11,453.5	-334.0	-924.6	-254.6	10.00	10.00	0.00
11,600.0	31.04	359.29	11,497.4	-310.1	-924.9	-230.7	10.00	10.00	0.00
11,650.0	36.04	359.29	11,539.1	-282.5	-925.2	-203.2	10.00	10.00	0.00
11,700.0	41.04	359.29	11,578.2	-251.4	-925.6	-172.1	10.00	10.00	0.00
11,750.0	46.04	359.29	11,614.4	-216.9	-926.0	-137.8	10.00	10.00	0.00
11,800.0	51.04	359.29	11,647.5	-179.5	-926.5	-100.4	10.00	10.00	0.00
11,850.0	56.04	359.29	11,677.2	-139.3	-927.0	-60.3	10.00	10.00	0.00
11,900.0	61.04	359.29	11,703.3	-96.6	-927.5	-17.8	10.00	10.00	0.00
11,950.0	66.04	359.29	11,725.6	-51.9	-928.1	26.8	10.00	10.00	0.00
12,000.0	71.04	359.29	11,743.9	-5.4	-928.6	73.2	10.00	10.00	0.00
12,050.0	76.04	359.29	11,758.0	42.5	-929.2	121.0	10.00	10.00	0.00
12,100.0	81.04	359.29	11,768.0	91.5	-929.8	169.9	10.00	10.00	0.00
12,150.0	86.04	359.29	11,773.6	141.2	-930.4	219.4	10.00	10.00	0.00
12,189.6	90.00	359.29	11,775.0	180.8	-930.9	258.9	10.00	10.00	0.00
12,200.0	90.00	359.29	11,775.0	191.2	-931.1	269.3	0.00	0.00	0.00
12,300.0	90.00	359.29	11,775.0	291.2	-932.3	369.0	0.00	0.00	0.00
12,400.0	90.00	359.29	11,775.0	391.1	-933.5	468.7	0.00	0.00	0.00
12,500.0	90.00	359.29	11,775.0	491.1	-934.8	568.5	0.00	0.00	0.00
12,600.0	90.00	359.29	11,775.0	591.1	-936.0	668.2	0.00	0.00	0.00
12,700.0	90.00	359.29	11,775.0	691.1	-937.2	767.9	0.00	0.00	0.00
12,800.0	90.00	359.29	11,775.0	791.1	-938.5	867.7	0.00	0.00	0.00
12,900.0	90.00	359.29	11,775.0	891.1	-939.7	967.4	0.00	0.00	0.00
13,000.0	90.00	359.29	11,775.0	991.1	-940.9	1,067.2	0.00	0.00	0.00
13,100.0	90.00	359.29	11,775.0	1,091.1	-942.1	1,166.9	0.00	0.00	0.00
13,200.0	90.00	359.29	11,775.0	1,191.1	-943.4	1,266.6	0.00	0.00	0.00
13,300.0	90.00	359.29	11,775.0	1,291.1	-944.6	1,366.4	0.00	0.00	0.00
13,400.0	90.00	359.29	11,775.0	1,391.1	-945.8	1,466.1	0.00	0.00	0.00
13,500.0	90.00	359.29	11,775.0	1,491.1	-947.1	1,565.8	0.00	0.00	0.00
13,600.0	90.00	359.29	11,775.0	1,591.1	-948.3	1,665.6	0.00	0.00	0.00
13,700.0	90.00	359.29	11,775.0	1,691.0	-949.5	1,765.3	0.00	0.00	0.00
13,800.0	90.00	359.29	11,775.0	1,791.0	-950.8	1,865.1	0.00	0.00	0.00
13,900.0	90.00	359.29	11,775.0	1,891.0	-952.0	1,964.8	0.00	0.00	0.00
14,000.0	90.00	359.29	11,775.0	1,991.0	-953.2	2,064.5	0.00	0.00	0.00
14,100.0	90.00	359.29	11,775.0	2,091.0	-954.5	2,164.3	0.00	0.00	0.00
14,200.0	90.00	359.29	11,775.0	2,191.0	-955.7	2,264.0	0.00	0.00	0.00
14,300.0	90.00	359.29	11,775.0	2,291.0	-956.9	2,363.8	0.00	0.00	0.00
14,400.0	90.00	359.29	11,775.0	2,391.0	-958.2	2,463.5	0.00	0.00	0.00
14,500.0	90.00	359.29	11,775.0	2,491.0	-959.4	2,563.2	0.00	0.00	0.00
14,600.0	90.00	359.29	11,775.0	2,591.0	-960.6	2,663.0	0.00	0.00	0.00
14,700.0	90.00	359.29	11,775.0	2,691.0	-961.9	2,762.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	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)
14,800.0	90.00	359.29	11,775.0	2,791.0	-963.1	2,862.4	0.00	0.00	0.00
14,900.0	90.00	359.29	11,775.0	2,891.0	-964.3	2,962.2	0.00	0.00	0.00
15,000.0	90.00	359.29	11,775.0	2,990.9	-965.6	3,061.9	0.00	0.00	0.00
15,100.0	90.00	359.29	11,775.0	3,090.9	-966.8	3,161.7	0.00	0.00	0.00
15,200.0	90.00	359.29	11,775.0	3,190.9	-968.0	3,261.4	0.00	0.00	0.00
15,300.0	90.00	359.29	11,775.0	3,290.9	-969.3	3,361.1	0.00	0.00	0.00
15,400.0	90.00	359.29	11,775.0	3,390.9	-970.5	3,460.9	0.00	0.00	0.00
15,500.0	90.00	359.29	11,775.0	3,490.9	-971.7	3,560.6	0.00	0.00	0.00
15,600.0	90.00	359.29	11,775.0	3,590.9	-973.0	3,660.4	0.00	0.00	0.00
15,700.0	90.00	359.29	11,775.0	3,690.9	-974.2	3,760.1	0.00	0.00	0.00
15,800.0	90.00	359.29	11,775.0	3,790.9	-975.4	3,859.8	0.00	0.00	0.00
15,900.0	90.00	359.29	11,775.0	3,890.9	-976.7	3,959.6	0.00	0.00	0.00
16,000.0	90.00	359.29	11,775.0	3,990.9	-977.9	4,059.3	0.00	0.00	0.00
16,100.0	90.00	359.29	11,775.0	4,090.9	-979.1	4,159.0	0.00	0.00	0.00
16,200.0	90.00	359.29	11,775.0	4,190.9	-980.4	4,258.8	0.00	0.00	0.00
16,300.0	90.00	359.29	11,775.0	4,290.8	-981.6	4,358.5	0.00	0.00	0.00
16,400.0	90.00	359.29	11,775.0	4,390.8	-982.8	4,458.3	0.00	0.00	0.00
16,500.0	90.00	359.29	11,775.0	4,490.8	-984.1	4,558.0	0.00	0.00	0.00
16,600.0	90.00	359.29	11,775.0	4,590.8	-985.3	4,657.7	0.00	0.00	0.00
16,700.0	90.00	359.29	11,775.0	4,690.8	-986.5	4,757.5	0.00	0.00	0.00
16,800.0	90.00	359.29	11,775.0	4,790.8	-987.8	4,857.2	0.00	0.00	0.00
16,900.0	90.00	359.29	11,775.0	4,890.8	-989.0	4,956.9	0.00	0.00	0.00
17,000.0	90.00	359.29	11,775.0	4,990.8	-990.2	5,056.7	0.00	0.00	0.00
17,100.0	90.00	359.29	11,775.0	5,090.8	-991.5	5,156.4	0.00	0.00	0.00
17,200.0	90.00	359.29	11,775.0	5,190.8	-992.7	5,256.2	0.00	0.00	0.00
17,300.0	90.00	359.29	11,775.0	5,290.8	-993.9	5,355.9	0.00	0.00	0.00
17,400.0	90.00	359.29	11,775.0	5,390.8	-995.2	5,455.6	0.00	0.00	0.00
17,500.0	90.00	359.29	11,775.0	5,490.8	-996.4	5,555.4	0.00	0.00	0.00
17,600.0	90.00	359.29	11,775.0	5,590.7	-997.6	5,655.1	0.00	0.00	0.00
17,700.0	90.00	359.29	11,775.0	5,690.7	-998.9	5,754.9	0.00	0.00	0.00
17,800.0	90.00	359.29	11,775.0	5,790.7	-1,000.1	5,854.6	0.00	0.00	0.00
17,900.0	90.00	359.29	11,775.0	5,890.7	-1,001.3	5,954.3	0.00	0.00	0.00
18,000.0	90.00	359.29	11,775.0	5,990.7	-1,002.6	6,054.1	0.00	0.00	0.00
18,100.0	90.00	359.29	11,775.0	6,090.7	-1,003.8	6,153.8	0.00	0.00	0.00
18,200.0	90.00	359.29	11,775.0	6,190.7	-1,005.0	6,253.5	0.00	0.00	0.00
18,300.0	90.00	359.29	11,775.0	6,290.7	-1,006.3	6,353.3	0.00	0.00	0.00
18,400.0	90.00	359.29	11,775.0	6,390.7	-1,007.5	6,453.0	0.00	0.00	0.00
18,500.0	90.00	359.29	11,775.0	6,490.7	-1,008.7	6,552.8	0.00	0.00	0.00
18,600.0	90.00	359.29	11,775.0	6,590.7	-1,010.0	6,652.5	0.00	0.00	0.00
18,700.0	90.00	359.29	11,775.0	6,690.7	-1,011.2	6,752.2	0.00	0.00	0.00
18,800.0	90.00	359.29	11,775.0	6,790.7	-1,012.4	6,852.0	0.00	0.00	0.00
18,900.0	90.00	359.29	11,775.0	6,890.7	-1,013.7	6,951.7	0.00	0.00	0.00
19,000.0	90.00	359.29	11,775.0	6,990.6	-1,014.9	7,051.4	0.00	0.00	0.00
19,100.0	90.00	359.29	11,775.0	7,090.6	-1,016.1	7,151.2	0.00	0.00	0.00
19,200.0	90.00	359.29	11,775.0	7,190.6	-1,017.3	7,250.9	0.00	0.00	0.00
19,300.0	90.00	359.29	11,775.0	7,290.6	-1,018.6	7,350.7	0.00	0.00	0.00
19,400.0	90.00	359.29	11,775.0	7,390.6	-1,019.8	7,450.4	0.00	0.00	0.00
19,500.0	90.00	359.29	11,775.0	7,490.6	-1,021.0	7,550.1	0.00	0.00	0.00
19,600.0	90.00	359.29	11,775.0	7,590.6	-1,022.3	7,649.9	0.00	0.00	0.00
19,700.0	90.00	359.29	11,775.0	7,690.6	-1,023.5	7,749.6	0.00	0.00	0.00
19,800.0	90.00	359.29	11,775.0	7,790.6	-1,024.7	7,849.4	0.00	0.00	0.00
19,900.0	90.00	359.29	11,775.0	7,890.6	-1,026.0	7,949.1	0.00	0.00	0.00
20,000.0	90.00	359.29	11,775.0	7,990.6	-1,027.2	8,048.8	0.00	0.00	0.00
20,100.0	90.00	359.29	11,775.0	8,090.6	-1,028.4	8,148.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

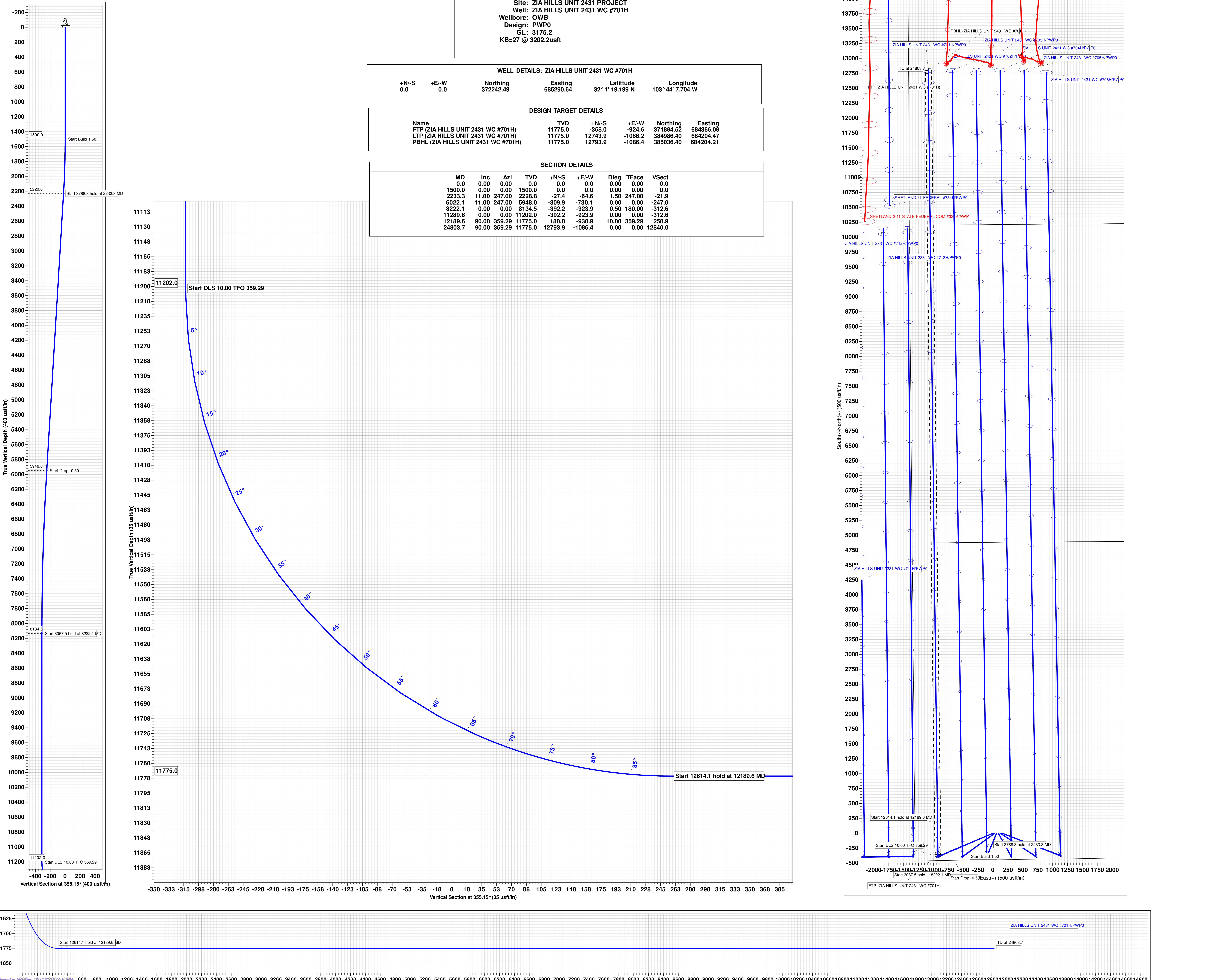
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
20,200.0	90.00	359.29	11,775.0	8,190.6	-1,029.7	8,248.3	0.00	0.00	0.00	
20,300.0	90.00	359.29	11,775.0	8,290.5	-1,030.9	8,348.0	0.00	0.00	0.00	
20,400.0	90.00	359.29	11,775.0	8,390.5	-1,032.1	8,447.8	0.00	0.00	0.00	
20,500.0	90.00	359.29	11,775.0	8,490.5	-1,033.4	8,547.5	0.00	0.00	0.00	
20,600.0	90.00	359.29	11,775.0	8,590.5	-1,034.6	8,647.3	0.00	0.00	0.00	
20,700.0	90.00	359.29	11,775.0	8,690.5	-1,035.8	8,747.0	0.00	0.00	0.00	
20,800.0	90.00	359.29	11,775.0	8,790.5	-1,037.1	8,846.7	0.00	0.00	0.00	
20,900.0	90.00	359.29	11,775.0	8,890.5	-1,038.3	8,946.5	0.00	0.00	0.00	
21,000.0	90.00	359.29	11,775.0	8,990.5	-1,039.5	9,046.2	0.00	0.00	0.00	
21,100.0	90.00	359.29	11,775.0	9,090.5	-1,040.8	9,145.9	0.00	0.00	0.00	
21,200.0	90.00	359.29	11,775.0	9,190.5	-1,042.0	9,245.7	0.00	0.00	0.00	
21,300.0	90.00	359.29	11,775.0	9,290.5	-1,043.2	9,345.4	0.00	0.00	0.00	
21,400.0	90.00	359.29	11,775.0	9,390.5	-1,044.5	9,445.2	0.00	0.00	0.00	
21,500.0	90.00	359.29	11,775.0	9,490.5	-1,045.7	9,544.9	0.00	0.00	0.00	
21,600.0	90.00	359.29	11,775.0	9,590.4	-1,046.9	9,644.6	0.00	0.00	0.00	
21,700.0	90.00	359.29	11,775.0	9,690.4	-1,048.2	9,744.4	0.00	0.00	0.00	
21,800.0	90.00	359.29	11,775.0	9,790.4	-1,049.4	9,844.1	0.00	0.00	0.00	
21,900.0	90.00	359.29	11,775.0	9,890.4	-1,050.6	9,943.9	0.00	0.00	0.00	
22,000.0	90.00	359.29	11,775.0	9,990.4	-1,051.9	10,043.6	0.00	0.00	0.00	
22,100.0	90.00	359.29	11,775.0	10,090.4	-1,053.1	10,143.3	0.00	0.00	0.00	
22,200.0	90.00	359.29	11,775.0	10,190.4	-1,054.3	10,243.1	0.00	0.00	0.00	
22,300.0	90.00	359.29	11,775.0	10,290.4	-1,055.6	10,342.8	0.00	0.00	0.00	
22,400.0	90.00	359.29	11,775.0	10,390.4	-1,056.8	10,442.5	0.00	0.00	0.00	
22,500.0	90.00	359.29	11,775.0	10,490.4	-1,058.0	10,542.3	0.00	0.00	0.00	
22,600.0	90.00	359.29	11,775.0	10,590.4	-1,059.3	10,642.0	0.00	0.00	0.00	
22,700.0	90.00	359.29	11,775.0	10,690.4	-1,060.5	10,741.8	0.00	0.00	0.00	
22,800.0	90.00	359.29	11,775.0	10,790.4	-1,061.7	10,841.5	0.00	0.00	0.00	
22,900.0	90.00	359.29	11,775.0	10,890.3	-1,063.0	10,941.2	0.00	0.00	0.00	
23,000.0	90.00	359.29	11,775.0	10,990.3	-1,064.2	11,041.0	0.00	0.00	0.00	
23,100.0	90.00	359.29	11,775.0	11,090.3	-1,065.4	11,140.7	0.00	0.00	0.00	
23,200.0	90.00	359.29	11,775.0	11,190.3	-1,066.7	11,240.4	0.00	0.00	0.00	
23,300.0	90.00	359.29	11,775.0	11,290.3	-1,067.9	11,340.2	0.00	0.00	0.00	
23,400.0	90.00	359.29	11,775.0	11,390.3	-1,069.1	11,439.9	0.00	0.00	0.00	
23,500.0	90.00	359.29	11,775.0	11,490.3	-1,070.4	11,539.7	0.00	0.00	0.00	
23,600.0	90.00	359.29	11,775.0	11,590.3	-1,071.6	11,639.4	0.00	0.00	0.00	
23,700.0	90.00	359.29	11,775.0	11,690.3	-1,072.8	11,739.1	0.00	0.00	0.00	
23,800.0	90.00	359.29	11,775.0	11,790.3	-1,074.1	11,838.9	0.00	0.00	0.00	
23,900.0	90.00	359.29	11,775.0	11,890.3	-1,075.3	11,938.6	0.00	0.00	0.00	
24,000.0	90.00	359.29	11,775.0	11,990.3	-1,076.5	12,038.4	0.00	0.00	0.00	
24,100.0	90.00	359.29	11,775.0	12,090.3	-1,077.8	12,138.1	0.00	0.00	0.00	
24,200.0	90.00	359.29	11,775.0	12,190.2	-1,079.0	12,237.8	0.00	0.00	0.00	
24,300.0	90.00	359.29	11,775.0	12,290.2	-1,080.2	12,337.6	0.00	0.00	0.00	
24,400.0	90.00	359.29	11,775.0	12,390.2	-1,081.5	12,437.3	0.00	0.00	0.00	
24,500.0	90.00	359.29	11,775.0	12,490.2	-1,082.7	12,537.0	0.00	0.00	0.00	
24,600.0	90.00	359.29	11,775.0	12,590.2	-1,083.9	12,636.8	0.00	0.00	0.00	
24,700.0	90.00	359.29	11,775.0	12,690.2	-1,085.2	12,736.5	0.00	0.00	0.00	
24,803.7	90.00	359.29	11,775.0	12,793.9	-1,086.4	12,840.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 2431 WC #701H
Company:	DELAWARE BASIN EAST	TVD Reference:	KB=27 @ 3202.2usft
Project:	BULLDOG PROSPECT (NM-E)	MD Reference:	KB=27 @ 3202.2usft
Site:	ZIA HILLS UNIT 2431 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 2431 WC #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (ZIA HILLS UNIT 24 - plan misses target center by 213.7usft at 11750.6usft MD (11614.9 TVD, -216.5 N, -926.0 E) - Circle (radius 50.0)	0.00	0.00	11,775.0	-358.0	-924.6	371,884.52	684,366.08	32° 1' 15.707 N	103° 44' 18.466 W
PBHL (ZIA HILLS UNIT : - plan hits target center - Rectangle (sides W100.0 H13,150.0 D20.0)	0.00	179.29	11,775.0	12,793.9	-1,086.4	385,036.40	684,204.21	32° 3' 25.868 N	103° 44' 19.505 W
LTP (ZIA HILLS UNIT 24 - plan misses target center by 0.4usft at 24753.7usft MD (11775.0 TVD, 12743.9 N, -1085.8 E) - Point	0.00	0.00	11,775.0	12,743.9	-1,086.2	384,986.40	684,204.47	32° 3' 25.373 N	103° 44' 19.505 W



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips
LEASE NO.:	NMLC064756
LOCATION:	Section 24, T.26 S, R.31 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Zia Hills Unit 2431 WC 701H
SURFACE HOLE FOOTAGE:	445'/S & 1310'/W
BOTTOM HOLE FOOTAGE:	2590'/S & 330'/W

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 **Delaware Group** 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 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)**Unit Wells**

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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 9/18/2023

COG OPERATING LLC
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.

COG OPERATING LLC 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 COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 288300

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 288300
	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
ward.rikala	SW/4-T26S-R31E is in the Purplesage Pool. This well can not be produced until a C-102 is received for the correct acreage in the Purplesage Wolfcamp and a C-102 for the correct acreage for the Zia Hills Wolfcamp Pool.	12/8/2023