

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. 30-015-56231
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SESW / 245 FSL / 1370 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0215761 / LONG: -103.7357482 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 745 FWL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206134 / LONG: -103.7377625 (TVD: 11606 feet, MD: 11766 feet)

BHL: LOT 4 / 50 FSL / 725 FWL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0034043 / LONG: -103.7378501 (TVD: 11650 feet, MD: 19125 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-015- 56231	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 702H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,175.00'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL N	Section 24	Township 26S	Range 31E	Lot	Ft. from N/S 245' FSL	Ft. from E/W 1,370' FWL	Latitude 32.021576°	Longitude -103.735748°	County EDDY
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Bottom Hole Location

UL LOT 4	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 725' FWL	Latitude 32.000340°	Longitude -103.737850°	County EDDY
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Dedicated Acres 900	Infill or Defining Well Infill	Defining Well API Pending 703H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL N	Section 24	Township 26S	Range 31E	Lot	Ft. from N/S 245' FSL	Ft. from E/W 1,370' FWL	Latitude 32.021576°	Longitude -103.735748°	County EDDY
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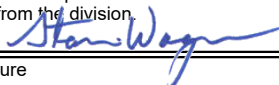
First Take Point (FTP)

UL D	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 745' FWL	Latitude 32.020613°	Longitude -103.737763°	County EDDY
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Last Take Point (LTP)

UL LOT 4	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 725' FWL	Latitude 32.000478°	Longitude -103.737850°	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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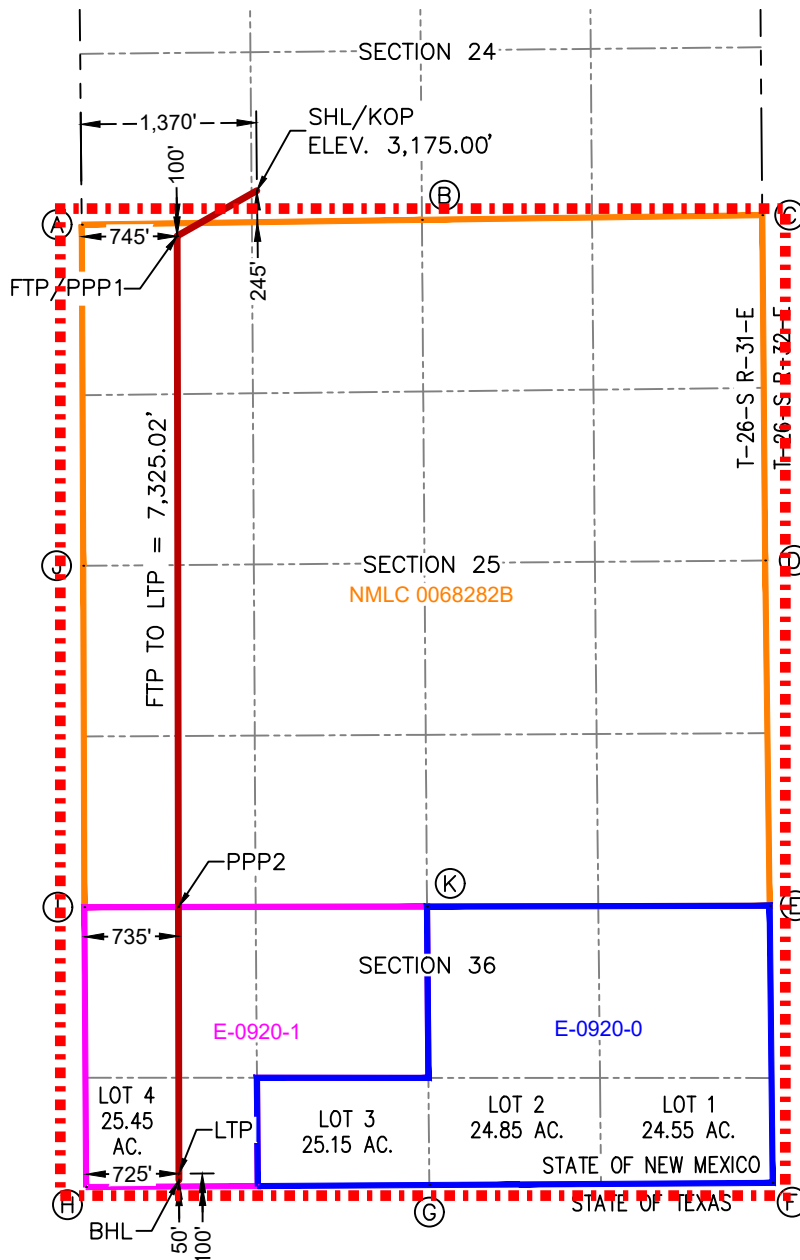
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Signature Stan Wagner Printed Name Email Address		SURVEYOR CERTIFICATIONS 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.  Date: 11/21/2024 Signature and Seal of Professional Surveyor Certificate Number 12177 Date of Survey 11/21/2024	
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Note: 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.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
245' FSL & 1,370' FWL
ELEV.=3,175.00'

NAD 83 X = 726,539.83'
NAD 83 Y = 372,100.40'
NAD 83 LAT = 32.021576°
NAD 83 LONG = -103.735748°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 745' FWL
NAD 83 X = 725,917.48'
NAD 83 Y = 371,746.72'
NAD 83 LAT = 32.020613°
NAD 83 LONG = -103.737763°

PENETRATION POINT 2
0' FNL & 735' FWL
NAD 83 X = 725,926.90'
NAD 83 Y = 366,505.31'
NAD 83 LAT = 32.006205°
NAD 83 LONG = -103.737825°

LAST TAKE POINT
100' FSL & 725' FWL
NAD 83 X = 725,930.64'
NAD 83 Y = 364,421.71'
NAD 83 LAT = 32.000478°
NAD 83 LONG = -103.737850°

BOTTOM HOLE LOCATION
50' FSL & 725' FWL
NAD 83 X = 725,930.97'
NAD 83 Y = 364,371.71'
NAD 83 LAT = 32.000340°
NAD 83 LONG = -103.737850°

**CORNER COORDINATES
NEW MEXICO EAST - NAD 83**

A	IRON PIPE W/BRASS CAP N:371,836.37' E:725,172.10'	E	IRON PIPE W/BRASS CAP N:366,514.60' E:730,544.42'	I	IRON PIPE W/BRASS CAP N:366,503.97' E:725,191.88'
B	IRON PIPE W/BRASS CAP N:371,873.29' E:727,828.90'	F	IRON PIPE W/BRASS CAP N:364,349.59' E:730,568.47'	J	IRON PIPE W/BRASS CAP N:369,170.58' E:725,183.25'
C	IRON PIPE W/BRASS CAP N:371,909.34' E:730,486.74'	G	IRON PIPE W/BRASS CAP N:364,333.35' E:727,886.43'	K	IRON PIPE W/BRASS CAP N:366,508.87' E:727,868.55'
D	IRON PIPE W/BRASS CAP N:369,211.61' E:730,509.99'	H	IRON PIPE W/BRASS CAP N:364,317.40' E:725,206.32'		

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: 03/12/2024

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 2531 WC 701H	30-015-	N-24-26S-31E	245 FSL & 1340 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 702H	30-015-	N-24-26S-31E	245 FSL & 1370 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 703H	30-015-	N-24-26S-31E	245 FSL & 1400 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 704H	30-015-	N-24-26S-31E	245 FSL & 1430 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 705H	30-015-	N-24-26S-31E	245 FSL & 1460 FWL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit CF2 Facility NESW 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 2531 WC	Pending	± 4/1/2025	± 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: 03/12/2024
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 2531 WC 702H

1. Geologic Formations

TVD of target	11,714' EOL	Pilot hole depth	NA
MD at TD:	19,125'	Deepest expected fresh water:	365'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1162	Water	
Top of Salt	1578	Salt	
Base of Salt	3905	Salt	
Lamar	4151	Salt Water	
Bell Canyon	4222	Salt Water	
Cherry Canyon	5084	Oil/Gas	
Brushy Canyon	6400	Oil/Gas	
Bone Spring	8121	Oil/Gas	
1st Bone Spring Sand	9131	Oil/Gas	
2nd Bone Spring Sand	9823	Oil/Gas	
3rd Bone Spring Sand	10958	Oil/Gas	
Wolfcamp	11454	Oil/Gas	
Wolfcamp A	11518	Target	
Wolfcamp B	11894	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	1480	10.75"	45.5	J55	BTC	3.09	1.00	10.62	11.82
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.33	1.04	2.88	2.90
8.750"	8500	11100	7.625"	29.7	P110-ICY	W513	1.28	1.57	3.24	1.94
6.75"	0	10900	5.5"	23	P110-CY	BTC	1.90	2.21	2.91	2.91
6.75"	10900	19,125	5.5"	23	P110-CY	W441	1.77	2.06	2.71	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1480	13.375"	54.5	J55	BTC	1.67	1.59	10.58	11.27
12.25"	0	4100	9.625"	40	L80-IC	BTC	1.82	1.32	5.59	5.77
8.75"	3900	11100	7.625"	29.7	P110-ICY	W513	1.28	1.57	3.24	1.94
6.75"	0	10900	5.5"	23	P110-CY	BTC	1.90	2.21	2.91	2.91
6.75"	10900	19,125	5.5"	23	P110-CY	W441	1.77	2.06	2.71	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172.

Contingency program will be run if large water flows are encountered.

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.

March 11, 2024

1

ConocoPhillips Company - Zia Hills Unit 2531 WC 702H

	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 2531 WC 702H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	710	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 tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	690	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	620	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'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	890	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	600	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	770	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	620	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	3,900'	20%
Production	10,850'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 702H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 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 43 CFR part 3170 Subpart 3172 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 43 CFR part 3170 Subpart 3172.
Y	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 43 CFR part 3170 Subpart 3172.
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 43 CFR part 3170 Subpart 3172 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 2531 WC 702H

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 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	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
---	-----------------------------

5b. Contingency 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	9-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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 2531 WC 702H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8225 psi at 11714' 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

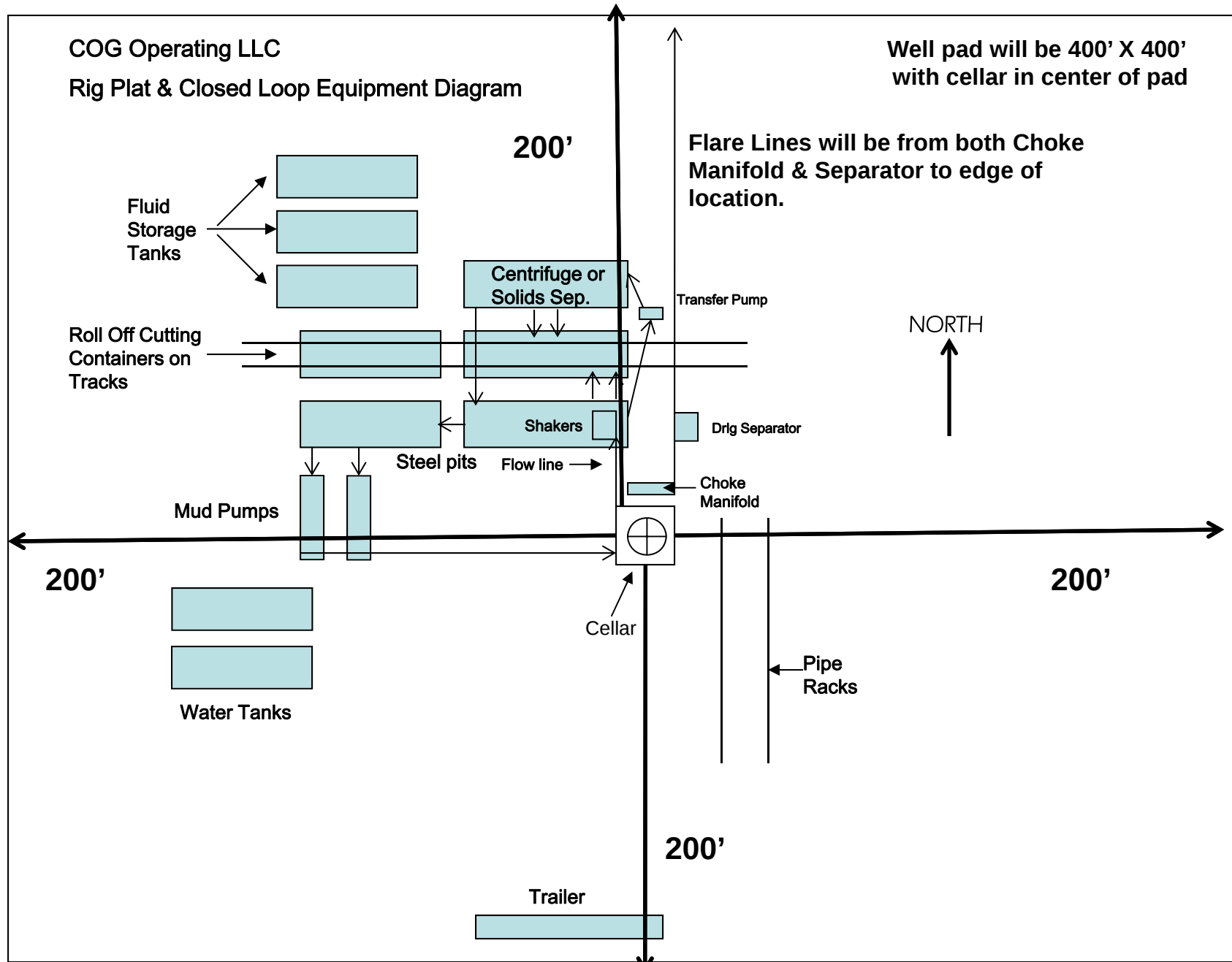


Exhibit 1

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

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #702H**

OWB

PWP0

Anticollision Report

10 August, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,499.8usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	8/10/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,124.7	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning	
STATE LINE OFFSETS						
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,125.0	11,406.6	420.5	339.9	5.220 CC, ES, SF	
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,125.0	11,488.1	546.0	446.1	5.467 CC, ES, SF	
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	11,289.0	11,340.5	726.0	673.8	13.914 SF	
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	11,300.0	11,349.8	725.9	673.8	13.918 CC, ES	
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	4,144.9	4,147.1	127.0	99.6	4.639 CC	
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	4,600.0	4,601.4	129.8	96.7	3.929 ES	
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	5,300.0	5,300.2	144.0	102.6	3.484 SF	
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	3,859.9	3,868.5	75.1	46.6	2.635 CC	
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	4,000.0	4,008.2	75.8	45.9	2.535 ES	
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	11,252.4	11,267.8	95.2	46.5	1.955 Advise and Monitor, SF	
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	2,247.4	2,264.8	128.4	112.5	8.075 CC	
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	2,300.0	2,316.8	128.6	112.4	7.921 ES	
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	2,500.0	2,514.7	133.4	116.0	7.650 SF	
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,458.1	1,476.8	190.6	179.5	17.087 CC, ES	
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,700.0	1,711.7	200.0	188.0	16.575 SF	
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,009.9	1,013.6	208.5	199.0	21.885 CC	
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,100.0	1,105.6	208.7	198.9	21.332 ES	
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,400.0	1,405.2	217.8	207.0	20.100 SF	
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	965.6	968.7	219.1	209.7	23.336 CC	
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,000.0	1,003.1	219.1	209.6	23.097 ES	
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,300.0	1,299.1	229.8	219.4	21.933 SF	
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	913.0	923.0	233.0	223.7	25.227 CC	
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,000.0	1,009.8	233.0	223.5	24.581 ES	
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,300.0	1,300.0	248.3	237.7	23.575 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,115.8	1,114.6	30.0	19.2	2.781	CC
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,400.0	1,395.8	30.2	18.0	2.481	ES, SF
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,300.0	1,303.0	30.5	18.9	2.624	ES
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,700.0	1,704.4	33.4	20.3	2.545	SF
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES, SF
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802	CC, ES
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	1,100.0	1,096.9	93.4	82.7	8.725	SF
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	1,000.0	1,000.0	1,407.2	1,397.0	137.632	CC
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	1,100.0	1,137.4	1,407.5	1,396.8	131.412	ES
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,125.0	19,188.8	1,782.6	1,632.0	11.834	SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	1,000.0	1,000.0	1,436.2	1,426.0	140.466	CC, ES
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,125.0	19,363.6	2,235.1	2,083.8	14.773	SF
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	1,000.0	1,000.0	1,465.2	1,455.0	143.305	CC, ES
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	4,800.0	4,410.1	2,496.4	2,461.9	72.483	SF
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	1,000.0	1,000.0	1,494.3	1,484.1	146.147	CC, ES
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	4,300.0	3,838.0	2,467.0	2,436.3	80.376	SF
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,552.2	14,160.0	542.5	481.0	8.824	CC, ES
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,700.0	14,160.0	562.3	495.5	8.423	SF

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

ConocoPhillips

Anticollision Report

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Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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						
STATE LINE OFFSETS						
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,125.0	11,406.6	420.5	339.9	5.220	CC, ES, SF
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,125.0	11,488.1	546.0	446.1	5.467	CC, ES, SF
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	19,125.0	11,100.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	19,125.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	19,125.0	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,125.0	11,126.6				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,125.0	10,950.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,125.0	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,125.0	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,125.0	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	19,125.0	19,447.7	477.2	335.8	3.374	
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	19,125.0	19,278.3	477.4	321.0	3.052	
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	19,125.0	19,086.5	892.1	740.7	5.892	
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	19,125.0	19,304.3	1,347.4	1,194.1	8.791	
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,125.0	19,188.8	1,782.6	1,632.0	11.834	SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,125.0	19,363.6	2,235.1	2,083.8	14.773	SF
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	19,125.0	19,267.3				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	19,125.0	19,502.3				Out of Range @TD
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	19,125.0	9,287.0				Out of Range @TD

Offset Design: STATE LINE OFFSETS - LINDSAY 3-10K-55-1 #415H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 31-r.5 MWD													Offset Well Error: 3.0 usft
Rule Assigned:													
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,900.0	11,650.0	11,063.0	11,072.8	58.1	21.6	-6.19	-7,868.1	-546.5	2,434.9	2,392.8	42.12	57.813	
17,000.0	11,650.0	11,063.0	11,072.8	58.9	21.6	-6.19	-7,868.1	-546.5	2,337.9	2,295.3	42.56	54.926	
17,100.0	11,650.0	11,063.0	11,072.8	59.8	21.6	-6.19	-7,868.1	-546.5	2,241.2	2,198.1	43.06	52.050	
17,200.0	11,650.0	11,063.0	11,072.8	60.7	21.6	-6.19	-7,868.1	-546.5	2,144.8	2,101.1	43.60	49.186	
17,300.0	11,650.0	11,063.0	11,072.8	61.5	21.6	-6.19	-7,868.1	-546.5	2,048.7	2,004.5	44.21	46.336	
17,400.0	11,650.0	11,063.0	11,072.8	62.4	21.6	-6.19	-7,868.1	-546.5	1,953.0	1,908.1	44.90	43.501	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: STATE LINE OFFSETS - LINDSAY 3-10K-55-1 #415H - OWB - AWP												Offset Site Error:	0.0 usft	
Survey Program:		31-r-5 MWD							Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,500.0	11,650.0	11,063.0	11,072.8	63.3	21.6	-6.19	-7,868.1	-546.5	1,857.7	1,812.1	45.66	40.684		
17,600.0	11,650.0	11,101.8	11,110.2	64.2	21.7	-6.49	-7,878.5	-547.7	1,761.0	1,714.9	46.11	38.191		
17,700.0	11,650.0	11,108.7	11,116.8	65.1	21.7	-6.55	-7,880.7	-547.9	1,666.1	1,619.2	46.92	35.507		
17,800.0	11,650.0	11,116.3	11,123.9	66.0	21.7	-6.61	-7,883.2	-548.1	1,571.7	1,523.9	47.82	32.864		
17,900.0	11,650.0	11,157.0	11,161.6	66.9	21.8	-7.01	-7,898.4	-549.0	1,479.3	1,431.0	48.28	30.638		
18,000.0	11,650.0	11,157.0	11,161.6	67.7	21.8	-7.01	-7,898.4	-549.0	1,385.4	1,335.9	49.48	27.999		
18,100.0	11,650.0	11,157.0	11,161.6	68.6	21.8	-7.01	-7,898.4	-549.0	1,292.4	1,241.5	50.89	25.396		
18,200.0	11,650.0	11,157.0	11,161.6	69.5	21.8	-7.01	-7,898.4	-549.0	1,200.5	1,148.0	52.56	22.839		
18,300.0	11,650.0	11,157.0	11,161.6	70.4	21.8	-7.01	-7,898.4	-549.0	1,110.1	1,055.5	54.57	20.343		
18,400.0	11,650.0	11,188.8	11,190.3	71.3	21.9	-7.39	-7,912.2	-549.3	1,020.2	964.6	55.62	18.342		
18,500.0	11,650.0	11,209.0	11,208.1	72.2	21.9	-7.68	-7,921.6	-549.4	931.8	874.4	57.37	16.242		
18,600.0	11,650.0	11,252.0	11,245.4	73.1	22.0	-8.44	-7,943.1	-548.9	845.2	787.0	58.19	14.524		
18,700.0	11,650.0	11,252.0	11,245.4	74.0	22.0	-8.44	-7,943.1	-548.9	759.3	697.5	61.78	12.290		
18,800.0	11,650.0	11,287.2	11,275.0	74.9	22.0	-9.20	-7,962.1	-548.1	675.6	611.9	63.71	10.604		
18,900.0	11,650.0	11,321.2	11,302.9	75.9	22.0	-10.04	-7,981.4	-547.4	594.0	527.8	66.17	8.976		
19,000.0	11,650.0	11,347.0	11,323.6	76.8	22.1	-10.77	-7,996.8	-546.7	515.0	444.9	70.06	7.351		
19,100.0	11,650.0	11,396.2	11,361.6	77.7	22.1	-12.37	-8,028.1	-545.4	438.8	366.4	72.49	6.054		
19,125.0	11,650.0	11,406.6	11,369.4	77.8	22.2	-12.75	-8,035.0	-545.2	420.5	339.9	80.54	5.220	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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: STATE LINE OFFSETS - LINDSAY 3-10L-55-1 #426H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		80-r-5 MWD				Rule Assigned:								Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
16,900.0	11,650.0	11,252.0	11,225.6	58.1	29.0	-45.21	-7,871.1	-181.5	2,444.0	2,396.6	47.45	51.504			
17,000.0	11,650.0	11,252.0	11,225.6	58.9	29.0	-45.21	-7,871.1	-181.5	2,347.2	2,299.4	47.87	49.029			
17,100.0	11,650.0	11,252.0	11,225.6	59.8	29.0	-45.21	-7,871.1	-181.5	2,250.7	2,202.4	48.34	46.561			
17,200.0	11,650.0	11,252.0	11,225.6	60.7	29.0	-45.21	-7,871.1	-181.5	2,154.5	2,105.7	48.85	44.101			
17,300.0	11,650.0	11,252.0	11,225.6	61.5	29.0	-45.21	-7,871.1	-181.5	2,058.7	2,009.3	49.43	41.650			
17,400.0	11,650.0	11,252.0	11,225.6	62.4	29.0	-45.21	-7,871.1	-181.5	1,963.3	1,913.2	50.07	39.210			
17,500.0	11,650.0	11,252.0	11,225.6	63.3	29.0	-45.21	-7,871.1	-181.5	1,868.4	1,817.6	50.80	36.782			
17,600.0	11,650.0	11,252.0	11,225.6	64.2	29.0	-45.21	-7,871.1	-181.5	1,774.0	1,722.4	51.62	34.369			
17,700.0	11,650.0	11,252.0	11,225.6	65.1	29.0	-45.21	-7,871.1	-181.5	1,680.3	1,627.8	52.55	31.974			
17,800.0	11,650.0	11,252.0	11,225.6	66.0	29.0	-45.21	-7,871.1	-181.5	1,587.4	1,533.7	53.62	29.602			
17,900.0	11,650.0	11,252.0	11,225.6	66.9	29.0	-45.21	-7,871.1	-181.5	1,495.3	1,440.5	54.86	27.258			
18,000.0	11,650.0	11,252.0	11,225.6	67.7	29.0	-45.21	-7,871.1	-181.5	1,404.4	1,348.1	56.29	24.949			
18,100.0	11,650.0	11,288.4	11,260.7	68.6	29.0	-47.74	-7,880.6	-180.6	1,312.7	1,254.8	57.82	22.702			
18,200.0	11,650.0	11,296.2	11,268.1	69.5	29.0	-48.30	-7,883.1	-180.4	1,223.6	1,163.9	59.67	20.506			
18,300.0	11,650.0	11,305.0	11,276.3	70.4	29.0	-48.93	-7,886.0	-180.2	1,136.1	1,074.3	61.82	18.378			
18,400.0	11,650.0	11,346.0	11,314.1	71.3	29.1	-52.01	-7,902.0	-178.9	1,052.2	988.1	64.08	16.420			
18,500.0	11,650.0	11,346.0	11,314.1	72.2	29.1	-52.01	-7,902.0	-178.9	968.1	901.0	67.07	14.435			
18,600.0	11,650.0	11,346.0	11,314.1	73.1	29.1	-52.01	-7,902.0	-178.9	887.3	816.7	70.62	12.564			
18,700.0	11,650.0	11,346.0	11,314.1	74.0	29.1	-52.01	-7,902.0	-178.9	810.8	736.0	74.82	10.837			
18,800.0	11,650.0	11,383.0	11,346.9	74.9	29.1	-54.91	-7,919.1	-177.5	738.2	659.2	79.01	9.343			
18,900.0	11,650.0	11,411.1	11,371.2	75.9	29.1	-57.20	-7,933.1	-176.4	671.0	586.9	84.10	7.978			
19,000.0	11,650.0	11,440.0	11,395.6	76.8	29.1	-59.61	-7,948.5	-175.2	610.3	520.4	89.88	6.790			
19,100.0	11,650.0	11,478.7	11,427.5	77.7	29.1	-62.95	-7,970.2	-173.2	557.7	461.6	96.10	5.803			
19,125.0	11,650.0	11,488.1	11,435.2	77.8	29.1	-63.79	-7,975.7	-172.6	546.0	446.1	99.86	5.467	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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11062-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Rule Assigned:				
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor	
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)	(usft)		
0.0	0.0	0.0	5.0	3.0	3.0	-94.93	-201.8	-2,339.5	2,348.2	2,341.8	6.43	365.263	
100.0	100.0	95.0	100.0	3.2	3.0	-94.93	-201.8	-2,339.5	2,348.2	2,341.5	6.68	351.549	
200.0	200.0	195.0	200.0	3.5	3.1	-94.93	-201.8	-2,339.5	2,348.2	2,341.3	6.98	336.631	
300.0	300.0	295.0	300.0	3.7	3.2	-94.93	-201.8	-2,339.5	2,348.2	2,340.9	7.28	322.714	
400.0	400.0	395.0	400.0	3.9	3.3	-94.93	-201.8	-2,339.5	2,348.2	2,340.6	7.58	309.875	
500.0	500.0	495.0	500.0	4.1	3.4	-94.93	-201.8	-2,339.5	2,348.2	2,340.3	7.88	297.982	
600.0	600.0	595.0	600.0	4.2	3.6	-94.93	-201.8	-2,339.5	2,348.2	2,340.0	8.18	286.937	
700.0	700.0	695.0	700.0	4.4	3.7	-94.93	-201.8	-2,339.5	2,348.2	2,339.7	8.49	276.656	
800.0	800.0	795.0	800.0	4.6	3.9	-94.93	-201.8	-2,339.5	2,348.2	2,339.4	8.79	267.064	
900.0	900.0	895.0	900.0	4.8	4.0	-94.93	-201.8	-2,339.5	2,348.2	2,339.1	9.10	258.097	
1,000.0	1,000.0	995.0	1,000.0	4.9	4.2	-94.93	-201.8	-2,339.5	2,348.2	2,338.8	9.40	249.697	
1,100.0	1,100.0	1,511.2	1,513.5	5.2	5.7	3.43	-201.7	-2,294.1	2,338.0	2,326.9	11.13	210.099	
1,200.0	1,199.8	1,639.8	1,639.8	5.4	5.8	3.41	-201.7	-2,269.8	2,314.0	2,302.5	11.49	201.456	
1,300.0	1,299.5	1,735.9	1,734.1	5.7	6.0	3.42	-201.6	-2,251.4	2,286.5	2,274.6	11.91	191.925	
1,400.0	1,398.7	1,831.0	1,827.5	6.0	6.2	3.44	-201.6	-2,233.3	2,255.7	2,243.3	12.38	182.188	
1,500.0	1,497.6	1,925.3	1,920.0	6.1	6.4	3.43	-201.6	-2,215.3	2,222.2	2,209.5	12.76	174.111	
1,600.0	1,596.4	2,019.4	2,012.4	6.4	6.7	3.41	-201.5	-2,197.3	2,188.5	2,175.3	13.24	165.339	
1,700.0	1,695.3	2,113.6	2,104.9	6.7	6.9	3.39	-201.5	-2,179.4	2,154.9	2,141.1	13.75	156.732	
1,800.0	1,794.1	2,207.8	2,197.3	6.9	7.2	3.37	-201.5	-2,161.4	2,121.2	2,106.9	14.30	148.387	
1,900.0	1,892.9	2,301.9	2,289.7	7.2	7.5	3.35	-201.4	-2,143.4	2,087.6	2,072.7	14.87	140.370	
2,000.0	1,991.8	2,396.1	2,382.2	7.6	7.8	3.33	-201.4	-2,125.5	2,053.9	2,038.4	15.48	132.717	
2,100.0	2,090.6	2,490.2	2,474.6	7.9	8.1	3.30	-201.4	-2,107.5	2,020.2	2,004.1	16.10	125.453	
2,200.0	2,189.5	2,584.4	2,567.0	8.2	8.4	3.28	-201.3	-2,089.5	1,986.6	1,969.8	16.75	118.587	
2,300.0	2,288.3	2,678.6	2,659.5	8.6	8.8	3.26	-201.3	-2,071.6	1,952.9	1,935.5	17.42	112.113	
2,400.0	2,387.2	2,772.7	2,751.9	8.9	9.1	3.23	-201.3	-2,053.6	1,919.2	1,901.1	18.10	106.021	
2,500.0	2,486.0	2,866.9	2,844.3	9.3	9.5	3.20	-201.3	-2,035.6	1,885.6	1,866.8	18.80	100.294	
2,600.0	2,584.8	2,961.0	2,936.8	9.7	9.8	3.18	-201.2	-2,017.7	1,851.9	1,832.4	19.51	94.914	
2,700.0	2,683.7	3,055.2	3,029.2	10.0	10.2	3.15	-201.2	-1,999.7	1,818.3	1,798.0	20.23	89.861	
2,800.0	2,782.5	3,149.4	3,121.6	10.4	10.6	3.12	-201.2	-1,981.7	1,784.6	1,763.6	20.97	85.114	
2,900.0	2,881.4	3,243.5	3,214.0	10.8	11.0	3.09	-201.1	-1,963.8	1,750.9	1,729.2	21.71	80.654	
3,000.0	2,980.2	3,337.7	3,306.5	11.2	11.3	3.06	-201.1	-1,945.8	1,717.3	1,694.8	22.46	76.460	
3,100.0	3,079.0	3,431.9	3,398.9	11.6	11.7	3.02	-201.1	-1,927.8	1,683.6	1,660.4	23.22	72.513	
3,200.0	3,177.9	3,526.0	3,491.3	12.0	12.1	2.99	-201.0	-1,909.9	1,649.9	1,626.0	23.98	68.797	
3,300.0	3,276.7	3,620.2	3,583.8	12.4	12.5	2.95	-201.0	-1,891.9	1,616.3	1,591.5	24.75	65.294	
3,400.0	3,375.6	3,714.3	3,676.2	12.8	12.9	2.92	-201.0	-1,873.9	1,582.6	1,557.1	25.53	61.989	
3,500.0	3,474.4	3,808.5	3,768.6	13.2	13.3	2.88	-200.9	-1,856.0	1,549.0	1,522.7	26.31	58.868	
3,600.0	3,573.3	3,902.7	3,861.1	13.6	13.7	2.84	-200.9	-1,838.0	1,515.3	1,488.2	27.10	55.918	
3,700.0	3,672.1	3,996.8	3,953.5	14.0	14.1	2.79	-200.9	-1,820.0	1,481.7	1,453.8	27.89	53.126	
3,800.0	3,770.9	4,091.0	4,045.9	14.4	14.5	2.75	-200.8	-1,802.1	1,448.0	1,419.3	28.68	50.481	
3,900.0	3,869.8	4,185.1	4,138.3	14.8	14.9	2.70	-200.8	-1,784.1	1,414.4	1,384.9	29.48	47.972	
4,000.0	3,968.6	4,279.3	4,230.8	15.3	15.3	2.65	-200.8	-1,766.1	1,380.7	1,350.4	30.28	45.591	
4,100.0	4,067.5	4,373.5	4,323.2	15.7	15.7	2.60	-200.8	-1,748.2	1,347.0	1,316.0	31.09	43.329	
4,200.0	4,166.3	4,467.6	4,415.6	16.1	16.2	2.55	-200.7	-1,730.2	1,313.4	1,281.5	31.90	41.177	
4,300.0	4,265.1	4,561.8	4,508.1	16.5	16.6	2.49	-200.7	-1,712.2	1,279.7	1,247.0	32.71	39.129	
4,400.0	4,364.0	4,655.9	4,600.5	16.9	17.0	2.43	-200.7	-1,694.3	1,246.1	1,212.6	33.52	37.177	
4,500.0	4,462.8	4,750.1	4,692.9	17.4	17.4	2.37	-200.6	-1,676.3	1,212.4	1,178.1	34.33	35.315	
4,600.0	4,561.7	4,844.3	4,785.4	17.8	17.8	2.30	-200.6	-1,658.3	1,178.8	1,143.6	35.15	33.537	
4,700.0	4,660.5	4,938.4	4,877.8	18.2	18.2	2.23	-200.6	-1,640.4	1,145.1	1,109.2	35.97	31.838	
4,800.0	4,759.4	5,032.6	4,970.2	18.6	18.7	2.16	-200.5	-1,622.4	1,111.5	1,074.7	36.79	30.214	
4,900.0	4,858.2	5,126.7	5,062.6	19.1	19.1	2.08	-200.5	-1,604.4	1,077.9	1,040.3	37.61	28.659	
5,000.0	4,957.0	5,220.9	5,155.1	19.5	19.5	1.99	-200.5	-1,586.5	1,044.2	1,005.8	38.43	27.170	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11062-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)													
5,100.0	5,055.9	5,315.1	5,247.5	19.9	19.9	1.90		-200.4	-1,568.5	1,010.6	971.3	39.26	25.743	
5,200.0	5,154.7	5,409.2	5,339.9	20.3	20.3	1.81		-200.4	-1,550.5	976.9	936.9	40.08	24.373	
5,300.0	5,253.6	5,503.4	5,432.4	20.8	20.8	1.70		-200.4	-1,532.6	943.4	902.5	40.90	23.067	
5,400.0	5,352.6	5,598.0	5,525.2	21.2	21.2	1.58		-200.3	-1,514.5	910.9	869.2	41.72	21.833	
5,500.0	5,451.8	5,687.2	5,612.9	21.6	21.6	1.45		-200.3	-1,497.6	880.3	837.8	42.53	20.698	
5,600.0	5,551.3	5,770.7	5,695.1	22.0	21.9	1.34		-200.3	-1,482.8	852.6	809.2	43.36	19.664	
5,700.0	5,650.9	5,855.3	5,778.5	22.4	22.3	1.22		-200.3	-1,469.1	827.9	783.7	44.16	18.746	
5,800.0	5,750.7	5,940.9	5,863.1	22.7	22.7	1.11		-200.2	-1,456.4	806.4	761.4	44.95	17.941	
5,900.0	5,850.5	6,027.2	5,948.7	23.1	23.0	1.01		-200.2	-1,444.9	788.0	742.3	45.70	17.244	
6,000.0	5,950.5	6,114.3	6,035.2	23.4	23.4	0.91		-200.2	-1,434.7	772.8	726.4	46.40	16.654	
6,100.0	6,050.5	6,200.0	6,120.4	23.6	23.7	0.83		-200.2	-1,425.8	760.9	713.9	47.05	16.172	
6,200.0	6,150.5	6,290.0	6,210.1	23.7	24.1	-97.68		-200.2	-1,417.9	752.0	704.5	47.48	15.837	
6,300.0	6,250.5	6,378.3	6,298.1	23.7	24.4	-97.74		-200.2	-1,411.5	744.8	697.0	47.86	15.562	
6,400.0	6,350.5	6,466.8	6,386.5	23.8	24.7	-97.80		-200.2	-1,406.5	739.2	691.0	48.22	15.330	
6,500.0	6,450.5	6,555.4	6,475.0	23.8	25.0	-97.83		-200.1	-1,402.8	735.1	686.6	48.54	15.143	
6,600.0	6,550.5	6,644.1	6,563.7	23.8	25.3	-97.86		-200.1	-1,400.5	732.5	683.7	48.83	15.002	
6,700.0	6,650.5	6,732.9	6,652.5	23.9	25.4	-97.87		-200.1	-1,399.6	731.5	682.5	49.03	14.918	
6,740.6	6,691.0	6,771.4	6,691.0	23.9	25.5	-97.87		-200.1	-1,399.6	731.5	682.4	49.06	14.909	
6,800.0	6,750.5	6,830.9	6,750.5	23.9	25.5	-97.87		-200.1	-1,399.6	731.5	682.4	49.09	14.899	
6,900.0	6,850.5	6,930.9	6,850.5	23.9	25.5	-97.87		-200.1	-1,399.6	731.5	682.3	49.16	14.880	
7,000.0	6,950.5	7,030.9	6,950.5	24.0	25.5	-97.87		-200.1	-1,399.6	731.5	682.2	49.22	14.862	
7,100.0	7,050.5	7,130.9	7,050.5	24.0	25.6	-97.87		-200.1	-1,399.6	731.5	682.2	49.28	14.843	
7,200.0	7,150.5	7,230.9	7,150.5	24.0	25.6	-97.87		-200.1	-1,399.6	731.5	682.1	49.34	14.824	
7,300.0	7,250.5	7,330.9	7,250.5	24.1	25.6	-97.87		-200.1	-1,399.6	731.5	682.1	49.41	14.805	
7,400.0	7,350.5	7,430.9	7,350.5	24.1	25.6	-97.87		-200.1	-1,399.6	731.5	682.0	49.47	14.786	
7,500.0	7,450.5	7,530.9	7,450.5	24.1	25.7	-97.87		-200.1	-1,399.6	731.5	681.9	49.54	14.766	
7,600.0	7,550.5	7,630.9	7,550.5	24.2	25.7	-97.87		-200.1	-1,399.6	731.5	681.9	49.60	14.747	
7,700.0	7,650.5	7,730.9	7,650.5	24.2	25.7	-97.87		-200.1	-1,399.6	731.5	681.8	49.67	14.728	
7,800.0	7,750.5	7,830.9	7,750.5	24.2	25.8	-97.87		-200.1	-1,399.6	731.5	681.7	49.73	14.708	
7,900.0	7,850.5	7,930.9	7,850.5	24.3	25.8	-97.87		-200.1	-1,399.6	731.5	681.7	49.80	14.689	
8,000.0	7,950.5	8,030.9	7,950.5	24.3	25.8	-97.87		-200.1	-1,399.6	731.5	681.6	49.86	14.669	
8,100.0	8,050.5	8,130.9	8,050.5	24.3	25.9	-97.87		-200.1	-1,399.6	731.5	681.5	49.93	14.649	
8,200.0	8,150.5	8,230.9	8,150.5	24.4	25.9	-97.87		-200.1	-1,399.6	731.5	681.5	50.00	14.630	
8,300.0	8,250.5	8,330.9	8,250.5	24.4	25.9	-97.87		-200.1	-1,399.6	731.5	681.4	50.07	14.610	
8,400.0	8,350.5	8,430.9	8,350.5	24.5	26.0	-97.87		-200.1	-1,399.6	731.5	681.3	50.13	14.590	
8,500.0	8,450.5	8,530.9	8,450.5	24.5	26.0	-97.87		-200.1	-1,399.6	731.5	681.3	50.20	14.570	
8,600.0	8,550.5	8,630.9	8,550.5	24.5	26.0	-97.87		-200.1	-1,399.6	731.5	681.2	50.27	14.550	
8,700.0	8,650.5	8,730.9	8,650.5	24.6	26.1	-97.87		-200.1	-1,399.6	731.5	681.1	50.34	14.530	
8,800.0	8,750.5	8,830.9	8,750.5	24.6	26.1	-97.87		-200.1	-1,399.6	731.5	681.1	50.41	14.510	
8,900.0	8,850.5	8,930.9	8,850.5	24.6	26.1	-97.87		-200.1	-1,399.6	731.5	681.0	50.48	14.489	
9,000.0	8,950.5	9,030.9	8,950.5	24.7	26.2	-97.87		-200.1	-1,399.6	731.5	680.9	50.55	14.469	
9,100.0	9,050.5	9,130.9	9,050.5	24.7	26.2	-97.87		-200.1	-1,399.6	731.5	680.8	50.62	14.449	
9,200.0	9,150.5	9,230.9	9,150.5	24.8	26.2	-97.87		-200.1	-1,399.6	731.5	680.8	50.70	14.428	
9,300.0	9,250.5	9,330.9	9,250.5	24.8	26.3	-97.87		-200.1	-1,399.6	731.5	680.7	50.77	14.408	
9,400.0	9,350.5	9,430.9	9,350.5	24.8	26.3	-97.87		-200.1	-1,399.6	731.5	680.6	50.84	14.387	
9,500.0	9,450.5	9,530.9	9,450.5	24.9	26.3	-97.87		-200.1	-1,399.6	731.5	680.5	50.91	14.367	
9,600.0	9,550.5	9,630.9	9,550.5	24.9	26.4	-97.87		-200.1	-1,399.6	731.5	680.5	50.99	14.346	
9,700.0	9,650.5	9,730.9	9,650.5	25.0	26.4	-97.87		-200.1	-1,399.6	731.5	680.4	51.06	14.325	
9,800.0	9,750.5	9,830.9	9,750.5	25.0	26.4	-97.87		-200.1	-1,399.6	731.5	680.3	51.14	14.305	
9,900.0	9,850.5	9,930.9	9,850.5	25.0	26.5	-97.87		-200.1	-1,399.6	731.5	680.3	51.21	14.284	
10,000.0	9,950.5	10,030.9	9,950.5	25.1	26.5	-97.87		-200.1	-1,399.6	731.5	680.2	51.28	14.263	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11062-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	
10,100.0	10,050.5	10,130.9	10,050.5	25.1	26.5	-97.87	-200.1	-1,399.6	731.5	680.1	51.36	14.242		
10,200.0	10,150.5	10,230.9	10,150.5	25.2	26.6	-97.87	-200.1	-1,399.6	731.5	680.0	51.44	14.221		
10,300.0	10,250.5	10,330.9	10,250.5	25.2	26.6	-97.87	-200.1	-1,399.6	731.5	680.0	51.51	14.200		
10,400.0	10,350.5	10,430.9	10,350.5	25.2	26.7	-97.87	-200.1	-1,399.6	731.5	679.9	51.59	14.179		
10,500.0	10,450.5	10,530.9	10,450.5	25.3	26.7	-97.87	-200.1	-1,399.6	731.5	679.8	51.67	14.158		
10,600.0	10,550.5	10,630.9	10,550.5	25.3	26.7	-97.87	-200.1	-1,399.6	731.5	679.7	51.74	14.137		
10,700.0	10,650.5	10,730.9	10,650.5	25.4	26.8	-97.87	-200.1	-1,399.6	731.5	679.6	51.82	14.115		
10,800.0	10,750.5	10,830.9	10,750.5	25.4	26.8	-97.87	-200.1	-1,399.6	731.5	679.6	51.90	14.094		
10,900.0	10,850.5	10,930.9	10,850.5	25.4	26.8	-97.87	-200.1	-1,399.6	731.5	679.5	51.98	14.073		
11,000.0	10,950.5	11,030.9	10,950.5	25.5	26.9	-97.87	-200.1	-1,399.6	731.5	679.4	52.05	14.053		
11,100.0	11,050.5	11,146.8	11,065.9	25.5	26.9	-97.28	-192.6	-1,399.6	730.7	678.6	52.15	14.011		
11,200.0	11,150.5	11,259.9	11,173.8	25.6	26.9	-94.71	-159.7	-1,399.9	727.8	675.5	52.25	13.927		
11,289.0	11,239.2	11,340.5	11,244.6	25.6	26.9	93.56	-121.2	-1,400.3	726.0	673.8	52.18	13.914 SF		
11,300.0	11,250.1	11,349.8	11,252.2	25.6	26.9	93.91	-116.0	-1,400.3	725.9	673.8	52.16	13.918 CC, ES		
11,400.0	11,346.4	11,405.4	11,296.1	25.6	26.9	96.67	-81.9	-1,400.6	731.8	680.1	51.71	14.153		
11,500.0	11,435.0	11,432.4	11,315.9	25.6	26.9	96.35	-63.5	-1,400.8	750.7	699.8	50.93	14.739		
11,600.0	11,512.2	11,439.3	11,320.8	25.7	26.9	92.73	-58.6	-1,400.9	783.5	733.6	49.98	15.676		
11,700.0	11,574.5	11,432.9	11,316.3	25.8	26.9	86.27	-63.2	-1,400.8	828.0	779.0	49.01	16.894		
11,800.0	11,619.3	11,417.4	11,305.1	25.9	26.9	77.88	-73.8	-1,400.7	880.1	832.0	48.09	18.300		
11,900.0	11,644.5	11,400.0	11,292.0	26.0	26.9	69.05	-85.4	-1,400.6	935.7	888.5	47.22	19.816		
12,000.0	11,650.0	11,375.0	11,272.6	26.1	26.9	62.62	-101.1	-1,400.5	991.4	944.9	46.46	21.337		
12,100.0	11,650.0	11,350.0	11,252.4	26.3	26.9	62.06	-115.9	-1,400.3	1,048.6	1,002.8	45.76	22.914		
12,200.1	11,650.0	11,325.0	11,231.5	26.5	26.9	61.55	-129.5	-1,400.2	1,108.4	1,063.3	45.10	24.579		
12,300.0	11,650.0	11,300.0	11,209.8	26.8	26.9	60.32	-142.0	-1,400.1	1,171.7	1,127.2	44.48	26.342		
12,400.0	11,650.0	11,290.5	11,201.5	27.1	26.9	59.85	-146.5	-1,400.1	1,239.1	1,195.3	43.79	28.298		
12,500.0	11,650.0	11,275.0	11,187.6	27.4	26.9	59.09	-153.4	-1,400.0	1,310.1	1,266.9	43.23	30.304		
12,600.0	11,650.0	11,263.6	11,177.2	27.7	26.9	58.52	-158.2	-1,400.0	1,384.3	1,341.6	42.71	32.410		
12,700.0	11,650.0	11,250.0	11,164.8	28.1	26.9	57.85	-163.6	-1,399.9	1,461.3	1,419.0	42.28	34.559		
12,800.0	11,650.0	11,250.0	11,164.8	28.5	26.9	57.85	-163.6	-1,399.9	1,540.7	1,498.9	41.80	36.859		
12,900.0	11,650.0	11,225.0	11,141.4	28.9	26.9	56.63	-172.6	-1,399.8	1,622.1	1,580.5	41.59	39.004		
13,000.0	11,650.0	11,225.0	11,141.4	29.3	26.9	56.63	-172.6	-1,399.8	1,705.2	1,664.0	41.22	41.372		
13,100.0	11,650.0	11,225.0	11,141.4	29.8	26.9	56.63	-172.6	-1,399.8	1,790.1	1,749.2	40.90	43.772		
13,200.0	11,650.0	11,209.9	11,127.1	30.3	26.9	55.89	-177.4	-1,399.8	1,876.1	1,835.4	40.73	46.060		
13,300.0	11,650.0	11,200.0	11,117.7	30.8	26.9	55.41	-180.3	-1,399.8	1,963.5	1,922.9	40.56	48.407		
13,400.0	11,650.0	11,200.0	11,117.7	31.4	26.9	55.41	-180.3	-1,399.8	2,051.9	2,011.6	40.35	50.848		
13,500.0	11,650.0	11,200.0	11,117.7	32.0	26.9	55.41	-180.3	-1,399.8	2,141.3	2,101.2	40.18	53.300		
13,600.0	11,650.0	11,187.3	11,105.4	32.6	26.9	54.80	-183.8	-1,399.7	2,231.5	2,191.4	40.11	55.637		
13,700.0	11,650.0	11,175.0	11,093.5	33.2	26.9	54.21	-186.8	-1,399.7	2,322.5	2,282.4	40.06	57.982		
13,800.0	11,650.0	11,175.0	11,093.5	33.8	26.9	54.21	-186.8	-1,399.7	2,414.1	2,374.1	39.94	60.436		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11145-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	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)			
0.0	0.0	2.2	0.0	3.0	3.0	-17.65	199.1	-63.4	209.0	202.6	6.43	32.506	
100.0	100.0	102.2	100.0	3.2	3.1	-17.65	199.1	-63.4	209.0	202.3	6.72	31.111	
200.0	200.0	202.2	200.0	3.5	3.2	-17.65	199.1	-63.4	209.0	201.9	7.06	29.589	
300.0	300.0	302.2	300.0	3.7	3.3	-17.65	199.1	-63.4	209.0	201.6	7.40	28.257	
400.0	400.0	402.2	400.0	3.9	3.4	-17.65	199.1	-63.4	209.0	201.3	7.72	27.076	
500.0	500.0	502.2	500.0	4.1	3.6	-17.65	199.1	-63.4	209.0	200.9	8.03	26.020	
600.0	600.0	602.2	600.0	4.2	3.7	-17.65	199.1	-63.4	209.0	200.6	8.34	25.068	
700.0	700.0	702.2	700.0	4.4	3.8	-17.65	199.1	-63.4	209.0	200.3	8.63	24.202	
800.0	800.0	802.2	800.0	4.6	3.9	-17.65	199.1	-63.4	209.0	200.1	8.93	23.412	
900.0	900.0	902.2	900.0	4.8	4.0	-17.65	199.1	-63.4	209.0	199.8	9.21	22.685	
1,000.0	1,000.0	1,002.2	1,000.0	4.9	4.2	-17.65	199.1	-63.4	209.0	199.5	9.49	22.014	
1,100.0	1,100.0	1,102.7	1,100.5	5.2	4.3	80.89	198.6	-64.6	208.6	198.8	9.75	21.389	
1,200.0	1,199.8	1,203.2	1,200.9	5.4	4.5	81.24	197.0	-68.3	207.4	197.3	10.06	20.613	
1,300.0	1,299.5	1,303.8	1,301.3	5.7	4.7	81.85	194.4	-74.5	205.4	195.0	10.36	19.815	
1,400.0	1,398.7	1,404.3	1,401.4	6.0	5.0	82.72	190.8	-83.0	202.6	192.0	10.67	18.995	
1,500.0	1,497.6	1,504.9	1,501.3	6.1	5.3	83.63	186.1	-94.0	199.3	188.4	10.90	18.285	
1,600.0	1,596.4	1,605.6	1,600.9	6.4	5.6	83.85	180.4	-107.4	195.5	184.3	11.21	17.447	
1,700.0	1,695.3	1,706.2	1,700.0	6.7	5.9	83.30	173.7	-123.3	191.4	179.9	11.51	16.624	
1,800.0	1,794.1	1,806.2	1,798.2	6.9	6.2	82.13	166.3	-140.8	187.1	175.3	11.77	15.891	
1,900.0	1,892.9	1,906.0	1,896.2	7.2	6.5	80.89	158.8	-158.3	182.8	170.7	12.10	15.111	
2,000.0	1,991.8	2,005.9	1,994.2	7.6	6.9	79.58	151.4	-175.8	178.6	166.2	12.43	14.370	
2,100.0	2,090.6	2,105.7	2,092.2	7.9	7.3	78.21	144.0	-193.4	174.6	161.8	12.77	13.666	
2,200.0	2,189.5	2,205.5	2,190.1	8.2	7.6	76.78	136.5	-210.9	170.6	157.5	13.13	12.995	
2,300.0	2,288.3	2,305.3	2,288.1	8.6	8.0	75.28	129.1	-228.4	166.7	153.2	13.50	12.356	
2,400.0	2,387.2	2,405.2	2,386.1	8.9	8.4	73.72	121.6	-246.0	163.0	149.1	13.88	11.744	
2,500.0	2,486.0	2,505.0	2,484.1	9.3	8.8	72.08	114.2	-263.5	159.4	145.1	14.29	11.158	
2,600.0	2,584.8	2,604.8	2,582.1	9.7	9.2	70.36	106.8	-281.0	155.9	141.2	14.72	10.596	
2,700.0	2,683.7	2,704.7	2,680.1	10.0	9.7	68.57	99.3	-298.6	152.6	137.4	15.18	10.055	
2,800.0	2,782.5	2,804.5	2,778.1	10.4	10.1	66.71	91.9	-316.1	149.4	133.8	15.67	9.536	
2,900.0	2,881.4	2,904.3	2,876.1	10.8	10.5	64.76	84.4	-333.6	146.4	130.2	16.21	9.036	
3,000.0	2,980.2	3,004.1	2,974.1	11.2	10.9	62.73	77.0	-351.2	143.6	126.8	16.78	8.556	
3,100.0	3,079.0	3,104.0	3,072.1	11.6	11.4	60.63	69.5	-368.7	141.0	123.6	17.41	8.096	
3,200.0	3,177.9	3,203.8	3,170.1	12.0	11.8	58.45	62.1	-386.2	138.5	120.4	18.10	7.656	
3,300.0	3,276.7	3,303.6	3,268.1	12.4	12.2	56.19	54.7	-403.8	136.3	117.5	18.83	7.237	
3,400.0	3,375.6	3,403.5	3,366.1	12.8	12.7	53.87	47.2	-421.3	134.3	114.7	19.63	6.840	
3,500.0	3,474.4	3,503.3	3,464.1	13.2	13.1	51.48	39.8	-438.8	132.5	112.0	20.49	6.465	
3,600.0	3,573.3	3,603.1	3,562.1	13.6	13.5	49.02	32.3	-456.4	131.0	109.5	21.42	6.114	
3,700.0	3,672.1	3,702.9	3,660.1	14.0	14.0	46.51	24.9	-473.9	129.7	107.3	22.40	5.788	
3,800.0	3,770.9	3,802.8	3,758.1	14.4	14.4	43.96	17.4	-491.4	128.6	105.2	23.44	5.487	
3,900.0	3,869.8	3,902.6	3,856.0	14.8	14.9	41.37	10.0	-509.0	127.8	103.3	24.53	5.211	
4,000.0	3,968.6	4,002.4	3,954.0	15.3	15.3	38.76	2.6	-526.5	127.3	101.6	25.66	4.960	
4,100.0	4,067.5	4,102.3	4,052.0	15.7	15.8	36.12	-4.9	-544.0	127.0	100.2	26.84	4.733	
4,144.9	4,111.9	4,147.1	4,096.1	15.9	16.0	34.94	-8.2	-551.9	127.0	99.6	27.38	4.639 CC	
4,200.0	4,166.3	4,202.1	4,150.0	16.1	16.2	33.49	-12.3	-561.6	127.1	99.0	28.05	4.530	
4,300.0	4,265.1	4,301.9	4,248.0	16.5	16.7	30.85	-19.8	-579.1	127.3	98.1	29.28	4.349	
4,400.0	4,364.0	4,401.7	4,346.0	16.9	17.1	28.24	-27.2	-596.6	127.9	97.4	30.53	4.189	
4,500.0	4,462.8	4,501.6	4,444.0	17.4	17.6	25.65	-34.7	-614.2	128.7	96.9	31.78	4.050	
4,600.0	4,561.7	4,601.4	4,542.0	17.8	18.0	23.11	-42.1	-631.7	129.8	96.7	33.03	3.929 ES	
4,700.0	4,660.5	4,701.2	4,640.0	18.2	18.5	20.60	-49.5	-649.2	131.1	96.8	34.28	3.825	
4,800.0	4,759.4	4,801.1	4,738.0	18.6	18.9	18.16	-57.0	-666.8	132.7	97.2	35.51	3.736	
4,900.0	4,858.2	4,900.9	4,836.0	19.1	19.4	15.77	-64.4	-684.3	134.5	97.8	36.73	3.662	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11145-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		
5,000.0	4,957.0	5,000.7	4,934.0	19.5	19.8	13.45	-71.9	-701.8	136.5	98.6	37.92	3.601			
5,100.0	5,055.9	5,100.5	5,032.0	19.9	20.3	11.21	-79.3	-719.4	138.8	99.7	39.08	3.551			
5,200.0	5,154.7	5,200.4	5,130.0	20.3	20.7	9.03	-86.8	-736.9	141.3	101.0	40.22	3.512			
5,300.0	5,253.6	5,300.2	5,228.0	20.8	21.2	6.94	-94.2	-754.4	144.0	102.6	41.32	3.484	SF		
5,400.0	5,352.6	5,400.0	5,325.9	21.2	21.7	4.88	-101.6	-772.0	148.1	105.7	42.39	3.493			
5,500.0	5,451.8	5,499.7	5,423.8	21.6	22.1	2.91	-109.1	-789.5	154.1	110.7	43.42	3.549			
5,600.0	5,551.3	5,600.3	5,522.6	22.0	22.6	1.08	-116.5	-806.9	161.8	117.4	44.40	3.644			
5,700.0	5,650.9	5,701.2	5,621.9	22.4	23.0	-0.52	-123.6	-823.6	170.6	125.2	45.33	3.763			
5,800.0	5,750.7	5,802.1	5,721.3	22.7	23.5	-1.88	-130.3	-839.5	180.3	134.1	46.21	3.902			
5,900.0	5,850.5	5,903.1	5,820.9	23.1	23.9	-3.02	-136.7	-854.6	191.0	144.0	47.04	4.062			
6,000.0	5,950.5	6,004.1	5,920.7	23.4	24.4	-3.96	-142.8	-868.9	202.7	154.9	47.81	4.240			
6,100.0	6,050.5	6,105.1	6,020.6	23.6	24.8	-4.73	-148.5	-882.4	215.3	166.7	48.51	4.437			
6,200.0	6,150.5	6,206.1	6,120.7	23.7	25.2	-103.76	-153.9	-895.0	228.5	179.5	49.02	4.661			
6,300.0	6,250.5	6,307.3	6,221.1	23.7	25.7	-104.26	-158.9	-906.9	241.1	191.6	49.48	4.873			
6,400.0	6,350.5	6,408.8	6,321.8	23.8	26.1	-104.67	-163.6	-918.0	252.8	202.9	49.93	5.064			
6,500.0	6,450.5	6,510.4	6,422.9	23.8	26.5	-105.03	-168.0	-928.3	263.7	213.3	50.37	5.235			
6,600.0	6,550.5	6,612.3	6,524.2	23.8	26.9	-105.33	-172.0	-937.8	273.7	222.9	50.81	5.387			
6,700.0	6,650.5	6,714.3	6,625.8	23.9	27.3	-105.58	-175.7	-946.4	282.9	231.6	51.24	5.521			
6,800.0	6,750.5	6,816.5	6,727.7	23.9	27.7	-105.80	-179.0	-954.3	291.2	239.5	51.65	5.637			
6,900.0	6,850.5	6,918.8	6,829.7	23.9	28.1	-105.98	-182.0	-961.3	298.5	246.5	52.06	5.735			
7,000.0	6,950.5	7,021.3	6,931.9	24.0	28.5	-106.14	-184.6	-967.5	305.1	252.6	52.45	5.817			
7,100.0	7,050.5	7,123.9	7,034.4	24.0	28.8	-106.27	-186.9	-972.8	310.7	257.9	52.82	5.882			
7,200.0	7,150.5	7,226.6	7,136.9	24.0	29.2	-106.37	-188.8	-977.4	315.4	262.2	53.18	5.931			
7,300.0	7,250.5	7,329.3	7,239.6	24.1	29.5	-106.45	-190.4	-981.0	319.3	265.7	53.52	5.965			
7,400.0	7,350.5	7,432.1	7,342.4	24.1	29.8	-106.52	-191.6	-983.8	322.2	268.4	53.84	5.985			
7,500.0	7,450.5	7,535.0	7,445.2	24.1	30.1	-106.56	-192.4	-985.8	324.3	270.2	54.13	5.991			
7,600.0	7,550.5	7,637.9	7,548.1	24.2	30.3	-106.58	-192.9	-986.9	325.5	271.1	54.38	5.986			
7,700.0	7,650.5	7,740.3	7,650.5	24.2	30.5	-106.59	-193.0	-987.2	325.8	271.3	54.52	5.975			
7,800.0	7,750.5	7,840.3	7,750.5	24.2	30.5	-106.59	-193.0	-987.2	325.8	271.2	54.57	5.970			
7,900.0	7,850.5	7,940.3	7,850.5	24.3	30.5	-106.59	-193.0	-987.2	325.8	271.2	54.62	5.964			
8,000.0	7,950.5	8,040.3	7,950.5	24.3	30.5	-106.59	-193.0	-987.2	325.8	271.1	54.67	5.959			
8,100.0	8,050.5	8,140.3	8,050.5	24.3	30.6	-106.59	-193.0	-987.2	325.8	271.0	54.73	5.953			
8,200.0	8,150.5	8,240.3	8,150.5	24.4	30.6	-106.59	-193.0	-987.2	325.8	271.0	54.78	5.947			
8,300.0	8,250.5	8,340.3	8,250.5	24.4	30.6	-106.59	-193.0	-987.2	325.8	270.9	54.83	5.941			
8,400.0	8,350.5	8,440.3	8,350.5	24.5	30.6	-106.59	-193.0	-987.2	325.8	270.9	54.89	5.935			
8,500.0	8,450.5	8,540.3	8,450.5	24.5	30.6	-106.59	-193.0	-987.2	325.8	270.8	54.94	5.930			
8,600.0	8,550.5	8,640.3	8,550.5	24.5	30.7	-106.59	-193.0	-987.2	325.8	270.8	54.99	5.924			
8,700.0	8,650.5	8,740.3	8,650.5	24.6	30.7	-106.59	-193.0	-987.2	325.8	270.7	55.05	5.918			
8,800.0	8,750.5	8,840.3	8,750.5	24.6	30.7	-106.59	-193.0	-987.2	325.8	270.7	55.10	5.912			
8,900.0	8,850.5	8,940.3	8,850.5	24.6	30.7	-106.59	-193.0	-987.2	325.8	270.6	55.16	5.906			
9,000.0	8,950.5	9,040.3	8,950.5	24.7	30.7	-106.59	-193.0	-987.2	325.8	270.6	55.22	5.900			
9,100.0	9,050.5	9,140.3	9,050.5	24.7	30.8	-106.59	-193.0	-987.2	325.8	270.5	55.27	5.894			
9,200.0	9,150.5	9,240.3	9,150.5	24.8	30.8	-106.59	-193.0	-987.2	325.8	270.4	55.33	5.888			
9,300.0	9,250.5	9,340.3	9,250.5	24.8	30.8	-106.59	-193.0	-987.2	325.8	270.4	55.39	5.882			
9,400.0	9,350.5	9,440.3	9,350.5	24.8	30.8	-106.59	-193.0	-987.2	325.8	270.3	55.45	5.875			
9,500.0	9,450.5	9,540.3	9,450.5	24.9	30.8	-106.59	-193.0	-987.2	325.8	270.3	55.50	5.869			
9,600.0	9,550.5	9,640.3	9,550.5	24.9	30.9	-106.59	-193.0	-987.2	325.8	270.2	55.56	5.863			
9,700.0	9,650.5	9,740.3	9,650.5	25.0	30.9	-106.59	-193.0	-987.2	325.8	270.2	55.62	5.857			
9,800.0	9,750.5	9,840.3	9,750.5	25.0	30.9	-106.59	-193.0	-987.2	325.8	270.1	55.68	5.851			
9,900.0	9,850.5	9,940.3	9,850.5	25.0	30.9	-106.59	-193.0	-987.2	325.8	270.0	55.74	5.844			
10,000.0	9,950.5	10,040.3	9,950.5	25.1	31.0	-106.59	-193.0	-987.2	325.8	270.0	55.80	5.838			

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11145-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
10,100.0	10,050.5	10,140.3	10,050.5	25.1	31.0	-106.59	-193.0	-987.2	325.8	269.9	55.86	5.832
10,200.0	10,150.5	10,240.3	10,150.5	25.2	31.0	-106.59	-193.0	-987.2	325.8	269.8	55.92	5.825
10,300.0	10,250.5	10,340.3	10,250.5	25.2	31.0	-106.59	-193.0	-987.2	325.8	269.8	55.99	5.819
10,400.0	10,350.5	10,440.3	10,350.5	25.2	31.1	-106.59	-193.0	-987.2	325.8	269.7	56.05	5.812
10,500.0	10,450.5	10,540.3	10,450.5	25.3	31.1	-106.59	-193.0	-987.2	325.8	269.7	56.11	5.806
10,600.0	10,550.5	10,640.3	10,550.5	25.3	31.1	-106.59	-193.0	-987.2	325.8	269.6	56.17	5.800
10,700.0	10,650.5	10,740.3	10,650.5	25.4	31.1	-106.59	-193.0	-987.2	325.8	269.5	56.24	5.793
10,800.0	10,750.5	10,840.3	10,750.5	25.4	31.1	-106.59	-193.0	-987.2	325.8	269.5	56.30	5.786
10,900.0	10,850.5	10,940.3	10,850.5	25.4	31.2	-106.59	-193.0	-987.2	325.8	269.4	56.36	5.780
11,000.0	10,950.5	11,040.3	10,950.5	25.5	31.2	-106.59	-193.0	-987.2	325.8	269.3	56.43	5.773
11,100.0	11,050.5	11,140.3	11,050.5	25.5	31.2	-106.59	-193.0	-987.2	325.8	269.3	56.49	5.767
11,200.0	11,150.5	11,256.4	11,165.9	25.6	31.2	-104.73	-182.1	-987.3	323.3	267.1	56.20	5.753
11,300.0	11,250.1	11,361.9	11,266.9	25.6	31.3	86.89	-152.3	-987.7	317.0	261.3	55.77	5.685
11,360.0	11,308.5	11,412.0	11,312.6	25.6	31.3	92.62	-131.7	-988.0	314.8	259.7	55.17	5.707
11,400.0	11,346.4	11,439.0	11,336.5	25.6	31.3	96.04	-119.0	-988.1	316.3	261.8	54.49	5.804
11,500.0	11,435.0	11,485.3	11,375.8	25.6	31.3	100.71	-94.7	-988.4	335.9	284.1	51.79	6.486
11,600.0	11,512.2	11,500.0	11,387.9	25.7	31.3	97.13	-86.3	-988.5	381.1	332.4	48.79	7.812
11,700.0	11,574.5	11,509.3	11,395.4	25.8	31.3	88.51	-80.8	-988.6	445.9	400.2	45.78	9.740
11,800.0	11,619.3	11,500.0	11,387.9	25.9	31.3	73.25	-86.3	-988.5	521.5	477.7	43.78	11.911
11,900.0	11,644.5	11,480.4	11,371.7	26.0	31.3	56.76	-97.4	-988.4	600.1	557.8	42.34	14.175
12,000.0	11,650.0	11,450.0	11,346.0	26.1	31.3	46.30	-113.6	-988.2	677.0	635.7	41.30	16.392
12,100.0	11,650.0	11,431.4	11,329.8	26.3	31.3	46.54	-122.7	-988.1	754.6	714.3	40.23	18.757
12,200.1	11,650.0	11,400.0	11,301.8	26.5	31.3	45.96	-137.0	-987.9	834.5	794.8	39.69	21.024
12,300.0	11,650.0	11,400.0	11,301.8	26.8	31.3	45.96	-137.0	-987.9	916.4	877.6	38.80	23.618
12,400.0	11,650.0	11,376.7	11,280.6	27.1	31.3	44.26	-146.6	-987.8	1,000.9	962.4	38.51	25.991
12,500.0	11,650.0	11,350.0	11,255.8	27.4	31.3	42.40	-156.6	-987.7	1,087.7	1,049.4	38.37	28.347
12,600.0	11,650.0	11,350.0	11,255.8	27.7	31.3	42.40	-156.6	-987.7	1,175.9	1,137.9	38.00	30.944
12,700.0	11,650.0	11,350.0	11,255.8	28.1	31.3	42.40	-156.6	-987.7	1,265.8	1,228.1	37.74	33.537
12,800.0	11,650.0	11,328.7	11,235.8	28.5	31.3	40.98	-163.7	-987.6	1,356.6	1,318.9	37.76	35.928
12,900.0	11,650.0	11,319.6	11,227.1	28.9	31.3	40.39	-166.5	-987.5	1,448.5	1,410.8	37.70	38.421
13,000.0	11,650.0	11,300.0	11,208.3	29.3	31.3	39.16	-172.1	-987.5	1,541.5	1,503.7	37.76	40.825
13,100.0	11,650.0	11,300.0	11,208.3	29.8	31.3	39.16	-172.1	-987.5	1,634.8	1,597.1	37.70	43.369
13,200.0	11,650.0	11,300.0	11,208.3	30.3	31.3	39.16	-172.1	-987.5	1,728.9	1,691.2	37.66	45.902
13,300.0	11,650.0	11,300.0	11,208.3	30.8	31.3	39.16	-172.1	-987.5	1,823.6	1,785.9	37.66	48.424
13,400.0	11,650.0	11,300.0	11,208.3	31.4	31.3	39.16	-172.1	-987.5	1,918.8	1,881.2	37.67	50.935
13,500.0	11,650.0	11,279.2	11,188.1	32.0	31.3	37.91	-177.3	-987.4	2,014.1	1,976.3	37.80	53.282
13,600.0	11,650.0	11,274.2	11,183.3	32.6	31.3	37.62	-178.4	-987.4	2,109.9	2,072.1	37.86	55.734
13,700.0	11,650.0	11,250.0	11,159.6	33.2	31.2	36.25	-183.4	-987.3	2,206.5	2,168.5	38.00	58.061
13,800.0	11,650.0	11,250.0	11,159.6	33.8	31.2	36.25	-183.4	-987.3	2,302.8	2,264.8	38.05	60.522
13,900.0	11,650.0	11,250.0	11,159.6	34.4	31.2	36.25	-183.4	-987.3	2,399.4	2,361.3	38.10	62.971
14,000.0	11,650.0	11,250.0	11,159.6	35.1	31.2	36.25	-183.4	-987.3	2,496.3	2,458.1	38.16	65.409

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10931-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	2.6	0.0	3.0	3.0	-9.50	199.4	-33.4	202.2	195.8	6.43	31.455		
100.0	100.0	102.6	100.0	3.2	3.1	-9.50	199.4	-33.4	202.2	195.5	6.72	30.103		
200.0	200.0	202.6	200.0	3.5	3.2	-9.50	199.4	-33.4	202.2	195.2	7.06	28.629		
300.0	300.0	302.6	300.0	3.7	3.3	-9.50	199.4	-33.4	202.2	194.8	7.40	27.338		
400.0	400.0	402.6	400.0	3.9	3.4	-9.50	199.4	-33.4	202.2	194.5	7.72	26.194		
500.0	500.0	502.6	500.0	4.1	3.6	-9.50	199.4	-33.4	202.2	194.2	8.03	25.170		
600.0	600.0	602.6	600.0	4.2	3.7	-9.50	199.4	-33.4	202.2	193.9	8.34	24.246		
700.0	700.0	702.6	700.0	4.4	3.8	-9.50	199.4	-33.4	202.2	193.6	8.64	23.407		
800.0	800.0	802.6	800.0	4.6	3.9	-9.50	199.4	-33.4	202.2	193.3	8.93	22.639		
900.0	900.0	902.6	900.0	4.8	4.0	-9.50	199.4	-33.4	202.2	193.0	9.22	21.934		
1,000.0	1,000.0	1,002.7	1,000.1	4.9	4.2	-9.50	199.4	-33.4	202.2	192.7	9.50	21.281		
1,100.0	1,100.0	1,105.9	1,103.3	5.2	4.3	88.96	198.3	-35.0	201.3	191.6	9.78	20.579		
1,200.0	1,199.8	1,209.1	1,206.3	5.4	4.6	89.10	195.0	-39.6	198.8	188.7	10.11	19.654		
1,300.0	1,299.5	1,312.2	1,309.0	5.7	4.9	89.37	189.5	-47.1	194.6	184.1	10.44	18.629		
1,400.0	1,398.7	1,414.7	1,410.6	6.0	5.3	89.77	181.9	-57.6	188.7	178.0	10.78	17.514		
1,500.0	1,497.6	1,514.4	1,509.4	6.1	5.5	90.63	173.7	-68.8	182.3	171.3	11.03	16.526		
1,600.0	1,596.4	1,614.2	1,608.2	6.4	5.8	91.58	165.5	-80.1	175.9	164.5	11.37	15.468		
1,700.0	1,695.3	1,714.0	1,707.0	6.7	6.1	92.59	157.4	-91.3	169.6	157.8	11.72	14.463		
1,800.0	1,794.1	1,813.7	1,805.8	6.9	6.4	93.69	149.2	-102.5	163.3	151.2	12.09	13.506		
1,900.0	1,892.9	1,913.5	1,904.6	7.2	6.7	94.87	141.1	-113.7	157.1	144.6	12.47	12.596		
2,000.0	1,991.8	2,013.2	2,003.3	7.6	7.1	96.15	132.9	-125.0	150.9	138.1	12.87	11.730		
2,100.0	2,090.6	2,113.0	2,102.1	7.9	7.4	97.54	124.7	-136.2	144.9	131.6	13.28	10.905		
2,200.0	2,189.5	2,212.7	2,200.9	8.2	7.8	99.05	116.6	-147.4	138.9	125.2	13.73	10.119		
2,300.0	2,288.3	2,312.5	2,299.7	8.6	8.1	100.69	108.4	-158.7	133.0	118.8	14.20	9.371		
2,400.0	2,387.2	2,412.2	2,398.5	8.9	8.5	102.48	100.3	-169.9	127.3	112.6	14.70	8.659		
2,500.0	2,486.0	2,512.0	2,497.2	9.3	8.9	104.44	92.1	-181.1	121.7	106.4	15.24	7.983		
2,600.0	2,584.8	2,611.7	2,596.0	9.7	9.3	106.58	83.9	-192.4	116.2	100.4	15.83	7.341		
2,700.0	2,683.7	2,711.5	2,694.8	10.0	9.6	108.93	75.8	-203.6	110.9	94.5	16.47	6.735		
2,800.0	2,782.5	2,811.2	2,793.6	10.4	10.0	111.51	67.6	-214.8	105.9	88.7	17.18	6.163		
2,900.0	2,881.4	2,911.0	2,892.4	10.8	10.4	114.34	59.5	-226.1	101.0	83.1	17.95	5.628		
3,000.0	2,980.2	3,010.7	2,991.2	11.2	10.8	117.45	51.3	-237.3	96.5	77.7	18.80	5.130		
3,100.0	3,079.0	3,110.5	3,089.9	11.6	11.2	120.86	43.1	-248.5	92.2	72.5	19.74	4.672		
3,200.0	3,177.9	3,210.2	3,188.7	12.0	11.6	124.58	35.0	-259.8	88.3	67.6	20.75	4.255		
3,300.0	3,276.7	3,310.0	3,287.5	12.4	12.0	128.62	26.8	-271.0	84.8	63.0	21.85	3.882		
3,400.0	3,375.6	3,409.7	3,386.3	12.8	12.4	132.98	18.7	-282.2	81.8	58.8	23.02	3.554		
3,500.0	3,474.4	3,509.5	3,485.1	13.2	12.8	137.65	10.5	-293.5	79.3	55.0	24.23	3.272		
3,600.0	3,573.3	3,609.2	3,583.8	13.6	13.2	142.59	2.3	-304.7	77.3	51.8	25.46	3.036		
3,700.0	3,672.1	3,709.0	3,682.6	14.0	13.6	147.74	-5.8	-315.9	76.0	49.3	26.68	2.846		
3,800.0	3,770.9	3,808.7	3,781.4	14.4	14.1	153.04	-14.0	-327.1	75.2	47.4	27.85	2.701		
3,859.9	3,830.1	3,868.5	3,840.6	14.7	14.3	156.24	-18.9	-333.9	75.1	46.6	28.51	2.635 CC		
3,900.0	3,869.8	3,908.5	3,880.2	14.8	14.5	158.39	-22.1	-338.4	75.2	46.2	28.93	2.599		
4,000.0	3,968.6	4,008.2	3,979.0	15.3	14.9	163.70	-30.3	-349.6	75.8	45.9	29.88	2.535 ES		
4,100.0	4,067.5	4,108.0	4,077.7	15.7	15.3	168.89	-38.5	-360.8	77.0	46.3	30.70	2.507		
4,200.0	4,166.3	4,207.8	4,176.5	16.1	15.7	173.88	-46.6	-372.1	78.8	47.4	31.39	2.512		
4,300.0	4,265.1	4,307.5	4,275.3	16.5	16.1	178.60	-54.8	-383.3	81.2	49.3	31.94	2.544		
4,400.0	4,364.0	4,407.3	4,374.1	16.9	16.5	-176.97	-62.9	-394.5	84.2	51.8	32.38	2.600		
4,500.0	4,462.8	4,507.0	4,472.9	17.4	17.0	-172.86	-71.1	-405.8	87.6	54.9	32.72	2.677		
4,600.0	4,561.7	4,606.8	4,571.7	17.8	17.4	-169.08	-79.3	-417.0	91.4	58.4	32.98	2.772		
4,700.0	4,660.5	4,706.5	4,670.4	18.2	17.8	-165.62	-87.4	-428.2	95.6	62.4	33.19	2.880		
4,800.0	4,759.4	4,806.3	4,769.2	18.6	18.2	-162.45	-95.6	-439.5	100.1	66.7	33.36	3.000		
4,900.0	4,858.2	4,906.0	4,868.0	19.1	18.6	-159.56	-103.7	-450.7	104.9	71.4	33.51	3.130		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10931-r.5 MWD+IFR1+MS				Rule Assigned:										Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.0	4,957.0	5,005.8	4,966.8	19.5	19.1	-156.94	-111.9	-461.9	109.9	76.3	33.65	3.267			
5,100.0	5,055.9	5,105.5	5,065.6	19.9	19.5	-154.54	-120.1	-473.2	115.2	81.4	33.78	3.409			
5,200.0	5,154.7	5,205.3	5,164.3	20.3	19.9	-152.36	-128.2	-484.4	120.6	86.7	33.91	3.556			
5,300.0	5,253.6	5,304.6	5,262.8	20.8	20.3	-150.44	-136.2	-495.4	126.2	92.2	34.02	3.710			
5,400.0	5,352.6	5,403.8	5,361.1	21.2	20.7	-148.74	-143.8	-505.8	131.4	97.2	34.18	3.844			
5,500.0	5,451.8	5,503.1	5,459.6	21.6	21.1	-147.08	-150.8	-515.5	135.6	101.3	34.29	3.954			
5,600.0	5,551.3	5,602.4	5,558.3	22.0	21.5	-145.43	-157.3	-524.5	138.9	104.5	34.36	4.043			
5,700.0	5,650.9	5,701.7	5,657.1	22.4	21.9	-143.75	-163.4	-532.8	141.3	106.9	34.37	4.111			
5,800.0	5,750.7	5,801.1	5,756.0	22.7	22.3	-142.00	-168.9	-540.4	142.8	108.5	34.31	4.162			
5,900.0	5,850.5	5,900.5	5,855.1	23.1	22.7	-140.17	-173.9	-547.3	143.4	109.3	34.16	4.198			
6,000.0	5,950.5	6,000.0	5,954.3	23.4	23.1	-138.21	-178.5	-553.5	143.2	109.3	33.93	4.220			
6,100.0	6,050.5	6,099.3	6,053.4	23.6	23.4	-136.08	-182.5	-559.1	142.2	108.6	33.57	4.235			
6,200.0	6,150.5	6,198.8	6,152.7	23.7	23.8	127.75	-186.0	-563.9	140.5	107.5	32.99	4.259			
6,300.0	6,250.5	6,298.3	6,252.1	23.7	24.1	129.78	-189.0	-568.1	139.2	106.7	32.47	4.285			
6,400.0	6,350.5	6,397.9	6,351.6	23.8	24.4	131.49	-191.5	-571.5	138.2	106.1	32.07	4.309			
6,500.0	6,450.5	6,497.6	6,451.2	23.8	24.8	132.87	-193.5	-574.3	137.5	105.7	31.77	4.327			
6,600.0	6,550.5	6,597.4	6,551.0	23.8	25.1	133.91	-195.0	-576.3	137.0	105.4	31.59	4.337			
6,700.0	6,650.5	6,697.2	6,650.7	23.9	25.3	134.60	-196.0	-577.7	136.7	105.2	31.52	4.338			
6,800.0	6,750.5	6,797.0	6,750.5	23.9	25.5	134.93	-196.5	-578.3	136.6	105.0	31.55	4.330			
6,857.2	6,807.6	6,854.1	6,807.6	23.9	25.6	134.96	-196.5	-578.4	136.6	105.0	31.58	4.325			
6,900.0	6,850.5	6,896.9	6,850.5	23.9	25.6	134.96	-196.5	-578.4	136.6	105.0	31.61	4.321			
7,000.0	6,950.5	6,996.9	6,950.5	24.0	25.6	134.96	-196.5	-578.4	136.6	104.9	31.69	4.310			
7,100.0	7,050.5	7,096.9	7,050.5	24.0	25.6	134.96	-196.5	-578.4	136.6	104.8	31.77	4.298			
7,200.0	7,150.5	7,196.9	7,150.5	24.0	25.6	134.96	-196.5	-578.4	136.6	104.7	31.86	4.287			
7,300.0	7,250.5	7,296.9	7,250.5	24.1	25.7	134.96	-196.5	-578.4	136.6	104.6	31.95	4.275			
7,400.0	7,350.5	7,396.9	7,350.5	24.1	25.7	134.96	-196.5	-578.4	136.6	104.5	32.03	4.263			
7,500.0	7,450.5	7,496.9	7,450.5	24.1	25.7	134.96	-196.5	-578.4	136.6	104.5	32.12	4.252			
7,600.0	7,550.5	7,596.9	7,550.5	24.2	25.7	134.96	-196.5	-578.4	136.6	104.4	32.21	4.240			
7,700.0	7,650.5	7,696.9	7,650.5	24.2	25.8	134.96	-196.5	-578.4	136.6	104.3	32.30	4.229			
7,800.0	7,750.5	7,796.9	7,750.5	24.2	25.8	134.96	-196.5	-578.4	136.6	104.2	32.39	4.217			
7,900.0	7,850.5	7,896.9	7,850.5	24.3	25.8	134.96	-196.5	-578.4	136.6	104.1	32.48	4.205			
8,000.0	7,950.5	7,996.9	7,950.5	24.3	25.8	134.96	-196.5	-578.4	136.6	104.0	32.57	4.194			
8,100.0	8,050.5	8,096.9	8,050.5	24.3	25.8	134.96	-196.5	-578.4	136.6	103.9	32.66	4.182			
8,200.0	8,150.5	8,196.9	8,150.5	24.4	25.9	134.96	-196.5	-578.4	136.6	103.8	32.75	4.170			
8,300.0	8,250.5	8,296.9	8,250.5	24.4	25.9	134.96	-196.5	-578.4	136.6	103.7	32.84	4.159			
8,400.0	8,350.5	8,396.9	8,350.5	24.5	25.9	134.96	-196.5	-578.4	136.6	103.6	32.93	4.147			
8,500.0	8,450.5	8,496.9	8,450.5	24.5	25.9	134.96	-196.5	-578.4	136.6	103.5	33.03	4.135			
8,600.0	8,550.5	8,596.9	8,550.5	24.5	26.0	134.96	-196.5	-578.4	136.6	103.5	33.12	4.124			
8,700.0	8,650.5	8,696.9	8,650.5	24.6	26.0	134.96	-196.5	-578.4	136.6	103.4	33.21	4.112			
8,800.0	8,750.5	8,796.9	8,750.5	24.6	26.0	134.96	-196.5	-578.4	136.6	103.3	33.31	4.100			
8,900.0	8,850.5	8,896.9	8,850.5	24.6	26.0	134.96	-196.5	-578.4	136.6	103.2	33.40	4.089			
9,000.0	8,950.5	8,996.9	8,950.5	24.7	26.1	134.96	-196.5	-578.4	136.6	103.1	33.50	4.077			
9,100.0	9,050.5	9,096.9	9,050.5	24.7	26.1	134.96	-196.5	-578.4	136.6	103.0	33.59	4.065			
9,200.0	9,150.5	9,196.9	9,150.5	24.8	26.1	134.96	-196.5	-578.4	136.6	102.9	33.69	4.054			
9,300.0	9,250.5	9,296.9	9,250.5	24.8	26.1	134.96	-196.5	-578.4	136.6	102.8	33.79	4.042			
9,400.0	9,350.5	9,396.9	9,350.5	24.8	26.2	134.96	-196.5	-578.4	136.6	102.7	33.89	4.030			
9,500.0	9,450.5	9,496.9	9,450.5	24.9	26.2	134.96	-196.5	-578.4	136.6	102.6	33.98	4.019			
9,600.0	9,550.5	9,596.9	9,550.5	24.9	26.2	134.96	-196.5	-578.4	136.6	102.5	34.08	4.007			
9,700.0	9,650.5	9,696.9	9,650.5	25.0	26.2	134.96	-196.5	-578.4	136.6	102.4	34.18	3.996			
9,800.0	9,750.5	9,796.9	9,750.5	25.0	26.3	134.96	-196.5	-578.4	136.6	102.3	34.28	3.984			
9,900.0	9,850.5	9,896.9	9,850.5	25.0	26.3	134.96	-196.5	-578.4	136.6	102.2	34.38	3.972			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10931-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)		
10,000.0	9,950.5	9,996.9	9,950.5	25.1	26.3	134.96	-196.5	-578.4	136.6	102.1	34.48	3.961
10,100.0	10,050.5	10,096.9	10,050.5	25.1	26.3	134.96	-196.5	-578.4	136.6	102.0	34.58	3.949
10,200.0	10,150.5	10,196.9	10,150.5	25.2	26.4	134.96	-196.5	-578.4	136.6	101.9	34.68	3.938
10,300.0	10,250.5	10,296.9	10,250.5	25.2	26.4	134.96	-196.5	-578.4	136.6	101.8	34.78	3.926
10,400.0	10,350.5	10,396.9	10,350.5	25.2	26.4	134.96	-196.5	-578.4	136.6	101.7	34.89	3.915
10,500.0	10,450.5	10,496.9	10,450.5	25.3	26.5	134.96	-196.5	-578.4	136.6	101.6	34.99	3.903
10,600.0	10,550.5	10,596.9	10,550.5	25.3	26.5	134.96	-196.5	-578.4	136.6	101.5	35.09	3.892
10,700.0	10,650.5	10,696.9	10,650.5	25.4	26.5	134.96	-196.5	-578.4	136.6	101.4	35.20	3.880
10,800.0	10,750.5	10,796.9	10,750.5	25.4	26.5	134.96	-196.5	-578.4	136.6	101.3	35.30	3.869
10,900.0	10,850.5	10,896.9	10,850.5	25.4	26.6	134.96	-196.5	-578.4	136.6	101.2	35.41	3.857
11,000.0	10,950.5	11,010.0	10,963.3	25.5	26.6	133.32	-191.1	-578.4	133.3	97.1	36.28	3.675
11,100.0	11,050.5	11,123.5	11,073.4	25.5	26.7	123.82	-164.5	-578.8	118.1	78.4	39.69	2.975
11,200.0	11,150.5	11,223.3	11,164.3	25.6	26.7	103.80	-123.5	-579.3	99.5	53.9	45.64	2.180
11,252.4	11,202.8	11,267.8	11,202.3	25.6	26.7	-86.48	-100.3	-579.6	95.2	46.5	48.72	1.955 Advise and Monitor, SF
11,300.0	11,250.1	11,303.0	11,230.9	25.6	26.7	-98.99	-79.9	-579.9	100.1	50.3	49.82	2.009
11,400.0	11,346.4	11,350.0	11,267.2	25.6	26.8	-112.55	-49.9	-580.3	146.9	99.8	47.18	3.115
11,500.0	11,435.0	11,379.3	11,288.4	25.6	26.8	-110.34	-29.8	-580.5	226.5	181.5	44.96	5.038
11,600.0	11,512.2	11,385.9	11,293.1	25.7	26.8	-84.80	-25.1	-580.6	318.8	274.8	44.00	7.246
11,700.0	11,574.5	11,379.0	11,288.3	25.8	26.8	-48.31	-30.0	-580.5	414.0	370.6	43.43	9.532
11,800.0	11,619.3	11,362.5	11,276.4	25.9	26.8	-27.05	-41.5	-580.4	506.7	463.8	42.92	11.807
11,900.0	11,644.5	11,350.0	11,267.2	26.0	26.8	-17.86	-49.9	-580.3	593.9	551.6	42.21	14.070
12,000.0	11,650.0	11,300.0	11,228.5	26.1	26.7	-12.24	-81.7	-579.8	673.1	631.2	41.85	16.082
12,100.0	11,650.0	11,284.4	11,215.9	26.3	26.7	-9.34	-90.9	-579.7	752.4	711.2	41.19	18.266
12,200.1	11,650.0	11,250.0	11,187.3	26.5	26.7	-5.98	-109.9	-579.5	835.2	794.3	40.89	20.425
12,300.0	11,650.0	11,250.0	11,187.3	26.8	26.7	-5.98	-109.9	-579.5	919.8	879.4	40.38	22.778
12,400.0	11,650.0	11,221.2	11,162.5	27.1	26.7	-5.69	-124.5	-579.3	1,006.2	966.0	40.20	25.031
12,500.0	11,650.0	11,200.0	11,143.8	27.4	26.7	-5.50	-134.5	-579.2	1,094.3	1,054.3	40.01	27.353
12,600.0	11,650.0	11,200.0	11,143.8	27.7	26.7	-5.50	-134.5	-579.2	1,183.8	1,144.0	39.73	29.794
12,700.0	11,650.0	11,176.0	11,122.1	28.1	26.7	-5.28	-144.9	-579.0	1,274.1	1,234.4	39.64	32.138
12,800.0	11,650.0	11,150.0	11,098.2	28.5	26.7	-5.07	-155.1	-578.9	1,365.7	1,326.1	39.59	34.497
12,900.0	11,650.0	11,150.0	11,098.2	28.9	26.7	-5.07	-155.1	-578.9	1,457.6	1,418.2	39.43	36.966
13,000.0	11,650.0	11,150.0	11,098.2	29.3	26.7	-5.07	-155.1	-578.9	1,550.6	1,511.3	39.31	39.447
13,100.0	11,650.0	11,150.0	11,098.2	29.8	26.7	-5.07	-155.1	-578.9	1,644.4	1,605.2	39.21	41.934
13,200.0	11,650.0	11,124.4	11,074.3	30.3	26.7	-4.87	-164.1	-578.8	1,738.1	1,698.9	39.23	44.306
13,300.0	11,650.0	11,100.0	11,051.1	30.8	26.6	-4.69	-171.7	-578.7	1,833.0	1,793.7	39.25	46.698
13,400.0	11,650.0	11,100.0	11,051.1	31.4	26.6	-4.69	-171.7	-578.7	1,927.7	1,888.5	39.20	49.174
13,500.0	11,650.0	11,100.0	11,051.1	32.0	26.6	-4.69	-171.7	-578.7	2,023.0	1,983.8	39.17	51.649
13,600.0	11,650.0	11,100.0	11,051.1	32.6	26.6	-4.69	-171.7	-578.7	2,118.7	2,079.5	39.15	54.122
13,700.0	11,650.0	11,100.0	11,051.1	33.2	26.6	-4.69	-171.7	-578.7	2,214.8	2,175.6	39.14	56.591
13,800.0	11,650.0	11,100.0	11,051.1	33.8	26.6	-4.69	-171.7	-578.7	2,311.2	2,272.0	39.14	59.054
13,900.0	11,650.0	11,079.8	11,031.7	34.4	26.6	-4.55	-177.3	-578.6	2,407.4	2,368.2	39.19	61.425

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11085-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	2.5	0.0	3.0	3.0	-1.01	199.8	-3.5	199.8	193.4	6.43	31.084		
100.0	100.0	102.5	100.0	3.2	3.1	-1.01	199.8	-3.5	199.8	193.1	6.72	29.749		
200.0	200.0	202.5	200.0	3.5	3.2	-1.01	199.8	-3.5	199.8	192.8	7.06	28.291		
300.0	300.0	302.5	300.0	3.7	3.3	-1.01	199.8	-3.5	199.8	192.4	7.40	27.015		
400.0	400.0	402.5	400.0	3.9	3.4	-1.01	199.8	-3.5	199.8	192.1	7.72	25.884		
500.0	500.0	502.5	500.0	4.1	3.6	-1.01	199.8	-3.5	199.8	191.8	8.04	24.871		
600.0	600.0	602.5	600.0	4.2	3.7	-1.01	199.8	-3.5	199.8	191.5	8.34	23.957		
700.0	700.0	702.5	700.0	4.4	3.8	-1.01	199.8	-3.5	199.8	191.2	8.64	23.126		
800.0	800.0	802.5	800.0	4.6	3.9	-1.01	199.8	-3.5	199.8	190.9	8.93	22.367		
900.0	900.0	902.5	900.0	4.8	4.0	-1.01	199.8	-3.5	199.8	190.6	9.22	21.669		
1,000.0	1,000.0	1,002.7	1,000.2	4.9	4.2	-1.01	199.8	-3.5	199.8	190.3	9.51	21.020		
1,100.0	1,100.0	1,109.5	1,106.9	5.2	4.4	97.74	197.9	-4.3	198.3	188.4	9.87	20.093		
1,200.0	1,199.8	1,216.0	1,213.3	5.4	4.7	98.75	192.3	-6.7	193.8	183.5	10.28	18.846		
1,300.0	1,299.5	1,322.2	1,319.0	5.7	5.0	100.55	183.1	-10.5	186.5	175.8	10.71	17.414		
1,400.0	1,398.7	1,426.1	1,422.0	6.0	5.4	103.25	170.7	-15.6	176.8	165.6	11.15	15.856		
1,500.0	1,497.6	1,525.1	1,520.0	6.1	5.6	106.82	158.0	-20.9	167.2	155.7	11.50	14.534		
1,600.0	1,596.4	1,624.0	1,618.1	6.4	5.9	110.79	145.3	-26.2	158.4	146.4	11.97	13.229		
1,700.0	1,695.3	1,723.0	1,716.1	6.7	6.2	115.20	132.6	-31.5	150.5	138.0	12.49	12.050		
1,800.0	1,794.1	1,822.0	1,814.1	6.9	6.5	120.06	119.9	-36.8	143.5	130.5	13.04	11.003		
1,900.0	1,892.9	1,920.9	1,912.1	7.2	6.8	125.36	107.1	-42.1	137.7	124.1	13.64	10.095		
2,000.0	1,991.8	2,019.9	2,010.1	7.6	7.1	131.07	94.4	-47.4	133.2	118.9	14.27	9.331		
2,100.0	2,090.6	2,118.9	2,108.1	7.9	7.5	137.11	81.7	-52.7	130.1	115.2	14.93	8.716		
2,200.0	2,189.5	2,217.8	2,206.1	8.2	7.8	143.35	69.0	-58.0	128.6	113.0	15.59	8.247		
2,247.4	2,236.3	2,264.8	2,252.5	8.4	8.0	146.35	63.0	-60.5	128.4	112.5	15.90	8.075 CC		
2,300.0	2,288.3	2,316.8	2,304.1	8.6	8.2	149.68	56.3	-63.3	128.6	112.4	16.24	7.921 ES		
2,400.0	2,387.2	2,415.8	2,402.1	8.9	8.6	155.92	43.6	-68.6	130.2	113.4	16.86	7.727		
2,500.0	2,486.0	2,514.7	2,500.1	9.3	8.9	161.94	30.8	-73.9	133.4	116.0	17.44	7.650 SF		
2,600.0	2,584.8	2,613.7	2,598.1	9.7	9.3	167.63	18.1	-79.2	138.0	120.0	17.97	7.676		
2,700.0	2,683.7	2,712.7	2,696.1	10.0	9.7	172.91	5.4	-84.5	143.8	125.4	18.47	7.787		
2,800.0	2,782.5	2,811.7	2,794.1	10.4	10.1	177.74	-7.3	-89.7	150.8	131.9	18.94	7.966		
2,900.0	2,881.4	2,910.6	2,892.1	10.8	10.5	-177.87	-20.0	-95.0	158.8	139.5	19.37	8.198		
3,000.0	2,980.2	3,009.6	2,990.1	11.2	10.8	-173.92	-32.7	-100.3	167.7	147.9	19.79	8.470		
3,100.0	3,079.0	3,108.6	3,088.1	11.6	11.2	-170.37	-45.5	-105.6	177.2	157.0	20.20	8.771		
3,200.0	3,177.9	3,207.5	3,186.1	12.0	11.6	-167.20	-58.2	-110.9	187.4	166.8	20.61	9.093		
3,300.0	3,276.7	3,306.5	3,284.1	12.4	12.0	-164.35	-70.9	-116.2	198.1	177.0	21.01	9.427		
3,400.0	3,375.6	3,405.5	3,382.1	12.8	12.4	-161.80	-83.6	-121.5	209.2	187.8	21.41	9.769		
3,500.0	3,474.4	3,504.4	3,480.2	13.2	12.8	-159.51	-96.3	-126.8	220.7	198.8	21.82	10.114		
3,600.0	3,573.3	3,603.4	3,578.2	13.6	13.2	-157.45	-109.0	-132.1	232.5	210.2	22.23	10.459		
3,700.0	3,672.1	3,702.4	3,676.2	14.0	13.6	-155.59	-121.8	-137.4	244.5	221.9	22.64	10.802		
3,800.0	3,770.9	3,801.3	3,774.2	14.4	14.0	-153.90	-134.5	-142.7	256.8	233.8	23.06	11.140		
3,900.0	3,869.8	3,900.0	3,871.9	14.8	14.4	-152.48	-146.7	-147.8	269.4	245.9	23.46	11.482		
4,000.0	3,968.6	3,998.9	3,970.1	15.3	14.8	-151.52	-157.4	-152.2	282.1	258.2	23.92	11.793		
4,100.0	4,067.5	4,097.8	4,068.5	15.7	15.2	-150.98	-166.6	-156.1	295.0	270.6	24.42	12.081		
4,200.0	4,166.3	4,196.7	4,167.1	16.1	15.6	-150.80	-174.2	-159.2	308.0	283.1	24.95	12.346		
4,300.0	4,265.1	4,295.7	4,265.9	16.5	15.9	-150.94	-180.2	-161.7	321.1	295.5	25.50	12.588		
4,400.0	4,364.0	4,394.5	4,364.6	16.9	16.3	-151.37	-184.7	-163.6	334.2	308.1	26.09	12.808		
4,500.0	4,462.8	4,493.3	4,463.3	17.4	16.6	-152.05	-187.6	-164.8	347.4	320.7	26.71	13.009		
4,600.0	4,561.7	4,591.8	4,561.8	17.8	16.8	-152.94	-188.9	-165.3	360.8	333.5	27.35	13.193		
4,700.0	4,660.5	4,690.5	4,660.5	18.2	16.9	-153.98	-189.0	-165.4	374.4	346.4	27.96	13.389		
4,800.0	4,759.4	4,789.3	4,759.4	18.6	16.9	-154.96	-189.0	-165.4	388.1	359.5	28.59	13.574		
4,900.0	4,858.2	4,888.2	4,858.2	19.1	16.9	-155.88	-189.0	-165.4	402.0	372.7	29.23	13.754		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11085-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	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
5,000.0	4,957.0	4,987.0	4,957.0	19.5	16.9	-156.73	-189.0	-165.4	415.9	386.0	29.86	13.929
5,100.0	5,055.9	5,085.9	5,055.9	19.9	17.0	-157.53	-189.0	-165.4	429.9	399.4	30.49	14.100
5,200.0	5,154.7	5,184.7	5,154.7	20.3	17.0	-158.27	-189.0	-165.4	444.0	412.9	31.12	14.267
5,300.0	5,253.6	5,283.6	5,253.6	20.8	17.0	-158.99	-189.0	-165.4	458.1	426.4	31.73	14.438
5,400.0	5,352.6	5,382.6	5,352.6	21.2	17.1	-159.64	-189.0	-165.4	471.1	438.8	32.34	14.566
5,500.0	5,451.8	5,481.8	5,451.8	21.6	17.1	-160.18	-189.0	-165.4	482.6	449.6	32.93	14.654
5,600.0	5,551.3	5,581.3	5,551.3	22.0	17.1	-160.62	-189.0	-165.4	492.4	458.9	33.49	14.703
5,700.0	5,650.9	5,680.9	5,650.9	22.4	17.2	-160.98	-189.0	-165.4	500.6	466.6	34.02	14.714
5,800.0	5,750.7	5,780.7	5,750.7	22.7	17.2	-161.26	-189.0	-165.4	507.2	472.7	34.53	14.691
5,900.0	5,850.5	5,880.5	5,850.5	23.1	17.2	-161.46	-189.0	-165.4	512.2	477.2	34.99	14.637
6,000.0	5,950.5	5,980.5	5,950.5	23.4	17.3	-161.60	-189.0	-165.4	515.5	480.1	35.42	14.556
6,100.0	6,050.5	6,080.5	6,050.5	23.6	17.3	-161.66	-189.0	-165.4	517.1	481.4	35.77	14.456
6,200.0	6,150.5	6,180.5	6,150.5	23.7	17.4	99.90	-189.0	-165.4	517.3	481.5	35.88	14.418
6,300.0	6,250.5	6,280.5	6,250.5	23.7	17.4	99.90	-189.0	-165.4	517.3	481.4	35.96	14.388
6,400.0	6,350.5	6,380.5	6,350.5	23.8	17.4	99.90	-189.0	-165.4	517.3	481.3	36.03	14.359
6,500.0	6,450.5	6,480.5	6,450.5	23.8	17.5	99.90	-189.0	-165.4	517.3	481.2	36.10	14.329
6,600.0	6,550.5	6,580.5	6,550.5	23.8	17.5	99.90	-189.0	-165.4	517.3	481.2	36.18	14.300
6,700.0	6,650.5	6,680.5	6,650.5	23.9	17.5	99.90	-189.0	-165.4	517.3	481.1	36.25	14.270
6,800.0	6,750.5	6,780.5	6,750.5	23.9	17.6	99.90	-189.0	-165.4	517.3	481.0	36.33	14.240
6,900.0	6,850.5	6,880.5	6,850.5	23.9	17.6	99.90	-189.0	-165.4	517.3	480.9	36.41	14.210
7,000.0	6,950.5	6,980.5	6,950.5	24.0	17.6	99.90	-189.0	-165.4	517.3	480.9	36.48	14.180
7,100.0	7,050.5	7,080.5	7,050.5	24.0	17.7	99.90	-189.0	-165.4	517.3	480.8	36.56	14.150
7,200.0	7,150.5	7,180.5	7,150.5	24.0	17.7	99.90	-189.0	-165.4	517.3	480.7	36.64	14.119
7,300.0	7,250.5	7,280.5	7,250.5	24.1	17.8	99.90	-189.0	-165.4	517.3	480.6	36.72	14.089
7,400.0	7,350.5	7,380.5	7,350.5	24.1	17.8	99.90	-189.0	-165.4	517.3	480.5	36.80	14.059
7,500.0	7,450.5	7,480.5	7,450.5	24.1	17.8	99.90	-189.0	-165.4	517.3	480.5	36.88	14.028
7,600.0	7,550.5	7,580.5	7,550.5	24.2	17.9	99.90	-189.0	-165.4	517.3	480.4	36.96	13.998
7,700.0	7,650.5	7,680.5	7,650.5	24.2	17.9	99.90	-189.0	-165.4	517.3	480.3	37.04	13.967
7,800.0	7,750.5	7,780.5	7,750.5	24.2	18.0	99.90	-189.0	-165.4	517.3	480.2	37.12	13.936
7,900.0	7,850.5	7,880.5	7,850.5	24.3	18.0	99.90	-189.0	-165.4	517.3	480.1	37.20	13.905
8,000.0	7,950.5	7,980.5	7,950.5	24.3	18.0	99.90	-189.0	-165.4	517.3	480.1	37.29	13.875
8,100.0	8,050.5	8,080.5	8,050.5	24.3	18.1	99.90	-189.0	-165.4	517.3	480.0	37.37	13.844
8,200.0	8,150.5	8,180.5	8,150.5	24.4	18.1	99.90	-189.0	-165.4	517.3	479.9	37.45	13.813
8,300.0	8,250.5	8,280.5	8,250.5	24.4	18.2	99.90	-189.0	-165.4	517.3	479.8	37.54	13.782
8,400.0	8,350.5	8,380.5	8,350.5	24.5	18.2	99.90	-189.0	-165.4	517.3	479.7	37.62	13.751
8,500.0	8,450.5	8,480.5	8,450.5	24.5	18.2	99.90	-189.0	-165.4	517.3	479.6	37.71	13.720
8,600.0	8,550.5	8,580.5	8,550.5	24.5	18.3	99.90	-189.0	-165.4	517.3	479.6	37.79	13.689
8,700.0	8,650.5	8,680.5	8,650.5	24.6	18.3	99.90	-189.0	-165.4	517.3	479.5	37.88	13.658
8,800.0	8,750.5	8,780.5	8,750.5	24.6	18.4	99.90	-189.0	-165.4	517.3	479.4	37.97	13.626
8,900.0	8,850.5	8,880.5	8,850.5	24.6	18.4	99.90	-189.0	-165.4	517.3	479.3	38.05	13.595
9,000.0	8,950.5	8,980.5	8,950.5	24.7	18.5	99.90	-189.0	-165.4	517.3	479.2	38.14	13.564
9,100.0	9,050.5	9,080.5	9,050.5	24.7	18.5	99.90	-189.0	-165.4	517.3	479.1	38.23	13.533
9,200.0	9,150.5	9,180.5	9,150.5	24.8	18.6	99.90	-189.0	-165.4	517.3	479.0	38.32	13.501
9,300.0	9,250.5	9,280.5	9,250.5	24.8	18.6	99.90	-189.0	-165.4	517.3	478.9	38.41	13.470
9,400.0	9,350.5	9,380.5	9,350.5	24.8	18.6	99.90	-189.0	-165.4	517.3	478.8	38.50	13.439
9,500.0	9,450.5	9,480.5	9,450.5	24.9	18.7	99.90	-189.0	-165.4	517.3	478.8	38.59	13.407
9,600.0	9,550.5	9,580.5	9,550.5	24.9	18.7	99.90	-189.0	-165.4	517.3	478.7	38.68	13.376
9,700.0	9,650.5	9,680.5	9,650.5	25.0	18.8	99.90	-189.0	-165.4	517.3	478.6	38.77	13.345
9,800.0	9,750.5	9,780.5	9,750.5	25.0	18.8	99.90	-189.0	-165.4	517.3	478.5	38.86	13.313
9,900.0	9,850.5	9,880.5	9,850.5	25.0	18.9	99.90	-189.0	-165.4	517.3	478.4	38.95	13.282
10,000.0	9,950.5	9,980.5	9,950.5	25.1	18.9	99.90	-189.0	-165.4	517.3	478.3	39.04	13.250

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11085-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,100.0	10,050.5	10,080.5	10,050.5	25.1	19.0	99.90		-189.0	-165.4	517.3	478.2	39.14	13.219	
10,200.0	10,150.5	10,180.5	10,150.5	25.2	19.0	99.90		-189.0	-165.4	517.3	478.1	39.23	13.188	
10,300.0	10,250.5	10,280.5	10,250.5	25.2	19.1	99.90		-189.0	-165.4	517.3	478.0	39.32	13.156	
10,400.0	10,350.5	10,380.5	10,350.5	25.2	19.1	99.90		-189.0	-165.4	517.3	477.9	39.42	13.125	
10,500.0	10,450.5	10,480.5	10,450.5	25.3	19.1	99.90		-189.0	-165.4	517.3	477.8	39.51	13.093	
10,600.0	10,550.5	10,580.5	10,550.5	25.3	19.2	99.90		-189.0	-165.4	517.3	477.7	39.61	13.062	
10,700.0	10,650.5	10,680.5	10,650.5	25.4	19.2	99.90		-189.0	-165.4	517.3	477.6	39.70	13.031	
10,800.0	10,750.5	10,780.5	10,750.5	25.4	19.3	99.90		-189.0	-165.4	517.3	477.5	39.80	12.999	
10,900.0	10,850.5	10,880.5	10,850.5	25.4	19.3	99.90		-189.0	-165.4	517.3	477.4	39.89	12.968	
11,000.0	10,950.5	10,980.5	10,950.5	25.5	19.4	99.90		-189.0	-165.4	517.3	477.4	39.99	12.936	
11,100.0	11,050.5	11,080.5	11,050.5	25.5	19.4	99.90		-189.0	-165.4	517.3	477.3	40.08	12.908	
11,200.0	11,150.5	11,198.2	11,167.5	25.6	19.5	98.67		-177.7	-165.5	515.7	475.3	40.41	12.762	
11,300.0	11,250.1	11,304.8	11,269.4	25.6	19.7	-81.18		-147.1	-165.9	510.5	469.6	40.89	12.484	
11,400.0	11,346.4	11,382.5	11,339.2	25.6	19.8	-87.38		-113.3	-166.4	506.3	464.9	41.45	12.215	
11,404.4	11,350.5	11,385.2	11,341.6	25.6	19.8	-87.61		-111.9	-166.4	506.3	464.9	41.48	12.208	
11,500.0	11,435.0	11,428.6	11,378.3	25.6	19.8	-91.03		-88.7	-166.7	512.9	471.0	41.95	12.227	
11,600.0	11,512.2	11,450.0	11,395.7	25.7	19.8	-90.47		-76.3	-166.9	536.0	493.7	42.34	12.659	
11,700.0	11,574.5	11,450.0	11,395.7	25.8	19.8	-85.31		-76.3	-166.9	575.4	532.9	42.57	13.516	
11,800.0	11,619.3	11,450.0	11,395.7	25.9	19.8	-78.16		-76.3	-166.9	627.0	584.4	42.61	14.715	
11,900.0	11,644.5	11,422.4	11,373.2	26.0	19.8	-67.28		-92.2	-166.7	685.0	642.5	42.43	16.145	
12,000.0	11,650.0	11,400.0	11,354.3	26.1	19.8	-59.51		-104.3	-166.5	745.1	703.0	42.05	17.716	
12,100.0	11,650.0	11,373.0	11,330.9	26.3	19.8	-56.58		-117.9	-166.3	811.3	769.6	41.66	19.473	
12,200.1	11,650.0	11,350.0	11,310.6	26.5	19.7	-53.68		-128.6	-166.2	884.6	843.3	41.27	21.435	
12,300.0	11,650.0	11,333.8	11,296.0	26.8	19.7	-52.53		-135.6	-166.1	962.6	921.7	40.89	23.540	
12,400.0	11,650.0	11,317.7	11,281.4	27.1	19.7	-51.41		-142.2	-166.0	1,043.7	1,003.1	40.55	25.739	
12,500.0	11,650.0	11,300.0	11,265.0	27.4	19.7	-50.19		-148.9	-165.9	1,127.3	1,087.0	40.25	28.008	
12,600.0	11,650.0	11,300.0	11,265.0	27.7	19.7	-50.19		-148.9	-165.9	1,213.0	1,173.1	39.96	30.359	
12,700.0	11,650.0	11,279.6	11,245.8	28.1	19.6	-48.82		-156.1	-165.8	1,300.3	1,260.6	39.73	32.725	
12,800.0	11,650.0	11,269.4	11,236.2	28.5	19.6	-48.16		-159.4	-165.8	1,389.2	1,349.6	39.53	35.142	
12,900.0	11,650.0	11,250.0	11,217.7	28.9	19.6	-46.91		-165.3	-165.7	1,479.3	1,440.0	39.37	37.579	
13,000.0	11,650.0	11,250.0	11,217.7	29.3	19.6	-46.91		-165.3	-165.7	1,570.3	1,531.1	39.20	40.054	
13,100.0	11,650.0	11,250.0	11,217.7	29.8	19.6	-46.91		-165.3	-165.7	1,662.3	1,623.3	39.07	42.549	
13,200.0	11,650.0	11,250.0	11,217.7	30.3	19.6	-46.91		-165.3	-165.7	1,755.2	1,716.3	38.95	45.058	
13,300.0	11,650.0	11,230.8	11,199.3	30.8	19.6	-45.72		-170.4	-165.6	1,848.4	1,809.6	38.87	47.549	
13,400.0	11,650.0	11,224.9	11,193.5	31.4	19.6	-45.36		-171.9	-165.6	1,942.4	1,903.6	38.80	50.063	
13,500.0	11,650.0	11,219.5	11,188.2	32.0	19.6	-45.03		-173.2	-165.6	2,036.9	1,998.1	38.74	52.581	
13,600.0	11,650.0	11,200.0	11,169.2	32.6	19.5	-43.88		-177.4	-165.5	2,132.0	2,093.3	38.70	55.091	
13,700.0	11,650.0	11,200.0	11,169.2	33.2	19.5	-43.88		-177.4	-165.5	2,227.2	2,188.6	38.66	57.611	
13,800.0	11,650.0	11,200.0	11,169.2	33.8	19.5	-43.88		-177.4	-165.5	2,322.9	2,284.2	38.63	60.130	
13,900.0	11,650.0	11,200.0	11,169.2	34.4	19.5	-43.88		-177.4	-165.5	2,418.8	2,380.2	38.61	62.644	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10917-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
0.0	0.0	2.9	0.0	3.0	3.0	7.55	200.3	26.5	202.0	195.6	6.43	31.425	
100.0	100.0	102.9	100.0	3.2	3.1	7.55	200.3	26.5	202.0	195.3	6.72	30.073	
200.0	200.0	202.9	200.0	3.5	3.2	7.55	200.3	26.5	202.0	195.0	7.06	28.600	
300.0	300.0	302.9	300.0	3.7	3.3	7.55	200.3	26.5	202.0	194.6	7.40	27.311	
400.0	400.0	402.9	400.0	3.9	3.4	7.55	200.3	26.5	202.0	194.3	7.72	26.167	
500.0	500.0	502.9	500.0	4.1	3.6	7.55	200.3	26.5	202.0	194.0	8.03	25.144	
600.0	600.0	602.9	600.0	4.2	3.7	7.55	200.3	26.5	202.0	193.7	8.34	24.221	
700.0	700.0	702.9	700.0	4.4	3.8	7.55	200.3	26.5	202.0	193.4	8.64	23.382	
800.0	800.0	802.9	800.0	4.6	3.9	7.55	200.3	26.5	202.0	193.1	8.93	22.615	
900.0	900.0	902.9	900.0	4.8	4.0	7.55	200.3	26.5	202.0	192.8	9.22	21.910	
1,000.0	1,000.0	1,003.1	1,000.2	4.9	4.2	7.55	200.3	26.6	202.0	192.5	9.51	21.254	
1,100.0	1,100.0	1,109.0	1,106.1	5.2	4.4	106.86	198.5	27.6	201.0	191.1	9.85	20.408	
1,200.0	1,199.8	1,214.3	1,211.2	5.4	4.7	109.48	193.3	30.4	198.2	187.9	10.23	19.364	
1,300.0	1,299.5	1,318.5	1,315.0	5.7	5.0	113.90	184.8	35.1	194.5	183.8	10.62	18.316	
1,400.0	1,398.7	1,420.2	1,415.8	6.0	5.3	120.05	173.4	41.4	191.2	180.2	11.00	17.390	
1,458.1	1,456.2	1,476.8	1,471.8	6.1	5.5	123.96	166.5	45.2	190.6	179.5	11.16	17.087 CC, ES	
1,500.0	1,497.6	1,517.4	1,512.1	6.1	5.6	126.93	161.6	48.0	191.2	179.9	11.28	16.956	
1,600.0	1,596.4	1,614.5	1,608.2	6.4	5.9	133.74	149.8	54.5	194.2	182.6	11.66	16.662	
1,700.0	1,695.3	1,711.7	1,704.4	6.7	6.1	140.27	138.0	61.1	200.0	188.0	12.07	16.575 SF	
1,800.0	1,794.1	1,808.8	1,800.6	6.9	6.4	146.38	126.1	67.6	208.4	195.9	12.51	16.654	
1,900.0	1,892.9	1,905.9	1,896.8	7.2	6.8	151.98	114.3	74.2	219.0	206.0	12.99	16.857	
2,000.0	1,991.8	2,003.1	1,993.0	7.6	7.1	157.04	102.5	80.8	231.6	218.1	13.51	17.150	
2,100.0	2,090.6	2,100.2	2,089.2	7.9	7.4	161.56	90.7	87.3	245.9	231.8	14.05	17.505	
2,200.0	2,189.5	2,197.4	2,185.4	8.2	7.8	165.59	78.8	93.9	261.5	246.9	14.61	17.898	
2,300.0	2,288.3	2,294.5	2,281.6	8.6	8.1	169.16	67.0	100.4	278.3	263.1	15.20	18.314	
2,400.0	2,387.2	2,391.6	2,377.8	8.9	8.5	172.32	55.2	107.0	296.0	280.2	15.80	18.739	
2,500.0	2,486.0	2,488.8	2,474.0	9.3	8.8	175.12	43.4	113.5	314.6	298.2	16.41	19.166	
2,600.0	2,584.8	2,585.9	2,570.2	9.7	9.2	177.62	31.5	120.1	333.8	316.7	17.04	19.587	
2,700.0	2,683.7	2,683.0	2,666.4	10.0	9.6	179.84	19.7	126.6	353.5	335.9	17.68	19.999	
2,800.0	2,782.5	2,780.2	2,762.6	10.4	9.9	-178.17	7.9	133.2	373.8	355.4	18.32	20.399	
2,900.0	2,881.4	2,877.3	2,858.7	10.8	10.3	-176.38	-3.9	139.7	394.4	375.4	18.97	20.785	
3,000.0	2,980.2	2,974.5	2,954.9	11.2	10.7	-174.77	-15.8	146.3	415.3	395.7	19.63	21.157	
3,100.0	3,079.0	3,071.6	3,051.1	11.6	11.1	-173.31	-27.6	152.9	436.6	416.3	20.29	21.513	
3,200.0	3,177.9	3,168.7	3,147.3	12.0	11.5	-171.99	-39.4	159.4	458.0	437.1	20.96	21.853	
3,300.0	3,276.7	3,265.9	3,243.5	12.4	11.9	-170.78	-51.2	166.0	479.7	458.1	21.63	22.179	
3,400.0	3,375.6	3,363.0	3,339.7	12.8	12.3	-169.68	-63.1	172.5	501.6	479.3	22.30	22.489	
3,500.0	3,474.4	3,460.1	3,435.9	13.2	12.6	-168.67	-74.9	179.1	523.7	500.7	22.98	22.786	
3,600.0	3,573.3	3,557.3	3,532.1	13.6	13.0	-167.74	-86.7	185.6	545.9	522.2	23.66	23.068	
3,700.0	3,672.1	3,654.4	3,628.3	14.0	13.4	-166.89	-98.5	192.2	568.2	543.8	24.35	23.338	
3,800.0	3,770.9	3,751.6	3,724.5	14.4	13.8	-166.10	-110.3	198.7	590.6	565.6	25.03	23.595	
3,900.0	3,869.8	3,848.7	3,820.7	14.8	14.2	-165.36	-122.2	205.3	613.1	587.4	25.72	23.841	
4,000.0	3,968.6	3,945.8	3,916.9	15.3	14.6	-164.68	-134.0	211.8	635.8	609.3	26.41	24.075	
4,100.0	4,067.5	4,044.2	4,014.2	15.7	15.0	-164.04	-145.9	218.5	658.4	631.3	27.09	24.304	
4,200.0	4,166.3	4,148.8	4,118.0	16.1	15.4	-163.49	-157.6	224.9	680.5	652.7	27.82	24.465	
4,300.0	4,265.1	4,254.2	4,222.7	16.5	15.9	-163.10	-167.6	230.5	701.5	673.0	28.54	24.581	
4,400.0	4,364.0	4,360.1	4,328.3	16.9	16.3	-162.86	-176.0	235.1	721.5	692.2	29.25	24.666	
4,500.0	4,462.8	4,466.6	4,434.4	17.4	16.7	-162.76	-182.7	238.8	740.3	710.4	29.94	24.723	
4,600.0	4,561.7	4,573.5	4,541.2	17.8	17.0	-162.78	-187.7	241.6	758.1	727.4	30.62	24.755	
4,700.0	4,660.5	4,680.9	4,648.5	18.2	17.4	-162.92	-191.0	243.4	774.7	743.4	31.28	24.767	
4,800.0	4,759.4	4,788.5	4,756.2	18.6	17.6	-163.17	-192.5	244.3	790.2	758.3	31.90	24.767	
4,900.0	4,858.2	4,890.6	4,858.2	19.1	17.7	-163.48	-192.6	244.3	804.8	772.4	32.40	24.841	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10917-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		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)	Factor		
5,000.0	4,957.0	4,989.4	4,957.0	19.5	17.7	-163.79	-192.6	244.3	819.4	786.5	32.88	24.918	
5,100.0	5,055.9	5,088.2	5,055.9	19.9	17.8	-164.08	-192.6	244.3	834.0	800.6	33.38	24.987	
5,200.0	5,154.7	5,187.1	5,154.7	20.3	17.8	-164.36	-192.6	244.3	848.6	814.7	33.87	25.051	
5,300.0	5,253.6	5,285.9	5,253.6	20.8	17.8	-164.64	-192.6	244.3	863.2	828.8	34.36	25.121	
5,400.0	5,352.6	5,385.0	5,352.6	21.2	17.8	-164.91	-192.6	244.3	876.6	841.7	34.87	25.142	
5,500.0	5,451.8	5,484.2	5,451.8	21.6	17.9	-165.15	-192.6	244.3	888.4	853.0	35.36	25.125	
5,600.0	5,551.3	5,583.7	5,551.3	22.0	17.9	-165.34	-192.6	244.3	898.5	862.6	35.84	25.070	
5,700.0	5,650.9	5,683.3	5,650.9	22.4	17.9	-165.50	-192.6	244.3	906.9	870.6	36.31	24.980	
5,800.0	5,750.7	5,783.0	5,750.7	22.7	18.0	-165.63	-192.6	244.3	913.7	876.9	36.75	24.859	
5,900.0	5,850.5	5,882.9	5,850.5	23.1	18.0	-165.72	-192.6	244.3	918.7	881.5	37.18	24.712	
6,000.0	5,950.5	5,982.8	5,950.5	23.4	18.0	-165.79	-192.6	244.3	922.1	884.5	37.57	24.544	
6,100.0	6,050.5	6,082.8	6,050.5	23.6	18.1	-165.82	-192.6	244.3	923.8	885.9	37.91	24.370	
6,200.0	6,150.5	6,182.8	6,150.5	23.7	18.1	95.75	-192.6	244.3	924.0	886.0	38.01	24.309	
6,300.0	6,250.5	6,282.8	6,250.5	23.7	18.1	95.75	-192.6	244.3	924.0	885.9	38.08	24.265	
6,400.0	6,350.5	6,382.8	6,350.5	23.8	18.2	95.75	-192.6	244.3	924.0	885.8	38.15	24.221	
6,500.0	6,450.5	6,482.8	6,450.5	23.8	18.2	95.75	-192.6	244.3	924.0	885.8	38.22	24.176	
6,600.0	6,550.5	6,582.8	6,550.5	23.8	18.2	95.75	-192.6	244.3	924.0	885.7	38.29	24.132	
6,700.0	6,650.5	6,682.8	6,650.5	23.9	18.3	95.75	-192.6	244.3	924.0	885.6	38.36	24.087	
6,800.0	6,750.5	6,782.8	6,750.5	23.9	18.3	95.75	-192.6	244.3	924.0	885.6	38.43	24.043	
6,900.0	6,850.5	6,882.8	6,850.5	23.9	18.3	95.75	-192.6	244.3	924.0	885.5	38.50	23.998	
7,000.0	6,950.5	6,982.8	6,950.5	24.0	18.4	95.75	-192.6	244.3	924.0	885.4	38.58	23.953	
7,100.0	7,050.5	7,082.8	7,050.5	24.0	18.4	95.75	-192.6	244.3	924.0	885.3	38.65	23.907	
7,200.0	7,150.5	7,182.8	7,150.5	24.0	18.4	95.75	-192.6	244.3	924.0	885.3	38.72	23.862	
7,300.0	7,250.5	7,282.8	7,250.5	24.1	18.5	95.75	-192.6	244.3	924.0	885.2	38.80	23.816	
7,400.0	7,350.5	7,382.8	7,350.5	24.1	18.5	95.75	-192.6	244.3	924.0	885.1	38.87	23.770	
7,500.0	7,450.5	7,482.8	7,450.5	24.1	18.6	95.75	-192.6	244.3	924.0	885.0	38.95	23.724	
7,600.0	7,550.5	7,582.8	7,550.5	24.2	18.6	95.75	-192.6	244.3	924.0	885.0	39.02	23.678	
7,700.0	7,650.5	7,682.8	7,650.5	24.2	18.6	95.75	-192.6	244.3	924.0	884.9	39.10	23.632	
7,800.0	7,750.5	7,782.8	7,750.5	24.2	18.7	95.75	-192.6	244.3	924.0	884.8	39.18	23.586	
7,900.0	7,850.5	7,882.8	7,850.5	24.3	18.7	95.75	-192.6	244.3	924.0	884.7	39.25	23.539	
8,000.0	7,950.5	7,982.8	7,950.5	24.3	18.7	95.75	-192.6	244.3	924.0	884.7	39.33	23.493	
8,100.0	8,050.5	8,082.8	8,050.5	24.3	18.8	95.75	-192.6	244.3	924.0	884.6	39.41	23.446	
8,200.0	8,150.5	8,182.8	8,150.5	24.4	18.8	95.75	-192.6	244.3	924.0	884.5	39.49	23.399	
8,300.0	8,250.5	8,282.8	8,250.5	24.4	18.9	95.75	-192.6	244.3	924.0	884.4	39.57	23.352	
8,400.0	8,350.5	8,382.8	8,350.5	24.5	18.9	95.75	-192.6	244.3	924.0	884.3	39.65	23.305	
8,500.0	8,450.5	8,482.8	8,450.5	24.5	18.9	95.75	-192.6	244.3	924.0	884.3	39.73	23.258	
8,600.0	8,550.5	8,582.8	8,550.5	24.5	19.0	95.75	-192.6	244.3	924.0	884.2	39.81	23.211	
8,700.0	8,650.5	8,682.8	8,650.5	24.6	19.0	95.75	-192.6	244.3	924.0	884.1	39.89	23.164	
8,800.0	8,750.5	8,782.8	8,750.5	24.6	19.1	95.75	-192.6	244.3	924.0	884.0	39.97	23.116	
8,900.0	8,850.5	8,882.8	8,850.5	24.6	19.1	95.75	-192.6	244.3	924.0	883.9	40.05	23.069	
9,000.0	8,950.5	8,982.8	8,950.5	24.7	19.1	95.75	-192.6	244.3	924.0	883.9	40.14	23.021	
9,100.0	9,050.5	9,082.8	9,050.5	24.7	19.2	95.75	-192.6	244.3	924.0	883.8	40.22	22.973	
9,200.0	9,150.5	9,182.8	9,150.5	24.8	19.2	95.75	-192.6	244.3	924.0	883.7	40.30	22.926	
9,300.0	9,250.5	9,282.8	9,250.5	24.8	19.3	95.75	-192.6	244.3	924.0	883.6	40.39	22.878	
9,400.0	9,350.5	9,382.8	9,350.5	24.8	19.3	95.75	-192.6	244.3	924.0	883.5	40.47	22.830	
9,500.0	9,450.5	9,482.8	9,450.5	24.9	19.4	95.75	-192.6	244.3	924.0	883.4	40.56	22.782	
9,600.0	9,550.5	9,582.8	9,550.5	24.9	19.4	95.75	-192.6	244.3	924.0	883.4	40.64	22.734	
9,700.0	9,650.5	9,682.8	9,650.5	25.0	19.4	95.75	-192.6	244.3	924.0	883.3	40.73	22.686	
9,800.0	9,750.5	9,782.8	9,750.5	25.0	19.5	95.75	-192.6	244.3	924.0	883.2	40.82	22.638	
9,900.0	9,850.5	9,882.8	9,850.5	25.0	19.5	95.75	-192.6	244.3	924.0	883.1	40.90	22.590	
10,000.0	9,950.5	9,982.8	9,950.5	25.1	19.6	95.75	-192.6	244.3	924.0	883.0	40.99	22.542	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10917-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,050.5	10,082.8	10,050.5	25.1	19.6	95.75	-192.6	244.3	924.0	882.9	41.08	22.493		
10,200.0	10,150.5	10,182.8	10,150.5	25.2	19.7	95.75	-192.6	244.3	924.0	882.8	41.17	22.445		
10,300.0	10,250.5	10,282.8	10,250.5	25.2	19.7	95.75	-192.6	244.3	924.0	882.7	41.26	22.397		
10,400.0	10,350.5	10,382.8	10,350.5	25.2	19.7	95.75	-192.6	244.3	924.0	882.6	41.35	22.348		
10,500.0	10,450.5	10,482.8	10,450.5	25.3	19.8	95.75	-192.6	244.3	924.0	882.6	41.43	22.300		
10,600.0	10,550.5	10,582.8	10,550.5	25.3	19.8	95.75	-192.6	244.3	924.0	882.5	41.52	22.252		
10,700.0	10,650.5	10,682.8	10,650.5	25.4	19.9	95.75	-192.6	244.3	924.0	882.4	41.62	22.203		
10,800.0	10,750.5	10,782.8	10,750.5	25.4	19.9	95.75	-192.6	244.3	924.0	882.3	41.71	22.155		
10,900.0	10,850.5	10,882.8	10,850.5	25.4	20.0	95.75	-192.6	244.3	924.0	882.2	41.80	22.106		
11,000.0	10,950.5	10,997.3	10,964.7	25.5	20.0	95.40	-186.9	244.3	923.5	881.6	41.89	22.046		
11,100.0	11,050.5	11,112.4	11,076.3	25.5	20.2	93.70	-159.4	243.9	921.1	879.2	41.94	21.961		
11,200.0	11,150.5	11,213.3	11,167.9	25.6	20.3	91.09	-117.4	243.3	918.6	876.7	41.92	21.912		
11,278.4	11,228.6	11,277.6	11,221.8	25.6	20.4	-86.67	-82.6	242.8	917.7	875.9	41.79	21.961		
11,300.0	11,250.1	11,293.5	11,234.5	25.6	20.4	-87.26	-73.0	242.6	917.8	876.1	41.74	21.987		
11,400.0	11,346.4	11,344.1	11,273.1	25.6	20.4	-89.33	-40.4	242.2	922.0	880.5	41.50	22.218		
11,500.0	11,435.0	11,369.2	11,291.2	25.6	20.5	-89.26	-22.9	241.9	934.8	893.5	41.27	22.648		
11,600.0	11,512.2	11,375.4	11,295.5	25.7	20.5	-86.88	-18.5	241.9	957.1	916.0	41.09	23.293		
11,700.0	11,574.5	11,368.1	11,290.4	25.8	20.5	-82.56	-23.7	241.9	988.0	947.0	40.93	24.140		
11,800.0	11,619.3	11,350.0	11,277.4	25.9	20.4	-76.83	-36.3	242.1	1,024.9	984.1	40.74	25.155		
11,900.0	11,644.5	11,327.4	11,260.7	26.0	20.4	-70.65	-51.5	242.3	1,064.9	1,024.4	40.49	26.298		
12,000.0	11,650.0	11,300.0	11,239.6	26.1	20.4	-65.79	-69.0	242.6	1,105.5	1,065.4	40.17	27.521		
12,100.0	11,650.0	11,272.1	11,217.3	26.3	20.4	-64.16	-85.8	242.8	1,152.2	1,112.3	39.87	28.898		
12,200.1	11,650.0	11,250.0	11,199.1	26.5	20.3	-62.63	-98.3	243.0	1,206.8	1,167.2	39.58	30.492		
12,300.0	11,650.0	11,227.1	11,179.8	26.8	20.3	-61.64	-110.5	243.2	1,267.1	1,227.8	39.30	32.243		
12,400.0	11,650.0	11,200.0	11,156.2	27.1	20.3	-60.46	-123.9	243.4	1,331.5	1,292.5	39.06	34.092		
12,500.0	11,650.0	11,200.0	11,156.2	27.4	20.3	-60.46	-123.9	243.4	1,399.4	1,360.6	38.80	36.072		
12,600.0	11,650.0	11,176.3	11,135.2	27.7	20.2	-59.43	-134.7	243.5	1,470.5	1,431.8	38.61	38.084		
12,700.0	11,650.0	11,150.0	11,111.2	28.1	20.2	-58.28	-145.7	243.7	1,544.5	1,506.0	38.46	40.163		
12,800.0	11,650.0	11,150.0	11,111.2	28.5	20.2	-58.28	-145.7	243.7	1,620.7	1,582.4	38.29	42.321		
12,900.0	11,650.0	11,150.0	11,111.2	28.9	20.2	-58.28	-145.7	243.7	1,699.3	1,661.2	38.16	44.527		
13,000.0	11,650.0	11,128.8	11,091.6	29.3	20.2	-57.36	-153.7	243.8	1,779.7	1,741.6	38.08	46.739		
13,100.0	11,650.0	11,119.4	11,082.8	29.8	20.2	-56.95	-157.1	243.8	1,861.8	1,823.8	38.00	48.995		
13,200.0	11,650.0	11,100.0	11,064.5	30.3	20.2	-56.12	-163.5	243.9	1,945.6	1,907.7	37.95	51.269		
13,300.0	11,650.0	11,100.0	11,064.5	30.8	20.2	-56.12	-163.5	243.9	2,030.5	1,992.6	37.90	53.574		
13,400.0	11,650.0	11,100.0	11,064.5	31.4	20.2	-56.12	-163.5	243.9	2,116.8	2,078.9	37.87	55.895		
13,500.0	11,650.0	11,100.0	11,064.5	32.0	20.2	-56.12	-163.5	243.9	2,204.1	2,166.3	37.85	58.229		
13,600.0	11,650.0	11,100.0	11,064.5	32.6	20.2	-56.12	-163.5	243.9	2,292.6	2,254.7	37.85	60.572		
13,700.0	11,650.0	11,076.5	11,042.0	33.2	20.1	-55.11	-170.4	244.0	2,381.3	2,343.5	37.86	62.896		
13,800.0	11,650.0	11,071.0	11,036.8	33.8	20.1	-54.88	-171.9	244.0	2,471.2	2,433.3	37.88	65.242		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11104-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	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)			
0.0	0.0	3.4	0.0	3.0	3.0	15.67	200.7	56.3	208.5	202.1	6.43	32.431	
100.0	100.0	103.4	100.0	3.2	3.1	15.67	200.7	56.3	208.5	201.8	6.72	31.034	
200.0	200.0	203.4	200.0	3.5	3.2	15.67	200.7	56.3	208.5	201.4	7.06	29.515	
300.0	300.0	303.4	300.0	3.7	3.3	15.67	200.7	56.3	208.5	201.1	7.40	28.185	
400.0	400.0	403.4	400.0	3.9	3.4	15.67	200.7	56.3	208.5	200.8	7.72	27.007	
500.0	500.0	503.4	500.0	4.1	3.6	15.67	200.7	56.3	208.5	200.5	8.03	25.953	
600.0	600.0	603.4	600.0	4.2	3.7	15.67	200.7	56.3	208.5	200.2	8.34	25.003	
700.0	700.0	703.4	700.0	4.4	3.8	15.67	200.7	56.3	208.5	199.9	8.64	24.139	
800.0	800.0	803.4	800.0	4.6	3.9	15.67	200.7	56.3	208.5	199.6	8.93	23.350	
900.0	900.0	903.4	900.0	4.8	4.0	15.67	200.7	56.3	208.5	199.3	9.22	22.624	
1,000.0	1,000.0	1,003.5	1,000.1	4.9	4.2	15.67	200.7	56.3	208.5	199.0	9.50	21.953	
1,009.9	1,009.9	1,013.6	1,010.2	4.9	4.2	114.11	200.7	56.3	208.5	199.0	9.53	21.885 CC	
1,100.0	1,100.0	1,105.6	1,102.1	5.2	4.3	115.05	199.7	57.9	208.7	198.9	9.78	21.332 ES	
1,200.0	1,199.8	1,207.0	1,203.4	5.4	4.6	117.79	196.7	62.6	209.6	199.5	10.12	20.714	
1,300.0	1,299.5	1,307.1	1,303.1	5.7	4.9	122.18	191.8	70.1	212.2	201.7	10.46	20.279	
1,400.0	1,398.7	1,405.2	1,400.5	6.0	5.2	127.89	185.2	80.3	217.8	207.0	10.84	20.100 SF	
1,500.0	1,497.6	1,501.6	1,495.9	6.1	5.5	134.07	177.9	91.5	227.7	216.5	11.15	20.414	
1,600.0	1,596.4	1,597.9	1,591.2	6.4	5.8	139.79	170.6	102.8	240.3	228.7	11.58	20.748	
1,700.0	1,695.3	1,694.2	1,686.6	6.7	6.0	144.92	163.3	114.0	255.1	243.1	12.05	21.170	
1,800.0	1,794.1	1,790.5	1,782.0	6.9	6.3	149.48	156.0	125.3	271.9	259.3	12.56	21.640	
1,900.0	1,892.9	1,886.8	1,877.3	7.2	6.6	153.51	148.7	136.5	290.1	277.0	13.11	22.130	
2,000.0	1,991.8	1,983.1	1,972.7	7.6	7.0	157.07	141.4	147.7	309.7	296.0	13.69	22.621	
2,100.0	2,090.6	2,079.4	2,068.0	7.9	7.3	160.21	134.1	159.0	330.2	315.9	14.30	23.100	
2,200.0	2,189.5	2,175.6	2,163.4	8.2	7.6	162.98	126.8	170.2	351.7	336.8	14.93	23.562	
2,300.0	2,288.3	2,271.9	2,258.8	8.6	8.0	165.44	119.5	181.5	373.9	358.3	15.58	24.001	
2,400.0	2,387.2	2,368.2	2,354.1	8.9	8.3	167.62	112.2	192.7	396.6	380.4	16.24	24.416	
2,500.0	2,486.0	2,464.5	2,449.5	9.3	8.7	169.57	104.9	203.9	419.9	402.9	16.93	24.807	
2,600.0	2,584.8	2,560.8	2,544.8	9.7	9.1	171.32	97.6	215.2	443.5	425.9	17.62	25.174	
2,700.0	2,683.7	2,657.1	2,640.2	10.0	9.4	172.89	90.3	226.4	467.6	449.3	18.32	25.518	
2,800.0	2,782.5	2,753.4	2,735.6	10.4	9.8	174.31	83.0	237.7	491.9	472.9	19.04	25.841	
2,900.0	2,881.4	2,849.7	2,830.9	10.8	10.2	175.60	75.7	248.9	516.5	496.8	19.76	26.144	
3,000.0	2,980.2	2,946.0	2,926.3	11.2	10.6	176.77	68.4	260.1	541.3	520.9	20.48	26.427	
3,100.0	3,079.0	3,042.3	3,021.6	11.6	10.9	177.84	61.1	271.4	566.4	545.1	21.22	26.693	
3,200.0	3,177.9	3,138.6	3,117.0	12.0	11.3	178.82	53.8	282.6	591.5	569.6	21.96	26.943	
3,300.0	3,276.7	3,234.9	3,212.3	12.4	11.7	179.72	46.5	293.9	616.9	594.2	22.70	27.178	
3,400.0	3,375.6	3,331.2	3,307.7	12.8	12.1	-179.45	39.2	305.1	642.4	618.9	23.45	27.398	
3,500.0	3,474.4	3,427.5	3,403.1	13.2	12.5	-178.68	31.9	316.3	667.9	643.8	24.20	27.606	
3,600.0	3,573.3	3,523.8	3,498.4	13.6	12.9	-177.97	24.6	327.6	693.6	668.7	24.95	27.802	
3,700.0	3,672.1	3,620.1	3,593.8	14.0	13.3	-177.31	17.3	338.8	719.4	693.7	25.71	27.986	
3,800.0	3,770.9	3,716.4	3,689.1	14.4	13.7	-176.70	10.0	350.1	745.3	718.8	26.47	28.161	
3,900.0	3,869.8	3,812.7	3,784.5	14.8	14.1	-176.13	2.7	361.3	771.2	744.0	27.23	28.326	
4,000.0	3,968.6	3,909.0	3,879.9	15.3	14.5	-175.59	-4.6	372.5	797.3	769.3	27.99	28.482	
4,100.0	4,067.5	4,005.3	3,975.2	15.7	14.9	-175.09	-11.9	383.8	823.3	794.6	28.76	28.630	
4,200.0	4,166.3	4,101.6	4,070.6	16.1	15.3	-174.62	-19.2	395.0	849.5	819.9	29.53	28.771	
4,300.0	4,265.1	4,197.9	4,165.9	16.5	15.7	-174.18	-26.5	406.3	875.6	845.3	30.29	28.904	
4,400.0	4,364.0	4,294.2	4,261.3	16.9	16.1	-173.76	-33.8	417.5	901.9	870.8	31.07	29.031	
4,500.0	4,462.8	4,390.5	4,356.7	17.4	16.5	-173.36	-41.1	428.7	928.1	896.3	31.84	29.152	
4,600.0	4,561.7	4,486.7	4,452.0	17.8	16.9	-172.99	-48.4	440.0	954.4	921.8	32.61	29.267	
4,700.0	4,660.5	4,583.0	4,547.4	18.2	17.3	-172.64	-55.7	451.2	980.8	947.4	33.39	29.377	
4,800.0	4,759.4	4,679.3	4,642.7	18.6	17.7	-172.30	-63.0	462.5	1,007.2	973.0	34.16	29.481	
4,900.0	4,858.2	4,775.6	4,738.1	19.1	18.1	-171.99	-70.3	473.7	1,033.6	998.6	34.94	29.581	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11104-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	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	
5,000.0	4,957.0	4,871.9	4,833.4	19.5	18.5	-171.68	-77.6	484.9	1,060.0	1,024.3	35.72	29.677	
5,100.0	5,055.9	4,968.2	4,928.8	19.9	18.9	-171.40	-84.9	496.2	1,086.5	1,050.0	36.50	29.768	
5,200.0	5,154.7	5,064.5	5,024.2	20.3	19.3	-171.12	-92.2	507.4	1,113.0	1,075.7	37.28	29.856	
5,300.0	5,253.6	5,160.8	5,119.5	20.8	19.7	-170.87	-99.5	518.7	1,139.4	1,101.4	38.04	29.951	
5,400.0	5,352.6	5,257.4	5,215.2	21.2	20.1	-170.66	-106.8	529.9	1,164.7	1,125.9	38.82	30.001	
5,500.0	5,451.8	5,354.5	5,311.3	21.6	20.5	-170.43	-114.2	541.3	1,188.4	1,148.8	39.59	30.018	
5,600.0	5,551.3	5,451.9	5,407.7	22.0	20.9	-170.21	-121.6	552.6	1,210.4	1,170.0	40.35	30.000	
5,700.0	5,650.9	5,550.4	5,505.3	22.4	21.4	-169.97	-129.0	564.1	1,230.7	1,189.7	41.09	29.954	
5,800.0	5,750.7	5,658.6	5,612.5	22.7	21.8	-169.71	-136.9	576.3	1,249.0	1,207.1	41.88	29.823	
5,900.0	5,850.5	5,767.4	5,720.5	23.1	22.2	-169.46	-144.3	587.6	1,264.7	1,222.1	42.65	29.652	
6,000.0	5,950.5	5,876.9	5,829.2	23.4	22.7	-169.23	-151.1	598.2	1,278.0	1,234.6	43.39	29.454	
6,100.0	6,050.5	5,986.8	5,938.5	23.6	23.1	-169.00	-157.4	607.9	1,288.8	1,244.7	44.07	29.242	
6,200.0	6,150.5	6,097.0	6,048.3	23.7	23.6	92.80	-163.2	616.7	1,297.3	1,252.8	44.55	29.121	
6,300.0	6,250.5	6,207.5	6,158.4	23.7	24.0	93.01	-168.4	624.7	1,304.8	1,259.8	44.98	29.005	
6,400.0	6,350.5	6,318.2	6,268.7	23.8	24.4	93.20	-173.0	631.8	1,311.4	1,266.0	45.41	28.881	
6,500.0	6,450.5	6,429.0	6,379.3	23.8	24.8	93.36	-177.0	638.1	1,317.2	1,271.4	45.82	28.748	
6,600.0	6,550.5	6,540.0	6,490.0	23.8	25.2	93.49	-180.5	643.4	1,322.2	1,276.0	46.22	28.608	
6,700.0	6,650.5	6,651.0	6,601.0	23.9	25.6	93.61	-183.4	647.8	1,326.4	1,279.8	46.60	28.462	
6,800.0	6,750.5	6,762.2	6,712.1	23.9	25.9	93.70	-185.7	651.4	1,329.7	1,282.7	46.97	28.312	
6,900.0	6,850.5	6,873.4	6,823.3	23.9	26.3	93.76	-187.4	654.0	1,332.1	1,284.8	47.31	28.160	
7,000.0	6,950.5	6,984.7	6,934.5	24.0	26.6	93.81	-188.5	655.7	1,333.8	1,286.1	47.62	28.009	
7,100.0	7,050.5	7,096.0	7,045.8	24.0	26.8	93.83	-189.1	656.6	1,334.5	1,286.7	47.89	27.870	
7,200.0	7,150.5	7,200.7	7,150.5	24.0	26.9	93.83	-189.1	656.6	1,334.6	1,286.6	47.96	27.826	
7,300.0	7,250.5	7,300.7	7,250.5	24.1	26.9	93.83	-189.1	656.6	1,334.6	1,286.6	48.02	27.795	
7,400.0	7,350.5	7,400.7	7,350.5	24.1	26.9	93.83	-189.1	656.6	1,334.6	1,286.5	48.07	27.763	
7,500.0	7,450.5	7,500.7	7,450.5	24.1	26.9	93.83	-189.1	656.6	1,334.6	1,286.5	48.13	27.731	
7,600.0	7,550.5	7,600.7	7,550.5	24.2	27.0	93.83	-189.1	656.6	1,334.6	1,286.4	48.18	27.699	
7,700.0	7,650.5	7,700.7	7,650.5	24.2	27.0	93.83	-189.1	656.6	1,334.6	1,286.4	48.24	27.667	
7,800.0	7,750.5	7,800.7	7,750.5	24.2	27.0	93.83	-189.1	656.6	1,334.6	1,286.3	48.29	27.635	
7,900.0	7,850.5	7,900.7	7,850.5	24.3	27.0	93.83	-189.1	656.6	1,334.6	1,286.3	48.35	27.602	
8,000.0	7,950.5	8,000.7	7,950.5	24.3	27.0	93.83	-189.1	656.6	1,334.6	1,286.2	48.41	27.569	
8,100.0	8,050.5	8,100.7	8,050.5	24.3	27.1	93.83	-189.1	656.6	1,334.6	1,286.1	48.47	27.536	
8,200.0	8,150.5	8,200.7	8,150.5	24.4	27.1	93.83	-189.1	656.6	1,334.6	1,286.1	48.53	27.503	
8,300.0	8,250.5	8,300.7	8,250.5	24.4	27.1	93.83	-189.1	656.6	1,334.6	1,286.0	48.58	27.470	
8,400.0	8,350.5	8,400.7	8,350.5	24.5	27.1	93.83	-189.1	656.6	1,334.6	1,286.0	48.64	27.436	
8,500.0	8,450.5	8,500.7	8,450.5	24.5	27.1	93.83	-189.1	656.6	1,334.6	1,285.9	48.70	27.403	
8,600.0	8,550.5	8,600.7	8,550.5	24.5	27.2	93.83	-189.1	656.6	1,334.6	1,285.8	48.76	27.369	
8,700.0	8,650.5	8,700.7	8,650.5	24.6	27.2	93.83	-189.1	656.6	1,334.6	1,285.8	48.82	27.335	
8,800.0	8,750.5	8,800.7	8,750.5	24.6	27.2	93.83	-189.1	656.6	1,334.6	1,285.7	48.89	27.301	
8,900.0	8,850.5	8,900.7	8,850.5	24.6	27.2	93.83	-189.1	656.6	1,334.6	1,285.7	48.95	27.266	
9,000.0	8,950.5	9,000.7	8,950.5	24.7	27.3	93.83	-189.1	656.6	1,334.6	1,285.6	49.01	27.232	
9,100.0	9,050.5	9,100.7	9,050.5	24.7	27.3	93.83	-189.1	656.6	1,334.6	1,285.5	49.07	27.197	
9,200.0	9,150.5	9,200.7	9,150.5	24.8	27.3	93.83	-189.1	656.6	1,334.6	1,285.5	49.14	27.162	
9,300.0	9,250.5	9,300.7	9,250.5	24.8	27.3	93.83	-189.1	656.6	1,334.6	1,285.4	49.20	27.127	
9,400.0	9,350.5	9,400.7	9,350.5	24.8	27.4	93.83	-189.1	656.6	1,334.6	1,285.3	49.26	27.092	
9,500.0	9,450.5	9,500.7	9,450.5	24.9	27.4	93.83	-189.1	656.6	1,334.6	1,285.3	49.33	27.056	
9,600.0	9,550.5	9,600.7	9,550.5	24.9	27.4	93.83	-189.1	656.6	1,334.6	1,285.2	49.39	27.021	
9,700.0	9,650.5	9,700.7	9,650.5	25.0	27.4	93.83	-189.1	656.6	1,334.6	1,285.2	49.46	26.985	
9,800.0	9,750.5	9,800.7	9,750.5	25.0	27.5	93.83	-189.1	656.6	1,334.6	1,285.1	49.52	26.949	
9,900.0	9,850.5	9,900.7	9,850.5	25.0	27.5	93.83	-189.1	656.6	1,334.6	1,285.0	49.59	26.914	
10,000.0	9,950.5	10,000.7	9,950.5	25.1	27.5	93.83	-189.1	656.6	1,334.6	1,285.0	49.66	26.877	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 11104-r.5 MWD+IFR1+MS				Offset Well Error: 3.0 usft		Rule Assigned:							
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	
10,100.0	10,050.5	10,100.7	10,050.5	25.1	27.5	93.83	-189.1	656.6	1,334.6	1,284.9	49.72	26.841	
10,200.0	10,150.5	10,200.7	10,150.5	25.2	27.6	93.83	-189.1	656.6	1,334.6	1,284.8	49.79	26.805	
10,300.0	10,250.5	10,300.7	10,250.5	25.2	27.6	93.83	-189.1	656.6	1,334.6	1,284.7	49.86	26.768	
10,400.0	10,350.5	10,400.7	10,350.5	25.2	27.6	93.83	-189.1	656.6	1,334.6	1,284.7	49.93	26.732	
10,500.0	10,450.5	10,500.7	10,450.5	25.3	27.6	93.83	-189.1	656.6	1,334.6	1,284.6	49.99	26.695	
10,600.0	10,550.5	10,600.7	10,550.5	25.3	27.7	93.83	-189.1	656.6	1,334.6	1,284.5	50.06	26.658	
10,700.0	10,650.5	10,700.7	10,650.5	25.4	27.7	93.83	-189.1	656.6	1,334.6	1,284.5	50.13	26.621	
10,800.0	10,750.5	10,800.7	10,750.5	25.4	27.7	93.83	-189.1	656.6	1,334.6	1,284.4	50.20	26.584	
10,900.0	10,850.5	10,900.7	10,850.5	25.4	27.7	93.83	-189.1	656.6	1,334.6	1,284.3	50.27	26.547	
11,000.0	10,950.5	11,000.7	10,950.5	25.5	27.8	93.83	-189.1	656.6	1,334.6	1,284.3	50.34	26.509	
11,100.0	11,050.5	11,100.7	11,050.5	25.5	27.8	93.83	-189.1	656.6	1,334.6	1,284.2	50.42	26.471	
11,200.0	11,150.5	11,221.8	11,170.7	25.6	27.8	93.31	-177.0	656.4	1,333.8	1,283.4	50.41	26.461	
11,300.0	11,250.1	11,330.6	11,274.6	25.6	27.9	-83.90	-144.8	656.0	1,331.2	1,281.0	50.20	26.519	
11,400.0	11,346.4	11,409.1	11,344.6	25.6	27.9	-86.52	-109.7	655.4	1,327.9	1,278.1	49.83	26.648	
11,452.6	11,394.2	11,436.9	11,368.3	25.6	27.9	-87.59	-95.0	655.2	1,327.3	1,277.7	49.61	26.758	
11,500.0	11,435.0	11,455.0	11,383.3	25.6	27.9	-88.22	-84.8	655.1	1,327.9	1,278.5	49.38	26.892	
11,600.0	11,512.2	11,475.3	11,399.6	25.7	27.9	-88.36	-72.9	654.9	1,333.7	1,284.9	48.85	27.302	
11,700.0	11,574.5	11,477.1	11,401.0	25.8	27.9	-86.94	-71.8	654.9	1,346.2	1,297.9	48.25	27.900	
11,800.0	11,619.3	11,466.1	11,392.2	25.9	27.9	-84.22	-78.4	655.0	1,364.7	1,317.1	47.59	28.678	
11,900.0	11,644.5	11,450.0	11,379.1	26.0	27.9	-80.75	-87.7	655.1	1,387.8	1,340.9	46.86	29.615	
12,000.0	11,650.0	11,420.2	11,354.1	26.1	27.9	-77.38	-104.0	655.3	1,413.8	1,367.7	46.14	30.645	
12,100.0	11,650.0	11,400.0	11,336.8	26.3	27.9	-76.50	-114.3	655.5	1,446.8	1,401.4	45.41	31.865	
12,200.1	11,650.0	11,374.3	11,314.2	26.5	27.9	-75.34	-126.5	655.7	1,488.2	1,443.5	44.71	33.286	
12,300.0	11,650.0	11,350.0	11,292.3	26.8	27.9	-74.43	-137.0	655.8	1,535.8	1,491.8	44.02	34.888	
12,400.0	11,650.0	11,350.0	11,292.3	27.1	27.9	-74.43	-137.0	655.8	1,587.9	1,544.5	43.33	36.650	
12,500.0	11,650.0	11,324.9	11,269.3	27.4	27.9	-73.48	-147.0	656.0	1,643.8	1,601.1	42.72	38.480	
12,600.0	11,650.0	11,300.0	11,246.0	27.7	27.9	-72.53	-155.9	656.1	1,703.8	1,661.6	42.16	40.414	
12,700.0	11,650.0	11,300.0	11,246.0	28.1	27.9	-72.53	-155.9	656.1	1,766.9	1,725.2	41.63	42.439	
12,800.0	11,650.0	11,300.0	11,246.0	28.5	27.9	-72.53	-155.9	656.1	1,833.2	1,792.1	41.17	44.531	
12,900.0	11,650.0	11,280.9	11,227.9	28.9	27.9	-71.80	-162.0	656.2	1,902.2	1,861.4	40.76	46.667	
13,000.0	11,650.0	11,272.4	11,219.8	29.3	27.9	-71.48	-164.5	656.3	1,973.8	1,933.4	40.40	48.851	
13,100.0	11,650.0	11,250.0	11,198.2	29.8	27.8	-70.62	-170.6	656.3	2,047.8	2,007.7	40.09	51.082	
13,200.0	11,650.0	11,250.0	11,198.2	30.3	27.8	-70.62	-170.6	656.3	2,123.6	2,083.7	39.83	53.321	
13,300.0	11,650.0	11,250.0	11,198.2	30.8	27.8	-70.62	-170.6	656.3	2,201.3	2,161.7	39.61	55.580	
13,400.0	11,650.0	11,250.0	11,198.2	31.4	27.8	-70.62	-170.6	656.3	2,280.7	2,241.3	39.42	57.853	
13,500.0	11,650.0	11,250.0	11,198.2	32.0	27.8	-70.62	-170.6	656.3	2,361.7	2,322.4	39.27	60.135	
13,600.0	11,650.0	11,250.0	11,198.2	32.6	27.8	-70.62	-170.6	656.3	2,444.1	2,404.9	39.15	62.424	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	3.1	0.0	3.0	3.0	23.30	201.2	86.7	219.1	212.7	6.43	34.079		
100.0	100.0	103.1	100.0	3.2	3.1	23.30	201.2	86.7	219.1	212.4	6.72	32.613		
200.0	200.0	203.1	200.0	3.5	3.2	23.30	201.2	86.7	219.1	212.0	7.06	31.019		
300.0	300.0	303.1	300.0	3.7	3.3	23.30	201.2	86.7	219.1	211.7	7.40	29.624		
400.0	400.0	403.1	400.0	3.9	3.4	23.30	201.2	86.7	219.1	211.4	7.72	28.389		
500.0	500.0	503.1	500.0	4.1	3.6	23.30	201.2	86.7	219.1	211.1	8.03	27.284		
600.0	600.0	603.1	600.0	4.2	3.7	23.30	201.2	86.7	219.1	210.8	8.33	26.288		
700.0	700.0	703.1	700.0	4.4	3.8	23.30	201.2	86.7	219.1	210.5	8.63	25.384		
800.0	800.0	803.1	800.0	4.6	3.9	23.30	201.2	86.7	219.1	210.2	8.92	24.557		
900.0	900.0	903.1	900.0	4.8	4.0	23.30	201.2	86.7	219.1	209.9	9.21	23.798		
965.6	965.6	968.7	965.6	4.9	4.1	23.30	201.2	86.7	219.1	209.7	9.39	23.336	CC	
1,000.0	1,000.0	1,003.1	1,000.0	4.9	4.2	23.30	201.2	86.7	219.1	209.6	9.49	23.097	ES	
1,100.0	1,100.0	1,102.7	1,099.5	5.2	4.3	122.57	200.6	88.4	220.1	210.3	9.77	22.531		
1,200.0	1,199.8	1,201.6	1,198.3	5.4	4.6	124.98	198.7	93.3	223.4	213.3	10.11	22.094		
1,300.0	1,299.5	1,299.1	1,295.5	5.7	4.9	128.73	195.6	101.2	229.8	219.4	10.48	21.933	SF	
1,400.0	1,398.7	1,394.7	1,390.4	6.0	5.2	133.46	191.5	112.0	240.4	229.5	10.89	22.080		
1,500.0	1,497.6	1,488.0	1,482.5	6.1	5.5	138.80	186.4	125.4	255.9	244.6	11.24	22.761		
1,600.0	1,596.4	1,582.1	1,575.2	6.4	5.8	144.10	180.4	140.9	274.7	263.0	11.72	23.440		
1,700.0	1,695.3	1,677.0	1,668.6	6.7	6.1	148.79	174.3	156.7	295.7	283.5	12.24	24.161		
1,800.0	1,794.1	1,772.0	1,762.0	6.9	6.4	152.86	168.3	172.4	318.4	305.6	12.79	24.896		
1,900.0	1,892.9	1,866.9	1,855.4	7.2	6.7	156.40	162.2	188.2	342.6	329.2	13.38	25.607		
2,000.0	1,991.8	1,961.8	1,948.8	7.6	7.0	159.48	156.2	204.0	367.8	353.8	13.99	26.283		
2,100.0	2,090.6	2,056.7	2,042.2	7.9	7.4	162.17	150.1	219.7	394.0	379.3	14.64	26.917		
2,200.0	2,189.5	2,151.6	2,135.6	8.2	7.7	164.53	144.1	235.5	420.8	405.5	15.30	27.506		
2,300.0	2,288.3	2,246.5	2,229.0	8.6	8.1	166.61	138.0	251.3	448.3	432.3	15.98	28.050		
2,400.0	2,387.2	2,341.4	2,322.4	8.9	8.4	168.46	132.0	267.0	476.3	459.6	16.68	28.552		
2,500.0	2,486.0	2,436.3	2,415.8	9.3	8.8	170.10	125.9	282.8	504.7	487.3	17.39	29.014		
2,600.0	2,584.8	2,531.2	2,509.2	9.7	9.2	171.57	119.9	298.6	533.4	515.3	18.12	29.440		
2,700.0	2,683.7	2,626.2	2,602.6	10.0	9.6	172.90	113.8	314.3	562.5	543.6	18.85	29.832		
2,800.0	2,782.5	2,721.1	2,696.0	10.4	9.9	174.09	107.8	330.1	591.7	572.1	19.60	30.194		
2,900.0	2,881.4	2,816.0	2,789.4	10.8	10.3	175.17	101.7	345.9	621.2	600.9	20.35	30.528		
3,000.0	2,980.2	2,910.9	2,882.7	11.2	10.7	176.16	95.7	361.7	650.9	629.8	21.11	30.836		
3,100.0	3,079.0	3,005.8	2,976.1	11.6	11.1	177.06	89.6	377.4	680.8	658.9	21.87	31.122		
3,200.0	3,177.9	3,100.7	3,069.5	12.0	11.5	177.88	83.6	393.2	710.8	688.1	22.64	31.388		
3,300.0	3,276.7	3,195.6	3,162.9	12.4	11.9	178.64	77.5	409.0	740.9	717.5	23.42	31.634		
3,400.0	3,375.6	3,290.5	3,256.3	12.8	12.3	179.34	71.5	424.7	771.1	746.9	24.20	31.864		
3,500.0	3,474.4	3,385.5	3,349.7	13.2	12.7	179.99	65.4	440.5	801.4	776.5	24.98	32.078		
3,600.0	3,573.3	3,480.4	3,443.1	13.6	13.1	-179.41	59.4	456.3	831.8	806.1	25.77	32.278		
3,700.0	3,672.1	3,575.3	3,536.5	14.0	13.5	-178.85	53.3	472.0	862.3	835.8	26.56	32.466		
3,800.0	3,770.9	3,670.2	3,629.9	14.4	14.0	-178.33	47.2	487.8	892.9	865.5	27.35	32.641		
3,900.0	3,869.8	3,765.1	3,723.3	14.8	14.4	-177.85	41.2	503.6	923.5	895.4	28.15	32.806		
4,000.0	3,968.6	3,860.0	3,816.7	15.3	14.8	-177.39	35.1	519.3	954.2	925.2	28.95	32.961		
4,100.0	4,067.5	3,954.9	3,910.1	15.7	15.2	-176.96	29.1	535.1	984.9	955.2	29.75	33.107		
4,200.0	4,166.3	4,049.8	4,003.5	16.1	15.6	-176.56	23.0	550.9	1,015.7	985.1	30.55	33.245		
4,300.0	4,265.1	4,144.7	4,096.9	16.5	16.0	-176.19	17.0	566.6	1,046.5	1,015.2	31.36	33.374		
4,400.0	4,364.0	4,239.7	4,190.3	16.9	16.4	-175.83	10.9	582.4	1,077.4	1,045.2	32.16	33.497		
4,500.0	4,462.8	4,334.6	4,283.7	17.4	16.9	-175.49	4.9	598.2	1,108.3	1,075.3	32.97	33.614		
4,600.0	4,561.7	4,429.5	4,377.1	17.8	17.3	-175.17	-1.2	613.9	1,139.2	1,105.4	33.78	33.724		
4,700.0	4,660.5	4,524.4	4,470.5	18.2	17.7	-174.87	-7.2	629.7	1,170.1	1,135.6	34.59	33.828		
4,800.0	4,759.4	4,619.3	4,563.9	18.6	18.1	-174.59	-13.3	645.5	1,201.1	1,165.7	35.40	33.928		
4,900.0	4,858.2	4,714.2	4,657.3	19.1	18.6	-174.32	-19.3	661.2	1,232.1	1,195.9	36.22	34.022		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10974-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	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)	(usft)	(usft)	(usft)	(usft)		
5,000.0	4,957.0	4,809.1	4,750.7	19.5	19.0	-174.06	-25.4	677.0	1,263.2	1,226.1	37.03	34.112		
5,100.0	5,055.9	4,904.0	4,844.1	19.9	19.4	-173.81	-31.4	692.8	1,294.2	1,256.4	37.85	34.198		
5,200.0	5,154.7	4,999.0	4,937.5	20.3	19.8	-173.58	-37.5	708.5	1,325.3	1,286.6	38.66	34.280		
5,300.0	5,253.6	5,093.9	5,030.9	20.8	20.2	-173.36	-43.5	724.3	1,356.3	1,316.9	39.46	34.369		
5,400.0	5,352.6	5,189.2	5,124.7	21.2	20.7	-173.18	-49.6	740.1	1,386.2	1,346.0	40.28	34.415		
5,500.0	5,451.8	5,285.0	5,218.9	21.6	21.1	-172.99	-55.7	756.0	1,414.5	1,373.4	41.09	34.428		
5,600.0	5,551.3	5,381.2	5,313.6	22.0	21.5	-172.81	-61.9	772.0	1,441.1	1,399.2	41.88	34.408		
5,700.0	5,650.9	5,477.9	5,408.8	22.4	22.0	-172.62	-68.0	788.1	1,466.1	1,423.4	42.67	34.359		
5,800.0	5,750.7	5,575.0	5,504.3	22.7	22.4	-172.43	-74.2	804.2	1,489.4	1,446.0	43.44	34.285		
5,900.0	5,850.5	5,672.4	5,600.2	23.1	22.8	-172.23	-80.4	820.4	1,511.0	1,466.8	44.20	34.189		
6,000.0	5,950.5	5,770.2	5,696.4	23.4	23.3	-172.03	-86.7	836.7	1,531.0	1,486.1	44.93	34.078		
6,100.0	6,050.5	5,868.3	5,793.0	23.6	23.7	-171.82	-92.9	853.0	1,549.3	1,503.7	45.61	33.965		
6,200.0	6,150.5	5,966.7	5,889.8	23.7	24.2	89.97	-99.2	869.3	1,566.1	1,520.0	46.12	33.961		
6,300.0	6,250.5	6,065.1	5,986.6	23.7	24.6	90.20	-105.5	885.6	1,582.8	1,536.2	46.59	33.970		
6,400.0	6,350.5	6,169.1	6,089.0	23.8	25.1	90.44	-112.1	902.8	1,599.4	1,552.3	47.11	33.951		
6,500.0	6,450.5	6,282.6	6,200.9	23.8	25.6	90.68	-119.0	920.8	1,615.3	1,567.6	47.70	33.862		
6,600.0	6,550.5	6,396.5	6,313.3	23.8	26.1	90.91	-125.5	937.8	1,630.3	1,582.0	48.29	33.758		
6,700.0	6,650.5	6,510.7	6,426.2	23.9	26.6	91.11	-131.6	953.7	1,644.4	1,595.5	48.88	33.644		
6,800.0	6,750.5	6,625.3	6,539.6	23.9	27.1	91.30	-137.4	968.7	1,657.6	1,608.1	49.45	33.519		
6,900.0	6,850.5	6,740.2	6,653.6	23.9	27.6	91.48	-142.7	982.6	1,669.8	1,619.8	50.02	33.385		
7,000.0	6,950.5	6,855.3	6,767.9	24.0	28.0	91.63	-147.7	995.5	1,681.2	1,630.6	50.57	33.242		
7,100.0	7,050.5	6,970.8	6,882.6	24.0	28.5	91.78	-152.2	1,007.4	1,691.6	1,640.4	51.12	33.090		
7,200.0	7,150.5	7,086.5	6,997.7	24.0	29.0	91.91	-156.4	1,018.2	1,701.0	1,649.4	51.65	32.932		
7,300.0	7,250.5	7,202.4	7,113.2	24.1	29.4	92.02	-160.1	1,027.9	1,709.5	1,657.3	52.17	32.767		
7,400.0	7,350.5	7,318.5	7,228.9	24.1	29.9	92.12	-163.4	1,036.6	1,717.1	1,664.4	52.68	32.597		
7,500.0	7,450.5	7,434.8	7,344.9	24.1	30.3	92.21	-166.3	1,044.2	1,723.7	1,670.5	53.16	32.423		
7,600.0	7,550.5	7,551.2	7,461.1	24.2	30.7	92.28	-168.8	1,050.6	1,729.3	1,675.7	53.63	32.246		
7,700.0	7,650.5	7,667.8	7,577.6	24.2	31.1	92.34	-170.9	1,056.0	1,734.0	1,679.9	54.08	32.066		
7,800.0	7,750.5	7,784.4	7,694.1	24.2	31.5	92.39	-172.5	1,060.3	1,737.7	1,683.2	54.50	31.887		
7,900.0	7,850.5	7,901.2	7,810.8	24.3	31.8	92.43	-173.7	1,063.5	1,740.5	1,685.6	54.89	31.709		
8,000.0	7,950.5	8,018.0	7,927.6	24.3	32.1	92.45	-174.5	1,065.5	1,742.3	1,687.0	55.24	31.541		
8,100.0	8,050.5	8,134.8	8,044.5	24.3	32.4	92.46	-174.9	1,066.5	1,743.1	1,687.6	55.50	31.407		
8,200.0	8,150.5	8,240.8	8,150.5	24.4	32.4	92.46	-174.9	1,066.6	1,743.2	1,687.6	55.58	31.363		
8,300.0	8,250.5	8,340.8	8,250.5	24.4	32.5	92.46	-174.9	1,066.6	1,743.2	1,687.5	55.63	31.333		
8,400.0	8,350.5	8,440.8	8,350.5	24.5	32.5	92.46	-174.9	1,066.6	1,743.2	1,687.5	55.68	31.304		
8,500.0	8,450.5	8,540.8	8,450.5	24.5	32.5	92.46	-174.9	1,066.6	1,743.2	1,687.4	55.74	31.275		
8,600.0	8,550.5	8,640.8	8,550.5	24.5	32.5	92.46	-174.9	1,066.6	1,743.2	1,687.4	55.79	31.245		
8,700.0	8,650.5	8,740.8	8,650.5	24.6	32.5	92.46	-174.9	1,066.6	1,743.2	1,687.3	55.84	31.216		
8,800.0	8,750.5	8,840.8	8,750.5	24.6	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.3	55.90	31.186		
8,900.0	8,850.5	8,940.8	8,850.5	24.6	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.2	55.95	31.156		
9,000.0	8,950.5	9,040.8	8,950.5	24.7	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.2	56.00	31.126		
9,100.0	9,050.5	9,140.8	9,050.5	24.7	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.1	56.06	31.096		
9,200.0	9,150.5	9,240.8	9,150.5	24.8	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.0	56.11	31.065		
9,300.0	9,250.5	9,340.8	9,250.5	24.8	32.6	92.46	-174.9	1,066.6	1,743.2	1,687.0	56.17	31.035		
9,400.0	9,350.5	9,440.8	9,350.5	24.8	32.7	92.46	-174.9	1,066.6	1,743.2	1,686.9	56.22	31.004		
9,500.0	9,450.5	9,540.8	9,450.5	24.9	32.7	92.46	-174.9	1,066.6	1,743.2	1,686.9	56.28	30.973		
9,600.0	9,550.5	9,640.8	9,550.5	24.9	32.7	92.46	-174.9	1,066.6	1,743.2	1,686.8	56.34	30.942		
9,700.0	9,650.5	9,740.8	9,650.5	25.0	32.7	92.46	-174.9	1,066.6	1,743.2	1,686.8	56.39	30.911		
9,800.0	9,750.5	9,840.8	9,750.5	25.0	32.7	92.46	-174.9	1,066.6	1,743.2	1,686.7	56.45	30.879		
9,900.0	9,850.5	9,940.8	9,850.5	25.0	32.8	92.46	-174.9	1,066.6	1,743.2	1,686.7	56.51	30.848		
10,000.0	9,950.5	10,040.8	9,950.5	25.1	32.8	92.46	-174.9	1,066.6	1,743.2	1,686.6	56.57	30.816		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning 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, 10974-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)		
10,100.0	10,050.5	10,140.8	10,050.5	25.1	32.8	92.46	-174.9	1,066.6	1,743.2	1,686.5	56.63	30.784
10,200.0	10,150.5	10,240.8	10,150.5	25.2	32.8	92.46	-174.9	1,066.6	1,743.2	1,686.5	56.68	30.752
10,300.0	10,250.5	10,340.8	10,250.5	25.2	32.9	92.46	-174.9	1,066.6	1,743.2	1,686.4	56.74	30.720
10,400.0	10,350.5	10,440.8	10,350.5	25.2	32.9	92.46	-174.9	1,066.6	1,743.2	1,686.4	56.80	30.687
10,500.0	10,450.5	10,540.8	10,450.5	25.3	32.9	92.46	-174.9	1,066.6	1,743.2	1,686.3	56.86	30.655
10,600.0	10,550.5	10,640.8	10,550.5	25.3	32.9	92.46	-174.9	1,066.6	1,743.2	1,686.2	56.92	30.622
10,700.0	10,650.5	10,740.8	10,650.5	25.4	32.9	92.46	-174.9	1,066.6	1,743.2	1,686.2	56.99	30.589
10,800.0	10,750.5	10,840.8	10,750.5	25.4	33.0	92.46	-174.9	1,066.6	1,743.2	1,686.1	57.05	30.557
10,900.0	10,850.5	10,940.8	10,850.5	25.4	33.0	92.46	-174.9	1,066.6	1,743.2	1,686.1	57.11	30.525
11,000.0	10,950.5	11,055.4	10,964.8	25.5	33.0	92.28	-169.2	1,066.4	1,742.9	1,685.8	57.11	30.517
11,100.0	11,050.5	11,170.7	11,076.5	25.5	33.0	91.37	-141.6	1,066.0	1,741.6	1,684.6	57.04	30.535
11,200.0	11,150.5	11,271.6	11,168.1	25.6	33.0	89.98	-99.5	1,065.2	1,740.3	1,683.4	56.92	30.572
11,296.6	11,246.6	11,348.3	11,232.0	25.6	33.1	-86.92	-57.1	1,064.4	1,739.6	1,682.9	56.74	30.659
11,300.0	11,250.1	11,351.7	11,234.6	25.6	33.1	-86.95	-55.1	1,064.4	1,739.7	1,683.0	56.74	30.662
11,400.0	11,346.4	11,400.0	11,271.5	25.6	33.1	-88.06	-24.0	1,063.8	1,741.2	1,684.7	56.50	30.816
11,500.0	11,435.0	11,427.4	11,291.2	25.6	33.1	-88.25	-5.0	1,063.5	1,746.6	1,690.5	56.19	31.086
11,600.0	11,512.2	11,433.5	11,295.5	25.7	33.1	-87.21	-0.6	1,063.4	1,756.9	1,701.1	55.80	31.485
11,700.0	11,574.5	11,426.2	11,290.4	25.8	33.1	-85.18	-5.8	1,063.5	1,771.7	1,716.4	55.33	32.024
11,800.0	11,619.3	11,400.0	11,271.5	25.9	33.1	-82.14	-24.0	1,063.8	1,790.1	1,735.3	54.81	32.662
11,900.0	11,644.5	11,385.4	11,260.7	26.0	33.1	-79.25	-33.7	1,064.0	1,810.7	1,756.5	54.16	33.434
12,000.0	11,650.0	11,350.0	11,233.3	26.1	33.1	-76.48	-56.1	1,064.4	1,832.3	1,778.7	53.54	34.225
12,100.0	11,650.0	11,330.0	11,217.2	26.3	33.1	-75.84	-68.0	1,064.6	1,859.3	1,806.4	52.86	35.172
12,200.1	11,650.0	11,300.0	11,192.4	26.5	33.0	-74.87	-84.8	1,064.9	1,893.7	1,841.5	52.22	36.267
12,300.0	11,650.0	11,300.0	11,192.4	26.8	33.0	-74.87	-84.8	1,064.9	1,933.6	1,882.2	51.46	37.575
12,400.0	11,650.0	11,266.3	11,163.4	27.1	33.0	-73.97	-102.2	1,065.2	1,977.1	1,926.2	50.81	38.908
12,500.0	11,650.0	11,250.0	11,149.1	27.4	33.0	-73.52	-109.9	1,065.4	2,024.2	1,974.1	50.13	40.380
12,600.0	11,650.0	11,250.0	11,149.1	27.7	33.0	-73.52	-109.9	1,065.4	2,074.9	2,025.5	49.43	41.978
12,700.0	11,650.0	11,220.6	11,122.7	28.1	33.0	-72.71	-122.8	1,065.6	2,128.5	2,079.7	48.82	43.599
12,800.0	11,650.0	11,200.0	11,103.8	28.5	33.0	-72.13	-131.1	1,065.8	2,185.3	2,137.1	48.22	45.320
12,900.0	11,650.0	11,200.0	11,103.8	28.9	33.0	-72.13	-131.1	1,065.8	2,244.8	2,197.2	47.62	47.138
13,000.0	11,650.0	11,200.0	11,103.8	29.3	33.0	-72.13	-131.1	1,065.8	2,307.1	2,260.1	47.07	49.020
13,100.0	11,650.0	11,177.3	11,082.7	29.8	33.0	-71.48	-139.3	1,065.9	2,371.6	2,325.0	46.57	50.923
13,200.0	11,650.0	11,150.0	11,056.9	30.3	33.0	-70.70	-148.2	1,066.1	2,438.8	2,392.7	46.11	52.887

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	10.0	0.0	3.0	3.0	30.05	201.6	116.6	233.0	226.5	6.43	36.233		
100.0	100.0	110.0	100.0	3.2	3.1	30.05	201.6	116.6	233.0	226.2	6.72	34.673		
200.0	200.0	210.0	200.0	3.5	3.2	30.05	201.6	116.6	233.0	225.9	7.06	32.974		
300.0	300.0	310.0	300.0	3.7	3.3	30.05	201.6	116.6	233.0	225.6	7.40	31.493		
400.0	400.0	410.0	400.0	3.9	3.4	30.05	201.6	116.6	233.0	225.2	7.72	30.184		
500.0	500.0	510.0	500.0	4.1	3.6	30.05	201.6	116.6	233.0	224.9	8.03	29.014		
600.0	600.0	610.0	600.0	4.2	3.7	30.05	201.6	116.6	233.0	224.6	8.33	27.959		
700.0	700.0	710.0	700.0	4.4	3.8	30.05	201.6	116.6	233.0	224.3	8.63	27.002		
800.0	800.0	810.0	800.0	4.6	3.9	30.05	201.6	116.6	233.0	224.0	8.92	26.127		
900.0	900.0	910.0	900.0	4.8	4.0	30.05	201.6	116.6	233.0	223.8	9.20	25.324		
913.0	913.0	923.0	913.0	4.8	4.1	30.05	201.6	116.6	233.0	223.7	9.23	25.227	CC	
1,000.0	1,000.0	1,009.8	999.8	4.9	4.2	30.05	201.6	116.7	233.0	223.5	9.48	24.581	ES	
1,100.0	1,100.0	1,107.7	1,097.7	5.2	4.3	129.26	201.1	118.6	234.6	224.8	9.78	23.988		
1,200.0	1,199.8	1,205.0	1,194.8	5.4	4.6	131.35	199.6	123.7	239.5	229.3	10.14	23.610		
1,300.0	1,299.5	1,300.0	1,289.5	5.7	4.9	134.51	197.3	131.7	248.3	237.7	10.53	23.575	SF	
1,400.0	1,398.7	1,394.8	1,383.6	6.0	5.2	138.51	194.2	142.8	261.8	250.8	10.97	23.868		
1,500.0	1,497.6	1,486.5	1,474.1	6.1	5.5	142.96	190.3	156.3	280.4	269.1	11.34	24.732		
1,600.0	1,596.4	1,576.2	1,562.3	6.4	5.8	147.36	185.7	172.2	302.6	290.8	11.82	25.602		
1,700.0	1,695.3	1,668.6	1,652.7	6.7	6.1	151.58	180.5	190.5	327.9	315.5	12.35	26.553		
1,800.0	1,794.1	1,762.4	1,744.5	6.9	6.4	155.30	175.1	209.3	354.7	341.8	12.91	27.470		
1,900.0	1,892.9	1,856.2	1,836.3	7.2	6.7	158.50	169.7	228.0	382.9	369.4	13.51	28.335		
2,000.0	1,991.8	1,950.0	1,928.0	7.6	7.1	161.27	164.3	246.8	412.0	397.9	14.14	29.138		
2,100.0	2,090.6	2,043.9	2,019.8	7.9	7.4	163.68	159.0	265.5	441.9	427.1	14.79	29.876		
2,200.0	2,189.5	2,137.7	2,111.5	8.2	7.7	165.80	153.6	284.3	472.5	457.0	15.47	30.550		
2,300.0	2,288.3	2,231.5	2,203.3	8.6	8.1	167.66	148.2	303.0	503.6	487.4	16.16	31.166		
2,400.0	2,387.2	2,325.3	2,295.1	8.9	8.5	169.31	142.8	321.8	535.1	518.2	16.87	31.726		
2,500.0	2,486.0	2,419.1	2,386.8	9.3	8.9	170.78	137.5	340.5	567.0	549.4	17.59	32.236		
2,600.0	2,584.8	2,512.9	2,478.6	9.7	9.2	172.09	132.1	359.3	599.2	580.9	18.32	32.701		
2,700.0	2,683.7	2,606.7	2,570.3	10.0	9.6	173.28	126.7	378.0	631.7	612.6	19.07	33.125		
2,800.0	2,782.5	2,700.5	2,662.1	10.4	10.0	174.34	121.3	396.8	664.3	644.5	19.82	33.513		
2,900.0	2,881.4	2,794.3	2,753.8	10.8	10.4	175.31	115.9	415.5	697.2	676.6	20.59	33.867		
3,000.0	2,980.2	2,888.1	2,845.6	11.2	10.8	176.19	110.6	434.3	730.2	708.9	21.36	34.193		
3,100.0	3,079.0	2,981.9	2,937.4	11.6	11.2	177.00	105.2	453.0	763.4	741.3	22.13	34.492		
3,200.0	3,177.9	3,075.7	3,029.1	12.0	11.6	177.74	99.8	471.8	796.7	773.8	22.92	34.767		
3,300.0	3,276.7	3,169.6	3,120.9	12.4	12.0	178.42	94.4	490.5	830.1	806.4	23.70	35.022		
3,400.0	3,375.6	3,263.4	3,212.6	12.8	12.4	179.05	89.1	509.3	863.6	839.1	24.49	35.257		
3,500.0	3,474.4	3,357.2	3,304.4	13.2	12.9	179.63	83.7	528.0	897.2	871.9	25.29	35.476		
3,600.0	3,573.3	3,451.0	3,396.2	13.6	13.3	-179.83	78.3	546.8	930.9	904.8	26.09	35.679		
3,700.0	3,672.1	3,544.8	3,487.9	14.0	13.7	-179.32	72.9	565.5	964.6	937.7	26.89	35.867		
3,800.0	3,770.9	3,638.6	3,579.7	14.4	14.1	-178.85	67.6	584.3	998.4	970.7	27.70	36.043		
3,900.0	3,869.8	3,732.4	3,671.4	14.8	14.5	-178.42	62.2	603.0	1,032.3	1,003.8	28.51	36.208		
4,000.0	3,968.6	3,826.2	3,763.2	15.3	14.9	-178.00	56.8	621.8	1,066.2	1,036.9	29.32	36.362		
4,100.0	4,067.5	3,920.0	3,854.9	15.7	15.4	-177.62	51.4	640.5	1,100.1	1,070.0	30.14	36.506		
4,200.0	4,166.3	4,013.8	3,946.7	16.1	15.8	-177.26	46.1	659.2	1,134.1	1,103.2	30.95	36.641		
4,300.0	4,265.1	4,107.6	4,038.5	16.5	16.2	-176.91	40.7	678.0	1,168.1	1,136.4	31.77	36.769		
4,400.0	4,364.0	4,201.4	4,130.2	16.9	16.7	-176.59	35.3	696.7	1,202.2	1,169.6	32.59	36.889		
4,500.0	4,462.8	4,295.3	4,222.0	17.4	17.1	-176.29	29.9	715.5	1,236.3	1,202.9	33.41	37.002		
4,600.0	4,561.7	4,389.1	4,313.7	17.8	17.5	-176.00	24.6	734.2	1,270.4	1,236.2	34.24	37.108		
4,700.0	4,660.5	4,482.9	4,405.5	18.2	17.9	-175.73	19.2	753.0	1,304.6	1,269.5	35.06	37.209		
4,800.0	4,759.4	4,576.7	4,497.3	18.6	18.4	-175.47	13.8	771.7	1,338.8	1,302.9	35.89	37.305		
4,900.0	4,858.2	4,670.5	4,589.0	19.1	18.8	-175.22	8.4	790.5	1,373.0	1,336.3	36.72	37.395		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,000.0	4,957.0	4,764.3	4,680.8	19.5	19.2	-174.99	3.1	809.2	1,407.2	1,369.7	37.54	37.481		
5,100.0	5,055.9	4,858.1	4,772.5	19.9	19.7	-174.76	-2.3	828.0	1,441.4	1,403.1	38.37	37.562		
5,200.0	5,154.7	4,951.9	4,864.3	20.3	20.1	-174.55	-7.7	846.7	1,475.7	1,436.5	39.21	37.640		
5,300.0	5,253.6	5,045.7	4,956.1	20.8	20.5	-174.35	-13.1	865.5	1,509.9	1,469.9	40.02	37.725		
5,400.0	5,352.6	5,140.0	5,048.2	21.2	21.0	-174.19	-18.5	884.3	1,543.0	1,502.2	40.86	37.768		
5,500.0	5,451.8	5,234.8	5,140.9	21.6	21.4	-174.02	-23.9	903.3	1,574.5	1,532.8	41.68	37.778		
5,600.0	5,551.3	5,330.1	5,234.2	22.0	21.9	-173.86	-29.4	922.3	1,604.3	1,561.8	42.49	37.756		
5,700.0	5,650.9	5,425.8	5,327.9	22.4	22.3	-173.69	-34.9	941.5	1,632.5	1,589.2	43.30	37.705		
5,800.0	5,750.7	5,522.1	5,422.0	22.7	22.7	-173.53	-40.4	960.7	1,659.1	1,615.0	44.09	37.630		
5,900.0	5,850.5	5,618.8	5,516.6	23.1	23.2	-173.36	-45.9	980.0	1,683.9	1,639.1	44.86	37.535		
6,000.0	5,950.5	5,715.9	5,611.6	23.4	23.7	-173.19	-51.5	999.4	1,707.2	1,661.5	45.62	37.425		
6,100.0	6,050.5	5,813.4	5,706.9	23.6	24.1	-173.01	-57.1	1,018.9	1,728.7	1,682.4	46.33	37.316		
6,200.0	6,150.5	5,911.1	5,802.5	23.7	24.6	88.75	-62.7	1,038.4	1,748.8	1,701.9	46.86	37.322		
6,300.0	6,250.5	6,008.9	5,898.2	23.7	25.0	88.95	-68.3	1,058.0	1,768.7	1,721.3	47.36	37.343		
6,400.0	6,350.5	6,106.8	5,993.9	23.8	25.5	89.15	-73.9	1,077.5	1,788.6	1,740.8	47.88	37.360		
6,500.0	6,450.5	6,204.6	6,089.6	23.8	25.9	89.34	-79.5	1,097.1	1,808.6	1,760.2	48.39	37.373		
6,600.0	6,550.5	6,302.4	6,185.3	23.8	26.4	89.52	-85.1	1,116.6	1,828.5	1,779.6	48.91	37.384		
6,700.0	6,650.5	6,400.2	6,280.9	23.9	26.8	89.71	-90.7	1,136.2	1,848.5	1,799.1	49.44	37.392		
6,800.0	6,750.5	6,498.0	6,376.6	23.9	27.3	89.88	-96.3	1,155.7	1,868.5	1,818.6	49.96	37.397		
6,900.0	6,850.5	6,595.8	6,472.3	23.9	27.8	90.06	-101.9	1,175.3	1,888.5	1,838.0	50.50	37.400		
7,000.0	6,950.5	6,693.7	6,568.0	24.0	28.2	90.23	-107.5	1,194.8	1,908.6	1,857.5	51.03	37.400		
7,100.0	7,050.5	6,791.5	6,663.6	24.0	28.7	90.40	-113.1	1,214.4	1,928.6	1,877.0	51.57	37.398		
7,200.0	7,150.5	6,889.3	6,759.3	24.0	29.1	90.56	-118.7	1,233.9	1,948.7	1,896.6	52.11	37.393		
7,300.0	7,250.5	6,987.1	6,855.0	24.1	29.6	90.72	-124.3	1,253.5	1,968.8	1,916.1	52.66	37.387		
7,400.0	7,350.5	7,084.9	6,950.7	24.1	30.1	90.88	-129.9	1,273.0	1,988.9	1,935.6	53.21	37.379		
7,500.0	7,450.5	7,182.7	7,046.4	24.1	30.5	91.03	-135.5	1,292.6	2,009.0	1,955.2	53.76	37.369		
7,600.0	7,550.5	7,280.5	7,142.0	24.2	31.0	91.19	-141.2	1,312.1	2,029.1	1,974.8	54.31	37.358		
7,700.0	7,650.5	7,378.4	7,237.7	24.2	31.4	91.33	-146.8	1,331.7	2,049.2	1,994.3	54.87	37.345		
7,800.0	7,750.5	7,476.2	7,333.4	24.2	31.9	91.48	-152.4	1,351.2	2,069.4	2,013.9	55.43	37.330		
7,900.0	7,850.5	7,574.9	7,429.3	24.3	32.6	91.67	-160.0	1,377.8	2,088.8	2,032.5	56.29	37.106		
8,000.0	7,950.5	7,672.7	7,519.6	24.3	33.2	91.86	-167.4	1,403.5	2,105.8	2,048.6	57.20	36.815		
8,100.0	8,050.5	7,771.6	7,617.9	24.3	33.9	92.01	-173.7	1,425.5	2,120.2	2,062.2	58.05	36.523		
8,200.0	8,150.5	7,870.7	7,717.9	24.4	34.6	92.13	-178.9	1,443.7	2,132.0	2,073.2	58.84	36.235		
8,300.0	8,250.5	7,969.8	7,816.3	24.4	35.2	92.23	-183.0	1,458.0	2,141.3	2,081.7	59.55	35.955		
8,400.0	8,350.5	8,068.9	7,914.7	24.5	35.8	92.30	-185.9	1,468.2	2,147.8	2,087.7	60.18	35.688		
8,500.0	8,450.5	8,168.0	8,011.6	24.5	36.3	92.34	-187.6	1,474.3	2,151.8	2,091.1	60.70	35.450		
8,600.0	8,550.5	8,267.1	8,113.9	24.5	36.6	92.35	-188.2	1,476.2	2,153.0	2,092.1	60.95	35.322		
8,632.3	8,582.8	8,274.8	8,121.6	24.5	36.6	92.35	-188.2	1,476.2	2,153.0	2,092.0	60.97	35.315		
8,700.0	8,650.5	8,302.5	8,150.5	24.6	36.6	92.35	-188.2	1,476.2	2,153.0	2,092.0	61.00	35.296		
8,800.0	8,750.5	8,402.5	8,250.5	24.6	36.6	92.35	-188.2	1,476.2	2,153.0	2,092.0	61.05	35.268		
8,900.0	8,850.5	8,502.5	8,350.5	24.6	36.6	92.35	-188.2	1,476.2	2,153.0	2,091.9	61.10	35.239		
9,000.0	8,950.5	8,602.5	8,450.5	24.7	36.6	92.35	-188.2	1,476.2	2,153.0	2,091.9	61.15	35.211		
9,100.0	9,050.5	8,702.5	8,550.5	24.7	36.6	92.35	-188.2	1,476.2	2,153.0	2,091.8	61.20	35.182		
9,200.0	9,150.5	8,802.5	8,650.5	24.8	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.8	61.25	35.154		
9,300.0	9,250.5	8,902.5	8,750.5	24.8	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.7	61.30	35.125		
9,400.0	9,350.5	9,002.5	8,850.5	24.8	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.7	61.35	35.096		
9,500.0	9,450.5	9,102.5	8,950.5	24.9	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.6	61.40	35.066		
9,600.0	9,550.5	9,202.5	9,050.5	24.9	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.6	61.45	35.037		
9,700.0	9,650.5	9,302.5	9,150.5	25.0	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.5	61.50	35.007		
9,800.0	9,750.5	9,402.5	9,250.5	25.0	36.7	92.35	-188.2	1,476.2	2,153.0	2,091.5	61.55	34.978		
9,900.0	9,850.5	9,502.5	9,350.5	25.0	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.4	61.61	34.948		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-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)	Separation Factor			
10,000.0	9,950.5	10,102.5	9,950.5	25.1	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.3	61.66	34.918		
10,100.0	10,050.5	10,202.5	10,050.5	25.1	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.3	61.71	34.887		
10,200.0	10,150.5	10,302.5	10,150.5	25.2	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.2	61.77	34.857		
10,300.0	10,250.5	10,402.5	10,250.5	25.2	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.2	61.82	34.826		
10,400.0	10,350.5	10,502.5	10,350.5	25.2	36.8	92.35	-188.2	1,476.2	2,153.0	2,091.1	61.88	34.796		
10,500.0	10,450.5	10,602.5	10,450.5	25.3	36.9	92.35	-188.2	1,476.2	2,153.0	2,091.1	61.93	34.765		
10,600.0	10,550.5	10,702.5	10,550.5	25.3	36.9	92.35	-188.2	1,476.2	2,153.0	2,091.0	61.99	34.734		
10,700.0	10,650.5	10,802.5	10,650.5	25.4	36.9	92.35	-188.2	1,476.2	2,153.0	2,091.0	62.04	34.702		
10,800.0	10,750.5	10,902.5	10,750.5	25.4	36.9	92.35	-188.2	1,476.2	2,153.0	2,090.9	62.10	34.671		
10,900.0	10,850.5	11,002.5	10,850.5	25.4	36.9	92.35	-188.2	1,476.2	2,153.0	2,090.9	62.15	34.640		
11,000.0	10,950.5	11,102.5	10,950.5	25.5	37.0	92.35	-188.2	1,476.2	2,153.0	2,090.8	62.21	34.608		
11,100.0	11,050.5	11,202.5	11,050.5	25.5	37.0	92.35	-188.2	1,476.2	2,153.0	2,090.7	62.27	34.576		
11,200.0	11,150.5	11,302.5	11,150.5	25.6	37.0	92.35	-188.2	1,476.2	2,153.0	2,090.7	62.33	34.544		
11,300.0	11,250.1	11,402.2	11,250.1	25.6	37.0	-83.21	-188.2	1,476.2	2,152.2	2,089.9	62.32	34.536		
11,400.0	11,346.4	11,498.7	11,346.7	25.6	37.0	-84.24	-188.2	1,476.2	2,149.2	2,087.0	62.24	34.529		
11,500.0	11,435.0	11,590.8	11,438.2	25.6	37.0	-86.11	-178.9	1,476.1	2,144.7	2,082.6	62.09	34.543		
11,600.0	11,512.2	11,646.7	11,492.2	25.7	37.0	-87.76	-164.8	1,476.0	2,140.9	2,079.0	61.92	34.577		
11,675.3	11,560.7	11,668.8	11,513.1	25.7	37.0	-88.43	-157.5	1,476.0	2,139.8	2,078.1	61.77	34.642		
11,700.0	11,574.5	11,675.0	11,518.8	25.8	37.0	-88.58	-155.2	1,476.0	2,140.0	2,078.3	61.71	34.679		
11,800.0	11,619.3	11,675.0	11,518.8	25.9	37.0	-88.22	-155.2	1,476.0	2,143.0	2,081.5	61.47	34.863		
11,900.0	11,644.5	11,675.0	11,518.8	26.0	37.0	-87.38	-155.2	1,476.0	2,150.0	2,088.9	61.12	35.174		
12,000.0	11,650.0	11,656.4	11,501.4	26.1	37.0	-86.02	-161.7	1,476.0	2,160.7	2,099.9	60.75	35.569		
12,100.0	11,650.0	11,641.1	11,486.9	26.3	37.0	-85.61	-166.5	1,476.0	2,177.9	2,117.5	60.33	36.099		
12,200.1	11,650.0	11,625.0	11,471.4	26.5	37.0	-85.15	-171.0	1,476.1	2,202.7	2,142.8	59.88	36.788		
12,300.0	11,650.0	11,625.0	11,471.4	26.8	37.0	-85.15	-171.0	1,476.1	2,233.2	2,173.9	59.35	37.629		
12,400.0	11,650.0	11,608.6	11,455.5	27.1	37.0	-84.72	-175.1	1,476.1	2,267.6	2,208.8	58.82	38.549		
12,500.0	11,650.0	11,600.0	11,447.1	27.4	37.0	-84.49	-177.0	1,476.1	2,305.7	2,247.5	58.27	39.569		
12,600.0	11,650.0	11,600.0	11,447.1	27.7	37.0	-84.49	-177.0	1,476.1	2,347.5	2,289.8	57.70	40.682		
12,700.0	11,650.0	11,587.9	11,435.3	28.1	37.0	-84.17	-179.5	1,476.1	2,392.6	2,335.5	57.14	41.870		
12,800.0	11,650.0	11,575.0	11,422.6	28.5	37.0	-83.83	-181.8	1,476.2	2,441.0	2,384.4	56.59	43.138		
12,900.0	11,650.0	11,575.0	11,422.6	28.9	37.0	-83.83	-181.8	1,476.2	2,492.3	2,436.3	56.03	44.481		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.82	-0.4	-30.0	30.0	23.6	6.43	4.666	
100.0	100.0	100.0	100.0	3.2	3.2	-90.82	-0.4	-30.0	30.0	23.1	6.89	4.353	
200.0	200.0	200.0	200.0	3.5	3.5	-90.82	-0.4	-30.0	30.0	22.7	7.33	4.094	
300.0	300.0	300.0	300.0	3.7	3.7	-90.82	-0.4	-30.0	30.0	22.3	7.74	3.875	
400.0	400.0	400.0	400.0	3.9	3.9	-90.82	-0.4	-30.0	30.0	21.9	8.14	3.688	
500.0	500.0	500.0	500.0	4.1	4.1	-90.82	-0.4	-30.0	30.0	21.5	8.51	3.524	
600.0	600.0	600.0	600.0	4.2	4.2	-90.82	-0.4	-30.0	30.0	21.1	8.88	3.379	
700.0	700.0	700.0	700.0	4.4	4.4	-90.82	-0.4	-30.0	30.0	20.8	9.23	3.250	
800.0	800.0	800.0	800.0	4.6	4.6	-90.82	-0.4	-30.0	30.0	20.4	9.57	3.135	
900.0	900.0	900.0	900.0	4.8	4.8	-90.82	-0.4	-30.0	30.0	20.1	9.90	3.030	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.82	-0.4	-30.0	30.0	19.8	10.22	2.934	
1,100.0	1,100.0	1,099.0	1,098.9	5.2	5.2	8.09	-0.4	-31.7	30.0	19.3	10.71	2.800	
1,115.8	1,115.7	1,114.6	1,114.5	5.2	5.2	8.26	-0.4	-32.3	30.0	19.2	10.79	2.781 CC	
1,200.0	1,199.8	1,197.9	1,197.8	5.4	5.4	9.54	-0.4	-36.8	30.0	18.8	11.19	2.682	
1,300.0	1,299.5	1,296.9	1,296.3	5.7	5.7	11.95	-0.4	-45.4	30.1	18.4	11.68	2.574	
1,400.0	1,398.7	1,395.8	1,394.6	6.0	6.0	15.29	-0.4	-57.3	30.2	18.0	12.19	2.481 ES, SF	
1,500.0	1,497.6	1,494.8	1,492.3	6.1	6.3	19.09	-0.4	-72.6	31.3	18.7	12.57	2.487	
1,600.0	1,596.4	1,593.6	1,589.4	6.4	6.5	21.41	-0.4	-91.3	35.5	22.5	13.00	2.734	
1,700.0	1,695.3	1,693.5	1,687.2	6.7	6.8	22.74	-0.4	-111.5	41.3	27.7	13.54	3.047	
1,800.0	1,794.1	1,793.3	1,784.9	6.9	7.1	23.74	-0.4	-131.8	47.0	32.9	14.09	3.336	
1,900.0	1,892.9	1,893.1	1,882.7	7.2	7.4	24.52	-0.4	-152.0	52.7	38.1	14.66	3.596	
2,000.0	1,991.8	1,993.0	1,980.4	7.6	7.8	25.15	-0.4	-172.2	58.5	43.2	15.26	3.831	
2,100.0	2,090.6	2,092.8	2,078.2	7.9	8.1	25.67	-0.4	-192.5	64.2	48.3	15.89	4.043	
2,200.0	2,189.5	2,192.6	2,176.0	8.2	8.5	26.10	-0.4	-212.7	70.0	53.5	16.53	4.234	
2,300.0	2,288.3	2,292.5	2,273.7	8.6	8.8	26.47	-0.4	-233.0	75.8	58.6	17.20	4.406	
2,400.0	2,387.2	2,392.3	2,371.5	8.9	9.2	26.79	-0.4	-253.2	81.5	63.7	17.87	4.562	
2,500.0	2,486.0	2,492.1	2,469.2	9.3	9.6	27.06	-0.4	-273.4	87.3	68.7	18.57	4.702	
2,600.0	2,584.8	2,592.0	2,567.0	9.7	10.0	27.30	-0.4	-293.7	93.1	73.8	19.27	4.830	
2,700.0	2,683.7	2,691.8	2,664.8	10.0	10.4	27.51	-0.4	-313.9	98.8	78.9	19.98	4.946	
2,800.0	2,782.5	2,791.6	2,762.5	10.4	10.8	27.70	-0.4	-334.2	104.6	83.9	20.71	5.052	
2,900.0	2,881.4	2,891.5	2,860.3	10.8	11.2	27.87	-0.4	-354.4	110.4	89.0	21.44	5.149	
3,000.0	2,980.2	2,991.3	2,958.0	11.2	11.6	28.02	-0.4	-374.6	116.2	94.0	22.18	5.237	
3,100.0	3,079.0	3,091.1	3,055.8	11.6	12.0	28.16	-0.4	-394.9	121.9	99.0	22.93	5.318	
3,200.0	3,177.9	3,191.0	3,153.5	12.0	12.4	28.28	-0.4	-415.1	127.7	104.0	23.68	5.393	
3,300.0	3,276.7	3,290.8	3,251.3	12.4	12.9	28.39	-0.4	-435.4	133.5	109.1	24.44	5.462	
3,400.0	3,375.6	3,390.6	3,349.1	12.8	13.3	28.50	-0.4	-455.6	139.3	114.1	25.21	5.525	
3,500.0	3,474.4	3,490.5	3,446.8	13.2	13.7	28.60	-0.4	-475.8	145.1	119.1	25.98	5.584	
3,600.0	3,573.3	3,590.3	3,544.6	13.6	14.1	28.68	-0.4	-496.1	150.8	124.1	26.75	5.639	
3,700.0	3,672.1	3,690.1	3,642.3	14.0	14.6	28.77	-0.4	-516.3	156.6	129.1	27.53	5.689	
3,800.0	3,770.9	3,790.0	3,740.1	14.4	15.0	28.84	-0.4	-536.6	162.4	134.1	28.31	5.737	
3,900.0	3,869.8	3,889.8	3,837.9	14.8	15.5	28.91	-0.4	-556.8	168.2	139.1	29.09	5.781	
4,000.0	3,968.6	3,989.6	3,935.6	15.3	15.9	28.98	-0.4	-577.0	174.0	144.1	29.88	5.822	
4,100.0	4,067.5	4,089.5	4,033.4	15.7	16.3	29.04	-0.4	-597.3	179.7	149.1	30.67	5.860	
4,200.0	4,166.3	4,189.3	4,131.1	16.1	16.8	29.10	-0.4	-617.5	185.5	154.1	31.46	5.896	
4,300.0	4,265.1	4,289.1	4,228.9	16.5	17.2	29.16	-0.4	-637.8	191.3	159.0	32.26	5.930	
4,400.0	4,364.0	4,389.0	4,326.7	16.9	17.7	29.21	-0.4	-658.0	197.1	164.0	33.06	5.962	
4,500.0	4,462.8	4,488.8	4,424.4	17.4	18.1	29.26	-0.4	-678.3	202.9	169.0	33.85	5.992	
4,600.0	4,561.7	4,588.6	4,522.2	17.8	18.6	29.30	-0.4	-698.5	208.6	174.0	34.66	6.020	
4,700.0	4,660.5	4,688.4	4,619.9	18.2	19.0	29.35	-0.4	-718.7	214.4	179.0	35.46	6.047	
4,800.0	4,759.4	4,788.3	4,717.7	18.6	19.5	29.39	-0.4	-739.0	220.2	183.9	36.26	6.072	
4,900.0	4,858.2	4,888.1	4,815.5	19.1	19.9	29.43	-0.4	-759.2	226.0	188.9	37.07	6.096	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: Reference		0-r.5 MWD+IFR1 Offset		Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	4,957.0	4,987.9	4,913.2	19.5	20.4	29.46	-0.4	-779.5	231.8	193.9	37.88	6.119			
5,100.0	5,055.9	5,087.8	5,011.0	19.9	20.9	29.50	-0.4	-799.7	237.5	198.9	38.69	6.140			
5,200.0	5,154.7	5,187.6	5,108.7	20.3	21.3	29.53	-0.4	-819.9	243.3	203.8	39.50	6.161			
5,300.0	5,253.6	5,287.4	5,206.5	20.8	21.8	29.57	-0.4	-840.2	249.1	208.9	40.29	6.183			
5,400.0	5,352.6	5,387.2	5,304.2	21.2	22.2	29.49	-0.4	-860.4	256.0	214.9	41.13	6.225			
5,500.0	5,451.8	5,486.8	5,401.7	21.6	22.7	29.24	-0.4	-880.6	264.5	222.5	41.99	6.298			
5,600.0	5,551.3	5,586.3	5,499.2	22.0	23.1	28.84	-0.4	-900.8	274.4	231.5	42.88	6.400			
5,700.0	5,650.9	5,685.6	5,596.4	22.4	23.6	28.31	-0.4	-920.9	285.9	242.1	43.78	6.531			
5,800.0	5,750.7	5,784.7	5,693.4	22.7	24.0	27.67	-0.4	-941.0	298.9	254.2	44.69	6.690			
5,900.0	5,850.5	5,883.5	5,790.2	23.1	24.5	26.95	-0.4	-961.0	313.6	268.0	45.59	6.877			
6,000.0	5,950.5	5,985.0	5,889.6	23.4	25.0	26.16	-0.4	-981.4	329.6	283.1	46.50	7.088			
6,100.0	6,050.5	6,089.4	5,992.2	23.6	25.4	25.38	-0.4	-1,000.7	345.7	298.3	47.38	7.296			
6,200.0	6,150.5	6,194.3	6,095.6	23.7	25.9	-73.82	-0.4	-1,018.2	361.5	313.4	48.06	7.522			
6,300.0	6,250.5	6,299.7	6,199.8	23.7	26.4	-74.49	-0.4	-1,033.8	375.8	327.2	48.67	7.722			
6,400.0	6,350.5	6,405.7	6,304.9	23.8	26.8	-75.04	-0.4	-1,047.7	388.4	339.2	49.23	7.890			
6,500.0	6,450.5	6,512.1	6,410.7	23.8	27.2	-75.49	-0.4	-1,059.6	399.3	349.5	49.74	8.026			
6,600.0	6,550.5	6,619.0	6,517.1	23.8	27.6	-75.84	-0.4	-1,069.6	408.3	358.1	50.21	8.132			
6,700.0	6,650.5	6,726.2	6,624.0	23.9	28.0	-76.11	-0.4	-1,077.6	415.6	365.0	50.64	8.208			
6,800.0	6,750.5	6,833.6	6,731.3	23.9	28.4	-76.31	-0.4	-1,083.7	421.1	370.1	51.00	8.256			
6,900.0	6,850.5	6,941.3	6,838.8	23.9	28.8	-76.44	-0.4	-1,087.7	424.7	373.4	51.31	8.277			
7,000.0	6,950.5	7,049.1	6,946.6	24.0	29.0	-76.50	-0.4	-1,089.7	426.6	375.1	51.50	8.283			
7,100.0	7,050.5	7,152.9	7,050.5	24.0	29.1	-76.51	-0.4	-1,090.0	426.8	375.2	51.57	8.276			
7,200.0	7,150.5	7,252.9	7,150.5	24.0	29.1	-76.51	-0.4	-1,090.0	426.8	375.1	51.63	8.266			
7,300.0	7,250.5	7,352.9	7,250.5	24.1	29.2	-76.51	-0.4	-1,090.0	426.8	375.1	51.69	8.256			
7,400.0	7,350.5	7,452.9	7,350.5	24.1	29.2	-76.51	-0.4	-1,090.0	426.8	375.0	51.75	8.246			
7,500.0	7,450.5	7,552.9	7,450.5	24.1	29.2	-76.51	-0.4	-1,090.0	426.8	375.0	51.82	8.236			
7,600.0	7,550.5	7,652.9	7,550.5	24.2	29.2	-76.51	-0.4	-1,090.0	426.8	374.9	51.88	8.226			
7,700.0	7,650.5	7,752.9	7,650.5	24.2	29.3	-76.51	-0.4	-1,090.0	426.8	374.8	51.94	8.216			
7,800.0	7,750.5	7,852.9	7,750.5	24.2	29.3	-76.51	-0.4	-1,090.0	426.8	374.8	52.01	8.206			
7,900.0	7,850.5	7,952.9	7,850.5	24.3	29.3	-76.51	-0.4	-1,090.0	426.8	374.7	52.07	8.196			
8,000.0	7,950.5	8,052.9	7,950.5	24.3	29.4	-76.51	-0.4	-1,090.0	426.8	374.6	52.14	8.185			
8,100.0	8,050.5	8,152.9	8,050.5	24.3	29.4	-76.51	-0.4	-1,090.0	426.8	374.6	52.21	8.175			
8,200.0	8,150.5	8,252.9	8,150.5	24.4	29.4	-76.51	-0.4	-1,090.0	426.8	374.5	52.27	8.165			
8,300.0	8,250.5	8,352.9	8,250.5	24.4	29.4	-76.51	-0.4	-1,090.0	426.8	374.4	52.34	8.154			
8,400.0	8,350.5	8,452.9	8,350.5	24.5	29.5	-76.51	-0.4	-1,090.0	426.8	374.4	52.41	8.144			
8,500.0	8,450.5	8,552.9	8,450.5	24.5	29.5	-76.51	-0.4	-1,090.0	426.8	374.3	52.47	8.133			
8,600.0	8,550.5	8,652.9	8,550.5	24.5	29.5	-76.51	-0.4	-1,090.0	426.8	374.2	52.54	8.123			
8,700.0	8,650.5	8,752.9	8,650.5	24.6	29.6	-76.51	-0.4	-1,090.0	426.8	374.2	52.61	8.112			
8,800.0	8,750.5	8,852.9	8,750.5	24.6	29.6	-76.51	-0.4	-1,090.0	426.8	374.1	52.68	8.102			
8,900.0	8,850.5	8,952.9	8,850.5	24.6	29.6	-76.51	-0.4	-1,090.0	426.8	374.0	52.75	8.091			
9,000.0	8,950.5	9,052.9	8,950.5	24.7	29.7	-76.51	-0.4	-1,090.0	426.8	374.0	52.82	8.080			
9,100.0	9,050.5	9,152.9	9,050.5	24.7	29.7	-76.51	-0.4	-1,090.0	426.8	373.9	52.89	8.070			
9,200.0	9,150.5	9,252.9	9,150.5	24.8	29.7	-76.51	-0.4	-1,090.0	426.8	373.8	52.96	8.059			
9,300.0	9,250.5	9,352.9	9,250.5	24.8	29.8	-76.51	-0.4	-1,090.0	426.8	373.7	53.03	8.048			
9,400.0	9,350.5	9,452.9	9,350.5	24.8	29.8	-76.51	-0.4	-1,090.0	426.8	373.7	53.10	8.037			
9,500.0	9,450.5	9,552.9	9,450.5	24.9	29.8	-76.51	-0.4	-1,090.0	426.8	373.6	53.17	8.027			
9,600.0	9,550.5	9,652.9	9,550.5	24.9	29.8	-76.51	-0.4	-1,090.0	426.8	373.5	53.24	8.016			
9,700.0	9,650.5	9,752.9	9,650.5	25.0	29.9	-76.51	-0.4	-1,090.0	426.8	373.5	53.31	8.005			
9,800.0	9,750.5	9,852.9	9,750.5	25.0	29.9	-76.51	-0.4	-1,090.0	426.8	373.4	53.39	7.994			
9,900.0	9,850.5	9,952.9	9,850.5	25.0	29.9	-76.51	-0.4	-1,090.0	426.8	373.3	53.46	7.983			
10,000.0	9,950.5	10,052.9	9,950.5	25.1	30.0	-76.51	-0.4	-1,090.0	426.8	373.2	53.53	7.972			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	
10,100.0	10,050.5	10,152.9	10,050.5	25.1	30.0	-76.51	-0.4	-1,090.0	426.8	373.2	53.61	7.961	
10,200.0	10,150.5	10,252.9	10,150.5	25.2	30.0	-76.51	-0.4	-1,090.0	426.8	373.1	53.68	7.950	
10,300.0	10,250.5	10,352.9	10,250.5	25.2	30.1	-76.51	-0.4	-1,090.0	426.8	373.0	53.76	7.939	
10,400.0	10,350.5	10,452.9	10,350.5	25.2	30.1	-76.51	-0.4	-1,090.0	426.8	372.9	53.83	7.928	
10,500.0	10,450.5	10,552.9	10,450.5	25.3	30.1	-76.51	-0.4	-1,090.0	426.8	372.9	53.91	7.917	
10,600.0	10,550.5	10,652.9	10,550.5	25.3	30.2	-76.51	-0.4	-1,090.0	426.8	372.8	53.98	7.906	
10,700.0	10,650.5	10,752.9	10,650.5	25.4	30.2	-76.51	-0.4	-1,090.0	426.8	372.7	54.06	7.895	
10,800.0	10,750.5	10,852.9	10,750.5	25.4	30.3	-76.51	-0.4	-1,090.0	426.8	372.6	54.14	7.884	
10,900.0	10,850.5	10,952.9	10,850.5	25.4	30.3	-76.51	-0.4	-1,090.0	426.8	372.6	54.21	7.872	
11,000.0	10,950.5	11,052.9	10,950.5	25.5	30.3	-76.51	-0.4	-1,090.0	426.8	372.5	54.29	7.861	
11,100.0	11,050.5	11,152.9	11,050.5	25.5	30.4	-76.51	-0.4	-1,090.0	426.8	372.4	54.37	7.850	
11,200.0	11,150.5	11,252.9	11,150.5	25.6	30.4	-76.51	-0.4	-1,090.0	426.8	372.3	54.44	7.839	
11,300.0	11,250.1	11,352.6	11,250.1	25.6	30.4	108.76	-0.4	-1,090.0	428.8	374.5	54.29	7.898	
11,400.0	11,346.4	11,450.3	11,347.9	25.6	30.5	110.94	-0.5	-1,090.0	438.1	384.6	53.55	8.181	
11,500.0	11,435.0	11,588.9	11,484.2	25.6	30.4	114.57	-22.0	-1,089.9	452.1	400.2	51.92	8.708	
11,600.0	11,512.2	11,744.1	11,622.4	25.7	30.4	116.79	-91.1	-1,089.6	465.2	414.5	50.75	9.167	
11,700.0	11,574.5	11,911.2	11,738.1	25.8	30.5	117.04	-210.6	-1,089.1	474.6	424.1	50.49	9.399	
11,800.0	11,619.3	12,080.2	11,806.2	25.9	30.6	115.09	-364.2	-1,088.4	478.9	427.9	51.00	9.389	
11,900.0	11,644.5	12,223.4	11,820.0	26.0	30.8	111.89	-506.3	-1,087.7	479.2	427.5	51.72	9.266	
12,000.0	11,650.0	12,322.8	11,820.0	26.1	30.9	110.59	-605.8	-1,087.3	484.4	432.5	51.83	9.345	
12,100.0	11,650.0	12,422.7	11,820.0	26.3	31.1	110.35	-705.6	-1,086.8	489.1	437.2	51.90	9.424	
12,200.1	11,650.0	12,522.8	11,820.0	26.5	31.3	110.28	-805.7	-1,086.4	490.5	438.5	52.00	9.433	
12,300.0	11,650.0	12,622.7	11,820.0	26.8	31.5	110.29	-905.6	-1,085.9	490.3	438.2	52.14	9.404	
12,400.0	11,650.0	12,722.7	11,820.0	27.1	31.8	110.29	-1,005.6	-1,085.5	490.2	437.8	52.34	9.364	
12,500.0	11,650.0	12,822.7	11,820.0	27.4	32.1	110.30	-1,105.6	-1,085.0	490.0	437.3	52.61	9.313	
12,600.0	11,650.0	12,922.7	11,820.0	27.7	32.4	110.31	-1,205.6	-1,084.6	489.8	436.8	52.94	9.251	
12,700.0	11,650.0	13,022.7	11,820.0	28.1	32.8	110.32	-1,305.6	-1,084.1	489.6	436.2	53.34	9.179	
12,800.0	11,650.0	13,122.7	11,820.0	28.5	33.1	110.33	-1,405.6	-1,083.7	489.4	435.6	53.80	9.097	
12,900.0	11,650.0	13,222.7	11,820.0	28.9	33.5	110.34	-1,505.6	-1,083.2	489.2	434.9	54.31	9.007	
13,000.0	11,650.0	13,322.7	11,820.0	29.3	33.9	110.34	-1,605.6	-1,082.8	489.0	434.1	54.89	8.909	
13,100.0	11,650.0	13,422.7	11,820.0	29.8	34.4	110.35	-1,705.6	-1,082.3	488.8	433.3	55.52	8.804	
13,200.0	11,650.0	13,522.7	11,820.0	30.3	34.8	110.36	-1,805.6	-1,081.9	488.6	432.4	56.21	8.693	
13,300.0	11,650.0	13,622.7	11,820.0	30.8	35.3	110.37	-1,905.6	-1,081.5	488.4	431.5	56.95	8.576	
13,400.0	11,650.0	13,722.7	11,820.0	31.4	35.8	110.38	-2,005.6	-1,081.0	488.2	430.5	57.74	8.455	
13,500.0	11,650.0	13,822.7	11,820.0	32.0	36.4	110.39	-2,105.6	-1,080.6	488.0	429.5	58.58	8.331	
13,600.0	11,650.0	13,922.7	11,820.0	32.6	36.9	110.39	-2,205.6	-1,080.1	487.8	428.4	59.47	8.204	
13,700.0	11,650.0	14,022.7	11,820.0	33.2	37.5	110.40	-2,305.6	-1,079.7	487.6	427.2	60.40	8.074	
13,800.0	11,650.0	14,122.7	11,820.0	33.8	38.0	110.41	-2,405.6	-1,079.2	487.5	426.1	61.37	7.943	
13,900.0	11,650.0	14,222.7	11,820.0	34.4	38.6	110.42	-2,505.6	-1,078.8	487.3	424.9	62.38	7.811	
14,000.0	11,650.0	14,322.7	11,820.0	35.1	39.2	110.43	-2,605.6	-1,078.3	487.1	423.6	63.43	7.678	
14,100.0	11,650.0	14,422.7	11,820.0	35.8	39.8	110.44	-2,705.6	-1,077.9	486.9	422.4	64.52	7.546	
14,200.0	11,650.0	14,522.7	11,820.0	36.4	40.5	110.44	-2,805.6	-1,077.4	486.7	421.0	65.64	7.414	
14,300.0	11,650.0	14,622.7	11,820.0	37.1	41.1	110.45	-2,905.6	-1,077.0	486.5	419.7	66.80	7.283	
14,400.0	11,650.0	14,722.7	11,820.0	37.8	41.8	110.46	-3,005.6	-1,076.5	486.3	418.3	67.99	7.153	
14,500.0	11,650.0	14,822.7	11,820.0	38.6	42.4	110.47	-3,105.6	-1,076.1	486.1	416.9	69.20	7.025	
14,600.0	11,650.0	14,922.7	11,820.0	39.3	43.1	110.48	-3,205.6	-1,075.6	485.9	415.5	70.45	6.898	
14,700.0	11,650.0	15,022.7	11,820.0	40.0	43.8	110.49	-3,305.6	-1,075.2	485.7	414.0	71.72	6.773	
14,800.0	11,650.0	15,122.7	11,820.0	40.8	44.5	110.50	-3,405.6	-1,074.7	485.5	412.5	73.01	6.650	
14,900.0	11,650.0	15,222.7	11,820.0	41.6	45.2	110.50	-3,505.6	-1,074.3	485.3	411.0	74.33	6.529	
15,000.0	11,650.0	15,322.7	11,820.0	42.3	45.9	110.51	-3,605.6	-1,073.8	485.1	409.5	75.67	6.411	
15,100.0	11,650.0	15,422.7	11,820.0	43.1	46.7	110.52	-3,705.6	-1,073.4	484.9	407.9	77.04	6.295	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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 (usft)	Factor	
15,200.0	11,650.0	15,522.7	11,820.0	43.9	47.4	110.53	-3,805.6	-1,072.9	484.8	406.3	78.42	6.181	
15,300.0	11,650.0	15,622.7	11,820.0	44.7	48.2	110.54	-3,905.6	-1,072.5	484.6	404.7	79.82	6.070	
15,400.0	11,650.0	15,722.7	11,820.0	45.5	48.9	110.55	-4,005.6	-1,072.0	484.4	403.1	81.25	5.962	
15,500.0	11,650.0	15,822.7	11,820.0	46.3	49.7	110.56	-4,105.6	-1,071.6	484.2	401.5	82.68	5.856	
15,600.0	11,650.0	15,922.7	11,820.0	47.1	50.4	110.56	-4,205.6	-1,071.1	484.0	399.8	84.14	5.752	
15,700.0	11,650.0	16,022.7	11,820.0	47.9	51.2	110.57	-4,305.6	-1,070.7	483.8	398.2	85.61	5.651	
15,800.0	11,650.0	16,122.7	11,820.0	48.7	52.0	110.58	-4,405.6	-1,070.2	483.6	396.5	87.09	5.553	
15,900.0	11,650.0	16,222.7	11,820.0	49.6	52.8	110.59	-4,505.6	-1,069.8	483.4	394.8	88.59	5.456	
16,000.0	11,650.0	16,322.7	11,820.0	50.4	53.6	110.60	-4,605.6	-1,069.3	483.2	393.1	90.11	5.363	
16,100.0	11,650.0	16,422.7	11,820.0	51.2	54.4	110.61	-4,705.6	-1,068.9	483.0	391.4	91.63	5.271	
16,200.0	11,650.0	16,522.7	11,820.0	52.1	55.2	110.62	-4,805.6	-1,068.4	482.8	389.7	93.17	5.182	
16,300.0	11,650.0	16,622.7	11,820.0	52.9	56.0	110.62	-4,905.6	-1,068.0	482.6	387.9	94.72	5.096	
16,400.0	11,650.0	16,722.7	11,820.0	53.8	56.8	110.63	-5,005.6	-1,067.6	482.4	386.2	96.28	5.011	
16,500.0	11,650.0	16,822.7	11,820.0	54.6	57.6	110.64	-5,105.6	-1,067.1	482.3	384.4	97.84	4.929	
16,600.0	11,650.0	16,922.7	11,820.0	55.5	58.4	110.65	-5,205.6	-1,066.7	482.1	382.6	99.42	4.849	
16,700.0	11,650.0	17,022.7	11,820.0	56.3	59.2	110.66	-5,305.6	-1,066.2	481.9	380.9	101.01	4.770	
16,800.0	11,650.0	17,122.7	11,820.0	57.2	60.1	110.67	-5,405.6	-1,065.8	481.7	379.1	102.61	4.694	
16,900.0	11,650.0	17,222.7	11,820.0	58.1	60.9	110.68	-5,505.6	-1,065.3	481.5	377.3	104.21	4.620	
17,000.0	11,650.0	17,322.7	11,820.0	58.9	61.7	110.68	-5,605.6	-1,064.9	481.3	375.5	105.83	4.548	
17,100.0	11,650.0	17,422.7	11,820.0	59.8	62.6	110.69	-5,705.6	-1,064.4	481.1	373.7	107.45	4.477	
17,200.0	11,650.0	17,522.7	11,820.0	60.7	63.4	110.70	-5,805.6	-1,064.0	480.9	371.8	109.08	4.409	
17,300.0	11,650.0	17,622.7	11,820.0	61.5	64.3	110.71	-5,905.6	-1,063.5	480.7	370.0	110.72	4.342	
17,400.0	11,650.0	17,722.7	11,820.0	62.4	65.1	110.72	-6,005.6	-1,063.1	480.5	368.2	112.36	4.277	
17,500.0	11,650.0	17,822.7	11,820.0	63.3	66.0	110.73	-6,105.6	-1,062.6	480.3	366.3	114.01	4.213	
17,600.0	11,650.0	17,922.7	11,820.0	64.2	66.8	110.74	-6,205.5	-1,062.2	480.1	364.5	115.66	4.151	
17,700.0	11,650.0	18,022.7	11,820.0	65.1	67.7	110.74	-6,305.5	-1,061.7	479.9	362.6	117.32	4.091	
17,800.0	11,650.0	18,122.7	11,820.0	66.0	68.5	110.75	-6,405.5	-1,061.3	479.8	360.8	118.99	4.032	
17,900.0	11,650.0	18,222.7	11,820.0	66.9	69.4	110.76	-6,505.5	-1,060.8	479.6	358.9	120.66	3.974	
18,000.0	11,650.0	18,322.7	11,820.0	67.7	70.3	110.77	-6,605.5	-1,060.4	479.4	357.0	122.34	3.918	
18,100.0	11,650.0	18,422.7	11,820.0	68.6	71.1	110.78	-6,705.5	-1,059.9	479.2	355.2	124.02	3.864	
18,200.0	11,650.0	18,522.7	11,820.0	69.5	72.0	110.79	-6,805.5	-1,059.5	479.0	353.3	125.71	3.810	
18,300.0	11,650.0	18,622.7	11,820.0	70.4	72.9	110.80	-6,905.5	-1,059.0	478.8	351.4	127.40	3.758	
18,400.0	11,650.0	18,722.7	11,820.0	71.3	73.8	110.81	-7,005.5	-1,058.6	478.6	349.5	129.10	3.707	
18,500.0	11,650.0	18,822.7	11,820.0	72.2	74.6	110.81	-7,105.5	-1,058.1	478.4	347.6	130.80	3.658	
18,600.0	11,650.0	18,922.7	11,820.0	73.1	75.5	110.82	-7,205.5	-1,057.7	478.2	345.7	132.50	3.609	
18,700.0	11,650.0	19,022.7	11,820.0	74.0	76.4	110.83	-7,305.5	-1,057.2	478.0	343.8	134.21	3.562	
18,800.0	11,650.0	19,122.7	11,820.0	74.9	77.3	110.84	-7,405.5	-1,056.8	477.8	341.9	135.92	3.516	
18,900.0	11,650.0	19,222.7	11,820.0	75.9	78.2	110.85	-7,505.5	-1,056.3	477.6	340.0	137.64	3.470	
19,000.0	11,650.0	19,322.7	11,820.0	76.8	79.1	110.86	-7,605.5	-1,055.9	477.4	338.1	139.36	3.426	
19,100.0	11,650.0	19,422.7	11,820.0	77.7	80.0	110.87	-7,705.5	-1,055.4	477.3	336.2	141.08	3.383	
19,125.0	11,650.0	19,447.7	11,820.0	77.8	80.2	110.87	-7,730.6	-1,055.3	477.2	335.8	141.43	3.374	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	89.18	0.4	30.0	30.0	23.6	6.43	4.666	
100.0	100.0	100.0	100.0	3.2	3.2	89.18	0.4	30.0	30.0	23.1	6.89	4.353	
200.0	200.0	200.0	200.0	3.5	3.5	89.18	0.4	30.0	30.0	22.7	7.33	4.094	
300.0	300.0	300.0	300.0	3.7	3.7	89.18	0.4	30.0	30.0	22.3	7.74	3.875	
400.0	400.0	400.0	400.0	3.9	3.9	89.18	0.4	30.0	30.0	21.9	8.14	3.688	
500.0	500.0	500.0	500.0	4.1	4.1	89.18	0.4	30.0	30.0	21.5	8.51	3.524	
600.0	600.0	600.0	600.0	4.2	4.2	89.18	0.4	30.0	30.0	21.1	8.88	3.379	
700.0	700.0	700.0	700.0	4.4	4.4	89.18	0.4	30.0	30.0	20.8	9.23	3.250	
800.0	800.0	800.0	800.0	4.6	4.6	89.18	0.4	30.0	30.0	20.4	9.57	3.135	
900.0	900.0	900.0	900.0	4.8	4.8	89.18	0.4	30.0	30.0	20.1	9.90	3.030	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	0.4	30.0	30.0	19.8	10.22	2.934 CC	
1,100.0	1,100.0	1,101.0	1,101.0	5.2	5.2	-171.82	-0.1	28.3	30.0	19.3	10.71	2.807	
1,200.0	1,199.8	1,202.0	1,201.8	5.4	5.4	-170.12	-1.8	23.2	30.2	19.0	11.17	2.705	
1,300.0	1,299.5	1,303.0	1,302.4	5.7	5.7	-167.33	-4.6	14.8	30.5	18.9	11.64	2.624 ES	
1,400.0	1,398.7	1,404.0	1,402.6	6.0	6.0	-163.55	-8.5	3.0	31.1	19.0	12.11	2.570	
1,500.0	1,497.6	1,504.4	1,501.9	6.1	6.2	-158.89	-13.3	-11.7	31.8	19.4	12.34	2.574	
1,600.0	1,596.4	1,604.4	1,600.6	6.4	6.4	-154.19	-18.2	-26.7	32.5	19.7	12.73	2.551	
1,700.0	1,695.3	1,704.4	1,699.3	6.7	6.7	-149.71	-23.2	-41.7	33.4	20.3	13.11	2.545 SF	
1,800.0	1,794.1	1,804.3	1,798.0	6.9	7.0	-145.49	-28.1	-56.7	34.5	21.0	13.48	2.556	
1,900.0	1,892.9	1,904.3	1,896.7	7.2	7.3	-141.55	-33.1	-71.7	35.7	21.9	13.84	2.582	
2,000.0	1,991.8	2,004.2	1,995.4	7.6	7.6	-137.90	-38.0	-86.7	37.2	23.0	14.18	2.620	
2,100.0	2,090.6	2,104.2	2,094.1	7.9	7.9	-134.53	-43.0	-101.8	38.7	24.2	14.51	2.670	
2,200.0	2,189.5	2,204.2	2,192.8	8.2	8.2	-131.43	-47.9	-116.8	40.4	25.6	14.82	2.728	
2,300.0	2,288.3	2,304.1	2,291.5	8.6	8.6	-128.58	-52.9	-131.8	42.2	27.1	15.11	2.793	
2,400.0	2,387.2	2,404.1	2,390.2	8.9	9.0	-125.98	-57.8	-146.8	44.1	28.7	15.40	2.864	
2,500.0	2,486.0	2,504.0	2,488.9	9.3	9.3	-123.62	-62.8	-161.8	46.1	30.4	15.66	2.943	
2,600.0	2,584.8	2,603.6	2,587.5	9.7	9.7	-122.67	-67.3	-175.7	48.6	32.5	16.07	3.022	
2,700.0	2,683.7	2,703.2	2,686.2	10.0	10.1	-123.60	-71.4	-188.0	51.7	35.2	16.57	3.122	
2,800.0	2,782.5	2,802.7	2,785.1	10.4	10.4	-126.04	-74.9	-198.6	55.7	38.4	17.23	3.231	
2,900.0	2,881.4	2,902.1	2,884.0	10.8	10.8	-129.59	-77.8	-207.6	60.5	42.5	18.04	3.356	
3,000.0	2,980.2	3,001.2	2,982.8	11.2	11.1	-133.83	-80.3	-214.9	66.5	47.6	18.98	3.506	
3,100.0	3,079.0	3,100.0	3,081.4	11.6	11.4	-138.41	-82.1	-220.6	73.9	53.9	20.02	3.694	
3,200.0	3,177.9	3,198.6	3,179.9	12.0	11.7	-143.00	-83.5	-224.7	82.9	61.8	21.10	3.929	
3,300.0	3,276.7	3,296.7	3,278.0	12.4	12.0	-147.37	-84.3	-227.1	93.5	71.4	22.16	4.221	
3,400.0	3,375.6	3,394.4	3,375.6	12.8	12.2	-151.41	-84.6	-228.0	105.9	82.8	23.10	4.585	
3,500.0	3,474.4	3,493.1	3,474.4	13.2	12.6	-154.88	-84.6	-228.0	119.5	95.2	24.26	4.927	
3,600.0	3,573.3	3,592.0	3,573.3	13.6	12.6	-157.64	-84.6	-228.0	133.4	108.4	25.02	5.334	
3,700.0	3,672.1	3,690.8	3,672.1	14.0	12.7	-159.88	-84.6	-228.0	147.6	121.9	25.70	5.744	
3,800.0	3,770.9	3,789.7	3,770.9	14.4	12.8	-161.73	-84.6	-228.0	162.0	135.6	26.34	6.149	
3,900.0	3,869.8	3,888.5	3,869.8	14.8	12.8	-163.27	-84.6	-228.0	176.4	149.5	26.95	6.547	
4,000.0	3,968.6	3,987.4	3,968.6	15.3	12.9	-164.58	-84.6	-228.0	191.0	163.5	27.55	6.935	
4,100.0	4,067.5	4,086.2	4,067.5	15.7	12.9	-165.70	-84.6	-228.0	205.7	177.6	28.13	7.313	
4,200.0	4,166.3	4,185.0	4,166.3	16.1	13.0	-166.68	-84.6	-228.0	220.5	191.8	28.71	7.680	
4,300.0	4,265.1	4,283.9	4,265.1	16.5	13.1	-167.53	-84.6	-228.0	235.3	206.0	29.28	8.036	
4,400.0	4,364.0	4,382.7	4,364.0	16.9	13.1	-168.28	-84.6	-228.0	250.1	220.3	29.84	8.382	
4,500.0	4,462.8	4,481.6	4,462.8	17.4	13.2	-168.95	-84.6	-228.0	265.0	234.6	30.40	8.716	
4,600.0	4,561.7	4,580.4	4,561.7	17.8	13.3	-169.54	-84.6	-228.0	279.9	249.0	30.96	9.040	
4,700.0	4,660.5	4,679.2	4,660.5	18.2	13.3	-170.08	-84.6	-228.0	294.9	263.3	31.52	9.354	
4,800.0	4,759.4	4,778.1	4,759.4	18.6	13.4	-170.56	-84.6	-228.0	309.8	277.7	32.08	9.657	
4,900.0	4,858.2	4,876.9	4,858.2	19.1	13.4	-171.00	-84.6	-228.0	324.8	292.2	32.64	9.950	
5,000.0	4,957.0	4,975.8	4,957.0	19.5	13.5	-171.40	-84.6	-228.0	339.8	306.6	33.20	10.234	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,100.0	5,055.9	5,074.6	5,055.9	19.9	13.6	-171.77	-84.6	-228.0	354.8	321.1	33.77	10.509	
5,200.0	5,154.7	5,173.5	5,154.7	20.3	13.6	-172.10	-84.6	-228.0	369.9	335.5	34.33	10.775	
5,300.0	5,253.6	5,272.3	5,253.6	20.8	13.7	-172.42	-84.6	-228.0	384.9	350.0	34.87	11.036	
5,400.0	5,352.6	5,371.3	5,352.6	21.2	13.8	-172.70	-84.6	-228.0	398.7	363.2	35.43	11.251	
5,500.0	5,451.8	5,470.6	5,451.8	21.6	13.8	-172.93	-84.6	-228.0	410.7	374.8	35.97	11.419	
5,600.0	5,551.3	5,570.0	5,551.3	22.0	13.9	-173.12	-84.6	-228.0	421.1	384.6	36.49	11.539	
5,700.0	5,650.9	5,669.7	5,650.9	22.4	14.0	-173.27	-84.6	-228.0	429.8	392.8	37.00	11.615	
5,800.0	5,750.7	5,769.4	5,750.7	22.7	14.0	-173.38	-84.6	-228.0	436.7	399.2	37.48	11.650	
5,900.0	5,850.5	5,869.3	5,850.5	23.1	14.1	-173.46	-84.6	-228.0	441.9	403.9	37.94	11.647	
6,000.0	5,950.5	5,969.2	5,950.5	23.4	14.1	-173.52	-84.6	-228.0	445.3	407.0	38.36	11.610	
6,100.0	6,050.5	6,069.2	6,050.5	23.6	14.2	-173.55	-84.6	-228.0	447.1	408.3	38.72	11.545	
6,200.0	6,150.5	6,169.2	6,150.5	23.7	14.3	88.02	-84.6	-228.0	447.3	408.4	38.84	11.514	
6,300.0	6,250.5	6,269.2	6,250.5	23.7	14.3	88.02	-84.6	-228.0	447.3	408.3	38.93	11.489	
6,400.0	6,350.5	6,369.2	6,350.5	23.8	14.4	88.02	-84.6	-228.0	447.3	408.2	39.02	11.463	
6,500.0	6,450.5	6,469.2	6,450.5	23.8	14.5	88.02	-84.6	-228.0	447.3	408.2	39.10	11.438	
6,600.0	6,550.5	6,569.2	6,550.5	23.8	14.5	88.02	-84.6	-228.0	447.3	408.1	39.19	11.412	
6,700.0	6,650.5	6,669.2	6,650.5	23.9	14.6	88.02	-84.6	-228.0	447.3	408.0	39.28	11.387	
6,800.0	6,750.5	6,769.2	6,750.5	23.9	14.7	88.02	-84.6	-228.0	447.3	407.9	39.37	11.361	
6,900.0	6,850.5	6,869.2	6,850.5	23.9	14.7	88.02	-84.6	-228.0	447.3	407.8	39.46	11.336	
7,000.0	6,950.5	6,969.2	6,950.5	24.0	14.8	88.02	-84.6	-228.0	447.3	407.7	39.54	11.310	
7,100.0	7,050.5	7,069.2	7,050.5	24.0	14.9	88.02	-84.6	-228.0	447.3	407.6	39.63	11.285	
7,200.0	7,150.5	7,169.2	7,150.5	24.0	14.9	88.02	-84.6	-228.0	447.3	407.5	39.72	11.259	
7,300.0	7,250.5	7,269.2	7,250.5	24.1	15.0	88.02	-84.6	-228.0	447.3	407.4	39.82	11.233	
7,400.0	7,350.5	7,369.2	7,350.5	24.1	15.1	88.02	-84.6	-228.0	447.3	407.4	39.91	11.208	
7,500.0	7,450.5	7,469.2	7,450.5	24.1	15.1	88.02	-84.6	-228.0	447.3	407.3	40.00	11.182	
7,600.0	7,550.5	7,569.2	7,550.5	24.2	15.2	88.02	-84.6	-228.0	447.3	407.2	40.09	11.157	
7,700.0	7,650.5	7,669.2	7,650.5	24.2	15.3	88.02	-84.6	-228.0	447.3	407.1	40.18	11.131	
7,800.0	7,750.5	7,769.2	7,750.5	24.2	15.4	88.02	-84.6	-228.0	447.3	407.0	40.28	11.105	
7,900.0	7,850.5	7,869.2	7,850.5	24.3	15.4	88.02	-84.6	-228.0	447.3	406.9	40.37	11.080	
8,000.0	7,950.5	7,969.2	7,950.5	24.3	15.5	88.02	-84.6	-228.0	447.3	406.8	40.46	11.054	
8,100.0	8,050.5	8,069.2	8,050.5	24.3	15.6	88.02	-84.6	-228.0	447.3	406.7	40.56	11.028	
8,200.0	8,150.5	8,169.2	8,150.5	24.4	15.6	88.02	-84.6	-228.0	447.3	406.6	40.65	11.003	
8,300.0	8,250.5	8,269.2	8,250.5	24.4	15.7	88.02	-84.6	-228.0	447.3	406.5	40.75	10.977	
8,400.0	8,350.5	8,369.2	8,350.5	24.5	15.8	88.02	-84.6	-228.0	447.3	406.4	40.84	10.951	
8,500.0	8,450.5	8,469.2	8,450.5	24.5	15.8	88.02	-84.6	-228.0	447.3	406.3	40.94	10.926	
8,600.0	8,550.5	8,569.2	8,550.5	24.5	15.9	88.02	-84.6	-228.0	447.3	406.2	41.03	10.900	
8,700.0	8,650.5	8,669.2	8,650.5	24.6	16.0	88.02	-84.6	-228.0	447.3	406.1	41.13	10.875	
8,800.0	8,750.5	8,769.2	8,750.5	24.6	16.0	88.02	-84.6	-228.0	447.3	406.0	41.23	10.849	
8,900.0	8,850.5	8,869.2	8,850.5	24.6	16.1	88.02	-84.6	-228.0	447.3	405.9	41.32	10.823	
9,000.0	8,950.5	8,969.2	8,950.5	24.7	16.2	88.02	-84.6	-228.0	447.3	405.8	41.42	10.798	
9,100.0	9,050.5	9,069.2	9,050.5	24.7	16.2	88.02	-84.6	-228.0	447.3	405.7	41.52	10.772	
9,200.0	9,150.5	9,169.2	9,150.5	24.8	16.3	88.02	-84.6	-228.0	447.3	405.6	41.62	10.747	
9,300.0	9,250.5	9,269.2	9,250.5	24.8	16.4	88.02	-84.6	-228.0	447.3	405.5	41.72	10.721	
9,400.0	9,350.5	9,369.2	9,350.5	24.8	16.5	88.02	-84.6	-228.0	447.3	405.4	41.82	10.696	
9,500.0	9,450.5	9,469.2	9,450.5	24.9	16.5	88.02	-84.6	-228.0	447.3	405.3	41.92	10.670	
9,600.0	9,550.5	9,569.2	9,550.5	24.9	16.6	88.02	-84.6	-228.0	447.3	405.2	42.02	10.645	
9,700.0	9,650.5	9,669.2	9,650.5	25.0	16.7	88.02	-84.6	-228.0	447.3	405.1	42.12	10.619	
9,800.0	9,750.5	9,769.2	9,750.5	25.0	16.7	88.02	-84.6	-228.0	447.3	405.0	42.22	10.594	
9,900.0	9,850.5	9,869.2	9,850.5	25.0	16.8	88.02	-84.6	-228.0	447.3	404.9	42.32	10.569	
10,000.0	9,950.5	9,969.2	9,950.5	25.1	16.9	88.02	-84.6	-228.0	447.3	404.8	42.42	10.543	
10,100.0	10,050.5	10,069.2	10,050.5	25.1	16.9	88.02	-84.6	-228.0	447.3	404.7	42.52	10.518	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	
10,200.0	10,150.5	10,169.2	10,150.5	25.2	17.0	88.02	-84.6	-228.0	447.3	404.6	42.63	10.493	
10,300.0	10,250.5	10,269.2	10,250.5	25.2	17.1	88.02	-84.6	-228.0	447.3	404.5	42.73	10.468	
10,400.0	10,350.5	10,369.2	10,350.5	25.2	17.2	88.02	-84.6	-228.0	447.3	404.4	42.83	10.442	
10,500.0	10,450.5	10,469.2	10,450.5	25.3	17.2	88.02	-84.6	-228.0	447.3	404.3	42.94	10.417	
10,600.0	10,550.5	10,569.2	10,550.5	25.3	17.3	88.02	-84.6	-228.0	447.3	404.2	43.04	10.392	
10,700.0	10,650.5	10,669.2	10,650.5	25.4	17.4	88.02	-84.6	-228.0	447.3	404.1	43.14	10.367	
10,800.0	10,750.5	10,769.2	10,750.5	25.4	17.4	88.02	-84.6	-228.0	447.3	404.0	43.25	10.342	
10,900.0	10,850.5	10,869.2	10,850.5	25.4	17.5	88.02	-84.6	-228.0	447.3	403.9	43.35	10.317	
11,000.0	10,950.5	10,969.2	10,950.5	25.5	17.6	88.02	-84.6	-228.0	447.3	403.8	43.46	10.292	
11,100.0	11,050.5	11,069.2	11,050.5	25.5	17.7	88.02	-84.6	-228.0	447.3	403.7	43.56	10.267	
11,200.0	11,150.5	11,169.2	11,150.5	25.6	17.7	88.02	-84.6	-228.0	447.3	403.6	43.67	10.242	
11,300.0	11,250.1	11,268.8	11,250.1	25.6	17.8	-88.12	-84.6	-228.0	447.0	403.2	43.76	10.215	
11,365.0	11,313.4	11,332.1	11,313.4	25.6	17.8	-90.00	-84.6	-228.0	446.8	402.9	43.86	10.185	
11,400.0	11,346.4	11,365.1	11,346.4	25.6	17.9	-91.38	-84.6	-228.0	446.9	403.0	43.93	10.173	
11,500.0	11,435.0	11,462.4	11,442.9	25.6	17.9	-95.54	-95.2	-226.9	449.5	405.4	44.11	10.190	
11,600.0	11,512.2	11,568.1	11,542.9	25.7	17.9	-99.59	-128.4	-223.4	455.3	410.9	44.40	10.254	
11,700.0	11,574.5	11,684.2	11,641.4	25.8	18.0	-103.37	-189.2	-217.0	463.6	418.7	44.93	10.319	
11,800.0	11,619.3	11,812.7	11,729.6	25.9	18.2	-106.65	-281.5	-207.3	473.2	427.4	45.77	10.337	
11,900.0	11,644.5	11,954.0	11,794.3	26.0	18.3	-109.11	-405.8	-194.2	482.1	435.3	46.80	10.301	
12,000.0	11,650.0	12,105.7	11,819.9	26.1	18.6	-110.38	-553.9	-178.7	488.3	440.7	47.59	10.260	
12,100.0	11,650.0	12,226.0	11,820.0	26.3	18.8	-110.26	-673.8	-168.4	491.2	442.9	48.23	10.184	
12,200.1	11,650.0	12,345.3	11,820.0	26.5	19.1	-110.16	-793.0	-163.2	493.4	444.5	48.94	10.083	
12,300.0	11,650.0	12,456.0	11,820.0	26.8	19.5	-110.14	-903.6	-162.4	493.8	444.1	49.72	9.932	
12,400.0	11,650.0	12,556.0	11,820.0	27.1	19.8	-110.15	-1,003.6	-162.4	493.5	442.9	50.61	9.751	
12,500.0	11,650.0	12,656.0	11,820.0	27.4	20.2	-110.16	-1,103.6	-162.4	493.3	441.7	51.56	9.567	
12,600.0	11,650.0	12,756.0	11,820.0	27.7	20.7	-110.17	-1,203.6	-162.4	493.1	440.5	52.56	9.381	
12,700.0	11,650.0	12,856.0	11,820.0	28.1	21.2	-110.18	-1,303.6	-162.5	492.8	439.2	53.60	9.194	
12,800.0	11,650.0	12,956.0	11,820.0	28.5	21.7	-110.19	-1,403.6	-162.5	492.6	437.9	54.69	9.007	
12,900.0	11,650.0	13,056.0	11,820.0	28.9	22.2	-110.20	-1,503.6	-162.5	492.3	436.5	55.82	8.820	
13,000.0	11,650.0	13,156.0	11,820.0	29.3	22.8	-110.21	-1,603.6	-162.5	492.1	435.1	56.99	8.635	
13,100.0	11,650.0	13,256.0	11,820.0	29.8	23.4	-110.22	-1,703.6	-162.5	491.9	433.7	58.19	8.453	
13,200.0	11,650.0	13,356.0	11,820.0	30.3	24.1	-110.23	-1,803.6	-162.5	491.6	432.2	59.43	8.272	
13,300.0	11,650.0	13,456.0	11,820.0	30.8	24.7	-110.24	-1,903.6	-162.5	491.4	430.7	60.70	8.095	
13,400.0	11,650.0	13,556.0	11,820.0	31.4	25.4	-110.25	-2,003.6	-162.6	491.1	429.1	62.00	7.922	
13,500.0	11,650.0	13,656.0	11,820.0	32.0	26.1	-110.26	-2,103.6	-162.6	490.9	427.6	63.33	7.752	
13,600.0	11,650.0	13,756.0	11,820.0	32.6	26.8	-110.27	-2,203.6	-162.6	490.7	426.0	64.68	7.586	
13,700.0	11,650.0	13,856.0	11,820.0	33.2	27.6	-110.28	-2,303.6	-162.6	490.4	424.4	66.06	7.424	
13,800.0	11,650.0	13,956.0	11,820.0	33.8	28.3	-110.29	-2,403.6	-162.6	490.2	422.7	67.46	7.266	
13,900.0	11,650.0	14,056.0	11,820.0	34.4	29.1	-110.30	-2,503.6	-162.6	489.9	421.0	68.89	7.112	
14,000.0	11,650.0	14,156.0	11,820.0	35.1	29.8	-110.31	-2,603.6	-162.6	489.7	419.4	70.33	6.962	
14,100.0	11,650.0	14,256.0	11,820.0	35.8	30.6	-110.32	-2,703.6	-162.7	489.4	417.7	71.80	6.817	
14,200.0	11,650.0	14,356.0	11,820.0	36.4	31.4	-110.33	-2,803.6	-162.7	489.2	415.9	73.28	6.676	
14,300.0	11,650.0	14,456.0	11,820.0	37.1	32.2	-110.35	-2,903.6	-162.7	489.0	414.2	74.78	6.539	
14,400.0	11,650.0	14,556.0	11,820.0	37.8	33.0	-110.36	-3,003.6	-162.7	488.7	412.4	76.29	6.406	
14,500.0	11,650.0	14,656.0	11,820.0	38.6	33.9	-110.37	-3,103.6	-162.7	488.5	410.7	77.82	6.277	
14,600.0	11,650.0	14,756.0	11,820.0	39.3	34.7	-110.38	-3,203.6	-162.7	488.2	408.9	79.37	6.152	
14,700.0	11,650.0	14,856.0	11,820.0	40.0	35.5	-110.39	-3,303.6	-162.7	488.0	407.1	80.92	6.030	
14,800.0	11,650.0	14,956.0	11,820.0	40.8	36.4	-110.40	-3,403.6	-162.8	487.8	405.3	82.49	5.913	
14,900.0	11,650.0	15,056.0	11,820.0	41.6	37.2	-110.41	-3,503.6	-162.8	487.5	403.4	84.08	5.799	
15,000.0	11,650.0	15,156.0	11,820.0	42.3	38.1	-110.42	-3,603.6	-162.8	487.3	401.6	85.67	5.688	
15,100.0	11,650.0	15,256.0	11,820.0	43.1	38.9	-110.43	-3,703.6	-162.8	487.0	399.8	87.27	5.581	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
15,200.0	11,650.0	15,356.0	11,820.0	43.9	39.8	-110.44	-3,803.6	-162.8	486.8	397.9	88.89	5.477
15,300.0	11,650.0	15,456.0	11,820.0	44.7	40.6	-110.45	-3,903.6	-162.8	486.6	396.0	90.51	5.376
15,400.0	11,650.0	15,556.0	11,820.0	45.5	41.5	-110.46	-4,003.6	-162.8	486.3	394.2	92.14	5.278
15,500.0	11,650.0	15,656.0	11,820.0	46.3	42.4	-110.47	-4,103.6	-162.9	486.1	392.3	93.78	5.183
15,600.0	11,650.0	15,756.0	11,820.0	47.1	43.3	-110.48	-4,203.6	-162.9	485.8	390.4	95.43	5.091
15,700.0	11,650.0	15,856.0	11,820.0	47.9	44.1	-110.49	-4,303.6	-162.9	485.6	388.5	97.08	5.002
15,800.0	11,650.0	15,956.0	11,820.0	48.7	45.0	-110.50	-4,403.6	-162.9	485.4	386.6	98.75	4.915
15,900.0	11,650.0	16,056.0	11,820.0	49.6	45.9	-110.51	-4,503.6	-162.9	485.1	384.7	100.42	4.831
16,000.0	11,650.0	16,156.0	11,820.0	50.4	46.8	-110.52	-4,603.6	-162.9	484.9	382.8	102.09	4.749
16,100.0	11,650.0	16,256.0	11,820.0	51.2	47.7	-110.54	-4,703.6	-162.9	484.6	380.9	103.77	4.670
16,200.0	11,650.0	16,356.0	11,820.0	52.1	48.6	-110.55	-4,803.6	-163.0	484.4	378.9	105.46	4.593
16,300.0	11,650.0	16,456.0	11,820.0	52.9	49.5	-110.56	-4,903.6	-163.0	484.1	377.0	107.16	4.518
16,400.0	11,650.0	16,556.0	11,820.0	53.8	50.4	-110.57	-5,003.6	-163.0	483.9	375.1	108.86	4.445
16,500.0	11,650.0	16,656.0	11,820.0	54.6	51.3	-110.58	-5,103.6	-163.0	483.7	373.1	110.56	4.375
16,600.0	11,650.0	16,756.0	11,820.0	55.5	52.2	-110.59	-5,203.6	-163.0	483.4	371.2	112.27	4.306
16,700.0	11,650.0	16,856.0	11,820.0	56.3	53.1	-110.60	-5,303.6	-163.0	483.2	369.2	113.98	4.239
16,800.0	11,650.0	16,956.0	11,820.0	57.2	54.0	-110.61	-5,403.6	-163.0	482.9	367.2	115.70	4.174
16,900.0	11,650.0	17,056.0	11,820.0	58.1	54.9	-110.62	-5,503.6	-163.1	482.7	365.3	117.42	4.111
17,000.0	11,650.0	17,156.0	11,820.0	58.9	55.8	-110.63	-5,603.6	-163.1	482.5	363.3	119.15	4.049
17,100.0	11,650.0	17,256.0	11,820.0	59.8	56.8	-110.64	-5,703.6	-163.1	482.2	361.3	120.88	3.989
17,200.0	11,650.0	17,356.0	11,820.0	60.7	57.7	-110.65	-5,803.6	-163.1	482.0	359.4	122.61	3.931
17,300.0	11,650.0	17,456.0	11,820.0	61.5	58.6	-110.66	-5,903.6	-163.1	481.7	357.4	124.35	3.874
17,400.0	11,650.0	17,556.0	11,820.0	62.4	59.5	-110.67	-6,003.6	-163.1	481.5	355.4	126.09	3.819
17,500.0	11,650.0	17,656.0	11,820.0	63.3	60.4	-110.69	-6,103.6	-163.1	481.3	353.4	127.83	3.765
17,600.0	11,650.0	17,756.0	11,820.0	64.2	61.3	-110.70	-6,203.6	-163.2	481.0	351.4	129.58	3.712
17,700.0	11,650.0	17,856.0	11,820.0	65.1	62.3	-110.71	-6,303.6	-163.2	480.8	349.5	131.33	3.661
17,800.0	11,650.0	17,956.0	11,820.0	66.0	63.2	-110.72	-6,403.6	-163.2	480.5	347.5	133.08	3.611
17,900.0	11,650.0	18,056.0	11,820.0	66.9	64.1	-110.73	-6,503.6	-163.2	480.3	345.5	134.84	3.562
18,000.0	11,650.0	18,156.0	11,820.0	67.7	65.0	-110.74	-6,603.6	-163.2	480.1	343.5	136.60	3.514
18,100.0	11,650.0	18,256.0	11,820.0	68.6	66.0	-110.75	-6,703.6	-163.2	479.8	341.5	138.36	3.468
18,200.0	11,650.0	18,356.0	11,820.0	69.5	66.9	-110.76	-6,803.6	-163.2	479.6	339.5	140.12	3.423
18,300.0	11,650.0	18,456.0	11,820.0	70.4	67.8	-110.77	-6,903.6	-163.3	479.3	337.5	141.89	3.378
18,400.0	11,650.0	18,556.0	11,820.0	71.3	68.8	-110.78	-7,003.6	-163.3	479.1	335.4	143.65	3.335
18,500.0	11,650.0	18,656.0	11,820.0	72.2	69.7	-110.79	-7,103.6	-163.3	478.9	333.4	145.42	3.293
18,600.0	11,650.0	18,756.0	11,820.0	73.1	70.6	-110.81	-7,203.6	-163.3	478.6	331.4	147.19	3.252
18,700.0	11,650.0	18,856.0	11,820.0	74.0	71.5	-110.82	-7,303.6	-163.3	478.4	329.4	148.97	3.211
18,800.0	11,650.0	18,956.0	11,820.0	74.9	72.5	-110.83	-7,403.6	-163.3	478.1	327.4	150.74	3.172
18,900.0	11,650.0	19,056.0	11,820.0	75.9	73.4	-110.84	-7,503.6	-163.3	477.9	325.4	152.52	3.133
19,000.0	11,650.0	19,156.0	11,820.0	76.8	74.3	-110.85	-7,603.6	-163.4	477.7	323.4	154.30	3.096
19,100.0	11,650.0	19,256.0	11,820.0	77.7	75.3	-110.86	-7,703.6	-163.4	477.4	321.3	156.08	3.059
19,123.0	11,650.0	19,278.3	11,820.0	77.8	75.5	-110.86	-7,725.9	-163.4	477.4	321.0	156.41	3.052
19,125.0	11,650.0	19,278.3	11,820.0	77.8	75.5	-110.86	-7,725.9	-163.4	477.4	321.0	156.41	3.052

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	89.18	0.9	60.0	60.0	53.6	6.43	9.333		
100.0	100.0	100.0	100.0	3.2	3.2	89.18	0.9	60.0	60.0	53.1	6.89	8.705		
200.0	200.0	200.0	200.0	3.5	3.5	89.18	0.9	60.0	60.0	52.7	7.33	8.188		
300.0	300.0	300.0	300.0	3.7	3.7	89.18	0.9	60.0	60.0	52.3	7.74	7.751		
400.0	400.0	400.0	400.0	3.9	3.9	89.18	0.9	60.0	60.0	51.9	8.14	7.375		
500.0	500.0	500.0	500.0	4.1	4.1	89.18	0.9	60.0	60.0	51.5	8.51	7.048		
600.0	600.0	600.0	600.0	4.2	4.2	89.18	0.9	60.0	60.0	51.1	8.88	6.759		
700.0	700.0	700.0	700.0	4.4	4.4	89.18	0.9	60.0	60.0	50.8	9.23	6.501		
800.0	800.0	800.0	800.0	4.6	4.6	89.18	0.9	60.0	60.0	50.4	9.57	6.269		
900.0	900.0	900.0	900.0	4.8	4.8	89.18	0.9	60.0	60.0	50.1	9.90	6.059		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	0.9	60.0	60.0	49.8	10.22	5.868	CC, ES, SF	
1,100.0	1,100.0	1,098.0	1,098.0	5.2	5.2	-171.99	0.2	61.5	63.3	52.6	10.69	5.920		
1,200.0	1,199.8	1,195.4	1,195.2	5.4	5.4	-171.01	-1.7	66.2	73.2	62.1	11.15	6.565		
1,300.0	1,299.5	1,291.4	1,290.9	5.7	5.7	-169.84	-4.8	73.7	89.7	78.0	11.63	7.713		
1,400.0	1,398.7	1,385.6	1,384.5	6.0	5.9	-168.77	-9.0	84.0	112.6	100.5	12.12	9.291		
1,500.0	1,497.6	1,480.0	1,477.8	6.1	6.1	-167.94	-14.1	96.7	140.7	128.2	12.42	11.323		
1,600.0	1,596.4	1,575.8	1,572.5	6.4	6.3	-167.38	-19.5	109.9	169.3	156.4	12.87	13.154		
1,700.0	1,695.3	1,671.6	1,667.3	6.7	6.6	-166.99	-24.9	123.0	197.9	184.6	13.36	14.813		
1,800.0	1,794.1	1,767.4	1,762.0	6.9	6.8	-166.70	-30.3	136.2	226.6	212.7	13.89	16.318		
1,900.0	1,892.9	1,863.2	1,856.8	7.2	7.1	-166.47	-35.7	149.4	255.2	240.8	14.44	17.678		
2,000.0	1,991.8	1,959.0	1,951.5	7.6	7.4	-166.29	-41.1	162.6	283.9	268.9	15.01	18.906		
2,100.0	2,090.6	2,054.8	2,046.2	7.9	7.7	-166.14	-46.5	175.7	312.5	296.9	15.61	20.015		
2,200.0	2,189.5	2,150.6	2,141.0	8.2	8.0	-166.01	-51.9	188.9	341.2	324.9	16.23	21.016		
2,300.0	2,288.3	2,246.4	2,235.7	8.6	8.4	-165.91	-57.3	202.1	369.8	353.0	16.87	21.920		
2,400.0	2,387.2	2,342.2	2,330.5	8.9	8.7	-165.82	-62.7	215.3	398.5	381.0	17.52	22.738		
2,500.0	2,486.0	2,438.0	2,425.2	9.3	9.0	-165.74	-68.0	228.5	427.1	409.0	18.19	23.480		
2,600.0	2,584.8	2,533.8	2,519.9	9.7	9.4	-165.67	-73.4	241.6	455.8	436.9	18.86	24.169		
2,700.0	2,683.7	2,635.5	2,620.6	10.0	9.7	-165.63	-79.0	255.2	484.1	464.5	19.57	24.739		
2,800.0	2,782.5	2,740.6	2,724.9	10.4	10.1	-165.64	-84.0	267.5	510.7	490.4	20.33	25.123		
2,900.0	2,881.4	2,846.8	2,830.3	10.8	10.5	-165.72	-88.4	278.2	535.6	514.6	21.09	25.399		
3,000.0	2,980.2	2,953.8	2,937.0	11.2	10.9	-165.85	-92.0	287.1	558.9	537.0	21.84	25.583		
3,100.0	3,079.0	3,061.7	3,044.6	11.6	11.2	-166.03	-95.0	294.3	580.3	557.7	22.59	25.689		
3,200.0	3,177.9	3,170.5	3,153.2	12.0	11.6	-166.26	-97.1	299.6	600.0	576.7	23.32	25.730		
3,300.0	3,276.7	3,279.9	3,262.6	12.4	11.9	-166.53	-98.5	303.0	617.9	593.9	24.02	25.722		
3,400.0	3,375.6	3,390.0	3,372.7	12.8	12.2	-166.84	-99.1	304.4	634.1	609.4	24.68	25.694		
3,500.0	3,474.4	3,491.8	3,474.4	13.2	12.2	-167.15	-99.1	304.5	648.9	623.8	25.16	25.792		
3,600.0	3,573.3	3,590.6	3,573.3	13.6	12.3	-167.44	-99.1	304.5	663.7	638.1	25.63	25.896		
3,700.0	3,672.1	3,689.4	3,672.1	14.0	12.4	-167.72	-99.1	304.5	678.6	652.5	26.11	25.990		
3,800.0	3,770.9	3,788.3	3,770.9	14.4	12.4	-167.99	-99.1	304.5	693.4	666.8	26.59	26.075		
3,900.0	3,869.8	3,887.1	3,869.8	14.8	12.5	-168.24	-99.1	304.5	708.3	681.2	27.08	26.151		
4,000.0	3,968.6	3,986.0	3,968.6	15.3	12.5	-168.49	-99.1	304.5	723.1	695.6	27.58	26.219		
4,100.0	4,067.5	4,084.8	4,067.5	15.7	12.6	-168.72	-99.1	304.5	738.0	709.9	28.08	26.280		
4,200.0	4,166.3	4,183.7	4,166.3	16.1	12.7	-168.95	-99.1	304.5	752.9	724.3	28.59	26.334		
4,300.0	4,265.1	4,282.5	4,265.1	16.5	12.7	-169.17	-99.1	304.5	767.8	738.7	29.10	26.382		
4,400.0	4,364.0	4,381.3	4,364.0	16.9	12.8	-169.38	-99.1	304.5	782.7	753.1	29.62	26.424		
4,500.0	4,462.8	4,480.2	4,462.8	17.4	12.9	-169.58	-99.1	304.5	797.7	767.5	30.14	26.461		
4,600.0	4,561.7	4,579.0	4,561.7	17.8	12.9	-169.77	-99.1	304.5	812.6	781.9	30.67	26.494		
4,700.0	4,660.5	4,677.9	4,660.5	18.2	13.0	-169.96	-99.1	304.5	827.6	796.4	31.20	26.522		
4,800.0	4,759.4	4,776.7	4,759.4	18.6	13.0	-170.14	-99.1	304.5	842.5	810.8	31.74	26.547		
4,900.0	4,858.2	4,875.5	4,858.2	19.1	13.1	-170.31	-99.1	304.5	857.5	825.2	32.28	26.567		
5,000.0	4,957.0	4,974.4	4,957.0	19.5	13.2	-170.48	-99.1	304.5	872.4	839.6	32.82	26.585		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation	Factor		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,100.0	5,055.9	5,073.2	5,055.9	19.9	13.2	-170.64	-99.1	304.5	887.4	854.1	33.36	26.599	
5,200.0	5,154.7	5,172.1	5,154.7	20.3	13.3	-170.80	-99.1	304.5	902.4	868.5	33.91	26.611	
5,300.0	5,253.6	5,270.9	5,253.6	20.8	13.4	-170.95	-99.1	304.5	917.3	882.9	34.44	26.633	
5,400.0	5,352.6	5,369.9	5,352.6	21.2	13.4	-171.11	-99.1	304.5	931.1	896.1	34.99	26.608	
5,500.0	5,451.8	5,469.2	5,451.8	21.6	13.5	-171.24	-99.1	304.5	943.1	907.6	35.52	26.548	
5,600.0	5,551.3	5,568.7	5,551.3	22.0	13.6	-171.35	-99.1	304.5	953.4	917.4	36.04	26.453	
5,700.0	5,650.9	5,668.3	5,650.9	22.4	13.6	-171.44	-99.1	304.5	962.1	925.5	36.54	26.325	
5,800.0	5,750.7	5,768.0	5,750.7	22.7	13.7	-171.52	-99.1	304.5	969.0	931.9	37.03	26.170	
5,900.0	5,850.5	5,867.9	5,850.5	23.1	13.7	-171.57	-99.1	304.5	974.1	936.6	37.48	25.990	
6,000.0	5,950.5	5,967.8	5,950.5	23.4	13.8	-171.60	-99.1	304.5	977.6	939.7	37.90	25.793	
6,100.0	6,050.5	6,067.8	6,050.5	23.6	13.9	-171.62	-99.1	304.5	979.3	941.0	38.26	25.593	
6,200.0	6,150.5	6,167.8	6,150.5	23.7	13.9	89.95	-99.1	304.5	979.5	941.1	38.39	25.517	
6,300.0	6,250.5	6,267.8	6,250.5	23.7	14.0	89.95	-99.1	304.5	979.5	941.0	38.47	25.460	
6,400.0	6,350.5	6,367.8	6,350.5	23.8	14.1	89.95	-99.1	304.5	979.5	940.9	38.56	25.402	
6,500.0	6,450.5	6,467.8	6,450.5	23.8	14.1	89.95	-99.1	304.5	979.5	940.8	38.65	25.345	
6,600.0	6,550.5	6,567.8	6,550.5	23.8	14.2	89.95	-99.1	304.5	979.5	940.8	38.73	25.288	
6,700.0	6,650.5	6,667.8	6,650.5	23.9	14.3	89.95	-99.1	304.5	979.5	940.7	38.82	25.230	
6,800.0	6,750.5	6,767.8	6,750.5	23.9	14.3	89.95	-99.1	304.5	979.5	940.6	38.91	25.173	
6,900.0	6,850.5	6,867.8	6,850.5	23.9	14.4	89.95	-99.1	304.5	979.5	940.5	39.00	25.116	
7,000.0	6,950.5	6,967.8	6,950.5	24.0	14.5	89.95	-99.1	304.5	979.5	940.4	39.09	25.058	
7,100.0	7,050.5	7,067.8	7,050.5	24.0	14.5	89.95	-99.1	304.5	979.5	940.3	39.18	25.000	
7,200.0	7,150.5	7,167.8	7,150.5	24.0	14.6	89.95	-99.1	304.5	979.5	940.2	39.27	24.943	
7,300.0	7,250.5	7,267.8	7,250.5	24.1	14.7	89.95	-99.1	304.5	979.5	940.1	39.36	24.885	
7,400.0	7,350.5	7,367.8	7,350.5	24.1	14.8	89.95	-99.1	304.5	979.5	940.0	39.45	24.828	
7,500.0	7,450.5	7,467.8	7,450.5	24.1	14.8	89.95	-99.1	304.5	979.5	940.0	39.54	24.770	
7,600.0	7,550.5	7,567.8	7,550.5	24.2	14.9	89.95	-99.1	304.5	979.5	939.9	39.64	24.712	
7,700.0	7,650.5	7,667.8	7,650.5	24.2	15.0	89.95	-99.1	304.5	979.5	939.8	39.73	24.655	
7,800.0	7,750.5	7,767.8	7,750.5	24.2	15.0	89.95	-99.1	304.5	979.5	939.7	39.82	24.597	
7,900.0	7,850.5	7,867.8	7,850.5	24.3	15.1	89.95	-99.1	304.5	979.5	939.6	39.92	24.539	
8,000.0	7,950.5	7,967.8	7,950.5	24.3	15.2	89.95	-99.1	304.5	979.5	939.5	40.01	24.482	
8,100.0	8,050.5	8,067.8	8,050.5	24.3	15.2	89.95	-99.1	304.5	979.5	939.4	40.10	24.424	
8,200.0	8,150.5	8,167.8	8,150.5	24.4	15.3	89.95	-99.1	304.5	979.5	939.3	40.20	24.367	
8,300.0	8,250.5	8,267.8	8,250.5	24.4	15.4	89.95	-99.1	304.5	979.5	939.2	40.29	24.309	
8,400.0	8,350.5	8,367.8	8,350.5	24.5	15.4	89.95	-99.1	304.5	979.5	939.1	40.39	24.251	
8,500.0	8,450.5	8,467.8	8,450.5	24.5	15.5	89.95	-99.1	304.5	979.5	939.0	40.49	24.194	
8,600.0	8,550.5	8,567.8	8,550.5	24.5	15.6	89.95	-99.1	304.5	979.5	938.9	40.58	24.136	
8,700.0	8,650.5	8,667.8	8,650.5	24.6	15.6	89.95	-99.1	304.5	979.5	938.8	40.68	24.079	
8,800.0	8,750.5	8,767.8	8,750.5	24.6	15.7	89.95	-99.1	304.5	979.5	938.7	40.78	24.021	
8,900.0	8,850.5	8,867.8	8,850.5	24.6	15.8	89.95	-99.1	304.5	979.5	938.6	40.87	23.964	
9,000.0	8,950.5	8,967.8	8,950.5	24.7	15.9	89.95	-99.1	304.5	979.5	938.5	40.97	23.906	
9,100.0	9,050.5	9,067.8	9,050.5	24.7	15.9	89.95	-99.1	304.5	979.5	938.4	41.07	23.849	
9,200.0	9,150.5	9,167.8	9,150.5	24.8	16.0	89.95	-99.1	304.5	979.5	938.3	41.17	23.792	
9,300.0	9,250.5	9,267.8	9,250.5	24.8	16.1	89.95	-99.1	304.5	979.5	938.2	41.27	23.734	
9,400.0	9,350.5	9,367.8	9,350.5	24.8	16.1	89.95	-99.1	304.5	979.5	938.1	41.37	23.677	
9,500.0	9,450.5	9,467.8	9,450.5	24.9	16.2	89.95	-99.1	304.5	979.5	938.0	41.47	23.620	
9,600.0	9,550.5	9,567.8	9,550.5	24.9	16.3	89.95	-99.1	304.5	979.5	937.9	41.57	23.563	
9,700.0	9,650.5	9,667.8	9,650.5	25.0	16.4	89.95	-99.1	304.5	979.5	937.8	41.67	23.506	
9,800.0	9,750.5	9,767.8	9,750.5	25.0	16.4	89.95	-99.1	304.5	979.5	937.7	41.77	23.449	
9,900.0	9,850.5	9,867.8	9,850.5	25.0	16.5	89.95	-99.1	304.5	979.5	937.6	41.87	23.392	
10,000.0	9,950.5	9,967.8	9,950.5	25.1	16.6	89.95	-99.1	304.5	979.5	937.5	41.98	23.335	
10,100.0	10,050.5	10,067.8	10,050.5	25.1	16.6	89.95	-99.1	304.5	979.5	937.4	42.08	23.278	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.0	10,150.5	10,167.8	10,150.5	25.2	16.7	89.95	-99.1	304.5	979.5	937.3	42.18	23.221		
10,300.0	10,250.5	10,267.8	10,250.5	25.2	16.8	89.95	-99.1	304.5	979.5	937.2	42.28	23.165		
10,400.0	10,350.5	10,367.8	10,350.5	25.2	16.8	89.95	-99.1	304.5	979.5	937.1	42.39	23.108		
10,500.0	10,450.5	10,467.8	10,450.5	25.3	16.9	89.95	-99.1	304.5	979.5	937.0	42.49	23.052		
10,600.0	10,550.5	10,567.8	10,550.5	25.3	17.0	89.95	-99.1	304.5	979.5	936.9	42.60	22.995		
10,700.0	10,650.5	10,667.8	10,650.5	25.4	17.1	89.95	-99.1	304.5	979.5	936.8	42.70	22.939		
10,800.0	10,750.5	10,767.8	10,750.5	25.4	17.1	89.95	-99.1	304.5	979.5	936.7	42.80	22.883		
10,900.0	10,850.5	10,867.8	10,850.5	25.4	17.2	89.95	-99.1	304.5	979.5	936.6	42.91	22.827		
11,000.0	10,950.5	10,967.8	10,950.5	25.5	17.3	89.95	-99.1	304.5	979.5	936.5	43.02	22.771		
11,100.0	11,050.5	11,067.8	11,050.5	25.5	17.4	89.95	-99.1	304.5	979.5	936.4	43.12	22.715		
11,200.0	11,150.5	11,167.8	11,150.5	25.6	17.4	89.95	-99.1	304.5	979.5	936.3	43.22	22.660		
11,300.0	11,250.1	11,268.4	11,250.7	25.6	17.5	-85.41	-105.6	304.5	979.0	935.7	43.21	22.657		
11,400.0	11,346.4	11,369.1	11,347.6	25.6	17.6	-85.66	-132.4	304.4	976.7	933.6	43.14	22.639		
11,500.0	11,435.0	11,469.7	11,436.6	25.6	17.7	-86.10	-178.8	304.3	972.8	929.7	43.09	22.578		
11,600.0	11,512.2	11,570.1	11,513.8	25.7	17.8	-86.71	-242.7	304.1	967.5	924.4	43.07	22.462		
11,700.0	11,574.5	11,670.2	11,575.8	25.8	18.0	-87.46	-321.1	303.9	960.8	917.7	43.12	22.283		
11,800.0	11,619.3	11,770.2	11,620.1	25.9	18.1	-88.34	-410.5	303.6	953.3	910.0	43.27	22.033		
11,900.0	11,644.5	11,870.0	11,644.9	26.0	18.3	-89.29	-507.0	303.3	945.1	901.6	43.52	21.716		
12,000.0	11,650.0	11,969.7	11,650.0	26.1	18.4	-90.00	-606.4	303.0	936.8	892.9	43.89	21.344		
12,100.0	11,650.0	12,069.5	11,650.0	26.3	18.6	-90.00	-706.2	302.8	931.0	886.6	44.39	20.975		
12,200.1	11,650.0	12,169.6	11,650.0	26.5	18.8	-90.00	-806.3	302.5	928.7	883.8	44.96	20.656		
12,300.0	11,650.0	12,269.5	11,650.0	26.8	19.1	-90.00	-906.2	302.2	928.2	882.6	45.58	20.363		
12,400.0	11,650.0	12,369.5	11,650.0	27.1	19.4	-90.00	-1,006.2	301.9	927.7	881.4	46.27	20.047		
12,500.0	11,650.0	12,469.5	11,650.0	27.4	19.8	-90.00	-1,106.2	301.6	927.1	880.1	47.03	19.712		
12,600.0	11,650.0	12,569.5	11,650.0	27.7	20.2	-90.00	-1,206.2	301.3	926.6	878.7	47.86	19.362		
12,700.0	11,650.0	12,669.5	11,650.0	28.1	20.7	-90.00	-1,306.2	301.0	926.1	877.3	48.74	19.000		
12,800.0	11,650.0	12,769.5	11,650.0	28.5	21.2	-90.00	-1,406.2	300.7	925.5	875.9	49.68	18.630		
12,900.0	11,650.0	12,869.5	11,650.0	28.9	21.8	-90.00	-1,506.2	300.5	925.0	874.3	50.68	18.253		
13,000.0	11,650.0	12,969.5	11,650.0	29.3	22.4	-90.00	-1,606.2	300.2	924.5	872.8	51.72	17.874		
13,100.0	11,650.0	13,069.5	11,650.0	29.8	23.0	-90.00	-1,706.2	299.9	924.0	871.1	52.82	17.494		
13,200.0	11,650.0	13,169.5	11,650.0	30.3	23.6	-90.00	-1,806.2	299.6	923.4	869.5	53.95	17.115		
13,300.0	11,650.0	13,269.5	11,650.0	30.8	24.3	-90.00	-1,906.2	299.3	922.9	867.8	55.13	16.739		
13,400.0	11,650.0	13,369.4	11,650.0	31.4	25.0	-90.00	-2,006.2	299.0	922.4	866.0	56.35	16.367		
13,500.0	11,650.0	13,469.4	11,650.0	32.0	25.7	-90.00	-2,106.2	298.7	921.8	864.2	57.61	16.001		
13,600.0	11,650.0	13,569.4	11,650.0	32.6	26.4	-90.00	-2,206.2	298.4	921.3	862.4	58.90	15.641		
13,700.0	11,650.0	13,669.4	11,650.0	33.2	27.1	-90.00	-2,306.2	298.2	920.8	860.5	60.23	15.289		
13,800.0	11,650.0	13,769.4	11,650.0	33.8	27.9	-90.00	-2,406.2	297.9	920.2	858.7	61.58	14.944		
13,900.0	11,650.0	13,869.4	11,650.0	34.4	28.7	-90.00	-2,506.2	297.6	919.7	856.8	62.96	14.607		
14,000.0	11,650.0	13,969.4	11,650.0	35.1	29.4	-90.00	-2,606.2	297.3	919.2	854.8	64.37	14.280		
14,100.0	11,650.0	14,069.4	11,650.0	35.8	30.2	-90.00	-2,706.2	297.0	918.7	852.9	65.80	13.961		
14,200.0	11,650.0	14,169.4	11,650.0	36.4	31.0	-90.00	-2,806.2	296.7	918.1	850.9	67.26	13.651		
14,300.0	11,650.0	14,269.4	11,650.0	37.1	31.8	-90.00	-2,906.2	296.4	917.6	848.9	68.74	13.349		
14,400.0	11,650.0	14,369.4	11,650.0	37.8	32.7	-90.00	-3,006.2	296.2	917.1	846.8	70.24	13.057		
14,500.0	11,650.0	14,469.4	11,650.0	38.6	33.5	-90.00	-3,106.2	295.9	916.5	844.8	71.75	12.774		
14,600.0	11,650.0	14,569.4	11,650.0	39.3	34.3	-90.00	-3,206.2	295.6	916.0	842.7	73.29	12.499		
14,700.0	11,650.0	14,669.4	11,650.0	40.0	35.2	-90.00	-3,306.2	295.3	915.5	840.6	74.84	12.233		
14,800.0	11,650.0	14,769.4	11,650.0	40.8	36.0	-90.00	-3,406.2	295.0	914.9	838.5	76.40	11.975		
14,900.0	11,650.0	14,869.4	11,650.0	41.6	36.9	-90.00	-3,506.2	294.7	914.4	836.4	77.99	11.725		
15,000.0	11,650.0	14,969.4	11,650.0	42.3	37.7	-90.00	-3,606.2	294.4	913.9	834.3	79.58	11.484		
15,100.0	11,650.0	15,069.4	11,650.0	43.1	38.6	-90.00	-3,706.2	294.1	913.4	832.2	81.19	11.250		
15,200.0	11,650.0	15,169.4	11,650.0	43.9	39.4	-90.00	-3,806.2	293.9	912.8	830.0	82.81	11.023		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 MWD+IFR1								Rule Assigned:			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)	Minimum Separation (usft)			
15,300.0	11,650.0	15,269.4	11,650.0	44.7	40.3	-90.00	-3,906.2	293.6	912.3	827.9	84.44	10.804		
15,400.0	11,650.0	15,369.4	11,650.0	45.5	41.2	-90.00	-4,006.2	293.3	911.8	825.7	86.09	10.591		
15,500.0	11,650.0	15,469.4	11,650.0	46.3	42.1	-90.00	-4,106.2	293.0	911.2	823.5	87.74	10.386		
15,600.0	11,650.0	15,569.4	11,650.0	47.1	42.9	-90.00	-4,206.2	292.7	910.7	821.3	89.40	10.187		
15,700.0	11,650.0	15,669.4	11,650.0	47.9	43.8	-90.00	-4,306.2	292.4	910.2	819.1	91.07	9.994		
15,800.0	11,650.0	15,769.4	11,650.0	48.7	44.7	-90.00	-4,406.2	292.1	909.6	816.9	92.76	9.807		
15,900.0	11,650.0	15,869.4	11,650.0	49.6	45.6	-90.00	-4,506.1	291.9	909.1	814.7	94.44	9.626		
16,000.0	11,650.0	15,969.4	11,650.0	50.4	46.5	-90.00	-4,606.1	291.6	908.6	812.4	96.14	9.451		
16,100.0	11,650.0	16,069.4	11,650.0	51.2	47.4	-90.00	-4,706.1	291.3	908.1	810.2	97.85	9.281		
16,200.0	11,650.0	16,169.4	11,650.0	52.1	48.3	-90.00	-4,806.1	291.0	907.5	808.0	99.56	9.116		
16,300.0	11,650.0	16,269.4	11,650.0	52.9	49.2	-90.00	-4,906.1	290.7	907.0	805.7	101.27	8.956		
16,400.0	11,650.0	16,369.4	11,650.0	53.8	50.1	-90.00	-5,006.1	290.4	906.5	803.5	103.00	8.801		
16,500.0	11,650.0	16,469.4	11,650.0	54.6	51.0	-90.00	-5,106.1	290.1	905.9	801.2	104.73	8.650		
16,600.0	11,650.0	16,569.4	11,650.0	55.5	51.9	-90.00	-5,206.1	289.8	905.4	798.9	106.46	8.504		
16,700.0	11,650.0	16,669.4	11,650.0	56.3	52.8	-90.00	-5,306.1	289.6	904.9	796.7	108.20	8.363		
16,800.0	11,650.0	16,769.4	11,650.0	57.2	53.7	-90.00	-5,406.1	289.3	904.4	794.4	109.95	8.225		
16,900.0	11,650.0	16,869.4	11,650.0	58.1	54.6	-90.00	-5,506.1	289.0	903.8	792.1	111.70	8.091		
17,000.0	11,650.0	16,969.4	11,650.0	58.9	55.5	-90.00	-5,606.1	288.7	903.3	789.8	113.46	7.962		
17,100.0	11,650.0	17,069.4	11,650.0	59.8	56.5	-90.00	-5,706.1	288.4	902.8	787.5	115.22	7.835		
17,200.0	11,650.0	17,169.4	11,650.0	60.7	57.4	-90.00	-5,806.1	288.1	902.2	785.3	116.98	7.713		
17,300.0	11,650.0	17,269.4	11,650.0	61.5	58.3	-90.00	-5,906.1	287.8	901.7	783.0	118.75	7.593		
17,400.0	11,650.0	17,369.4	11,650.0	62.4	59.2	-90.00	-6,006.1	287.5	901.2	780.7	120.52	7.477		
17,500.0	11,650.0	17,469.4	11,650.0	63.3	60.1	-90.00	-6,106.1	287.3	900.6	778.3	122.30	7.364		
17,600.0	11,650.0	17,569.4	11,650.0	64.2	61.1	-90.00	-6,206.1	287.0	900.1	776.0	124.08	7.254		
17,700.0	11,650.0	17,669.4	11,650.0	65.1	62.0	-90.00	-6,306.1	286.7	899.6	773.7	125.86	7.147		
17,800.0	11,650.0	17,769.4	11,650.0	66.0	62.9	-90.00	-6,406.1	286.4	899.1	771.4	127.65	7.043		
17,900.0	11,650.0	17,869.4	11,650.0	66.9	63.8	-90.00	-6,506.1	286.1	898.5	769.1	129.44	6.942		
18,000.0	11,650.0	17,969.4	11,650.0	67.7	64.8	-90.00	-6,606.1	285.8	898.0	766.8	131.23	6.843		
18,100.0	11,650.0	18,069.4	11,650.0	68.6	65.7	-90.00	-6,706.1	285.5	897.5	764.4	133.02	6.747		
18,200.0	11,650.0	18,169.4	11,650.0	69.5	66.6	-90.00	-6,806.1	285.3	896.9	762.1	134.82	6.653		
18,300.0	11,650.0	18,269.4	11,650.0	70.4	67.5	-90.00	-6,906.1	285.0	896.4	759.8	136.62	6.561		
18,400.0	11,650.0	18,369.4	11,650.0	71.3	68.5	-90.00	-7,006.1	284.7	895.9	757.4	138.43	6.472		
18,500.0	11,650.0	18,469.4	11,650.0	72.2	69.4	-90.00	-7,106.1	284.4	895.3	755.1	140.23	6.385		
18,600.0	11,650.0	18,569.4	11,650.0	73.1	70.3	-90.00	-7,206.1	284.1	894.8	752.8	142.04	6.300		
18,700.0	11,650.0	18,669.4	11,650.0	74.0	71.3	-90.00	-7,306.1	283.8	894.3	750.4	143.85	6.217		
18,800.0	11,650.0	18,769.4	11,650.0	74.9	72.2	-90.00	-7,406.1	283.5	893.8	748.1	145.66	6.136		
18,900.0	11,650.0	18,869.4	11,650.0	75.9	73.1	-90.00	-7,506.1	283.2	893.2	745.8	147.48	6.057		
19,000.0	11,650.0	18,969.4	11,650.0	76.8	74.1	-90.00	-7,606.1	283.0	892.7	743.4	149.29	5.979		
19,100.0	11,650.0	19,069.4	11,650.0	77.7	75.0	-90.00	-7,706.1	282.7	892.2	741.1	151.11	5.904		
19,121.8	11,650.0	19,086.5	11,650.0	77.8	75.2	-90.00	-7,723.2	282.6	892.1	740.7	151.40	5.892		
19,125.0	11,650.0	19,086.5	11,650.0	77.8	75.2	-90.00	-7,723.2	282.6	892.1	740.7	151.41	5.892		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	89.18	1.3	90.0	90.0	83.6	6.43	13.999			
100.0	100.0	100.0	100.0	3.2	3.2	89.18	1.3	90.0	90.0	83.1	6.89	13.058			
200.0	200.0	200.0	200.0	3.5	3.5	89.18	1.3	90.0	90.0	82.7	7.33	12.281			
300.0	300.0	300.0	300.0	3.7	3.7	89.18	1.3	90.0	90.0	82.3	7.74	11.626			
400.0	400.0	400.0	400.0	3.9	3.9	89.18	1.3	90.0	90.0	81.9	8.14	11.063			
500.0	500.0	500.0	500.0	4.1	4.1	89.18	1.3	90.0	90.0	81.5	8.51	10.571			
600.0	600.0	600.0	600.0	4.2	4.2	89.18	1.3	90.0	90.0	81.1	8.88	10.138			
700.0	700.0	700.0	700.0	4.4	4.4	89.18	1.3	90.0	90.0	80.8	9.23	9.751			
800.0	800.0	800.0	800.0	4.6	4.6	89.18	1.3	90.0	90.0	80.4	9.57	9.404			
900.0	900.0	900.0	900.0	4.8	4.8	89.18	1.3	90.0	90.0	80.1	9.90	9.089			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	1.3	90.0	90.0	79.8	10.22	8.802	CC, ES		
1,100.0	1,100.0	1,096.9	1,096.9	5.2	5.2	-172.38	1.1	91.6	93.4	82.7	10.71	8.725	SF		
1,200.0	1,199.8	1,193.1	1,192.9	5.4	5.4	-172.36	0.5	96.4	103.6	92.4	11.17	9.271			
1,300.0	1,299.5	1,288.0	1,287.5	5.7	5.7	-172.32	-0.5	104.3	120.5	108.8	11.66	10.335			
1,400.0	1,398.7	1,380.9	1,379.8	6.0	5.9	-172.27	-1.8	115.1	143.9	131.8	12.16	11.839			
1,500.0	1,497.6	1,474.2	1,472.1	6.1	6.1	-172.26	-3.5	128.5	172.8	160.3	12.47	13.850			
1,600.0	1,596.4	1,569.8	1,566.7	6.4	6.3	-172.26	-5.2	142.6	202.2	189.3	12.93	15.640			
1,700.0	1,695.3	1,665.4	1,661.2	6.7	6.6	-172.26	-6.9	156.7	231.6	218.2	13.43	17.247			
1,800.0	1,794.1	1,761.0	1,755.7	6.9	6.8	-172.26	-8.7	170.8	261.1	247.1	13.96	18.694			
1,900.0	1,892.9	1,856.5	1,850.2	7.2	7.1	-172.26	-10.4	184.9	290.5	276.0	14.53	19.994			
2,000.0	1,991.8	1,952.1	1,944.7	7.6	7.4	-172.26	-12.1	199.0	319.9	304.8	15.12	21.159			
2,100.0	2,090.6	2,047.7	2,039.2	7.9	7.7	-172.26	-13.9	213.1	349.4	333.6	15.73	22.205			
2,200.0	2,189.5	2,143.2	2,133.7	8.2	8.0	-172.27	-15.6	227.2	378.8	362.4	16.37	23.143			
2,300.0	2,288.3	2,238.8	2,228.2	8.6	8.4	-172.27	-17.3	241.3	408.2	391.2	17.02	23.985			
2,400.0	2,387.2	2,334.4	2,322.7	8.9	8.7	-172.27	-19.1	255.4	437.7	420.0	17.69	24.743			
2,500.0	2,486.0	2,429.9	2,417.2	9.3	9.0	-172.27	-20.8	269.5	467.1	448.7	18.37	25.427			
2,600.0	2,584.8	2,525.5	2,511.7	9.7	9.4	-172.27	-22.5	283.5	496.5	477.5	19.07	26.044			
2,700.0	2,683.7	2,621.1	2,606.2	10.0	9.7	-172.27	-24.3	297.6	526.0	506.2	19.77	26.602			
2,800.0	2,782.5	2,716.7	2,700.8	10.4	10.1	-172.27	-26.0	311.7	555.4	534.9	20.49	27.108			
2,900.0	2,881.4	2,812.2	2,795.3	10.8	10.5	-172.27	-27.7	325.8	584.8	563.6	21.21	27.569			
3,000.0	2,980.2	2,907.8	2,889.8	11.2	10.8	-172.27	-29.5	339.9	614.3	592.3	21.95	27.989			
3,100.0	3,079.0	3,003.4	2,984.3	11.6	11.2	-172.27	-31.2	354.0	643.7	621.0	22.69	28.372			
3,200.0	3,177.9	3,098.9	3,078.8	12.0	11.6	-172.27	-32.9	368.1	673.1	649.7	23.44	28.723			
3,300.0	3,276.7	3,194.5	3,173.3	12.4	12.0	-172.27	-34.7	382.2	702.6	678.4	24.19	29.045			
3,400.0	3,375.6	3,290.1	3,267.8	12.8	12.3	-172.27	-36.4	396.3	732.0	707.1	24.95	29.341			
3,500.0	3,474.4	3,385.6	3,362.3	13.2	12.7	-172.27	-38.2	410.4	761.4	735.7	25.71	29.614			
3,600.0	3,573.3	3,481.2	3,456.8	13.6	13.1	-172.27	-39.9	424.5	790.9	764.4	26.48	29.866			
3,700.0	3,672.1	3,576.8	3,551.3	14.0	13.5	-172.27	-41.6	438.6	820.3	793.1	27.25	30.099			
3,800.0	3,770.9	3,672.4	3,645.8	14.4	13.9	-172.27	-43.4	452.7	849.7	821.7	28.03	30.315			
3,900.0	3,869.8	3,767.9	3,740.4	14.8	14.3	-172.27	-45.1	466.8	879.2	850.4	28.81	30.516			
4,000.0	3,968.6	3,863.5	3,834.9	15.3	14.7	-172.27	-46.8	480.9	908.6	879.0	29.59	30.703			
4,100.0	4,067.5	3,959.1	3,929.4	15.7	15.1	-172.27	-48.6	495.0	938.1	907.7	30.38	30.877			
4,200.0	4,166.3	4,054.6	4,023.9	16.1	15.5	-172.27	-50.3	509.1	967.5	936.3	31.17	31.040			
4,300.0	4,265.1	4,150.2	4,118.4	16.5	15.8	-172.27	-52.0	523.2	996.9	965.0	31.96	31.192			
4,400.0	4,364.0	4,245.8	4,212.9	16.9	16.2	-172.27	-53.8	537.3	1,026.4	993.6	32.75	31.335			
4,500.0	4,462.8	4,341.3	4,307.4	17.4	16.6	-172.27	-55.5	551.4	1,055.8	1,022.2	33.55	31.468			
4,600.0	4,561.7	4,436.9	4,401.9	17.8	17.0	-172.27	-57.2	565.5	1,085.2	1,050.9	34.35	31.594			
4,700.0	4,660.5	4,532.5	4,496.4	18.2	17.4	-172.27	-59.0	579.6	1,114.7	1,079.5	35.15	31.712			
4,800.0	4,759.4	4,628.1	4,590.9	18.6	17.9	-172.27	-60.7	593.7	1,144.1	1,108.1	35.95	31.824			
4,900.0	4,858.2	4,723.6	4,685.4	19.1	18.3	-172.27	-62.4	607.8	1,173.5	1,136.8	36.75	31.929			
5,000.0	4,957.0	4,819.2	4,779.9	19.5	18.7	-172.27	-64.2	621.9	1,203.0	1,165.4	37.56	32.028			

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,055.9	4,914.8	4,874.5	19.9	19.1	-172.27	-172.27	-65.9	636.0	1,232.4	1,194.0	38.37	32.122	
5,200.0	5,154.7	5,010.3	4,969.0	20.3	19.5	-172.27	-172.27	-67.6	650.1	1,261.8	1,222.7	39.17	32.211	
5,300.0	5,253.6	5,105.9	5,063.5	20.8	19.9	-172.28	-172.28	-69.4	664.2	1,291.2	1,251.2	39.97	32.305	
5,400.0	5,352.6	5,204.8	5,161.3	21.2	20.3	-172.31	-172.31	-71.2	678.7	1,319.4	1,278.6	40.80	32.341	
5,500.0	5,451.8	5,330.5	5,285.8	21.6	20.8	-172.33	-172.33	-73.3	695.6	1,344.7	1,302.9	41.84	32.140	
5,600.0	5,551.3	5,458.1	5,412.5	22.0	21.4	-172.35	-172.35	-75.0	710.0	1,366.2	1,323.4	42.82	31.906	
5,700.0	5,650.9	5,587.2	5,541.1	22.4	21.8	-172.37	-172.37	-76.5	721.7	1,383.8	1,340.1	43.75	31.627	
5,800.0	5,750.7	5,717.6	5,671.2	22.7	22.3	-172.39	-172.39	-77.6	730.6	1,397.5	1,352.9	44.63	31.314	
5,900.0	5,850.5	5,849.0	5,802.5	23.1	22.7	-172.41	-172.41	-78.3	736.6	1,407.2	1,361.8	45.42	30.980	
6,000.0	5,950.5	5,981.0	5,934.5	23.4	23.1	-172.42	-172.42	-78.7	739.6	1,412.9	1,366.8	46.11	30.641	
6,100.0	6,050.5	6,097.0	6,050.5	23.6	23.2	-172.43	-172.43	-78.7	740.0	1,414.9	1,368.5	46.48	30.441	
6,200.0	6,150.5	6,197.0	6,150.5	23.7	23.3	89.14	89.14	-78.7	740.0	1,415.2	1,368.6	46.58	30.383	
6,300.0	6,250.5	6,297.0	6,250.5	23.7	23.3	89.14	89.14	-78.7	740.0	1,415.2	1,368.5	46.64	30.341	
6,400.0	6,350.5	6,397.0	6,350.5	23.8	23.3	89.14	89.14	-78.7	740.0	1,415.2	1,368.4	46.71	30.299	
6,500.0	6,450.5	6,497.0	6,450.5	23.8	23.4	89.14	89.14	-78.7	740.0	1,415.2	1,368.4	46.77	30.257	
6,600.0	6,550.5	6,597.0	6,550.5	23.8	23.4	89.14	89.14	-78.7	740.0	1,415.2	1,368.3	46.84	30.214	
6,700.0	6,650.5	6,697.0	6,650.5	23.9	23.4	89.14	89.14	-78.7	740.0	1,415.2	1,368.2	46.90	30.171	
6,800.0	6,750.5	6,797.0	6,750.5	23.9	23.5	89.14	89.14	-78.7	740.0	1,415.2	1,368.2	46.97	30.128	
6,900.0	6,850.5	6,897.0	6,850.5	23.9	23.5	89.14	89.14	-78.7	740.0	1,415.2	1,368.1	47.04	30.085	
7,000.0	6,950.5	6,997.0	6,950.5	24.0	23.5	89.14	89.14	-78.7	740.0	1,415.2	1,368.0	47.11	30.042	
7,100.0	7,050.5	7,097.0	7,050.5	24.0	23.6	89.14	89.14	-78.7	740.0	1,415.2	1,368.0	47.17	29.998	
7,200.0	7,150.5	7,197.0	7,150.5	24.0	23.6	89.14	89.14	-78.7	740.0	1,415.2	1,367.9	47.24	29.955	
7,300.0	7,250.5	7,297.0	7,250.5	24.1	23.6	89.14	89.14	-78.7	740.0	1,415.2	1,367.8	47.31	29.911	
7,400.0	7,350.5	7,397.0	7,350.5	24.1	23.7	89.14	89.14	-78.7	740.0	1,415.2	1,367.8	47.38	29.867	
7,500.0	7,450.5	7,497.0	7,450.5	24.1	23.7	89.14	89.14	-78.7	740.0	1,415.2	1,367.7	47.45	29.823	
7,600.0	7,550.5	7,597.0	7,550.5	24.2	23.7	89.14	89.14	-78.7	740.0	1,415.2	1,367.6	47.52	29.779	
7,700.0	7,650.5	7,697.0	7,650.5	24.2	23.8	89.14	89.14	-78.7	740.0	1,415.2	1,367.6	47.59	29.734	
7,800.0	7,750.5	7,797.0	7,750.5	24.2	23.8	89.14	89.14	-78.7	740.0	1,415.2	1,367.5	47.66	29.690	
7,900.0	7,850.5	7,897.0	7,850.5	24.3	23.9	89.14	89.14	-78.7	740.0	1,415.2	1,367.4	47.74	29.645	
8,000.0	7,950.5	7,997.0	7,950.5	24.3	23.9	89.14	89.14	-78.7	740.0	1,415.2	1,367.3	47.81	29.600	
8,100.0	8,050.5	8,097.0	8,050.5	24.3	23.9	89.14	89.14	-78.7	740.0	1,415.2	1,367.3	47.88	29.555	
8,200.0	8,150.5	8,197.0	8,150.5	24.4	24.0	89.14	89.14	-78.7	740.0	1,415.2	1,367.2	47.95	29.510	
8,300.0	8,250.5	8,297.0	8,250.5	24.4	24.0	89.14	89.14	-78.7	740.0	1,415.2	1,367.1	48.03	29.465	
8,400.0	8,350.5	8,397.0	8,350.5	24.5	24.0	89.14	89.14	-78.7	740.0	1,415.2	1,367.0	48.10	29.420	
8,500.0	8,450.5	8,497.0	8,450.5	24.5	24.1	89.14	89.14	-78.7	740.0	1,415.2	1,367.0	48.18	29.374	
8,600.0	8,550.5	8,597.0	8,550.5	24.5	24.1	89.14	89.14	-78.7	740.0	1,415.2	1,366.9	48.25	29.329	
8,700.0	8,650.5	8,697.0	8,650.5	24.6	24.2	89.14	89.14	-78.7	740.0	1,415.2	1,366.8	48.33	29.283	
8,800.0	8,750.5	8,797.0	8,750.5	24.6	24.2	89.14	89.14	-78.7	740.0	1,415.2	1,366.7	48.40	29.237	
8,900.0	8,850.5	8,897.0	8,850.5	24.6	24.2	89.14	89.14	-78.7	740.0	1,415.2	1,366.7	48.48	29.191	
9,000.0	8,950.5	8,997.0	8,950.5	24.7	24.3	89.14	89.14	-78.7	740.0	1,415.2	1,366.6	48.56	29.145	
9,100.0	9,050.5	9,097.0	9,050.5	24.7	24.3	89.14	89.14	-78.7	740.0	1,415.2	1,366.5	48.63	29.099	
9,200.0	9,150.5	9,197.0	9,150.5	24.8	24.4	89.14	89.14	-78.7	740.0	1,415.2	1,366.4	48.71	29.053	
9,300.0	9,250.5	9,297.0	9,250.5	24.8	24.4	89.14	89.14	-78.7	740.0	1,415.2	1,366.4	48.79	29.006	
9,400.0	9,350.5	9,397.0	9,350.5	24.8	24.4	89.14	89.14	-78.7	740.0	1,415.2	1,366.3	48.87	28.960	
9,500.0	9,450.5	9,497.0	9,450.5	24.9	24.5	89.14	89.14	-78.7	740.0	1,415.2	1,366.2	48.94	28.913	
9,600.0	9,550.5	9,597.0	9,550.5	24.9	24.5	89.14	89.14	-78.7	740.0	1,415.2	1,366.1	49.02	28.867	
9,700.0	9,650.5	9,697.0	9,650.5	25.0	24.6	89.14	89.14	-78.7	740.0	1,415.2	1,366.0	49.10	28.820	
9,800.0	9,750.5	9,797.0	9,750.5	25.0	24.6	89.14	89.14	-78.7	740.0	1,415.2	1,366.0	49.18	28.773	
9,900.0	9,850.5	9,897.0	9,850.5	25.0	24.6	89.14	89.14	-78.7	740.0	1,415.2	1,365.9	49.26	28.726	
10,000.0	9,950.5	9,997.0	9,950.5	25.1	24.7	89.14	89.14	-78.7	740.0	1,415.2	1,365.8	49.34	28.680	
10,100.0	10,050.5	10,097.0	10,050.5	25.1	24.7	89.14	89.14	-78.7	740.0	1,415.2	1,365.7	49.42	28.633	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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	
10,200.0	10,150.5	10,197.0	10,150.5	25.2	24.8	89.14	-78.7	740.0	1,415.2	1,365.6	49.51	28.585	
10,300.0	10,250.5	10,297.0	10,250.5	25.2	24.8	89.14	-78.7	740.0	1,415.2	1,365.6	49.59	28.538	
10,400.0	10,350.5	10,397.0	10,350.5	25.2	24.8	89.14	-78.7	740.0	1,415.2	1,365.5	49.67	28.491	
10,500.0	10,450.5	10,497.0	10,450.5	25.3	24.9	89.14	-78.7	740.0	1,415.2	1,365.4	49.75	28.444	
10,600.0	10,550.5	10,597.0	10,550.5	25.3	24.9	89.14	-78.7	740.0	1,415.2	1,365.3	49.84	28.396	
10,700.0	10,650.5	10,697.0	10,650.5	25.4	25.0	89.14	-78.7	740.0	1,415.2	1,365.2	49.92	28.349	
10,800.0	10,750.5	10,797.0	10,750.5	25.4	25.0	89.14	-78.7	740.0	1,415.2	1,365.1	50.00	28.301	
10,900.0	10,850.5	10,897.0	10,850.5	25.4	25.1	89.14	-78.7	740.0	1,415.2	1,365.1	50.09	28.254	
11,000.0	10,950.5	10,997.0	10,950.5	25.5	25.1	89.14	-78.7	740.0	1,415.2	1,365.0	50.17	28.206	
11,100.0	11,050.5	11,097.0	11,050.5	25.5	25.2	89.14	-78.7	740.0	1,415.2	1,364.9	50.26	28.159	
11,200.0	11,150.5	11,197.0	11,150.5	25.6	25.2	89.14	-78.7	740.0	1,415.2	1,364.8	50.34	28.111	
11,300.0	11,250.1	11,296.7	11,250.1	25.6	25.2	-86.47	-78.7	740.0	1,414.7	1,364.4	50.37	28.085	
11,400.0	11,346.4	11,392.8	11,346.2	25.6	25.3	-87.66	-78.7	740.0	1,413.3	1,363.0	50.38	28.054	
11,500.0	11,435.0	11,485.5	11,438.3	25.6	25.3	-89.20	-88.4	740.5	1,411.9	1,361.6	50.35	28.045	
11,600.0	11,512.2	11,565.7	11,533.7	25.7	25.4	-90.83	-118.6	742.1	1,411.0	1,360.7	50.32	28.039	
11,700.0	11,574.5	11,695.5	11,628.3	25.8	25.5	-92.50	-173.6	745.0	1,410.5	1,360.2	50.34	28.017	
11,800.0	11,619.3	11,817.1	11,715.4	25.9	25.6	-94.16	-257.8	749.4	1,410.4	1,359.9	50.46	27.950	
11,900.0	11,644.5	11,952.0	11,783.8	26.0	25.8	-95.70	-373.5	755.4	1,410.2	1,359.5	50.71	27.808	
12,000.0	11,650.0	12,100.2	11,818.4	26.1	25.9	-96.86	-516.8	762.9	1,409.5	1,358.4	51.10	27.581	
12,100.0	11,650.0	12,285.4	11,820.0	26.3	26.3	-96.94	-701.8	768.9	1,407.5	1,355.8	51.68	27.234	
12,200.1	11,650.0	12,395.5	11,820.0	26.5	26.5	-96.95	-811.9	768.3	1,404.9	1,352.7	52.20	26.916	
12,300.0	11,650.0	12,495.4	11,820.0	26.8	26.7	-96.95	-911.8	767.7	1,404.1	1,351.3	52.75	26.620	
12,400.0	11,650.0	12,595.4	11,820.0	27.1	27.0	-96.96	-1,011.8	767.1	1,403.3	1,349.9	53.36	26.300	
12,500.0	11,650.0	12,695.4	11,820.0	27.4	27.3	-96.96	-1,111.8	766.5	1,402.4	1,348.4	54.03	25.958	
12,600.0	11,650.0	12,795.4	11,820.0	27.7	27.7	-96.97	-1,211.8	765.9	1,401.6	1,346.8	54.75	25.598	
12,700.0	11,650.0	12,895.4	11,820.0	28.1	28.1	-96.97	-1,311.8	765.3	1,400.8	1,345.2	55.54	25.222	
12,800.0	11,650.0	12,995.4	11,820.0	28.5	28.5	-96.98	-1,411.8	764.8	1,399.9	1,343.6	56.37	24.833	
12,900.0	11,650.0	13,095.4	11,820.0	28.9	28.9	-96.98	-1,511.8	764.2	1,399.1	1,341.8	57.26	24.434	
13,000.0	11,650.0	13,195.4	11,820.0	29.3	29.4	-96.98	-1,611.8	763.6	1,398.3	1,340.1	58.19	24.027	
13,100.0	11,650.0	13,295.4	11,820.0	29.8	29.8	-96.99	-1,711.8	763.0	1,397.4	1,338.3	59.18	23.615	
13,200.0	11,650.0	13,395.4	11,820.0	30.3	30.4	-96.99	-1,811.8	762.4	1,396.6	1,336.4	60.20	23.199	
13,300.0	11,650.0	13,495.4	11,820.0	30.8	30.9	-97.00	-1,911.8	761.8	1,395.8	1,334.5	61.27	22.782	
13,400.0	11,650.0	13,595.4	11,820.0	31.4	31.4	-97.00	-2,011.8	761.2	1,394.9	1,332.6	62.37	22.365	
13,500.0	11,650.0	13,695.4	11,820.0	32.0	32.0	-97.00	-2,111.8	760.6	1,394.1	1,330.6	63.51	21.949	
13,600.0	11,650.0	13,795.4	11,820.0	32.6	32.6	-97.01	-2,211.8	760.0	1,393.3	1,328.6	64.69	21.537	
13,700.0	11,650.0	13,895.4	11,820.0	33.2	33.2	-97.01	-2,311.8	759.4	1,392.4	1,326.5	65.90	21.128	
13,800.0	11,650.0	13,995.4	11,820.0	33.8	33.9	-97.02	-2,411.8	758.8	1,391.6	1,324.5	67.15	20.725	
13,900.0	11,650.0	14,095.4	11,820.0	34.4	34.5	-97.02	-2,511.8	758.2	1,390.8	1,322.4	68.42	20.327	
14,000.0	11,650.0	14,195.4	11,820.0	35.1	35.2	-97.03	-2,611.8	757.6	1,389.9	1,320.2	69.72	19.936	
14,100.0	11,650.0	14,295.4	11,820.0	35.8	35.8	-97.03	-2,711.8	757.0	1,389.1	1,318.1	71.05	19.552	
14,200.0	11,650.0	14,395.4	11,820.0	36.4	36.5	-97.03	-2,811.7	756.4	1,388.3	1,315.9	72.40	19.175	
14,300.0	11,650.0	14,495.4	11,820.0	37.1	37.2	-97.04	-2,911.7	755.8	1,387.4	1,313.7	73.78	18.806	
14,400.0	11,650.0	14,595.4	11,820.0	37.8	37.9	-97.04	-3,011.7	755.2	1,386.6	1,311.4	75.18	18.445	
14,500.0	11,650.0	14,695.4	11,820.0	38.6	38.6	-97.05	-3,111.7	754.6	1,385.8	1,309.2	76.60	18.092	
14,600.0	11,650.0	14,795.4	11,820.0	39.3	39.4	-97.05	-3,211.7	754.0	1,385.0	1,306.9	78.04	17.747	
14,700.0	11,650.0	14,895.4	11,820.0	40.0	40.1	-97.06	-3,311.7	753.4	1,384.1	1,304.6	79.50	17.411	
14,800.0	11,650.0	14,995.4	11,820.0	40.8	40.9	-97.06	-3,411.7	752.8	1,383.3	1,302.3	80.97	17.083	
14,900.0	11,650.0	15,095.4	11,820.0	41.6	41.6	-97.06	-3,511.7	752.2	1,382.5	1,300.0	82.47	16.764	
15,000.0	11,650.0	15,195.4	11,820.0	42.3	42.4	-97.07	-3,611.7	751.7	1,381.6	1,297.6	83.98	16.453	
15,100.0	11,650.0	15,295.4	11,820.0	43.1	43.2	-97.07	-3,711.7	751.1	1,380.8	1,295.3	85.50	16.149	
15,200.0	11,650.0	15,395.3	11,820.0	43.9	44.0	-97.08	-3,811.7	750.5	1,380.0	1,292.9	87.04	15.854	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	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)			
15,300.0	11,650.0	15,495.3	11,820.0	44.7	44.7	-97.08	-3,911.7	749.9	1,379.1	1,290.5	88.59	15.567	
15,400.0	11,650.0	15,595.3	11,820.0	45.5	45.5	-97.09	-4,011.7	749.3	1,378.3	1,288.1	90.16	15.287	
15,500.0	11,650.0	15,695.3	11,820.0	46.3	46.3	-97.09	-4,111.7	748.7	1,377.5	1,285.7	91.74	15.015	
15,600.0	11,650.0	15,795.3	11,820.0	47.1	47.1	-97.09	-4,211.7	748.1	1,376.6	1,283.3	93.33	14.751	
15,700.0	11,650.0	15,895.3	11,820.0	47.9	48.0	-97.10	-4,311.7	747.5	1,375.8	1,280.9	94.93	14.493	
15,800.0	11,650.0	15,995.3	11,820.0	48.7	48.8	-97.10	-4,411.7	746.9	1,375.0	1,278.4	96.54	14.243	
15,900.0	11,650.0	16,095.3	11,820.0	49.6	49.6	-97.11	-4,511.7	746.3	1,374.1	1,276.0	98.16	13.999	
16,000.0	11,650.0	16,195.3	11,820.0	50.4	50.4	-97.11	-4,611.7	745.7	1,373.3	1,273.5	99.79	13.762	
16,100.0	11,650.0	16,295.3	11,820.0	51.2	51.3	-97.12	-4,711.6	745.1	1,372.5	1,271.0	101.43	13.531	
16,200.0	11,650.0	16,395.3	11,820.0	52.1	52.1	-97.12	-4,811.6	744.5	1,371.6	1,268.6	103.08	13.307	
16,300.0	11,650.0	16,495.3	11,820.0	52.9	52.9	-97.12	-4,911.6	743.9	1,370.8	1,266.1	104.74	13.088	
16,400.0	11,650.0	16,595.3	11,820.0	53.8	53.8	-97.13	-5,011.6	743.3	1,370.0	1,263.6	106.40	12.876	
16,500.0	11,650.0	16,695.3	11,820.0	54.6	54.6	-97.13	-5,111.6	742.7	1,369.1	1,261.1	108.07	12.669	
16,600.0	11,650.0	16,795.3	11,820.0	55.5	55.5	-97.14	-5,211.6	742.1	1,368.3	1,258.6	109.75	12.467	
16,700.0	11,650.0	16,895.3	11,820.0	56.3	56.3	-97.14	-5,311.6	741.5	1,367.5	1,256.0	111.44	12.271	
16,800.0	11,650.0	16,995.3	11,820.0	57.2	57.2	-97.15	-5,411.6	740.9	1,366.7	1,253.5	113.13	12.081	
16,900.0	11,650.0	17,095.3	11,820.0	58.1	58.1	-97.15	-5,511.6	740.3	1,365.8	1,251.0	114.83	11.895	
17,000.0	11,650.0	17,195.3	11,820.0	58.9	58.9	-97.15	-5,611.6	739.7	1,365.0	1,248.5	116.53	11.714	
17,100.0	11,650.0	17,295.3	11,820.0	59.8	59.8	-97.16	-5,711.6	739.1	1,364.2	1,245.9	118.24	11.537	
17,200.0	11,650.0	17,395.3	11,820.0	60.7	60.7	-97.16	-5,811.6	738.6	1,363.3	1,243.4	119.95	11.365	
17,300.0	11,650.0	17,495.3	11,820.0	61.5	61.5	-97.17	-5,911.6	738.0	1,362.5	1,240.8	121.67	11.198	
17,400.0	11,650.0	17,595.3	11,820.0	62.4	62.4	-97.17	-6,011.6	737.4	1,361.7	1,238.3	123.40	11.035	
17,500.0	11,650.0	17,695.3	11,820.0	63.3	63.3	-97.18	-6,111.6	736.8	1,360.8	1,235.7	125.13	10.875	
17,600.0	11,650.0	17,795.3	11,820.0	64.2	64.2	-97.18	-6,211.6	736.2	1,360.0	1,233.1	126.86	10.720	
17,700.0	11,650.0	17,895.3	11,820.0	65.1	65.1	-97.19	-6,311.6	735.6	1,359.2	1,230.6	128.60	10.569	
17,800.0	11,650.0	17,995.3	11,820.0	66.0	65.9	-97.19	-6,411.6	735.0	1,358.3	1,228.0	130.35	10.421	
17,900.0	11,650.0	18,095.3	11,820.0	66.9	66.8	-97.19	-6,511.6	734.4	1,357.5	1,225.4	132.09	10.277	
18,000.0	11,650.0	18,195.2	11,820.0	67.7	67.7	-97.20	-6,611.5	733.8	1,356.7	1,222.8	133.84	10.136	
18,100.0	11,650.0	18,295.2	11,820.0	68.6	68.6	-97.20	-6,711.5	733.2	1,355.8	1,220.2	135.60	9.999	
18,200.0	11,650.0	18,395.2	11,820.0	69.5	69.5	-97.21	-6,811.5	732.6	1,355.0	1,217.7	137.36	9.865	
18,300.0	11,650.0	18,495.2	11,820.0	70.4	70.4	-97.21	-6,911.5	732.0	1,354.2	1,215.1	139.12	9.734	
18,400.0	11,650.0	18,595.2	11,820.0	71.3	71.3	-97.22	-7,011.5	731.4	1,353.3	1,212.5	140.88	9.606	
18,500.0	11,650.0	18,695.2	11,820.0	72.2	72.2	-97.22	-7,111.5	730.8	1,352.5	1,209.9	142.65	9.481	
18,600.0	11,650.0	18,795.2	11,820.0	73.1	73.1	-97.23	-7,211.5	730.2	1,351.7	1,207.3	144.42	9.359	
18,700.0	11,650.0	18,895.2	11,820.0	74.0	74.0	-97.23	-7,311.5	729.6	1,350.8	1,204.7	146.20	9.240	
18,800.0	11,650.0	18,995.2	11,820.0	74.9	74.9	-97.23	-7,411.5	729.0	1,350.0	1,202.0	147.97	9.123	
18,900.0	11,650.0	19,095.2	11,820.0	75.9	75.8	-97.24	-7,511.5	728.4	1,349.2	1,199.4	149.75	9.009	
19,000.0	11,650.0	19,195.2	11,820.0	76.8	76.7	-97.24	-7,611.5	727.8	1,348.4	1,196.8	151.53	8.898	
19,100.0	11,650.0	19,295.2	11,820.0	77.7	77.3	-97.25	-7,711.5	727.2	1,347.5	1,194.5	153.06	8.804	
19,120.2	11,650.0	19,304.3	11,820.0	77.8	77.4	-97.25	-7,720.5	727.2	1,347.4	1,194.2	153.25	8.792	
19,125.0	11,650.0	19,304.3	11,820.0	77.8	77.4	-97.25	-7,720.5	727.2	1,347.4	1,194.1	153.28	8.791	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	104.35	-348.9	1,363.3	1,407.2	1,400.8	6.43	218.894			
100.0	100.0	100.0	100.0	3.2	3.2	104.35	-348.9	1,363.3	1,407.2	1,400.4	6.89	204.175			
200.0	200.0	200.0	200.0	3.5	3.5	104.35	-348.9	1,363.3	1,407.2	1,399.9	7.33	192.032			
300.0	300.0	300.0	300.0	3.7	3.7	104.35	-348.9	1,363.3	1,407.2	1,399.5	7.74	181.784			
400.0	400.0	400.0	400.0	3.9	3.9	104.35	-348.9	1,363.3	1,407.2	1,399.1	8.14	172.976			
500.0	500.0	500.0	500.0	4.1	4.1	104.35	-348.9	1,363.3	1,407.2	1,398.7	8.51	165.295			
600.0	600.0	600.0	600.0	4.2	4.2	104.35	-348.9	1,363.3	1,407.2	1,398.4	8.88	158.516			
700.0	700.0	700.0	700.0	4.4	4.4	104.35	-348.9	1,363.3	1,407.2	1,398.0	9.23	152.473			
800.0	800.0	800.0	800.0	4.6	4.6	104.35	-348.9	1,363.3	1,407.2	1,397.7	9.57	147.040			
900.0	900.0	900.0	900.0	4.8	4.8	104.35	-348.9	1,363.3	1,407.2	1,397.3	9.90	142.119			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	104.35	-348.9	1,363.3	1,407.2	1,397.0	10.22	137.632	CC		
1,100.0	1,100.0	1,137.4	1,137.3	5.2	5.3	-157.37	-345.8	1,362.2	1,407.5	1,396.8	10.71	131.412	ES		
1,200.0	1,199.8	1,274.1	1,273.7	5.4	5.7	-157.80	-336.5	1,359.0	1,408.4	1,397.2	11.19	125.867			
1,300.0	1,299.5	1,409.5	1,408.1	5.7	6.1	-158.52	-321.3	1,353.6	1,410.0	1,398.3	11.71	120.458			
1,400.0	1,398.7	1,507.7	1,505.3	6.0	6.3	-159.15	-308.1	1,349.0	1,413.8	1,401.7	12.12	116.605			
1,500.0	1,497.6	1,606.0	1,602.6	6.1	6.6	-159.82	-295.0	1,344.4	1,420.4	1,407.9	12.45	114.088			
1,600.0	1,596.4	1,704.2	1,699.8	6.4	6.8	-160.51	-281.8	1,339.8	1,427.4	1,414.5	12.86	110.963			
1,700.0	1,695.3	1,802.5	1,797.1	6.7	7.1	-161.19	-268.7	1,335.1	1,434.6	1,421.3	13.30	107.869			
1,800.0	1,794.1	1,900.7	1,894.3	6.9	7.4	-161.86	-255.5	1,330.5	1,442.0	1,428.2	13.75	104.835			
1,900.0	1,892.9	1,999.0	1,991.6	7.2	7.7	-162.52	-242.4	1,325.9	1,449.6	1,435.4	14.23	101.885			
2,000.0	1,991.8	2,097.2	2,088.8	7.6	8.0	-163.18	-229.2	1,321.3	1,457.4	1,442.7	14.72	99.033			
2,100.0	2,090.6	2,195.5	2,186.1	7.9	8.4	-163.83	-216.0	1,316.6	1,465.4	1,450.2	15.22	96.291			
2,200.0	2,189.5	2,293.7	2,283.4	8.2	8.7	-164.48	-202.9	1,312.0	1,473.7	1,457.9	15.73	93.664			
2,300.0	2,288.3	2,392.0	2,380.6	8.6	9.0	-165.12	-189.7	1,307.4	1,482.0	1,465.8	16.26	91.154			
2,400.0	2,387.2	2,490.2	2,477.9	8.9	9.4	-165.75	-176.6	1,302.8	1,490.6	1,473.8	16.79	88.763			
2,500.0	2,486.0	2,588.5	2,575.1	9.3	9.8	-166.37	-163.4	1,298.1	1,499.4	1,482.0	17.34	86.487			
2,600.0	2,584.8	2,686.7	2,672.4	9.7	10.1	-166.99	-150.2	1,293.5	1,508.3	1,490.4	17.89	84.325			
2,700.0	2,683.7	2,785.0	2,769.6	10.0	10.5	-167.60	-137.1	1,288.9	1,517.4	1,499.0	18.44	82.273			
2,800.0	2,782.5	2,883.2	2,866.9	10.4	10.9	-168.20	-123.9	1,284.3	1,526.7	1,507.7	19.01	80.326			
2,900.0	2,881.4	2,981.4	2,964.1	10.8	11.2	-168.80	-110.8	1,279.6	1,536.2	1,516.6	19.57	78.479			
3,000.0	2,980.2	3,079.7	3,061.4	11.2	11.6	-169.38	-97.6	1,275.0	1,545.8	1,525.7	20.15	76.727			
3,100.0	3,079.0	3,177.9	3,158.6	11.6	12.0	-169.97	-84.5	1,270.4	1,555.6	1,534.9	20.72	75.066			
3,200.0	3,177.9	3,276.2	3,255.9	12.0	12.4	-170.54	-71.3	1,265.8	1,565.5	1,544.2	21.30	73.491			
3,300.0	3,276.7	3,374.4	3,353.2	12.4	12.8	-171.11	-58.1	1,261.2	1,575.6	1,553.8	21.89	71.975			
3,400.0	3,375.6	3,467.3	3,445.1	12.8	13.1	-171.63	-46.0	1,256.9	1,586.0	1,563.6	22.46	70.607			
3,500.0	3,474.4	3,557.5	3,534.6	13.2	13.5	-172.08	-35.4	1,253.2	1,597.0	1,574.0	23.03	69.351			
3,600.0	3,573.3	3,647.9	3,624.5	13.6	13.8	-172.48	-26.2	1,249.9	1,608.6	1,585.0	23.60	68.175			
3,700.0	3,672.1	3,738.6	3,714.8	14.0	14.2	-172.83	-18.3	1,247.1	1,620.8	1,596.6	24.16	67.078			
3,800.0	3,770.9	3,829.4	3,805.3	14.4	14.5	-173.12	-11.7	1,244.8	1,633.5	1,608.8	24.73	66.055			
3,900.0	3,869.8	3,920.3	3,896.1	14.8	14.8	-173.36	-6.5	1,243.0	1,646.7	1,621.4	25.30	65.101			
4,000.0	3,968.6	4,011.3	3,987.0	15.3	15.1	-173.56	-2.6	1,241.6	1,660.5	1,634.6	25.86	64.211			
4,100.0	4,067.5	4,100.0	4,075.6	15.7	15.4	-173.69	-0.1	1,240.8	1,674.7	1,648.3	26.42	63.395			
4,200.0	4,166.3	4,193.4	4,169.0	16.1	15.6	-173.79	1.1	1,240.3	1,689.4	1,662.4	26.98	62.614			
4,300.0	4,265.1	4,289.5	4,265.1	16.5	15.7	-173.85	1.1	1,240.3	1,704.5	1,677.0	27.52	61.934			
4,400.0	4,364.0	4,388.4	4,364.0	16.9	15.7	-173.90	1.1	1,240.3	1,719.6	1,691.5	28.08	61.229			
4,500.0	4,462.8	4,487.2	4,462.8	17.4	15.8	-173.95	1.1	1,240.3	1,734.7	1,706.0	28.65	60.543			
4,600.0	4,561.7	4,586.1	4,561.7	17.8	15.9	-174.01	1.1	1,240.3	1,749.8	1,720.5	29.22	59.879			
4,700.0	4,660.5	4,684.9	4,660.5	18.2	15.9	-174.06	1.1	1,240.3	1,764.9	1,735.1	29.79	59.235			
4,800.0	4,759.4	4,783.7	4,759.4	18.6	16.0	-174.11	1.1	1,240.3	1,779.9	1,749.6	30.37	58.611			
4,900.0	4,858.2	4,882.6	4,858.2	19.1	16.1	-174.16	1.1	1,240.3	1,795.0	1,764.1	30.95	58.006			
5,000.0	4,957.0	4,981.4	4,957.0	19.5	16.1	-174.21	1.1	1,240.3	1,810.1	1,778.6	31.52	57.420			

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,055.9	5,080.3	5,055.9	19.9	16.2	-174.25	1.1	1,240.3	1,825.2	1,793.1	32.11	56.851	
5,200.0	5,154.7	5,179.1	5,154.7	20.3	16.2	-174.30	1.1	1,240.3	1,840.4	1,807.7	32.69	56.300	
5,300.0	5,253.6	5,278.0	5,253.6	20.8	16.3	-174.35	1.1	1,240.3	1,855.4	1,822.2	33.25	55.794	
5,400.0	5,352.6	5,377.0	5,352.6	21.2	16.4	-174.41	1.1	1,240.3	1,869.3	1,835.4	33.84	55.246	
5,500.0	5,451.8	5,476.2	5,451.8	21.6	16.4	-174.45	1.1	1,240.3	1,881.4	1,847.0	34.40	54.694	
5,600.0	5,551.3	5,575.7	5,551.3	22.0	16.5	-174.50	1.1	1,240.3	1,891.8	1,856.8	34.95	54.134	
5,700.0	5,650.9	5,675.3	5,650.9	22.4	16.6	-174.53	1.1	1,240.3	1,900.4	1,865.0	35.48	53.570	
5,800.0	5,750.7	5,775.1	5,750.7	22.7	16.6	-174.56	1.1	1,240.3	1,907.4	1,871.4	35.98	53.007	
5,900.0	5,850.5	5,874.9	5,850.5	23.1	16.7	-174.58	1.1	1,240.3	1,912.6	1,876.1	36.46	52.452	
6,000.0	5,950.5	5,974.9	5,950.5	23.4	16.8	-174.59	1.1	1,240.3	1,916.0	1,879.1	36.91	51.916	
6,100.0	6,050.5	6,074.8	6,050.5	23.6	16.8	-174.59	1.1	1,240.3	1,917.8	1,880.5	37.29	51.427	
6,200.0	6,150.5	6,174.8	6,150.5	23.7	16.9	86.98	1.1	1,240.3	1,918.0	1,880.6	37.43	51.245	
6,300.0	6,250.5	6,274.8	6,250.5	23.7	17.0	86.98	1.1	1,240.3	1,918.0	1,880.5	37.53	51.112	
6,400.0	6,350.5	6,374.8	6,350.5	23.8	17.0	86.98	1.1	1,240.3	1,918.0	1,880.4	37.62	50.979	
6,500.0	6,450.5	6,474.8	6,450.5	23.8	17.1	86.98	1.1	1,240.3	1,918.0	1,880.3	37.72	50.846	
6,600.0	6,550.5	6,574.8	6,550.5	23.8	17.2	86.98	1.1	1,240.3	1,918.0	1,880.2	37.82	50.714	
6,700.0	6,650.5	6,674.8	6,650.5	23.9	17.2	86.98	1.1	1,240.3	1,918.0	1,880.1	37.92	50.581	
6,800.0	6,750.5	6,774.8	6,750.5	23.9	17.3	86.98	1.1	1,240.3	1,918.0	1,880.0	38.02	50.448	
6,900.0	6,850.5	6,874.8	6,850.5	23.9	17.4	86.98	1.1	1,240.3	1,918.0	1,879.9	38.12	50.316	
7,000.0	6,950.5	6,974.8	6,950.5	24.0	17.4	86.98	1.1	1,240.3	1,918.0	1,879.8	38.22	50.184	
7,100.0	7,050.5	7,074.8	7,050.5	24.0	17.5	86.98	1.1	1,240.3	1,918.0	1,879.7	38.32	50.052	
7,200.0	7,150.5	7,174.8	7,150.5	24.0	17.6	86.98	1.1	1,240.3	1,918.0	1,879.6	38.42	49.920	
7,300.0	7,250.5	7,274.8	7,250.5	24.1	17.6	86.98	1.1	1,240.3	1,918.0	1,879.5	38.52	49.788	
7,400.0	7,350.5	7,374.8	7,350.5	24.1	17.7	86.98	1.1	1,240.3	1,918.0	1,879.4	38.63	49.656	
7,500.0	7,450.5	7,474.8	7,450.5	24.1	17.8	86.98	1.1	1,240.3	1,918.0	1,879.3	38.73	49.525	
7,600.0	7,550.5	7,574.8	7,550.5	24.2	17.8	86.98	1.1	1,240.3	1,918.0	1,879.2	38.83	49.394	
7,700.0	7,650.5	7,674.8	7,650.5	24.2	17.9	86.98	1.1	1,240.3	1,918.0	1,879.1	38.93	49.263	
7,800.0	7,750.5	7,774.8	7,750.5	24.2	18.0	86.98	1.1	1,240.3	1,918.0	1,879.0	39.04	49.132	
7,900.0	7,850.5	7,874.8	7,850.5	24.3	18.0	86.98	1.1	1,240.3	1,918.0	1,878.8	39.14	49.001	
8,000.0	7,950.5	7,974.8	7,950.5	24.3	18.1	86.98	1.1	1,240.3	1,918.0	1,878.7	39.25	48.871	
8,100.0	8,050.5	8,074.8	8,050.5	24.3	18.2	86.98	1.1	1,240.3	1,918.0	1,878.6	39.35	48.740	
8,200.0	8,150.5	8,174.8	8,150.5	24.4	18.3	86.98	1.1	1,240.3	1,918.0	1,878.5	39.46	48.610	
8,300.0	8,250.5	8,274.8	8,250.5	24.4	18.3	86.98	1.1	1,240.3	1,918.0	1,878.4	39.56	48.481	
8,400.0	8,350.5	8,374.8	8,350.5	24.5	18.4	86.98	1.1	1,240.3	1,918.0	1,878.3	39.67	48.351	
8,500.0	8,450.5	8,474.8	8,450.5	24.5	18.5	86.98	1.1	1,240.3	1,918.0	1,878.2	39.77	48.222	
8,600.0	8,550.5	8,574.8	8,550.5	24.5	18.5	86.98	1.1	1,240.3	1,918.0	1,878.1	39.88	48.093	
8,700.0	8,650.5	8,674.8	8,650.5	24.6	18.6	86.98	1.1	1,240.3	1,918.0	1,878.0	39.99	47.964	
8,800.0	8,750.5	8,774.8	8,750.5	24.6	18.7	86.98	1.1	1,240.3	1,918.0	1,877.9	40.10	47.835	
8,900.0	8,850.5	8,874.8	8,850.5	24.6	18.7	86.98	1.1	1,240.3	1,918.0	1,877.8	40.20	47.707	
9,000.0	8,950.5	8,974.8	8,950.5	24.7	18.8	86.98	1.1	1,240.3	1,918.0	1,877.7	40.31	47.579	
9,100.0	9,050.5	9,074.8	9,050.5	24.7	18.9	86.98	1.1	1,240.3	1,918.0	1,877.6	40.42	47.451	
9,200.0	9,150.5	9,174.8	9,150.5	24.8	19.0	86.98	1.1	1,240.3	1,918.0	1,877.5	40.53	47.324	
9,300.0	9,250.5	9,274.8	9,250.5	24.8	19.0	86.98	1.1	1,240.3	1,918.0	1,877.3	40.64	47.196	
9,400.0	9,350.5	9,374.8	9,350.5	24.8	19.1	86.98	1.1	1,240.3	1,918.0	1,877.2	40.75	47.069	
9,500.0	9,450.5	9,474.8	9,450.5	24.9	19.2	86.98	1.1	1,240.3	1,918.0	1,877.1	40.86	46.943	
9,600.0	9,550.5	9,574.8	9,550.5	24.9	19.2	86.98	1.1	1,240.3	1,918.0	1,877.0	40.97	46.816	
9,700.0	9,650.5	9,674.8	9,650.5	25.0	19.3	86.98	1.1	1,240.3	1,918.0	1,876.9	41.08	46.690	
9,800.0	9,750.5	9,774.8	9,750.5	25.0	19.4	86.98	1.1	1,240.3	1,918.0	1,876.8	41.19	46.564	
9,900.0	9,850.5	9,874.8	9,850.5	25.0	19.4	86.98	1.1	1,240.3	1,918.0	1,876.7	41.30	46.439	
10,000.0	9,950.5	9,974.8	9,950.5	25.1	19.5	86.98	1.1	1,240.3	1,918.0	1,876.6	41.41	46.314	
10,100.0	10,050.5	10,074.8	10,050.5	25.1	19.6	86.98	1.1	1,240.3	1,918.0	1,876.5	41.52	46.189	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
10,200.0	10,150.5	10,174.8	10,150.5	25.2	19.7	86.98	1.1	1,240.3	1,918.0	1,876.4	41.64	46.064	
10,300.0	10,250.5	10,274.8	10,250.5	25.2	19.7	86.98	1.1	1,240.3	1,918.0	1,876.2	41.75	45.940	
10,400.0	10,350.5	10,374.8	10,350.5	25.2	19.8	86.98	1.1	1,240.3	1,918.0	1,876.1	41.86	45.816	
10,500.0	10,450.5	10,474.8	10,450.5	25.3	19.9	86.98	1.1	1,240.3	1,918.0	1,876.0	41.98	45.693	
10,600.0	10,550.5	10,574.8	10,550.5	25.3	19.9	86.98	1.1	1,240.3	1,918.0	1,875.9	42.09	45.569	
10,700.0	10,650.5	10,674.8	10,650.5	25.4	20.0	86.98	1.1	1,240.3	1,918.0	1,875.8	42.20	45.446	
10,800.0	10,750.5	10,774.8	10,750.5	25.4	20.1	86.98	1.1	1,240.3	1,918.0	1,875.7	42.32	45.324	
10,900.0	10,850.5	10,874.8	10,850.5	25.4	20.2	86.98	1.1	1,240.3	1,918.0	1,875.6	42.43	45.201	
11,000.0	10,950.5	10,974.8	10,950.5	25.5	20.2	86.98	1.1	1,240.3	1,918.0	1,875.4	42.55	45.080	
11,100.0	11,050.5	11,074.8	11,050.5	25.5	20.3	86.98	1.1	1,240.3	1,918.0	1,875.3	42.66	44.958	
11,200.0	11,150.5	11,174.8	11,150.5	25.6	20.4	86.98	1.1	1,240.3	1,918.0	1,875.2	42.78	44.838	
11,300.0	11,250.1	11,300.1	11,274.9	25.6	20.2	-88.33	-10.0	1,240.2	1,917.3	1,874.5	42.79	44.802	
11,400.0	11,346.4	11,430.2	11,396.6	25.6	19.8	-88.34	-54.7	1,239.8	1,914.4	1,871.6	42.75	44.780	
11,500.0	11,435.0	11,555.4	11,498.2	25.6	19.5	-88.40	-127.2	1,239.2	1,909.5	1,866.8	42.69	44.728	
11,600.0	11,512.2	11,674.2	11,574.2	25.7	19.2	-88.52	-218.2	1,238.4	1,902.9	1,860.3	42.65	44.622	
11,700.0	11,574.5	11,786.2	11,623.2	25.8	19.1	-88.71	-318.6	1,237.5	1,895.1	1,852.5	42.65	44.433	
11,800.0	11,619.3	11,891.8	11,646.8	25.9	19.0	-88.98	-421.3	1,236.6	1,886.6	1,843.8	42.74	44.143	
11,900.0	11,644.5	11,991.2	11,650.0	26.0	19.1	-89.38	-520.7	1,235.8	1,877.6	1,834.7	42.93	43.737	
12,000.0	11,650.0	12,090.6	11,650.0	26.1	19.1	-90.00	-620.0	1,234.9	1,868.7	1,825.4	43.28	43.173	
12,100.0	11,650.0	12,190.4	11,650.0	26.3	19.2	-90.00	-719.8	1,234.0	1,862.4	1,818.6	43.78	42.542	
12,200.1	11,650.0	12,290.4	11,650.0	26.5	19.3	-90.00	-819.8	1,233.2	1,859.5	1,815.2	44.34	41.933	
12,300.0	11,650.0	12,390.3	11,650.0	26.8	19.4	-90.00	-919.7	1,232.3	1,858.4	1,813.4	44.96	41.333	
12,400.0	11,650.0	12,490.3	11,650.0	27.1	19.5	-90.00	-1,019.7	1,231.4	1,857.3	1,811.6	45.65	40.685	
12,500.0	11,650.0	12,590.3	11,650.0	27.4	19.8	-90.00	-1,119.7	1,230.6	1,856.2	1,809.8	46.41	39.997	
12,600.0	11,650.0	12,690.3	11,650.0	27.7	20.0	-90.00	-1,219.7	1,229.7	1,855.1	1,807.8	47.23	39.278	
12,700.0	11,650.0	12,790.3	11,650.0	28.1	20.4	-90.00	-1,319.7	1,228.8	1,853.9	1,805.8	48.11	38.535	
12,800.0	11,650.0	12,890.3	11,650.0	28.5	20.8	-90.00	-1,419.7	1,228.0	1,852.8	1,803.8	49.05	37.774	
12,900.0	11,650.0	12,990.3	11,650.0	28.9	21.3	-90.00	-1,519.7	1,227.1	1,851.7	1,801.7	50.05	37.001	
13,000.0	11,650.0	13,090.3	11,650.0	29.3	21.9	-90.00	-1,619.6	1,226.2	1,850.6	1,799.5	51.09	36.221	
13,100.0	11,650.0	13,190.3	11,650.0	29.8	22.4	-90.00	-1,719.6	1,225.4	1,849.5	1,797.3	52.19	35.440	
13,200.0	11,650.0	13,290.3	11,650.0	30.3	23.1	-90.00	-1,819.6	1,224.5	1,848.4	1,795.1	53.33	34.662	
13,300.0	11,650.0	13,390.3	11,650.0	30.8	23.7	-90.00	-1,919.6	1,223.6	1,847.3	1,792.8	54.51	33.890	
13,400.0	11,650.0	13,490.2	11,650.0	31.4	24.4	-90.00	-2,019.6	1,222.7	1,846.2	1,790.4	55.73	33.127	
13,500.0	11,650.0	13,590.2	11,650.0	32.0	25.1	-90.00	-2,119.6	1,221.9	1,845.0	1,788.1	56.99	32.376	
13,600.0	11,650.0	13,690.2	11,650.0	32.6	25.8	-90.00	-2,219.6	1,221.0	1,843.9	1,785.6	58.28	31.639	
13,700.0	11,650.0	13,790.2	11,650.0	33.2	26.5	-90.00	-2,319.6	1,220.1	1,842.8	1,783.2	59.61	30.916	
13,800.0	11,650.0	13,890.2	11,650.0	33.8	27.3	-90.00	-2,419.6	1,219.3	1,841.7	1,780.7	60.96	30.210	
13,900.0	11,650.0	13,990.2	11,650.0	34.4	28.1	-90.00	-2,519.6	1,218.4	1,840.6	1,778.2	62.35	29.522	
14,000.0	11,650.0	14,090.2	11,650.0	35.1	28.8	-90.00	-2,619.5	1,217.5	1,839.5	1,775.7	63.76	28.851	
14,100.0	11,650.0	14,190.2	11,650.0	35.8	29.6	-90.00	-2,719.5	1,216.7	1,838.4	1,773.2	65.19	28.199	
14,200.0	11,650.0	14,290.2	11,650.0	36.4	30.4	-90.00	-2,819.5	1,215.8	1,837.2	1,770.6	66.65	27.565	
14,300.0	11,650.0	14,390.2	11,650.0	37.1	31.2	-90.00	-2,919.5	1,214.9	1,836.1	1,768.0	68.13	26.950	
14,400.0	11,650.0	14,490.2	11,650.0	37.8	32.0	-90.00	-3,019.5	1,214.0	1,835.0	1,765.4	69.63	26.354	
14,500.0	11,650.0	14,590.2	11,650.0	38.6	32.9	-90.00	-3,119.5	1,213.2	1,833.9	1,762.8	71.15	25.775	
14,600.0	11,650.0	14,690.2	11,650.0	39.3	33.7	-90.00	-3,219.5	1,212.3	1,832.8	1,760.1	72.69	25.215	
14,700.0	11,650.0	14,790.2	11,650.0	40.0	34.5	-90.00	-3,319.5	1,211.4	1,831.7	1,757.4	74.24	24.673	
14,800.0	11,650.0	14,890.2	11,650.0	40.8	35.4	-90.00	-3,419.5	1,210.6	1,830.6	1,754.8	75.81	24.147	
14,900.0	11,650.0	14,990.2	11,650.0	41.6	36.2	-90.00	-3,519.5	1,209.7	1,829.5	1,752.1	77.39	23.639	
15,000.0	11,650.0	15,090.1	11,650.0	42.3	37.1	-90.00	-3,619.4	1,208.8	1,828.3	1,749.4	78.99	23.147	
15,100.0	11,650.0	15,190.1	11,650.0	43.1	38.0	-90.00	-3,719.4	1,208.0	1,827.2	1,746.6	80.60	22.671	
15,200.0	11,650.0	15,290.1	11,650.0	43.9	38.8	-90.00	-3,819.4	1,207.1	1,826.1	1,743.9	82.22	22.210	

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												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 (usft)		
15,300.0	11,650.0	15,390.1	11,650.0	44.7	39.7	-90.00	-3,919.4	1,206.2	1,825.0	1,741.2	83.86	21.764	
15,400.0	11,650.0	15,490.1	11,650.0	45.5	40.6	-90.00	-4,019.4	1,205.3	1,823.9	1,738.4	85.50	21.332	
15,500.0	11,650.0	15,590.1	11,650.0	46.3	41.4	-90.00	-4,119.4	1,204.5	1,822.8	1,735.6	87.15	20.914	
15,600.0	11,650.0	15,690.1	11,650.0	47.1	42.3	-90.00	-4,219.4	1,203.6	1,821.7	1,732.9	88.82	20.510	
15,700.0	11,650.0	15,790.1	11,650.0	47.9	43.2	-90.00	-4,319.4	1,202.7	1,820.6	1,730.1	90.49	20.118	
15,800.0	11,650.0	15,890.1	11,650.0	48.7	44.1	-90.00	-4,419.4	1,201.9	1,819.4	1,727.3	92.17	19.739	
15,900.0	11,650.0	15,990.1	11,650.0	49.6	45.0	-90.00	-4,519.4	1,201.0	1,818.3	1,724.5	93.86	19.372	
16,000.0	11,650.0	16,090.1	11,650.0	50.4	45.9	-90.00	-4,619.3	1,200.1	1,817.2	1,721.7	95.56	19.016	
16,100.0	11,650.0	16,190.1	11,650.0	51.2	46.8	-90.00	-4,719.3	1,199.3	1,816.1	1,718.8	97.27	18.671	
16,200.0	11,650.0	16,290.1	11,650.0	52.1	47.7	-90.00	-4,819.3	1,198.4	1,815.0	1,716.0	98.98	18.337	
16,300.0	11,650.0	16,390.1	11,650.0	52.9	48.6	-90.00	-4,919.3	1,197.5	1,813.9	1,713.2	100.70	18.013	
16,400.0	11,650.0	16,490.1	11,650.0	53.8	49.5	-90.00	-5,019.3	1,196.7	1,812.8	1,710.3	102.42	17.699	
16,500.0	11,650.0	16,590.1	11,650.0	54.6	50.4	-90.00	-5,119.3	1,195.8	1,811.7	1,707.5	104.15	17.394	
16,600.0	11,650.0	16,690.1	11,650.0	55.5	51.3	-90.00	-5,219.3	1,194.9	1,810.5	1,704.7	105.89	17.099	
16,700.0	11,650.0	16,790.0	11,650.0	56.3	52.2	-90.00	-5,319.3	1,194.0	1,809.4	1,701.8	107.63	16.812	
16,800.0	11,650.0	16,890.0	11,650.0	57.2	53.1	-90.00	-5,419.3	1,193.2	1,808.3	1,698.9	109.38	16.533	
16,900.0	11,650.0	16,990.0	11,650.0	58.1	54.0	-90.00	-5,519.3	1,192.3	1,807.2	1,696.1	111.13	16.262	
17,000.0	11,650.0	17,090.0	11,650.0	58.9	54.9	-90.00	-5,619.2	1,191.4	1,806.1	1,693.2	112.88	16.000	
17,100.0	11,650.0	17,190.0	11,650.0	59.8	55.9	-90.00	-5,719.2	1,190.6	1,805.0	1,690.3	114.64	15.744	
17,200.0	11,650.0	17,290.0	11,650.0	60.7	56.8	-90.00	-5,819.2	1,189.7	1,803.9	1,687.5	116.41	15.496	
17,300.0	11,650.0	17,390.0	11,650.0	61.5	57.7	-90.00	-5,919.2	1,188.8	1,802.8	1,684.6	118.18	15.255	
17,400.0	11,650.0	17,490.0	11,650.0	62.4	58.6	-90.00	-6,019.2	1,188.0	1,801.6	1,681.7	119.95	15.020	
17,500.0	11,650.0	17,590.0	11,650.0	63.3	59.5	-90.00	-6,119.2	1,187.1	1,800.5	1,678.8	121.73	14.792	
17,600.0	11,650.0	17,690.0	11,650.0	64.2	60.5	-90.00	-6,219.2	1,186.2	1,799.4	1,675.9	123.50	14.570	
17,700.0	11,650.0	17,790.0	11,650.0	65.1	61.4	-90.00	-6,319.2	1,185.3	1,798.3	1,673.0	125.29	14.353	
17,800.0	11,650.0	17,890.0	11,650.0	66.0	62.3	-90.00	-6,419.2	1,184.5	1,797.2	1,670.1	127.07	14.143	
17,900.0	11,650.0	17,990.0	11,650.0	66.9	63.2	-90.00	-6,519.2	1,183.6	1,796.1	1,667.2	128.86	13.938	
18,000.0	11,650.0	18,090.0	11,650.0	67.7	64.2	-90.00	-6,619.1	1,182.7	1,795.0	1,664.3	130.66	13.738	
18,100.0	11,650.0	18,190.0	11,650.0	68.6	65.1	-90.00	-6,719.1	1,181.9	1,793.9	1,661.4	132.45	13.544	
18,200.0	11,650.0	18,290.0	11,650.0	69.5	66.0	-90.00	-6,819.1	1,181.0	1,792.7	1,658.5	134.25	13.354	
18,300.0	11,650.0	18,389.9	11,650.0	70.4	66.9	-90.00	-6,919.1	1,180.1	1,791.6	1,655.6	136.05	13.169	
18,400.0	11,650.0	18,489.9	11,650.0	71.3	67.9	-90.00	-7,019.1	1,179.3	1,790.5	1,652.7	137.85	12.989	
18,500.0	11,650.0	18,589.9	11,650.0	72.2	68.8	-90.00	-7,119.1	1,178.4	1,789.4	1,649.7	139.66	12.813	
18,600.0	11,650.0	18,689.9	11,650.0	73.1	69.7	-90.00	-7,219.1	1,177.5	1,788.3	1,646.8	141.46	12.641	
18,700.0	11,650.0	18,789.9	11,650.0	74.0	70.7	-90.00	-7,319.1	1,176.6	1,787.2	1,643.9	143.27	12.474	
18,800.0	11,650.0	18,889.9	11,650.0	74.9	71.6	-90.00	-7,419.1	1,175.8	1,786.1	1,641.0	145.09	12.310	
18,900.0	11,650.0	18,989.9	11,650.0	75.9	72.5	-90.00	-7,519.1	1,174.9	1,785.0	1,638.1	146.90	12.151	
19,000.0	11,650.0	19,089.9	11,650.0	76.8	73.5	-90.00	-7,619.0	1,174.0	1,783.8	1,635.1	148.72	11.995	
19,100.0	11,650.0	19,188.8	11,650.0	77.7	74.4	-90.00	-7,718.0	1,173.2	1,782.7	1,632.2	150.52	11.844	
19,118.8	11,650.0	19,188.8	11,650.0	77.8	74.4	-90.00	-7,718.0	1,173.2	1,782.6	1,632.0	150.61	11.836	
19,125.0	11,650.0	19,188.8	11,650.0	77.8	74.4	-90.00	-7,718.0	1,173.2	1,782.6	1,632.0	150.64	11.834 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured	Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth		Depth	Depth	Depth			Toolface			Centres	Ellipses	Separation	Factor		
(usft)		(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	(usft)	(usft)	(usft)			
0.0		0.0	0.0	0.0	3.0	3.0	104.04	-348.4	1,393.3	1,436.2	1,429.8	6.43	223.401		
100.0		100.0	100.0	100.0	3.2	3.2	104.04	-348.4	1,393.3	1,436.2	1,429.3	6.89	208.379		
200.0		200.0	200.0	200.0	3.5	3.5	104.04	-348.4	1,393.3	1,436.2	1,428.9	7.33	195.987		
300.0		300.0	300.0	300.0	3.7	3.7	104.04	-348.4	1,393.3	1,436.2	1,428.5	7.74	185.527		
400.0		400.0	400.0	400.0	3.9	3.9	104.04	-348.4	1,393.3	1,436.2	1,428.1	8.14	176.537		
500.0		500.0	500.0	500.0	4.1	4.1	104.04	-348.4	1,393.3	1,436.2	1,427.7	8.51	168.699		
600.0		600.0	600.0	600.0	4.2	4.2	104.04	-348.4	1,393.3	1,436.2	1,427.3	8.88	161.780		
700.0		700.0	700.0	700.0	4.4	4.4	104.04	-348.4	1,393.3	1,436.2	1,427.0	9.23	155.613		
800.0		800.0	800.0	800.0	4.6	4.6	104.04	-348.4	1,393.3	1,436.2	1,426.7	9.57	150.068		
900.0		900.0	900.0	900.0	4.8	4.8	104.04	-348.4	1,393.3	1,436.2	1,426.3	9.90	145.045		
1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	104.04	-348.4	1,393.3	1,436.2	1,426.0	10.22	140.466	CC, ES	
1,100.0	1,100.0	1,081.0	1,081.0	1,081.0	5.2	5.1	-157.58	-347.6	1,394.1	1,438.5	1,427.9	10.60	135.647		
1,200.0	1,199.8	1,161.6	1,161.6	1,161.5	5.4	5.3	-157.71	-345.0	1,396.4	1,445.3	1,434.3	10.98	131.684		
1,300.0	1,299.5	1,241.4	1,241.4	1,241.1	5.7	5.6	-157.92	-340.9	1,400.1	1,456.7	1,445.3	11.36	128.211		
1,400.0	1,398.7	1,319.9	1,319.9	1,319.3	6.0	5.8	-158.21	-335.1	1,405.2	1,472.7	1,460.9	11.77	125.144		
1,500.0	1,497.6	1,406.1	1,406.1	1,404.8	6.1	6.1	-158.72	-327.0	1,412.5	1,492.7	1,480.6	12.09	123.444		
1,600.0	1,596.4	1,491.0	1,491.0	1,488.7	6.4	6.3	-159.30	-318.1	1,420.5	1,513.8	1,501.3	12.46	121.489		
1,700.0	1,695.3	1,587.2	1,587.2	1,584.0	6.7	6.5	-159.95	-308.0	1,429.5	1,535.1	1,522.2	12.89	119.126		
1,800.0	1,794.1	1,683.4	1,683.4	1,679.2	6.9	6.7	-160.58	-297.8	1,438.6	1,556.6	1,543.3	13.34	116.702		
1,900.0	1,892.9	1,779.6	1,779.6	1,774.5	7.2	7.0	-161.19	-287.7	1,447.6	1,578.3	1,564.5	13.81	114.256		
2,000.0	1,991.8	1,875.8	1,875.8	1,869.7	7.6	7.3	-161.78	-277.6	1,456.7	1,600.2	1,585.8	14.31	111.816		
2,100.0	2,090.6	1,972.0	1,972.0	1,964.9	7.9	7.6	-162.36	-267.4	1,465.8	1,622.2	1,607.4	14.83	109.402		
2,200.0	2,189.5	2,068.2	2,068.2	2,060.2	8.2	7.9	-162.93	-257.3	1,474.8	1,644.4	1,629.0	15.36	107.030		
2,300.0	2,288.3	2,164.4	2,164.4	2,155.4	8.6	8.2	-163.48	-247.2	1,483.9	1,666.7	1,650.8	15.92	104.715		
2,400.0	2,387.2	2,260.6	2,260.6	2,250.6	8.9	8.6	-164.01	-237.0	1,493.0	1,689.2	1,672.7	16.49	102.463		
2,500.0	2,486.0	2,356.8	2,356.8	2,345.9	9.3	8.9	-164.53	-226.9	1,502.0	1,711.8	1,694.8	17.07	100.283		
2,600.0	2,584.8	2,453.0	2,453.0	2,441.1	9.7	9.2	-165.04	-216.8	1,511.1	1,734.6	1,716.9	17.67	98.179		
2,700.0	2,683.7	2,549.2	2,549.2	2,536.4	10.0	9.6	-165.54	-206.6	1,520.1	1,757.5	1,739.2	18.28	96.152		
2,800.0	2,782.5	2,645.4	2,645.4	2,631.6	10.4	9.9	-166.02	-196.5	1,529.2	1,780.5	1,761.6	18.90	94.205		
2,900.0	2,881.4	2,741.6	2,741.6	2,726.8	10.8	10.3	-166.49	-186.4	1,538.3	1,803.6	1,784.1	19.53	92.335		
3,000.0	2,980.2	2,837.8	2,837.8	2,822.1	11.2	10.7	-166.95	-176.2	1,547.3	1,826.9	1,806.7	20.18	90.544		
3,100.0	3,079.0	2,934.0	2,934.0	2,917.3	11.6	11.0	-167.40	-166.1	1,556.4	1,850.2	1,829.4	20.83	88.828		
3,200.0	3,177.9	3,030.2	3,030.2	3,012.5	12.0	11.4	-167.84	-156.0	1,565.4	1,873.7	1,852.2	21.49	87.187		
3,300.0	3,276.7	3,126.4	3,126.4	3,107.8	12.4	11.8	-168.26	-145.8	1,574.5	1,897.3	1,875.1	22.16	85.616		
3,400.0	3,375.6	3,222.6	3,222.6	3,203.0	12.8	12.1	-168.68	-135.7	1,583.6	1,920.9	1,898.1	22.84	84.114		
3,500.0	3,474.4	3,318.8	3,318.8	3,298.2	13.2	12.5	-169.09	-125.6	1,592.6	1,944.7	1,921.2	23.52	82.679		
3,600.0	3,573.3	3,415.0	3,415.0	3,393.5	13.6	12.9	-169.48	-115.4	1,601.7	1,968.5	1,944.3	24.21	81.305		
3,700.0	3,672.1	3,511.2	3,511.2	3,488.7	14.0	13.3	-169.87	-105.3	1,610.7	1,992.5	1,967.6	24.91	79.992		
3,800.0	3,770.9	3,607.4	3,607.4	3,584.0	14.4	13.7	-170.25	-95.2	1,619.8	2,016.5	1,990.9	25.61	78.737		
3,900.0	3,869.8	3,703.6	3,703.6	3,679.2	14.8	14.1	-170.62	-85.0	1,628.9	2,040.6	2,014.3	26.32	77.535		
4,000.0	3,968.6	3,799.8	3,799.8	3,774.4	15.3	14.4	-170.98	-74.9	1,637.9	2,064.8	2,037.8	27.03	76.386		
4,100.0	4,067.5	3,896.0	3,896.0	3,869.7	15.7	14.8	-171.33	-64.8	1,647.0	2,089.1	2,061.3	27.75	75.285		
4,200.0	4,166.3	3,992.2	3,992.2	3,964.9	16.1	15.2	-171.68	-54.6	1,656.1	2,113.4	2,084.9	28.47	74.231		
4,300.0	4,265.1	4,088.4	4,088.4	4,060.1	16.5	15.6	-172.01	-44.5	1,665.1	2,137.8	2,108.6	29.20	73.222		
4,400.0	4,364.0	4,207.4	4,207.4	4,178.0	16.9	16.1	-172.41	-32.5	1,675.9	2,162.0	2,132.0	30.01	72.042		
4,500.0	4,462.8	4,338.2	4,338.2	4,307.9	17.4	16.6	-172.77	-21.3	1,685.9	2,184.7	2,153.9	30.87	70.780		
4,600.0	4,561.7	4,470.3	4,470.3	4,439.6	17.8	17.1	-173.07	-12.3	1,694.0	2,206.0	2,174.3	31.71	69.576		
4,700.0	4,660.5	4,603.8	4,603.8	4,572.6	18.2	17.6	-173.31	-5.4	1,700.1	2,225.8	2,193.2	32.52	68.435		
4,800.0	4,759.4	4,738.3	4,738.3	4,707.0	18.6	18.0	-173.49	-0.9	1,704.1	2,243.9	2,210.6	33.31	67.372		
4,900.0	4,858.2	4,873.7	4,873.7	4,842.4	19.1	18.4	-173.60	1.3	1,706.1	2,260.5	2,226.5	34.04	66.402		
5,000.0	4,957.0	4,988.3	4,988.3	4,957.0	19.5	18.5	-173.66	1.6	1,706.3	2,275.7	2,241.1	34.61	65.752		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.0	5,055.9	5,087.2	5,055.9	19.9	18.6	-173.70	1.6	1,706.3	2,290.8	2,255.7	35.14	65.189		
5,200.0	5,154.7	5,186.0	5,154.7	20.3	18.6	-173.74	1.6	1,706.3	2,305.9	2,270.2	35.68	64.633		
5,300.0	5,253.6	5,284.9	5,253.6	20.8	18.7	-173.79	1.6	1,706.3	2,321.0	2,284.8	36.20	64.117		
5,400.0	5,352.6	5,383.9	5,352.6	21.2	18.7	-173.84	1.6	1,706.3	2,334.8	2,298.1	36.73	63.559		
5,500.0	5,451.8	5,483.1	5,451.8	21.6	18.8	-173.88	1.6	1,706.3	2,346.9	2,309.7	37.25	62.996		
5,600.0	5,551.3	5,582.6	5,551.3	22.0	18.8	-173.92	1.6	1,706.3	2,357.3	2,319.5	37.76	62.427		
5,700.0	5,650.9	5,682.2	5,650.9	22.4	18.9	-173.95	1.6	1,706.3	2,366.0	2,327.7	38.25	61.853		
5,800.0	5,750.7	5,782.0	5,750.7	22.7	18.9	-173.98	1.6	1,706.3	2,372.9	2,334.2	38.72	61.281		
5,900.0	5,850.5	5,881.8	5,850.5	23.1	19.0	-174.00	1.6	1,706.3	2,378.1	2,338.9	39.17	60.718		
6,000.0	5,950.5	5,981.8	5,950.5	23.4	19.1	-174.01	1.6	1,706.3	2,381.5	2,342.0	39.58	60.174		
6,100.0	6,050.5	6,081.8	6,050.5	23.6	19.1	-174.01	1.6	1,706.3	2,383.3	2,343.3	39.93	59.681		
6,200.0	6,150.5	6,181.8	6,150.5	23.7	19.2	87.56	1.6	1,706.3	2,383.5	2,343.4	40.06	59.500		
6,300.0	6,250.5	6,281.8	6,250.5	23.7	19.2	87.56	1.6	1,706.3	2,383.5	2,343.3	40.15	59.369		
6,400.0	6,350.5	6,381.8	6,350.5	23.8	19.3	87.56	1.6	1,706.3	2,383.5	2,343.2	40.24	59.238		
6,500.0	6,450.5	6,481.8	6,450.5	23.8	19.3	87.56	1.6	1,706.3	2,383.5	2,343.2	40.33	59.107		
6,600.0	6,550.5	6,581.8	6,550.5	23.8	19.4	87.56	1.6	1,706.3	2,383.5	2,343.1	40.41	58.975		
6,700.0	6,650.5	6,681.8	6,650.5	23.9	19.5	87.56	1.6	1,706.3	2,383.5	2,343.0	40.51	58.844		
6,800.0	6,750.5	6,781.8	6,750.5	23.9	19.5	87.56	1.6	1,706.3	2,383.5	2,342.9	40.60	58.712		
6,900.0	6,850.5	6,881.8	6,850.5	23.9	19.6	87.56	1.6	1,706.3	2,383.5	2,342.8	40.69	58.581		
7,000.0	6,950.5	6,981.8	6,950.5	24.0	19.6	87.56	1.6	1,706.3	2,383.5	2,342.7	40.78	58.449		
7,100.0	7,050.5	7,081.8	7,050.5	24.0	19.7	87.56	1.6	1,706.3	2,383.5	2,342.6	40.87	58.317		
7,200.0	7,150.5	7,181.8	7,150.5	24.0	19.7	87.56	1.6	1,706.3	2,383.5	2,342.5	40.96	58.186		
7,300.0	7,250.5	7,281.8	7,250.5	24.1	19.8	87.56	1.6	1,706.3	2,383.5	2,342.4	41.06	58.054		
7,400.0	7,350.5	7,381.8	7,350.5	24.1	19.9	87.56	1.6	1,706.3	2,383.5	2,342.3	41.15	57.922		
7,500.0	7,450.5	7,481.8	7,450.5	24.1	19.9	87.56	1.6	1,706.3	2,383.5	2,342.2	41.24	57.790		
7,600.0	7,550.5	7,581.8	7,550.5	24.2	20.0	87.56	1.6	1,706.3	2,383.5	2,342.1	41.34	57.659		
7,700.0	7,650.5	7,681.8	7,650.5	24.2	20.0	87.56	1.6	1,706.3	2,383.5	2,342.0	41.43	57.527		
7,800.0	7,750.5	7,781.8	7,750.5	24.2	20.1	87.56	1.6	1,706.3	2,383.5	2,342.0	41.53	57.395		
7,900.0	7,850.5	7,881.8	7,850.5	24.3	20.1	87.56	1.6	1,706.3	2,383.5	2,341.9	41.62	57.264		
8,000.0	7,950.5	7,981.8	7,950.5	24.3	20.2	87.56	1.6	1,706.3	2,383.5	2,341.8	41.72	57.132		
8,100.0	8,050.5	8,081.8	8,050.5	24.3	20.3	87.56	1.6	1,706.3	2,383.5	2,341.7	41.81	57.001		
8,200.0	8,150.5	8,181.8	8,150.5	24.4	20.3	87.56	1.6	1,706.3	2,383.5	2,341.6	41.91	56.869		
8,300.0	8,250.5	8,281.8	8,250.5	24.4	20.4	87.56	1.6	1,706.3	2,383.5	2,341.5	42.01	56.738		
8,400.0	8,350.5	8,381.8	8,350.5	24.5	20.4	87.56	1.6	1,706.3	2,383.5	2,341.4	42.11	56.607		
8,500.0	8,450.5	8,481.8	8,450.5	24.5	20.5	87.56	1.6	1,706.3	2,383.5	2,341.3	42.20	56.475		
8,600.0	8,550.5	8,581.8	8,550.5	24.5	20.6	87.56	1.6	1,706.3	2,383.5	2,341.2	42.30	56.344		
8,700.0	8,650.5	8,681.8	8,650.5	24.6	20.6	87.56	1.6	1,706.3	2,383.5	2,341.1	42.40	56.213		
8,800.0	8,750.5	8,781.8	8,750.5	24.6	20.7	87.56	1.6	1,706.3	2,383.5	2,341.0	42.50	56.082		
8,900.0	8,850.5	8,881.8	8,850.5	24.6	20.7	87.56	1.6	1,706.3	2,383.5	2,340.9	42.60	55.951		
9,000.0	8,950.5	8,981.8	8,950.5	24.7	20.8	87.56	1.6	1,706.3	2,383.5	2,340.8	42.70	55.821		
9,100.0	9,050.5	9,081.8	9,050.5	24.7	20.9	87.56	1.6	1,706.3	2,383.5	2,340.7	42.80	55.690		
9,200.0	9,150.5	9,181.8	9,150.5	24.8	20.9	87.56	1.6	1,706.3	2,383.5	2,340.6	42.90	55.560		
9,300.0	9,250.5	9,281.8	9,250.5	24.8	21.0	87.56	1.6	1,706.3	2,383.5	2,340.5	43.00	55.429		
9,400.0	9,350.5	9,381.8	9,350.5	24.8	21.0	87.56	1.6	1,706.3	2,383.5	2,340.4	43.10	55.299		
9,500.0	9,450.5	9,481.8	9,450.5	24.9	21.1	87.56	1.6	1,706.3	2,383.5	2,340.3	43.20	55.169		
9,600.0	9,550.5	9,581.8	9,550.5	24.9	21.2	87.56	1.6	1,706.3	2,383.5	2,340.2	43.31	55.039		
9,700.0	9,650.5	9,681.8	9,650.5	25.0	21.2	87.56	1.6	1,706.3	2,383.5	2,340.1	43.41	54.909		
9,800.0	9,750.5	9,781.8	9,750.5	25.0	21.3	87.56	1.6	1,706.3	2,383.5	2,340.0	43.51	54.780		
9,900.0	9,850.5	9,881.8	9,850.5	25.0	21.4	87.56	1.6	1,706.3	2,383.5	2,339.9	43.61	54.650		
10,000.0	9,950.5	9,981.8	9,950.5	25.1	21.4	87.56	1.6	1,706.3	2,383.5	2,339.8	43.72	54.521		
10,100.0	10,050.5	10,081.8	10,050.5	25.1	21.5	87.56	1.6	1,706.3	2,383.5	2,339.7	43.82	54.392		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,200.0	10,150.5	10,181.8	10,150.5	25.2	21.5	87.56	1.6	1,706.3	2,383.5	2,339.6	43.92	54.263			
10,300.0	10,250.5	10,281.8	10,250.5	25.2	21.6	87.56	1.6	1,706.3	2,383.5	2,339.5	44.03	54.134			
10,400.0	10,350.5	10,381.8	10,350.5	25.2	21.7	87.56	1.6	1,706.3	2,383.5	2,339.3	44.13	54.006			
10,500.0	10,450.5	10,481.8	10,450.5	25.3	21.7	87.56	1.6	1,706.3	2,383.5	2,339.2	44.24	53.877			
10,600.0	10,550.5	10,581.8	10,550.5	25.3	21.8	87.56	1.6	1,706.3	2,383.5	2,339.1	44.34	53.749			
10,700.0	10,650.5	10,681.8	10,650.5	25.4	21.9	87.56	1.6	1,706.3	2,383.5	2,339.0	44.45	53.621			
10,800.0	10,750.5	10,781.8	10,750.5	25.4	21.9	87.56	1.6	1,706.3	2,383.5	2,338.9	44.56	53.493			
10,900.0	10,850.5	10,881.8	10,850.5	25.4	22.0	87.56	1.6	1,706.3	2,383.5	2,338.8	44.66	53.366			
11,000.0	10,950.5	10,981.8	10,950.5	25.5	22.0	87.56	1.6	1,706.3	2,383.5	2,338.7	44.77	53.239			
11,100.0	11,050.5	11,081.8	11,050.5	25.5	22.1	87.56	1.6	1,706.3	2,383.5	2,338.6	44.88	53.111			
11,200.0	11,150.5	11,181.8	11,150.5	25.6	22.2	87.56	1.6	1,706.3	2,383.5	2,338.5	44.98	52.985			
11,300.0	11,250.1	11,281.4	11,250.1	25.6	22.2	-87.92	1.6	1,706.3	2,383.2	2,338.2	45.06	52.896			
11,400.0	11,346.4	11,379.6	11,348.3	25.6	22.3	-88.65	1.5	1,706.3	2,382.4	2,337.3	45.16	52.758			
11,500.0	11,435.0	11,531.0	11,496.9	25.6	21.9	-90.00	-24.1	1,706.0	2,380.4	2,335.2	45.19	52.680			
11,600.0	11,512.2	11,700.9	11,644.6	25.7	21.5	-91.27	-106.2	1,705.1	2,376.0	2,330.9	45.10	52.687			
11,700.0	11,574.5	11,879.8	11,759.0	25.8	21.1	-92.24	-242.4	1,703.6	2,369.0	2,324.0	44.95	52.701			
11,800.0	11,619.3	12,053.2	11,814.8	25.9	21.1	-92.83	-405.5	1,701.7	2,359.5	2,314.6	44.87	52.588			
11,900.0	11,644.5	12,178.7	11,820.0	26.0	21.1	-93.45	-530.8	1,700.3	2,348.8	2,303.7	45.03	52.161			
12,000.0	11,650.0	12,278.0	11,820.0	26.1	21.3	-94.18	-630.1	1,699.2	2,339.2	2,293.8	45.40	51.525			
12,100.0	11,650.0	12,377.8	11,820.0	26.3	21.4	-94.18	-729.8	1,698.1	2,332.7	2,286.8	45.89	50.829			
12,200.1	11,650.0	12,477.8	11,820.0	26.5	21.6	-94.19	-829.9	1,696.9	2,329.5	2,283.1	46.46	50.145			
12,300.0	11,650.0	12,577.7	11,820.0	26.8	21.8	-94.19	-929.8	1,695.8	2,328.2	2,281.1	47.07	49.466			
12,400.0	11,650.0	12,677.7	11,820.0	27.1	22.1	-94.19	-1,029.8	1,694.7	2,326.8	2,279.1	47.74	48.735			
12,500.0	11,650.0	12,777.7	11,820.0	27.4	22.3	-94.19	-1,129.7	1,693.5	2,325.4	2,276.9	48.49	47.959			
12,600.0	11,650.0	12,877.7	11,820.0	27.7	22.7	-94.20	-1,229.7	1,692.4	2,324.1	2,274.8	49.29	47.148			
12,700.0	11,650.0	12,977.7	11,820.0	28.1	23.0	-94.20	-1,329.7	1,691.3	2,322.7	2,272.5	50.16	46.308			
12,800.0	11,650.0	13,077.7	11,820.0	28.5	23.4	-94.20	-1,429.7	1,690.2	2,321.3	2,270.3	51.08	45.447			
12,900.0	11,650.0	13,177.7	11,820.0	28.9	23.8	-94.20	-1,529.7	1,689.0	2,320.0	2,267.9	52.05	44.571			
13,000.0	11,650.0	13,277.7	11,820.0	29.3	24.3	-94.21	-1,629.7	1,687.9	2,318.6	2,265.5	53.07	43.686			
13,100.0	11,650.0	13,377.6	11,820.0	29.8	24.8	-94.21	-1,729.6	1,686.8	2,317.2	2,263.1	54.14	42.797			
13,200.0	11,650.0	13,477.6	11,820.0	30.3	25.3	-94.21	-1,829.6	1,685.6	2,315.9	2,260.6	55.26	41.909			
13,300.0	11,650.0	13,577.6	11,820.0	30.8	25.9	-94.21	-1,929.6	1,684.5	2,314.5	2,258.1	56.42	41.025			
13,400.0	11,650.0	13,677.6	11,820.0	31.4	26.5	-94.22	-2,029.6	1,683.4	2,313.1	2,255.5	57.61	40.150			
13,500.0	11,650.0	13,777.6	11,820.0	32.0	27.1	-94.22	-2,129.6	1,682.2	2,311.8	2,252.9	58.84	39.286			
13,600.0	11,650.0	13,877.6	11,820.0	32.6	27.8	-94.22	-2,229.6	1,681.1	2,310.4	2,250.3	60.11	38.435			
13,700.0	11,650.0	13,977.6	11,820.0	33.2	28.4	-94.22	-2,329.6	1,680.0	2,309.0	2,247.6	61.41	37.599			
13,800.0	11,650.0	14,077.6	11,820.0	33.8	29.1	-94.23	-2,429.5	1,678.9	2,307.6	2,244.9	62.74	36.780			
13,900.0	11,650.0	14,177.6	11,820.0	34.4	29.8	-94.23	-2,529.5	1,677.7	2,306.3	2,242.2	64.10	35.980			
14,000.0	11,650.0	14,277.6	11,820.0	35.1	30.5	-94.23	-2,629.5	1,676.6	2,304.9	2,239.4	65.48	35.198			
14,100.0	11,650.0	14,377.5	11,820.0	35.8	31.2	-94.23	-2,729.5	1,675.5	2,303.5	2,236.6	66.89	34.436			
14,200.0	11,650.0	14,477.5	11,820.0	36.4	32.0	-94.24	-2,829.5	1,674.3	2,302.2	2,233.8	68.33	33.693			
14,300.0	11,650.0	14,577.5	11,820.0	37.1	32.7	-94.24	-2,929.5	1,673.2	2,300.8	2,231.0	69.78	32.971			
14,400.0	11,650.0	14,677.5	11,820.0	37.8	33.5	-94.24	-3,029.4	1,672.1	2,299.4	2,228.2	71.26	32.269			
14,500.0	11,650.0	14,777.5	11,820.0	38.6	34.3	-94.24	-3,129.4	1,671.0	2,298.1	2,225.3	72.75	31.587			
14,600.0	11,650.0	14,877.5	11,820.0	39.3	35.1	-94.25	-3,229.4	1,669.8	2,296.7	2,222.4	74.27	30.925			
14,700.0	11,650.0	14,977.5	11,820.0	40.0	35.9	-94.25	-3,329.4	1,668.7	2,295.3	2,219.5	75.80	30.282			
14,800.0	11,650.0	15,077.5	11,820.0	40.8	36.7	-94.25	-3,429.4	1,667.6	2,294.0	2,216.6	77.34	29.659			
14,900.0	11,650.0	15,177.5	11,820.0	41.6	37.5	-94.25	-3,529.4	1,666.4	2,292.6	2,213.7	78.91	29.055			
15,000.0	11,650.0	15,277.5	11,820.0	42.3	38.3	-94.26	-3,629.3	1,665.3	2,291.2	2,210.7	80.48	28.469			
15,100.0	11,650.0	15,377.5	11,820.0	43.1	39.1	-94.26	-3,729.3	1,664.2	2,289.9	2,207.8	82.07	27.901			
15,200.0	11,650.0	15,477.4	11,820.0	43.9	40.0	-94.26	-3,829.3	1,663.1	2,288.5	2,204.8	83.67	27.350			

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,300.0	11,650.0	15,577.4	11,820.0	44.7	40.8	-94.26	-3,929.3	1,661.9	2,287.1	2,201.8	85.29	26.817	
15,400.0	11,650.0	15,677.4	11,820.0	45.5	41.6	-94.27	-4,029.3	1,660.8	2,285.8	2,198.8	86.91	26.300	
15,500.0	11,650.0	15,777.4	11,820.0	46.3	42.5	-94.27	-4,129.3	1,659.7	2,284.4	2,195.8	88.55	25.798	
15,600.0	11,650.0	15,877.4	11,820.0	47.1	43.3	-94.27	-4,229.3	1,658.5	2,283.0	2,192.8	90.19	25.313	
15,700.0	11,650.0	15,977.4	11,820.0	47.9	44.2	-94.27	-4,329.2	1,657.4	2,281.6	2,189.8	91.85	24.841	
15,800.0	11,650.0	16,077.4	11,820.0	48.7	45.1	-94.28	-4,429.2	1,656.3	2,280.3	2,186.8	93.51	24.385	
15,900.0	11,650.0	16,177.4	11,820.0	49.6	45.9	-94.28	-4,529.2	1,655.1	2,278.9	2,183.7	95.19	23.942	
16,000.0	11,650.0	16,277.4	11,820.0	50.4	46.8	-94.28	-4,629.2	1,654.0	2,277.5	2,180.7	96.87	23.512	
16,100.0	11,650.0	16,377.4	11,820.0	51.2	47.7	-94.28	-4,729.2	1,652.9	2,276.2	2,177.6	98.55	23.096	
16,200.0	11,650.0	16,477.4	11,820.0	52.1	48.6	-94.29	-4,829.2	1,651.8	2,274.8	2,174.6	100.25	22.691	
16,300.0	11,650.0	16,577.3	11,820.0	52.9	49.4	-94.29	-4,929.1	1,650.6	2,273.4	2,171.5	101.95	22.299	
16,400.0	11,650.0	16,677.3	11,820.0	53.8	50.3	-94.29	-5,029.1	1,649.5	2,272.1	2,168.4	103.66	21.918	
16,500.0	11,650.0	16,777.3	11,820.0	54.6	51.2	-94.29	-5,129.1	1,648.4	2,270.7	2,165.3	105.38	21.548	
16,600.0	11,650.0	16,877.3	11,820.0	55.5	52.1	-94.30	-5,229.1	1,647.2	2,269.3	2,162.2	107.10	21.189	
16,700.0	11,650.0	16,977.3	11,820.0	56.3	53.0	-94.30	-5,329.1	1,646.1	2,268.0	2,159.1	108.83	20.840	
16,800.0	11,650.0	17,077.3	11,820.0	57.2	53.9	-94.30	-5,429.1	1,645.0	2,266.6	2,156.0	110.56	20.501	
16,900.0	11,650.0	17,177.3	11,820.0	58.1	54.8	-94.30	-5,529.0	1,643.9	2,265.2	2,152.9	112.30	20.172	
17,000.0	11,650.0	17,277.3	11,820.0	58.9	55.7	-94.31	-5,629.0	1,642.7	2,263.9	2,149.8	114.04	19.852	
17,100.0	11,650.0	17,377.3	11,820.0	59.8	56.6	-94.31	-5,729.0	1,641.6	2,262.5	2,146.7	115.78	19.541	
17,200.0	11,650.0	17,477.3	11,820.0	60.7	57.5	-94.31	-5,829.0	1,640.5	2,261.1	2,143.6	117.54	19.238	
17,300.0	11,650.0	17,577.2	11,820.0	61.5	58.4	-94.31	-5,929.0	1,639.3	2,259.8	2,140.5	119.29	18.943	
17,400.0	11,650.0	17,677.2	11,820.0	62.4	59.3	-94.32	-6,029.0	1,638.2	2,258.4	2,137.3	121.05	18.656	
17,500.0	11,650.0	17,777.2	11,820.0	63.3	60.2	-94.32	-6,129.0	1,637.1	2,257.0	2,134.2	122.82	18.377	
17,600.0	11,650.0	17,877.2	11,820.0	64.2	61.1	-94.32	-6,228.9	1,636.0	2,255.6	2,131.1	124.58	18.106	
17,700.0	11,650.0	17,977.2	11,820.0	65.1	62.0	-94.33	-6,328.9	1,634.8	2,254.3	2,127.9	126.35	17.841	
17,800.0	11,650.0	18,077.2	11,820.0	66.0	62.9	-94.33	-6,428.9	1,633.7	2,252.9	2,124.8	128.13	17.583	
17,900.0	11,650.0	18,177.2	11,820.0	66.9	63.8	-94.33	-6,528.9	1,632.6	2,251.5	2,121.6	129.91	17.332	
18,000.0	11,650.0	18,277.2	11,820.0	67.7	64.7	-94.33	-6,628.9	1,631.4	2,250.2	2,118.5	131.69	17.087	
18,100.0	11,650.0	18,377.2	11,820.0	68.6	65.7	-94.34	-6,728.9	1,630.3	2,248.8	2,115.3	133.47	16.849	
18,200.0	11,650.0	18,477.2	11,820.0	69.5	66.6	-94.34	-6,828.8	1,629.2	2,247.4	2,112.2	135.26	16.616	
18,300.0	11,650.0	18,577.2	11,820.0	70.4	67.5	-94.34	-6,928.8	1,628.1	2,246.1	2,109.0	137.05	16.389	
18,400.0	11,650.0	18,677.1	11,820.0	71.3	68.4	-94.34	-7,028.8	1,626.9	2,244.7	2,105.9	138.84	16.168	
18,500.0	11,650.0	18,777.1	11,820.0	72.2	69.3	-94.35	-7,128.8	1,625.8	2,243.3	2,102.7	140.64	15.951	
18,600.0	11,650.0	18,877.1	11,820.0	73.1	70.2	-94.35	-7,228.8	1,624.7	2,242.0	2,099.5	142.43	15.741	
18,700.0	11,650.0	18,977.1	11,820.0	74.0	71.2	-94.35	-7,328.8	1,623.5	2,240.6	2,096.4	144.23	15.535	
18,800.0	11,650.0	19,077.1	11,820.0	74.9	72.1	-94.35	-7,428.7	1,622.4	2,239.2	2,093.2	146.03	15.334	
18,900.0	11,650.0	19,177.1	11,820.0	75.9	73.0	-94.36	-7,528.7	1,621.3	2,237.9	2,090.0	147.84	15.137	
19,000.0	11,650.0	19,277.1	11,820.0	76.8	73.9	-94.36	-7,628.7	1,620.1	2,236.5	2,086.8	149.65	14.945	
19,100.0	11,650.0	19,363.6	11,820.0	77.7	74.6	-94.36	-7,715.2	1,619.2	2,235.2	2,084.0	151.15	14.787	
19,117.1	11,650.0	19,363.6	11,820.0	77.8	74.6	-94.36	-7,715.2	1,619.2	2,235.1	2,083.8	151.26	14.777	
19,125.0	11,650.0	19,363.6	11,820.0	77.8	74.6	-94.36	-7,715.2	1,619.2	2,235.1	2,083.8	151.30	14.773 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	103.74	-348.0	1,423.3	1,465.2	1,458.8	6.43	227.915			
100.0	100.0	100.0	100.0	3.2	3.2	103.74	-348.0	1,423.3	1,465.2	1,458.4	6.89	212.590			
200.0	200.0	200.0	200.0	3.5	3.5	103.74	-348.0	1,423.3	1,465.2	1,457.9	7.33	199.947			
300.0	300.0	300.0	300.0	3.7	3.7	103.74	-348.0	1,423.3	1,465.2	1,457.5	7.74	189.276			
400.0	400.0	400.0	400.0	3.9	3.9	103.74	-348.0	1,423.3	1,465.2	1,457.1	8.14	180.105			
500.0	500.0	500.0	500.0	4.1	4.1	103.74	-348.0	1,423.3	1,465.2	1,456.7	8.51	172.107			
600.0	600.0	600.0	600.0	4.2	4.2	103.74	-348.0	1,423.3	1,465.2	1,456.4	8.88	165.049			
700.0	700.0	700.0	700.0	4.4	4.4	103.74	-348.0	1,423.3	1,465.2	1,456.0	9.23	158.757			
800.0	800.0	800.0	800.0	4.6	4.6	103.74	-348.0	1,423.3	1,465.2	1,455.7	9.57	153.100			
900.0	900.0	900.0	900.0	4.8	4.8	103.74	-348.0	1,423.3	1,465.2	1,455.3	9.90	147.976			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	103.74	-348.0	1,423.3	1,465.2	1,455.0	10.22	143.305	CC, ES		
1,100.0	1,100.0	1,072.1	1,072.1	5.2	5.1	-157.86	-347.6	1,424.1	1,467.8	1,457.2	10.61	138.314			
1,200.0	1,199.8	1,143.8	1,143.7	5.4	5.3	-157.92	-346.4	1,426.5	1,475.5	1,464.5	10.99	134.259			
1,300.0	1,299.5	1,214.8	1,214.6	5.7	5.5	-158.03	-344.4	1,430.5	1,488.3	1,476.9	11.38	130.765			
1,400.0	1,398.7	1,284.7	1,284.2	6.0	5.7	-158.17	-341.6	1,435.9	1,506.2	1,494.4	11.79	127.752			
1,500.0	1,497.6	1,353.4	1,352.5	6.1	5.9	-158.45	-338.1	1,442.7	1,528.6	1,516.5	12.09	126.460			
1,600.0	1,596.4	1,421.2	1,419.7	6.4	6.1	-158.81	-333.9	1,450.8	1,553.0	1,540.5	12.46	124.603			
1,700.0	1,695.3	1,500.0	1,497.5	6.7	6.3	-159.28	-328.1	1,462.0	1,579.3	1,566.4	12.90	122.448			
1,800.0	1,794.1	1,570.3	1,566.7	6.9	6.5	-159.71	-322.4	1,473.2	1,607.2	1,593.9	13.28	121.007			
1,900.0	1,892.9	1,665.0	1,659.8	7.2	6.7	-160.28	-314.7	1,488.3	1,635.4	1,621.6	13.78	118.660			
2,000.0	1,991.8	1,759.7	1,752.9	7.6	7.0	-160.83	-306.9	1,503.4	1,663.8	1,649.4	14.31	116.261			
2,100.0	2,090.6	1,854.3	1,846.0	7.9	7.3	-161.36	-299.1	1,518.5	1,692.2	1,677.4	14.86	113.847			
2,200.0	2,189.5	1,949.0	1,939.2	8.2	7.6	-161.87	-291.4	1,533.7	1,720.9	1,705.4	15.44	111.446			
2,300.0	2,288.3	2,043.6	2,032.3	8.6	7.9	-162.37	-283.6	1,548.8	1,749.6	1,733.6	16.04	109.083			
2,400.0	2,387.2	2,138.3	2,125.4	8.9	8.2	-162.85	-275.9	1,563.9	1,778.5	1,761.9	16.66	106.773			
2,500.0	2,486.0	2,233.0	2,218.5	9.3	8.6	-163.31	-268.1	1,579.0	1,807.5	1,790.2	17.29	104.529			
2,600.0	2,584.8	2,327.6	2,311.7	9.7	8.9	-163.77	-260.4	1,594.1	1,836.6	1,818.7	17.94	102.360			
2,700.0	2,683.7	2,422.3	2,404.8	10.0	9.3	-164.20	-252.6	1,609.2	1,865.8	1,847.2	18.61	100.270			
2,800.0	2,782.5	2,516.9	2,497.9	10.4	9.6	-164.63	-244.9	1,624.3	1,895.1	1,875.8	19.29	98.262			
2,900.0	2,881.4	2,611.6	2,591.0	10.8	10.0	-165.04	-237.1	1,639.4	1,924.5	1,904.5	19.98	96.337			
3,000.0	2,980.2	2,706.3	2,684.2	11.2	10.3	-165.44	-229.3	1,654.5	1,954.0	1,933.3	20.68	94.495			
3,100.0	3,079.0	2,800.9	2,777.3	11.6	10.7	-165.83	-221.6	1,669.6	1,983.5	1,962.2	21.39	92.734			
3,200.0	3,177.9	2,895.6	2,870.4	12.0	11.1	-166.20	-213.8	1,684.7	2,013.2	1,991.1	22.11	91.053			
3,300.0	3,276.7	2,990.2	2,963.5	12.4	11.5	-166.57	-206.1	1,699.8	2,042.9	2,020.1	22.84	89.447			
3,400.0	3,375.6	3,084.9	3,056.7	12.8	11.9	-166.93	-198.3	1,715.0	2,072.7	2,049.2	23.58	87.916			
3,500.0	3,474.4	3,179.6	3,149.8	13.2	12.3	-167.27	-190.6	1,730.1	2,102.6	2,078.3	24.32	86.455			
3,600.0	3,573.3	3,274.2	3,242.9	13.6	12.7	-167.61	-182.8	1,745.2	2,132.6	2,107.5	25.07	85.062			
3,700.0	3,672.1	3,368.9	3,336.0	14.0	13.0	-167.94	-175.0	1,760.3	2,162.6	2,136.7	25.83	83.732			
3,800.0	3,770.9	3,463.5	3,429.1	14.4	13.4	-168.25	-167.3	1,775.4	2,192.6	2,166.1	26.59	82.463			
3,900.0	3,869.8	3,558.2	3,522.3	14.8	13.8	-168.56	-159.5	1,790.5	2,222.8	2,195.4	27.36	81.252			
4,000.0	3,968.6	3,652.9	3,615.4	15.3	14.2	-168.86	-151.8	1,805.6	2,253.0	2,224.8	28.13	80.096			
4,100.0	4,067.5	3,747.5	3,708.5	15.7	14.7	-169.16	-144.0	1,820.7	2,283.2	2,254.3	28.90	78.991			
4,200.0	4,166.3	3,842.2	3,801.6	16.1	15.1	-169.44	-136.3	1,835.8	2,313.5	2,283.8	29.69	77.935			
4,300.0	4,265.1	3,936.8	3,894.8	16.5	15.5	-169.72	-128.5	1,850.9	2,343.9	2,313.4	30.47	76.925			
4,400.0	4,364.0	4,031.5	3,987.9	16.9	15.9	-170.00	-120.8	1,866.0	2,374.3	2,343.0	31.26	75.958			
4,500.0	4,462.8	4,126.1	4,081.0	17.4	16.3	-170.26	-113.0	1,881.1	2,404.7	2,372.7	32.05	75.033			
4,600.0	4,561.7	4,220.8	4,174.1	17.8	16.7	-170.52	-105.2	1,896.3	2,435.2	2,402.4	32.84	74.147			
4,700.0	4,660.5	4,315.5	4,267.3	18.2	17.1	-170.77	-97.5	1,911.4	2,465.8	2,432.1	33.64	73.298			
4,800.0	4,759.4	4,410.1	4,360.4	18.6	17.5	-171.02	-89.7	1,926.5	2,496.4	2,461.9	34.44	72.483	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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)			
0.0	0.0	0.0	0.0	3.0	3.0	103.45	-347.6	1,453.3	1,494.3	1,487.9	6.43	232.435	
100.0	100.0	100.0	100.0	3.2	3.2	103.45	-347.6	1,453.3	1,494.3	1,487.4	6.89	216.806	
200.0	200.0	200.0	200.0	3.5	3.5	103.45	-347.6	1,453.3	1,494.3	1,487.0	7.33	203.912	
300.0	300.0	300.0	300.0	3.7	3.7	103.45	-347.6	1,453.3	1,494.3	1,486.6	7.74	193.029	
400.0	400.0	400.0	400.0	3.9	3.9	103.45	-347.6	1,453.3	1,494.3	1,486.2	8.14	183.676	
500.0	500.0	500.0	500.0	4.1	4.1	103.45	-347.6	1,453.3	1,494.3	1,485.8	8.51	175.520	
600.0	600.0	600.0	600.0	4.2	4.2	103.45	-347.6	1,453.3	1,494.3	1,485.4	8.88	168.323	
700.0	700.0	700.0	700.0	4.4	4.4	103.45	-347.6	1,453.3	1,494.3	1,485.1	9.23	161.906	
800.0	800.0	800.0	800.0	4.6	4.6	103.45	-347.6	1,453.3	1,494.3	1,484.7	9.57	156.137	
900.0	900.0	900.0	900.0	4.8	4.8	103.45	-347.6	1,453.3	1,494.3	1,484.4	9.90	150.911	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	103.45	-347.6	1,453.3	1,494.3	1,484.1	10.22	146.147 CC, ES	
1,100.0	1,100.0	1,069.4	1,069.3	5.2	5.1	-158.14	-347.3	1,454.1	1,496.9	1,486.3	10.61	141.024	
1,200.0	1,199.8	1,138.4	1,138.3	5.4	5.3	-158.18	-346.5	1,456.5	1,504.9	1,493.9	11.00	136.850	
1,300.0	1,299.5	1,200.0	1,199.8	5.7	5.4	-158.23	-345.4	1,459.9	1,518.1	1,506.7	11.37	133.487	
1,400.0	1,398.7	1,274.1	1,273.6	6.0	5.6	-158.34	-343.4	1,465.7	1,536.4	1,524.6	11.80	130.189	
1,500.0	1,497.6	1,340.3	1,339.5	6.1	5.8	-158.56	-341.1	1,472.4	1,559.4	1,547.3	12.10	128.872	
1,600.0	1,596.4	1,400.0	1,398.7	6.4	6.0	-158.83	-338.6	1,479.7	1,584.5	1,572.0	12.46	127.192	
1,700.0	1,695.3	1,470.0	1,467.9	6.7	6.2	-159.18	-335.2	1,489.7	1,611.6	1,598.7	12.87	125.190	
1,800.0	1,794.1	1,533.5	1,530.5	6.9	6.4	-159.51	-331.6	1,500.2	1,640.6	1,627.3	13.29	123.470	
1,900.0	1,892.9	1,602.4	1,598.0	7.2	6.7	-159.89	-327.2	1,513.0	1,671.5	1,657.8	13.74	121.625	
2,000.0	1,991.8	1,686.4	1,680.1	7.6	6.9	-160.36	-321.5	1,529.6	1,703.6	1,689.4	14.23	119.703	
2,100.0	2,090.6	1,780.0	1,771.6	7.9	7.2	-160.86	-315.2	1,548.1	1,735.9	1,721.1	14.79	117.398	
2,200.0	2,189.5	1,873.5	1,863.1	8.2	7.4	-161.34	-308.9	1,566.6	1,768.3	1,752.9	15.37	115.069	
2,300.0	2,288.3	1,967.1	1,954.6	8.6	7.8	-161.81	-302.6	1,585.0	1,800.8	1,784.8	15.97	112.750	
2,400.0	2,387.2	2,060.6	2,046.1	8.9	8.1	-162.26	-296.3	1,603.5	1,833.4	1,816.8	16.60	110.466	
2,500.0	2,486.0	2,154.2	2,137.6	9.3	8.4	-162.69	-289.9	1,622.0	1,866.0	1,848.8	17.24	108.233	
2,600.0	2,584.8	2,247.7	2,229.1	9.7	8.7	-163.11	-283.6	1,640.5	1,898.8	1,880.9	17.90	106.064	
2,700.0	2,683.7	2,341.3	2,320.5	10.0	9.1	-163.52	-277.3	1,659.0	1,931.7	1,913.1	18.58	103.967	
2,800.0	2,782.5	2,434.8	2,412.0	10.4	9.4	-163.91	-271.0	1,677.4	1,964.7	1,945.4	19.27	101.947	
2,900.0	2,881.4	2,528.4	2,503.5	10.8	9.8	-164.29	-264.7	1,695.9	1,997.7	1,977.7	19.98	100.007	
3,000.0	2,980.2	2,621.9	2,595.0	11.2	10.2	-164.66	-258.4	1,714.4	2,030.8	2,010.2	20.69	98.148	
3,100.0	3,079.0	2,715.5	2,686.5	11.6	10.5	-165.02	-252.0	1,732.9	2,064.0	2,042.6	21.42	96.369	
3,200.0	3,177.9	2,809.0	2,778.0	12.0	10.9	-165.36	-245.7	1,751.3	2,097.3	2,075.2	22.15	94.669	
3,300.0	3,276.7	2,902.5	2,869.5	12.4	11.3	-165.70	-239.4	1,769.8	2,130.6	2,107.7	22.90	93.046	
3,400.0	3,375.6	2,996.1	2,961.0	12.8	11.7	-166.02	-233.1	1,788.3	2,164.0	2,140.4	23.65	91.496	
3,500.0	3,474.4	3,089.6	3,052.5	13.2	12.1	-166.34	-226.8	1,806.8	2,197.5	2,173.1	24.41	90.017	
3,600.0	3,573.3	3,183.2	3,143.9	13.6	12.5	-166.64	-220.4	1,825.3	2,231.0	2,205.8	25.18	88.607	
3,700.0	3,672.1	3,276.7	3,235.4	14.0	12.9	-166.94	-214.1	1,843.7	2,264.6	2,238.6	25.95	87.261	
3,800.0	3,770.9	3,370.3	3,326.9	14.4	13.3	-167.23	-207.8	1,862.2	2,298.2	2,271.5	26.73	85.977	
3,900.0	3,869.8	3,463.8	3,418.4	14.8	13.7	-167.51	-201.5	1,880.7	2,331.9	2,304.4	27.51	84.752	
4,000.0	3,968.6	3,557.4	3,509.9	15.3	14.1	-167.78	-195.2	1,899.2	2,365.6	2,337.3	28.30	83.582	
4,100.0	4,067.5	3,650.9	3,601.4	15.7	14.5	-168.04	-188.9	1,917.6	2,399.4	2,370.3	29.10	82.465	
4,200.0	4,166.3	3,744.5	3,692.9	16.1	14.9	-168.30	-182.5	1,936.1	2,433.2	2,403.3	29.89	81.397	
4,300.0	4,265.1	3,838.0	3,784.4	16.5	15.3	-168.55	-176.2	1,954.6	2,467.0	2,436.3	30.69	80.376 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 54-r.5 GYRO-NS-CT, 1153-r.5 MWD													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,200.0	7,150.5	14,160.0	9,502.6	24.0	79.2	-153.79	-586.7	-914.6	2,413.9	2,353.3	60.64	39.804		
7,300.0	7,250.5	14,160.0	9,502.6	24.1	79.2	-153.79	-586.7	-914.6	2,316.6	2,256.0	60.53	38.269		
7,400.0	7,350.5	14,160.0	9,502.6	24.1	79.2	-153.79	-586.7	-914.6	2,219.5	2,159.1	60.41	36.740		
7,500.0	7,450.5	14,160.0	9,502.6	24.1	79.2	-153.79	-586.7	-914.6	2,122.7	2,062.4	60.27	35.219		
7,600.0	7,550.5	14,160.0	9,502.6	24.2	79.2	-153.79	-586.7	-914.6	2,026.1	1,966.0	60.11	33.706		
7,700.0	7,650.5	14,160.0	9,502.6	24.2	79.2	-153.79	-586.7	-914.6	1,930.0	1,870.0	59.93	32.203		
7,800.0	7,750.5	14,160.0	9,502.6	24.2	79.2	-153.79	-586.7	-914.6	1,834.2	1,774.5	59.73	30.710		
7,900.0	7,850.5	14,160.0	9,502.6	24.3	79.2	-153.79	-586.7	-914.6	1,738.9	1,679.5	59.50	29.228		
8,000.0	7,950.5	14,160.0	9,502.6	24.3	79.2	-153.79	-586.7	-914.6	1,644.2	1,585.0	59.23	27.760		
8,100.0	8,050.5	14,160.0	9,502.6	24.3	79.2	-153.79	-586.7	-914.6	1,550.2	1,491.3	58.93	26.306		
8,200.0	8,150.5	14,160.0	9,502.6	24.4	79.2	-153.79	-586.7	-914.6	1,456.9	1,398.3	58.58	24.870		
8,300.0	8,250.5	14,160.0	9,502.6	24.4	79.2	-153.79	-586.7	-914.6	1,364.6	1,306.4	58.19	23.452		
8,400.0	8,350.5	14,160.0	9,502.6	24.5	79.2	-153.79	-586.7	-914.6	1,273.5	1,215.8	57.74	22.057		
8,500.0	8,450.5	14,160.0	9,502.6	24.5	79.2	-153.79	-586.7	-914.6	1,183.8	1,126.6	57.22	20.687		
8,600.0	8,550.5	14,160.0	9,502.6	24.5	79.2	-153.79	-586.7	-914.6	1,095.9	1,039.2	56.65	19.346		
8,700.0	8,650.5	14,160.0	9,502.6	24.6	79.2	-153.79	-586.7	-914.6	1,010.2	954.2	56.01	18.037		
8,800.0	8,750.5	14,160.0	9,502.6	24.6	79.2	-153.79	-586.7	-914.6	927.4	872.1	55.32	16.765		
8,900.0	8,850.5	14,160.0	9,502.6	24.6	79.2	-153.79	-586.7	-914.6	848.3	793.7	54.62	15.531		
9,000.0	8,950.5	14,160.0	9,502.6	24.7	79.2	-153.79	-586.7	-914.6	774.1	720.1	54.00	14.335		
9,100.0	9,050.5	14,160.0	9,502.6	24.7	79.2	-153.79	-586.7	-914.6	706.2	652.6	53.61	13.174		
9,200.0	9,150.5	14,160.0	9,502.6	24.8	79.2	-153.79	-586.7	-914.6	646.8	593.1	53.70	12.045		
9,300.0	9,250.5	14,160.0	9,502.6	24.8	79.2	-153.79	-586.7	-914.6	598.2	543.6	54.60	10.957		
9,400.0	9,350.5	14,160.0	9,502.6	24.8	79.2	-153.79	-586.7	-914.6	563.4	506.8	56.58	9.958		
9,500.0	9,450.5	14,160.0	9,502.6	24.9	79.2	-153.79	-586.7	-914.6	545.0	485.4	59.62	9.141		
9,552.2	9,502.6	14,160.0	9,502.6	24.9	79.2	-153.79	-586.7	-914.6	542.5	481.0	61.48	8.824 CC, ES		
9,600.0	9,550.5	14,160.0	9,502.6	24.9	79.2	-153.79	-586.7	-914.6	544.6	481.4	63.24	8.611		
9,700.0	9,650.5	14,160.0	9,502.6	25.0	79.2	-153.79	-586.7	-914.6	562.3	495.5	66.76	8.423 SF		
9,800.0	9,750.5	14,160.0	9,502.6	25.0	79.2	-153.79	-586.7	-914.6	596.4	526.8	69.64	8.564		
9,900.0	9,850.5	14,160.0	9,502.6	25.0	79.2	-153.79	-586.7	-914.6	644.4	572.7	71.72	8.985		
10,000.0	9,950.5	14,160.0	9,502.6	25.1	79.2	-153.79	-586.7	-914.6	703.5	630.4	73.09	9.624		
10,100.0	10,050.5	14,160.0	9,502.6	25.1	79.2	-153.79	-586.7	-914.6	771.0	697.1	73.93	10.429		
10,200.0	10,150.5	14,160.0	9,502.6	25.2	79.2	-153.79	-586.7	-914.6	845.0	770.6	74.41	11.355		
10,300.0	10,250.5	14,160.0	9,502.6	25.2	79.2	-153.79	-586.7	-914.6	923.9	849.2	74.67	12.372		
10,400.0	10,350.5	14,160.0	9,502.6	25.2	79.2	-153.79	-586.7	-914.6	1,006.5	931.7	74.80	13.457		
10,500.0	10,450.5	14,160.0	9,502.6	25.3	79.2	-153.79	-586.7	-914.6	1,092.1	1,017.3	74.85	14.591		
10,600.0	10,550.5	14,160.0	9,502.6	25.3	79.2	-153.79	-586.7	-914.6	1,179.9	1,105.1	74.85	15.763		
10,700.0	10,650.5	14,160.0	9,502.6	25.4	79.2	-153.79	-586.7	-914.6	1,269.6	1,194.7	74.85	16.963		
10,800.0	10,750.5	14,160.0	9,502.6	25.4	79.2	-153.79	-586.7	-914.6	1,360.7	1,285.8	74.83	18.182		
10,900.0	10,850.5	14,160.0	9,502.6	25.4	79.2	-153.79	-586.7	-914.6	1,452.9	1,378.1	74.83	19.417		
11,000.0	10,950.5	14,160.0	9,502.6	25.5	79.2	-153.79	-586.7	-914.6	1,546.1	1,471.3	74.83	20.662		
11,100.0	11,050.5	14,160.0	9,502.6	25.5	79.2	-153.79	-586.7	-914.6	1,640.2	1,565.3	74.85	21.914		
11,200.0	11,150.5	14,160.0	9,502.6	25.6	79.2	-153.79	-586.7	-914.6	1,734.8	1,660.0	74.88	23.169		
11,300.0	11,250.1	14,160.0	9,502.6	25.6	79.2	20.71	-586.7	-914.6	1,828.2	1,753.2	74.93	24.397		
11,400.0	11,346.4	14,160.0	9,502.6	25.6	79.2	14.54	-586.7	-914.6	1,914.2	1,839.2	75.02	25.516		
11,500.0	11,435.0	14,160.0	9,502.6	25.6	79.2	11.37	-586.7	-914.6	1,990.3	1,915.3	75.09	26.507		
11,600.0	11,512.2	14,160.0	9,502.6	25.7	79.2	9.55	-586.7	-914.6	2,054.4	1,979.3	75.10	27.357		
11,700.0	11,574.5	14,160.0	9,502.6	25.8	79.2	8.44	-586.7	-914.6	2,104.9	2,029.9	75.02	28.058		
11,800.0	11,619.3	14,160.0	9,502.6	25.9	79.2	7.79	-586.7	-914.6	2,140.7	2,065.8	74.85	28.601		
11,900.0	11,644.5	14,160.0	9,502.6	26.0	79.2	7.47	-586.7	-914.6	2,160.8	2,086.2	74.56	28.981		
12,000.0	11,650.0	14,100.8	9,503.5	26.1	78.3	7.47	-645.8	-912.8	2,164.9	2,090.9	74.02	29.248		
12,100.0	11,650.0	14,020.1	9,504.6	26.3	77.0	7.51	-726.5	-910.3	2,164.0	2,090.6	73.40	29.483		

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: Reference		54-r.5 GYRO-NS-CT, 1153-r.5 MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,200.1	11,650.0	13,917.8	9,504.9	26.5	75.3	7.45	-828.8	-906.9	2,163.5	2,090.8	72.70	29.758			
12,300.0	11,650.0	13,837.1	9,505.4	26.8	74.0	7.39	-909.4	-904.0	2,162.5	2,090.4	72.07	30.006			
12,314.0	11,650.0	13,828.0	9,505.4	26.8	73.8	7.38	-918.5	-903.7	2,162.5	2,090.5	71.99	30.039			
12,400.0	11,650.0	13,768.2	9,504.8	27.1	72.9	7.34	-978.3	-902.0	2,163.1	2,091.6	71.49	30.257			
12,500.0	11,650.0	13,684.8	9,503.1	27.4	71.5	7.28	-1,061.6	-899.8	2,164.8	2,093.9	70.90	30.531			
12,600.0	11,650.0	13,508.0	9,502.5	27.7	68.7	7.25	-1,238.4	-898.3	2,165.0	2,094.8	70.17	30.853			
12,700.0	11,650.0	13,436.6	9,503.5	28.1	67.5	7.25	-1,309.8	-898.2	2,163.8	2,094.1	69.70	31.043			
12,800.0	11,650.0	13,320.8	9,503.7	28.5	65.7	7.26	-1,425.6	-898.1	2,163.7	2,094.5	69.18	31.278			
12,850.0	11,650.0	13,292.2	9,503.9	28.7	65.2	7.27	-1,454.2	-898.5	2,163.4	2,094.4	68.99	31.359			
12,900.0	11,650.0	13,265.4	9,503.9	28.9	64.8	7.28	-1,481.1	-898.9	2,163.7	2,094.9	68.80	31.448			
13,000.0	11,650.0	13,129.0	9,502.6	29.3	62.6	7.34	-1,617.4	-900.9	2,165.2	2,096.9	68.30	31.700			
13,051.0	11,650.0	13,091.1	9,502.9	29.6	62.0	7.35	-1,655.2	-901.0	2,164.9	2,096.8	68.12	31.779			
13,100.0	11,650.0	13,061.9	9,502.8	29.8	61.5	7.36	-1,684.5	-901.3	2,165.1	2,097.1	67.97	31.854			
13,200.0	11,650.0	12,965.7	9,501.7	30.3	60.0	7.41	-1,780.7	-903.2	2,166.5	2,098.9	67.63	32.035			
13,300.0	11,650.0	12,884.9	9,501.0	30.8	58.7	7.48	-1,861.4	-905.9	2,167.8	2,100.5	67.35	32.186			
13,400.0	11,650.0	12,789.1	9,498.9	31.4	57.2	7.56	-1,957.1	-908.9	2,170.4	2,103.4	67.08	32.355			
13,500.0	11,650.0	12,620.0	9,498.3	32.0	54.5	7.71	-2,126.1	-914.3	2,171.4	2,104.6	66.75	32.528			
13,565.3	11,650.0	12,576.5	9,498.8	32.3	53.8	7.75	-2,169.5	-915.8	2,171.0	2,104.3	66.66	32.566			
13,600.0	11,650.0	12,556.1	9,498.9	32.6	53.5	7.77	-2,189.9	-916.5	2,171.1	2,104.5	66.62	32.589			
13,700.0	11,650.0	12,397.9	9,500.0	33.2	51.0	7.90	-2,348.1	-920.6	2,171.0	2,104.6	66.35	32.719			
13,800.0	11,650.0	12,311.0	9,501.9	33.8	49.6	7.94	-2,435.0	-921.8	2,169.1	2,102.9	66.26	32.739			
13,900.0	11,650.0	12,240.4	9,502.6	34.4	48.5	7.99	-2,505.6	-923.5	2,168.4	2,102.2	66.22	32.743			
14,000.0	11,650.0	12,127.2	9,503.8	35.1	46.7	8.06	-2,618.7	-925.8	2,167.7	2,101.5	66.16	32.765			
14,038.5	11,650.0	12,103.1	9,503.9	35.3	46.4	8.07	-2,642.8	-926.1	2,167.5	2,101.4	66.17	32.756			
14,100.0	11,650.0	12,052.0	9,503.7	35.8	45.6	8.10	-2,693.9	-927.2	2,167.9	2,101.8	66.18	32.758			
14,200.0	11,650.0	11,984.4	9,502.7	36.4	44.5	8.13	-2,761.5	-928.4	2,169.5	2,103.2	66.24	32.751			
14,300.0	11,650.0	11,826.2	9,502.3	37.1	42.1	8.15	-2,919.6	-928.7	2,169.7	2,103.5	66.19	32.779			
14,351.7	11,650.0	11,789.9	9,502.4	37.5	41.5	8.15	-2,956.0	-928.7	2,169.5	2,103.2	66.26	32.744			
14,400.0	11,650.0	11,737.6	9,502.4	37.8	40.7	8.16	-3,008.3	-928.9	2,169.6	2,103.3	66.30	32.725			
14,500.0	11,650.0	11,579.0	9,505.2	38.6	38.3	8.21	-3,166.8	-929.8	2,167.9	2,101.6	66.32	32.688			
14,600.0	11,650.0	11,533.5	9,505.8	39.3	37.6	8.19	-3,212.3	-929.1	2,166.3	2,099.7	66.56	32.546			
14,614.0	11,650.0	11,527.2	9,505.8	39.4	37.5	8.19	-3,218.6	-928.9	2,166.2	2,099.6	66.59	32.530			
14,700.0	11,650.0	11,484.0	9,505.2	40.0	36.8	8.16	-3,261.8	-927.9	2,167.2	2,100.4	66.79	32.450			
14,800.0	11,650.0	11,383.5	9,502.8	40.8	35.3	8.12	-3,362.3	-926.5	2,169.3	2,102.3	67.00	32.379			
14,900.0	11,650.0	11,285.6	9,500.8	41.6	33.8	8.10	-3,460.1	-925.6	2,171.3	2,104.1	67.26	32.285			
15,000.0	11,650.0	11,182.6	9,498.6	42.3	32.3	8.07	-3,563.1	-924.7	2,173.3	2,105.7	67.54	32.176			
15,100.0	11,650.0	11,090.7	9,497.1	43.1	31.0	8.12	-3,655.0	-926.6	2,175.3	2,107.4	67.90	32.035			
15,200.0	11,650.0	11,010.0	9,495.2	43.9	29.8	8.18	-3,735.6	-928.9	2,178.0	2,109.7	68.31	31.886			
15,300.0	11,650.0	10,875.6	9,491.4	44.7	27.9	8.23	-3,869.9	-931.2	2,181.3	2,112.6	68.70	31.754			
15,400.0	11,650.0	10,755.1	9,491.0	45.5	26.3	8.31	-3,990.3	-933.8	2,181.9	2,112.8	69.12	31.565			
15,500.0	11,650.0	10,676.6	9,490.4	46.3	25.2	8.37	-4,068.9	-936.0	2,183.2	2,113.5	69.64	31.349			
15,600.0	11,650.0	10,515.2	9,490.6	47.1	23.2	8.54	-4,230.1	-942.3	2,183.7	2,113.6	70.13	31.137			
15,699.1	11,650.0	10,442.0	9,491.6	47.9	22.3	8.64	-4,303.2	-945.6	2,183.2	2,112.4	70.74	30.863			
15,700.0	11,650.0	10,442.0	9,491.6	47.9	22.3	8.64	-4,303.2	-945.6	2,183.2	2,112.4	70.74	30.860			
15,800.0	11,650.0	10,366.7	9,491.6	48.7	21.5	8.71	-4,378.5	-948.4	2,183.8	2,112.4	71.37	30.599			
15,900.0	11,650.0	10,233.7	9,491.6	49.6	20.1	8.82	-4,511.4	-952.3	2,184.3	2,112.3	71.98	30.346			
15,936.3	11,650.0	10,204.4	9,491.8	49.9	19.9	8.85	-4,540.7	-953.2	2,184.2	2,112.0	72.22	30.242			
16,000.0	11,650.0	10,157.0	9,491.9	50.4	19.4	8.89	-4,588.1	-954.7	2,184.4	2,111.7	72.66	30.063			
16,100.0	11,650.0	10,080.2	9,491.5	51.2	18.9	8.97	-4,664.9	-957.5	2,185.6	2,112.2	73.36	29.791			
16,200.0	11,650.0	9,987.7	9,490.3	52.1	18.3	9.06	-4,757.2	-960.9	2,187.5	2,113.4	74.09	29.525			
16,300.0	11,650.0	9,936.0	9,488.9	52.9	18.1	9.09	-4,808.9	-962.2	2,190.7	2,115.9	74.81	29.281			

CC - Min centre to center 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 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 54-r.5 GYRO-NS-CT, 1153-r.5 MWD												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,400.0	11,650.0	9,905.0	9,487.3	53.8	18.0	9.10	-4,839.9	-962.9	2,196.4	2,120.9	75.50	29.092	
16,500.0	11,650.0	9,873.0	9,484.8	54.6	17.9	9.11	-4,871.8	-963.6	2,205.2	2,129.0	76.14	28.960	
16,600.0	11,650.0	9,842.0	9,481.3	55.5	17.8	9.11	-4,902.6	-964.1	2,217.0	2,140.3	76.74	28.891	
16,700.0	11,650.0	9,810.0	9,476.4	56.3	17.7	9.10	-4,934.2	-964.4	2,232.2	2,155.0	77.28	28.884	
16,800.0	11,650.0	9,795.0	9,473.5	57.2	17.7	9.09	-4,948.9	-964.5	2,250.7	2,173.0	77.71	28.964	
16,900.0	11,650.0	9,779.0	9,470.0	58.1	17.7	9.08	-4,964.5	-964.7	2,272.7	2,194.6	78.06	29.114	
17,000.0	11,650.0	9,748.0	9,462.3	58.9	17.6	9.07	-4,994.5	-965.3	2,297.8	2,219.4	78.45	29.291	
17,100.0	11,650.0	9,717.0	9,453.2	59.8	17.6	9.06	-5,024.2	-966.2	2,326.2	2,247.4	78.80	29.520	
17,200.0	11,650.0	9,700.9	9,448.1	60.7	17.6	9.05	-5,039.4	-966.5	2,357.2	2,278.2	78.99	29.843	
17,300.0	11,650.0	9,673.5	9,438.9	61.5	17.6	9.03	-5,065.2	-967.2	2,390.9	2,311.7	79.22	30.181	
17,400.0	11,650.0	9,656.0	9,432.6	62.4	17.6	9.02	-5,081.5	-967.8	2,427.4	2,348.1	79.32	30.601	
17,500.0	11,650.0	9,625.0	9,420.8	63.3	17.6	9.00	-5,110.2	-968.8	2,466.3	2,386.8	79.52	31.013	

ConocoPhillips

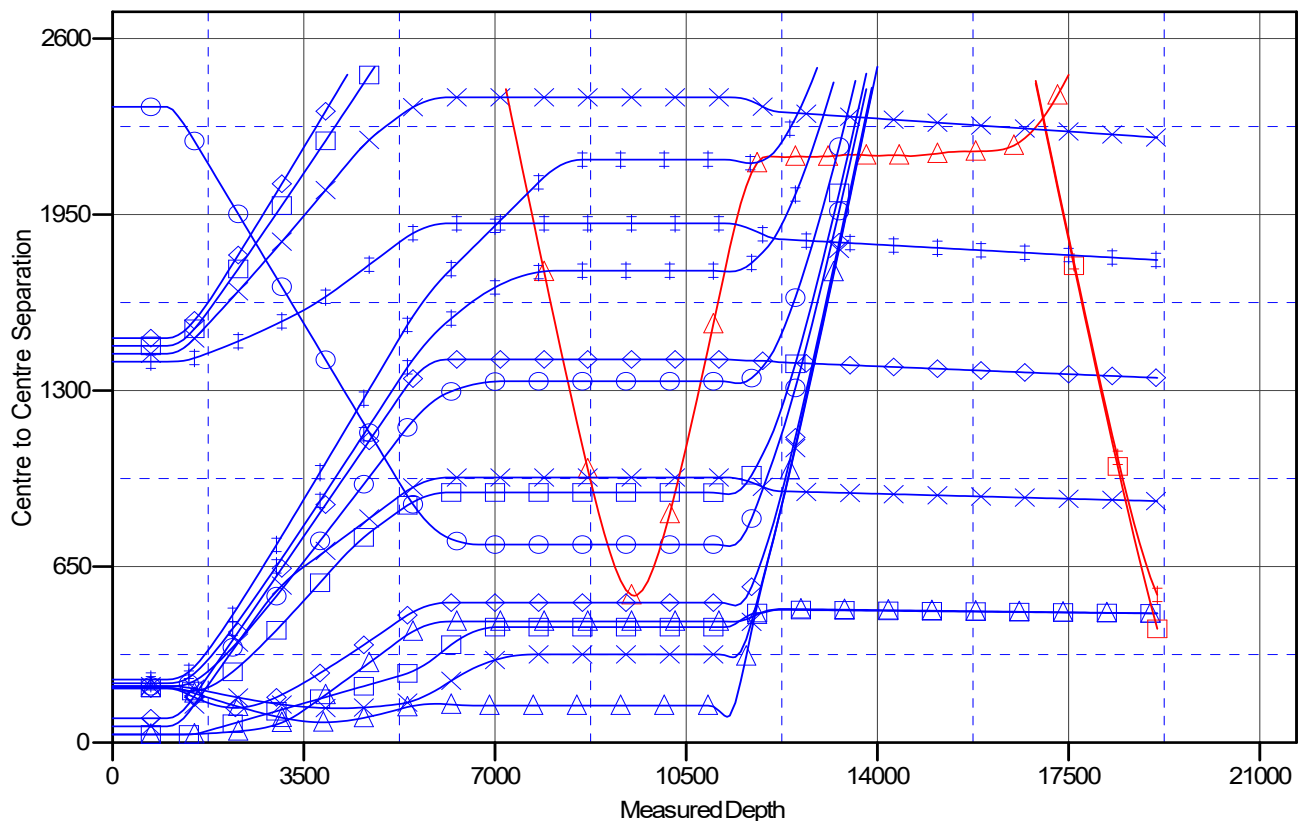
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3200.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Ladder Plot



LEGEND

GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #707H, OWB, PWP1 V0	ZIA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #705H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #704H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #703H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #704H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #701H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #702H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #706H, OWB, PWP0 V0
LINDSAY 310L-55-1 #402H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	
LINDSAY 310K-55-1 #415H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #702H, OWB, PWP0 V0	
	ZIA HILLS UNIT 2431 WC #706H, OWB, PWP0 V0	

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

ConocoPhillips

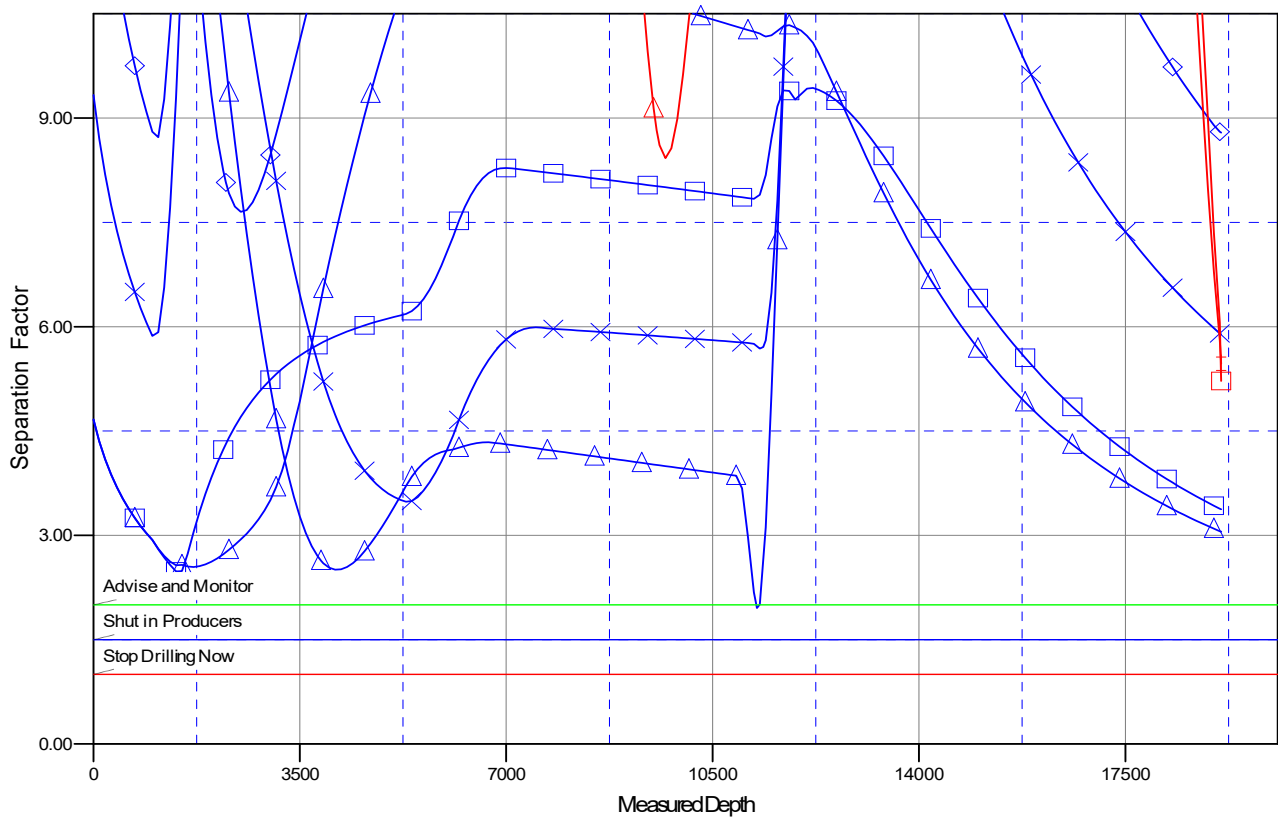
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3200.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #707H, OWB, PWP1 V0	ZIA HILLS UNIT 2331 WC #713H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #705H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #706H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #708H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #704H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #701H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #707H, OWB, PWP0 V0
*ZIA HILLSUNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #706H, OWB, PWP0 V0
LINDSAY 310L-55-1 #402H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	*ZIA HILLSUNIT 2531 WC #709H, OWB, PWP0 V0
LINDSAY 310K-55-1 #415H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #702H, OWB, PWP0 V0	
	ZIA HILLS UNIT 2431 WC #706H, OWB, PWP0 V0	

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

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H**

OWB

Plan: PWP0

Standard Planning Report

10 August, 2023

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/9/2023	6.37	59.54	47,302.52654552

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	184.51

Plan Survey Tool Program	Date	8/10/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,124.7 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1	rev.5

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	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,436.5	8.73	261.57	1,434.8	-4.9	-32.8	2.00	2.00	0.00	261.57	
5,276.6	8.73	261.57	5,230.4	-90.3	-609.3	0.00	0.00	0.00	0.00	
6,149.5	0.00	0.00	6,100.0	-100.0	-675.0	1.00	-1.00	0.00	180.00	
11,222.0	0.00	0.00	11,172.5	-100.0	-675.0	0.00	0.00	0.00	0.00	
11,972.0	90.00	175.30	11,650.0	-575.9	-635.9	12.00	12.00	0.00	175.30	
12,200.1	90.00	179.86	11,650.0	-803.6	-626.3	2.00	0.00	2.00	90.00	
19,125.0	90.00	179.86	11,650.0	-7,728.6	-609.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	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	2.00	261.57	1,100.0	-0.3	-1.7	0.4	2.00	2.00	0.00	
1,200.0	4.00	261.57	1,199.8	-1.0	-6.9	1.6	2.00	2.00	0.00	
1,300.0	6.00	261.57	1,299.5	-2.3	-15.5	3.5	2.00	2.00	0.00	
1,400.0	8.00	261.57	1,398.7	-4.1	-27.6	6.2	2.00	2.00	0.00	
1,436.5	8.73	261.57	1,434.8	-4.9	-32.8	7.4	2.00	2.00	0.00	
1,500.0	8.73	261.57	1,497.6	-6.3	-42.4	9.6	0.00	0.00	0.00	
1,600.0	8.73	261.57	1,596.4	-8.5	-57.4	13.0	0.00	0.00	0.00	
1,700.0	8.73	261.57	1,695.3	-10.7	-72.4	16.4	0.00	0.00	0.00	
1,800.0	8.73	261.57	1,794.1	-12.9	-87.4	19.8	0.00	0.00	0.00	
1,900.0	8.73	261.57	1,892.9	-15.2	-102.4	23.2	0.00	0.00	0.00	
2,000.0	8.73	261.57	1,991.8	-17.4	-117.4	26.6	0.00	0.00	0.00	
2,100.0	8.73	261.57	2,090.6	-19.6	-132.4	30.0	0.00	0.00	0.00	
2,200.0	8.73	261.57	2,189.5	-21.8	-147.5	33.4	0.00	0.00	0.00	
2,300.0	8.73	261.57	2,288.3	-24.1	-162.5	36.8	0.00	0.00	0.00	
2,400.0	8.73	261.57	2,387.2	-26.3	-177.5	40.2	0.00	0.00	0.00	
2,500.0	8.73	261.57	2,486.0	-28.5	-192.5	43.6	0.00	0.00	0.00	
2,600.0	8.73	261.57	2,584.8	-30.7	-207.5	47.0	0.00	0.00	0.00	
2,700.0	8.73	261.57	2,683.7	-33.0	-222.5	50.4	0.00	0.00	0.00	
2,800.0	8.73	261.57	2,782.5	-35.2	-237.5	53.8	0.00	0.00	0.00	
2,900.0	8.73	261.57	2,881.4	-37.4	-252.5	57.2	0.00	0.00	0.00	
3,000.0	8.73	261.57	2,980.2	-39.6	-267.6	60.5	0.00	0.00	0.00	
3,100.0	8.73	261.57	3,079.0	-41.9	-282.6	63.9	0.00	0.00	0.00	
3,200.0	8.73	261.57	3,177.9	-44.1	-297.6	67.3	0.00	0.00	0.00	
3,300.0	8.73	261.57	3,276.7	-46.3	-312.6	70.7	0.00	0.00	0.00	
3,400.0	8.73	261.57	3,375.6	-48.5	-327.6	74.1	0.00	0.00	0.00	
3,500.0	8.73	261.57	3,474.4	-50.8	-342.6	77.5	0.00	0.00	0.00	
3,600.0	8.73	261.57	3,573.3	-53.0	-357.6	80.9	0.00	0.00	0.00	
3,700.0	8.73	261.57	3,672.1	-55.2	-372.7	84.3	0.00	0.00	0.00	
3,800.0	8.73	261.57	3,770.9	-57.4	-387.7	87.7	0.00	0.00	0.00	
3,900.0	8.73	261.57	3,869.8	-59.7	-402.7	91.1	0.00	0.00	0.00	
4,000.0	8.73	261.57	3,968.6	-61.9	-417.7	94.5	0.00	0.00	0.00	
4,100.0	8.73	261.57	4,067.5	-64.1	-432.7	97.9	0.00	0.00	0.00	
4,200.0	8.73	261.57	4,166.3	-66.3	-447.7	101.3	0.00	0.00	0.00	
4,300.0	8.73	261.57	4,265.1	-68.6	-462.7	104.7	0.00	0.00	0.00	
4,400.0	8.73	261.57	4,364.0	-70.8	-477.7	108.1	0.00	0.00	0.00	
4,500.0	8.73	261.57	4,462.8	-73.0	-492.8	111.5	0.00	0.00	0.00	
4,600.0	8.73	261.57	4,561.7	-75.2	-507.8	114.9	0.00	0.00	0.00	
4,700.0	8.73	261.57	4,660.5	-77.4	-522.8	118.3	0.00	0.00	0.00	
4,800.0	8.73	261.57	4,759.4	-79.7	-537.8	121.7	0.00	0.00	0.00	
4,900.0	8.73	261.57	4,858.2	-81.9	-552.8	125.1	0.00	0.00	0.00	
5,000.0	8.73	261.57	4,957.0	-84.1	-567.8	128.5	0.00	0.00	0.00	
5,100.0	8.73	261.57	5,055.9	-86.3	-582.8	131.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	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)	
5,200.0	8.73	261.57	5,154.7	-88.6	-597.8	135.3	0.00	0.00	0.00	
5,276.6	8.73	261.57	5,230.4	-90.3	-609.3	137.9	0.00	0.00	0.00	
5,300.0	8.50	261.57	5,253.6	-90.8	-612.8	138.7	1.00	-1.00	0.00	
5,400.0	7.50	261.57	5,352.6	-92.8	-626.6	141.8	1.00	-1.00	0.00	
5,500.0	6.50	261.57	5,451.8	-94.6	-638.6	144.5	1.00	-1.00	0.00	
5,600.0	5.50	261.57	5,551.3	-96.1	-649.0	146.9	1.00	-1.00	0.00	
5,700.0	4.50	261.57	5,650.9	-97.4	-657.6	148.8	1.00	-1.00	0.00	
5,800.0	3.50	261.57	5,750.7	-98.4	-664.5	150.4	1.00	-1.00	0.00	
5,900.0	2.50	261.57	5,850.5	-99.2	-669.6	151.5	1.00	-1.00	0.00	
6,000.0	1.50	261.57	5,950.5	-99.7	-673.1	152.3	1.00	-1.00	0.00	
6,100.0	0.50	261.57	6,050.5	-100.0	-674.8	152.7	1.00	-1.00	0.00	
6,149.5	0.00	0.00	6,100.0	-100.0	-675.0	152.8	1.00	-1.00	0.00	
6,200.0	0.00	0.00	6,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,250.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,350.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,450.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,550.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,650.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,750.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,850.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,950.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,050.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,250.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,350.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,450.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,550.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,650.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,750.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,850.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,950.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,050.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,250.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,350.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,450.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,550.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,650.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,750.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,850.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,950.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,050.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,250.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,350.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,450.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,550.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,650.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,750.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,850.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,950.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,050.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	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)	
10,300.0	0.00	0.00	10,250.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,350.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,450.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,550.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,650.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,750.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,850.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,950.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,050.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,150.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
11,222.0	0.00	0.00	11,172.5	-100.0	-675.0	152.8	0.00	0.00	0.00	
11,225.0	0.35	175.30	11,175.5	-100.0	-675.0	152.8	12.00	12.00	0.00	
11,250.0	3.35	175.30	11,200.4	-100.8	-674.9	153.6	12.00	12.00	0.00	
11,275.0	6.35	175.30	11,225.3	-102.9	-674.8	155.6	12.00	12.00	0.00	
11,300.0	9.35	175.30	11,250.1	-106.3	-674.5	159.0	12.00	12.00	0.00	
11,325.0	12.35	175.30	11,274.7	-111.0	-674.1	163.7	12.00	12.00	0.00	
11,350.0	15.35	175.30	11,298.9	-117.0	-673.6	169.6	12.00	12.00	0.00	
11,375.0	18.35	175.30	11,322.9	-124.2	-673.0	176.7	12.00	12.00	0.00	
11,400.0	21.35	175.30	11,346.4	-132.7	-672.3	185.1	12.00	12.00	0.00	
11,425.0	24.35	175.30	11,369.4	-142.3	-671.5	194.7	12.00	12.00	0.00	
11,450.0	27.35	175.30	11,391.9	-153.2	-670.6	205.5	12.00	12.00	0.00	
11,475.0	30.35	175.30	11,413.8	-165.2	-669.6	217.4	12.00	12.00	0.00	
11,500.0	33.35	175.30	11,435.0	-178.4	-668.6	230.4	12.00	12.00	0.00	
11,525.0	36.35	175.30	11,455.5	-192.6	-667.4	244.5	12.00	12.00	0.00	
11,550.0	39.35	175.30	11,475.3	-207.9	-666.1	259.6	12.00	12.00	0.00	
11,575.0	42.35	175.30	11,494.2	-224.2	-664.8	275.8	12.00	12.00	0.00	
11,600.0	45.35	175.30	11,512.2	-241.5	-663.4	292.9	12.00	12.00	0.00	
11,625.0	48.35	175.30	11,529.3	-259.6	-661.9	310.9	12.00	12.00	0.00	
11,650.0	51.35	175.30	11,545.4	-278.7	-660.3	329.7	12.00	12.00	0.00	
11,675.0	54.35	175.30	11,560.5	-298.5	-658.7	349.4	12.00	12.00	0.00	
11,700.0	57.35	175.30	11,574.5	-319.2	-657.0	369.8	12.00	12.00	0.00	
11,725.0	60.35	175.30	11,587.5	-340.5	-655.2	390.9	12.00	12.00	0.00	
11,750.0	63.35	175.30	11,599.3	-362.5	-653.4	412.7	12.00	12.00	0.00	
11,775.0	66.35	175.30	11,609.9	-385.0	-651.6	435.0	12.00	12.00	0.00	
11,800.0	69.35	175.30	11,619.3	-408.1	-649.7	457.9	12.00	12.00	0.00	
11,825.0	72.35	175.30	11,627.5	-431.6	-647.7	481.2	12.00	12.00	0.00	
11,850.0	75.35	175.30	11,634.5	-455.5	-645.8	504.9	12.00	12.00	0.00	
11,875.0	78.35	175.30	11,640.1	-479.8	-643.8	528.9	12.00	12.00	0.00	
11,900.0	81.35	175.30	11,644.5	-504.3	-641.8	553.2	12.00	12.00	0.00	
11,925.0	84.35	175.30	11,647.6	-529.0	-639.7	577.7	12.00	12.00	0.00	
11,950.0	87.35	175.30	11,649.5	-553.9	-637.7	602.3	12.00	12.00	0.00	
11,972.0	90.00	175.30	11,650.0	-575.9	-635.9	624.1	12.00	12.00	0.00	
12,000.0	90.00	175.86	11,650.0	-603.7	-633.7	651.7	2.00	0.00	2.00	
12,100.0	90.00	177.86	11,650.0	-703.6	-628.2	750.8	2.00	0.00	2.00	
12,200.1	90.00	179.86	11,650.0	-803.6	-626.3	850.4	2.00	0.00	2.00	
12,300.0	90.00	179.86	11,650.0	-903.6	-626.0	950.0	0.00	0.00	0.00	
12,400.0	90.00	179.86	11,650.0	-1,003.6	-625.8	1,049.6	0.00	0.00	0.00	
12,500.0	90.00	179.86	11,650.0	-1,103.6	-625.5	1,149.3	0.00	0.00	0.00	
12,600.0	90.00	179.86	11,650.0	-1,203.6	-625.3	1,249.0	0.00	0.00	0.00	
12,700.0	90.00	179.86	11,650.0	-1,303.6	-625.0	1,348.7	0.00	0.00	0.00	
12,800.0	90.00	179.86	11,650.0	-1,403.6	-624.8	1,448.3	0.00	0.00	0.00	
12,900.0	90.00	179.86	11,650.0	-1,503.5	-624.6	1,548.0	0.00	0.00	0.00	
13,000.0	90.00	179.86	11,650.0	-1,603.5	-624.3	1,647.7	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.00	179.86	11,650.0	-1,703.5	-624.1	1,747.3	0.00	0.00	0.00
13,200.0	90.00	179.86	11,650.0	-1,803.5	-623.8	1,847.0	0.00	0.00	0.00
13,300.0	90.00	179.86	11,650.0	-1,903.5	-623.6	1,946.7	0.00	0.00	0.00
13,400.0	90.00	179.86	11,650.0	-2,003.5	-623.3	2,046.3	0.00	0.00	0.00
13,500.0	90.00	179.86	11,650.0	-2,103.5	-623.1	2,146.0	0.00	0.00	0.00
13,600.0	90.00	179.86	11,650.0	-2,203.5	-622.9	2,245.7	0.00	0.00	0.00
13,700.0	90.00	179.86	11,650.0	-2,303.5	-622.6	2,345.4	0.00	0.00	0.00
13,800.0	90.00	179.86	11,650.0	-2,403.5	-622.4	2,445.0	0.00	0.00	0.00
13,900.0	90.00	179.86	11,650.0	-2,503.5	-622.1	2,544.7	0.00	0.00	0.00
14,000.0	90.00	179.86	11,650.0	-2,603.5	-621.9	2,644.4	0.00	0.00	0.00
14,100.0	90.00	179.86	11,650.0	-2,703.5	-621.6	2,744.0	0.00	0.00	0.00
14,200.0	90.00	179.86	11,650.0	-2,803.5	-621.4	2,843.7	0.00	0.00	0.00
14,300.0	90.00	179.86	11,650.0	-2,903.5	-621.2	2,943.4	0.00	0.00	0.00
14,400.0	90.00	179.86	11,650.0	-3,003.5	-620.9	3,043.1	0.00	0.00	0.00
14,500.0	90.00	179.86	11,650.0	-3,103.5	-620.7	3,142.7	0.00	0.00	0.00
14,600.0	90.00	179.86	11,650.0	-3,203.5	-620.4	3,242.4	0.00	0.00	0.00
14,700.0	90.00	179.86	11,650.0	-3,303.5	-620.2	3,342.1	0.00	0.00	0.00
14,800.0	90.00	179.86	11,650.0	-3,403.5	-619.9	3,441.7	0.00	0.00	0.00
14,900.0	90.00	179.86	11,650.0	-3,503.5	-619.7	3,541.4	0.00	0.00	0.00
15,000.0	90.00	179.86	11,650.0	-3,603.5	-619.5	3,641.1	0.00	0.00	0.00
15,100.0	90.00	179.86	11,650.0	-3,703.5	-619.2	3,740.8	0.00	0.00	0.00
15,200.0	90.00	179.86	11,650.0	-3,803.5	-619.0	3,840.4	0.00	0.00	0.00
15,300.0	90.00	179.86	11,650.0	-3,903.5	-618.7	3,940.1	0.00	0.00	0.00
15,400.0	90.00	179.86	11,650.0	-4,003.5	-618.5	4,039.8	0.00	0.00	0.00
15,500.0	90.00	179.86	11,650.0	-4,103.5	-618.2	4,139.4	0.00	0.00	0.00
15,600.0	90.00	179.86	11,650.0	-4,203.5	-618.0	4,239.1	0.00	0.00	0.00
15,700.0	90.00	179.86	11,650.0	-4,303.5	-617.8	4,338.8	0.00	0.00	0.00
15,800.0	90.00	179.86	11,650.0	-4,403.5	-617.5	4,438.5	0.00	0.00	0.00
15,900.0	90.00	179.86	11,650.0	-4,503.5	-617.3	4,538.1	0.00	0.00	0.00
16,000.0	90.00	179.86	11,650.0	-4,603.5	-617.0	4,637.8	0.00	0.00	0.00
16,100.0	90.00	179.86	11,650.0	-4,703.5	-616.8	4,737.5	0.00	0.00	0.00
16,200.0	90.00	179.86	11,650.0	-4,803.5	-616.5	4,837.1	0.00	0.00	0.00
16,300.0	90.00	179.86	11,650.0	-4,903.5	-616.3	4,936.8	0.00	0.00	0.00
16,400.0	90.00	179.86	11,650.0	-5,003.5	-616.1	5,036.5	0.00	0.00	0.00
16,500.0	90.00	179.86	11,650.0	-5,103.5	-615.8	5,136.2	0.00	0.00	0.00
16,600.0	90.00	179.86	11,650.0	-5,203.5	-615.6	5,235.8	0.00	0.00	0.00
16,700.0	90.00	179.86	11,650.0	-5,303.5	-615.3	5,335.5	0.00	0.00	0.00
16,800.0	90.00	179.86	11,650.0	-5,403.5	-615.1	5,435.2	0.00	0.00	0.00
16,900.0	90.00	179.86	11,650.0	-5,503.5	-614.8	5,534.8	0.00	0.00	0.00
17,000.0	90.00	179.86	11,650.0	-5,603.5	-614.6	5,634.5	0.00	0.00	0.00
17,100.0	90.00	179.86	11,650.0	-5,703.5	-614.4	5,734.2	0.00	0.00	0.00
17,200.0	90.00	179.86	11,650.0	-5,803.5	-614.1	5,833.9	0.00	0.00	0.00
17,300.0	90.00	179.86	11,650.0	-5,903.5	-613.9	5,933.5	0.00	0.00	0.00
17,400.0	90.00	179.86	11,650.0	-6,003.5	-613.6	6,033.2	0.00	0.00	0.00
17,500.0	90.00	179.86	11,650.0	-6,103.5	-613.4	6,132.9	0.00	0.00	0.00
17,600.0	90.00	179.86	11,650.0	-6,203.5	-613.1	6,232.5	0.00	0.00	0.00
17,700.0	90.00	179.86	11,650.0	-6,303.5	-612.9	6,332.2	0.00	0.00	0.00
17,800.0	90.00	179.86	11,650.0	-6,403.5	-612.7	6,431.9	0.00	0.00	0.00
17,900.0	90.00	179.86	11,650.0	-6,503.5	-612.4	6,531.6	0.00	0.00	0.00
18,000.0	90.00	179.86	11,650.0	-6,603.5	-612.2	6,631.2	0.00	0.00	0.00
18,100.0	90.00	179.86	11,650.0	-6,703.5	-611.9	6,730.9	0.00	0.00	0.00
18,200.0	90.00	179.86	11,650.0	-6,803.5	-611.7	6,830.6	0.00	0.00	0.00
18,300.0	90.00	179.86	11,650.0	-6,903.5	-611.4	6,930.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #702H - Slot ZHU 2531 WC #702H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,400.0	90.00	179.86	11,650.0	-7,003.5	-611.2	7,029.9	0.00	0.00	0.00	
18,500.0	90.00	179.86	11,650.0	-7,103.5	-611.0	7,129.6	0.00	0.00	0.00	
18,600.0	90.00	179.86	11,650.0	-7,203.5	-610.7	7,229.2	0.00	0.00	0.00	
18,700.0	90.00	179.86	11,650.0	-7,303.5	-610.5	7,328.9	0.00	0.00	0.00	
18,800.0	90.00	179.86	11,650.0	-7,403.5	-610.2	7,428.6	0.00	0.00	0.00	
18,900.0	90.00	179.86	11,650.0	-7,503.5	-610.0	7,528.3	0.00	0.00	0.00	
19,000.0	90.00	179.86	11,650.0	-7,603.5	-609.7	7,627.9	0.00	0.00	0.00	
19,100.0	90.00	179.86	11,650.0	-7,703.5	-609.5	7,727.6	0.00	0.00	0.00	
19,125.0	90.00	179.86	11,650.0	-7,728.6	-609.4	7,752.6	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
FTP (ZHU 2531 WC #702H)	0.00	0.00	11,650.0	-354.1	-624.3	371,689.24	684,729.73	32° 1' 13.754 N	103° 44' 14.254 W	
- plan misses target center by 56.7usft at 11766.2usft MD (11606.3 TVD, -377.0 N, -652.2 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #702H)	0.00	359.88	11,650.0	-7,728.6	-609.4	364,314.78	684,744.55	32° 0' 0.774 N	103° 44' 14.555 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,369.5 D20.0)										
LTP (ZHU 2531 WC #702H)	90.00	179.74	11,650.0	-7,678.6	-609.7	364,364.78	684,744.32	32° 0' 1.269 N	103° 44' 14.554 W	
- plan misses target center by 0.1usft at 19075.0usft MD (11650.0 TVD, -7678.6 N, -609.6 E)										
- Circle (radius 50.0)										

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 702H
SURFACE HOLE FOOTAGE:	245'/S & 1370'/W
BOTTOM HOLE FOOTAGE:	50'/S & 725'/W
LOCATION:	Section 24, T.26 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	☒ Yes	☐ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☒ Medium	☐ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Wellhead Variance	☐ Diverter		
Other	☐ 4 String	☐ Capitan Reef	☐ WIPP
Other	☒ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency Cement Squeeze	☐ EchoMeter	☐ Primary Cement Squeeze
Special Requirements	☐ Water Disposal	☐ COM	☒ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements Variance	☒ Break Testing	☐ Offline Cementing	☒ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately **1000 feet per BLM Geologist** (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. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ 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.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **1000 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. 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.
 - f. 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)
- g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ 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.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
7. 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.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

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 10-3/4 inch surface casing. Minimum working pressure of

the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) 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 OOGO2.III.A.2.i 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)

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Casing Clearance:

- The W441 connection should tie back 500'+ into the W513 intermediate casing for clearance overlap.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

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
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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-Q 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 3172**.
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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)
 - iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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.

JS 10/3/2024

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

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 430630

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 430630
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/11/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/11/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/21/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/21/2025
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.	2/21/2025
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.	2/21/2025