

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-55890
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 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: NWN / 69 FNL / 2575 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0207434 / LONG: -103.7313253 (TVD: 0 feet, MD: 0 feet)

PPP: NWN / 100 FNL / 1780 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206766 / LONG: -103.7287591 (TVD: 11612 feet, MD: 11808 feet)

BHL: LOT 2 / 50 FSL / 1960 FEL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003434 / LONG: -103.7292146 (TVD: 11650 feet, MD: 19195 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- 55890	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 708H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,162.00'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL B	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 69' FNL	Ft. from E/W 2,575' FEL	Latitude 32.020743°	Longitude -103.731325°	County EDDY
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Bottom Hole Location

UL LOT 2	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,960' FEL	Latitude 32.000343°	Longitude -103.729215°	County EDDY
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Dedicated Acres 900	Infill or Defining Well Infill	Defining Well API Pending 709H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL B	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 69' FNL	Ft. from E/W 2,575' FEL	Latitude 32.020743°	Longitude -103.731325°	County EDDY
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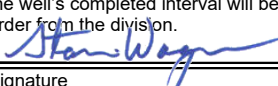
First Take Point (FTP)

UL B	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,780' FEL	Latitude 32.020677°	Longitude -103.728759°	County EDDY
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Last Take Point (LTP)

UL LOT 2	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,960' FEL	Latitude 32.000481°	Longitude -103.729216°	County EDDY
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Unitized Area or Area of Uniform Interest Unit	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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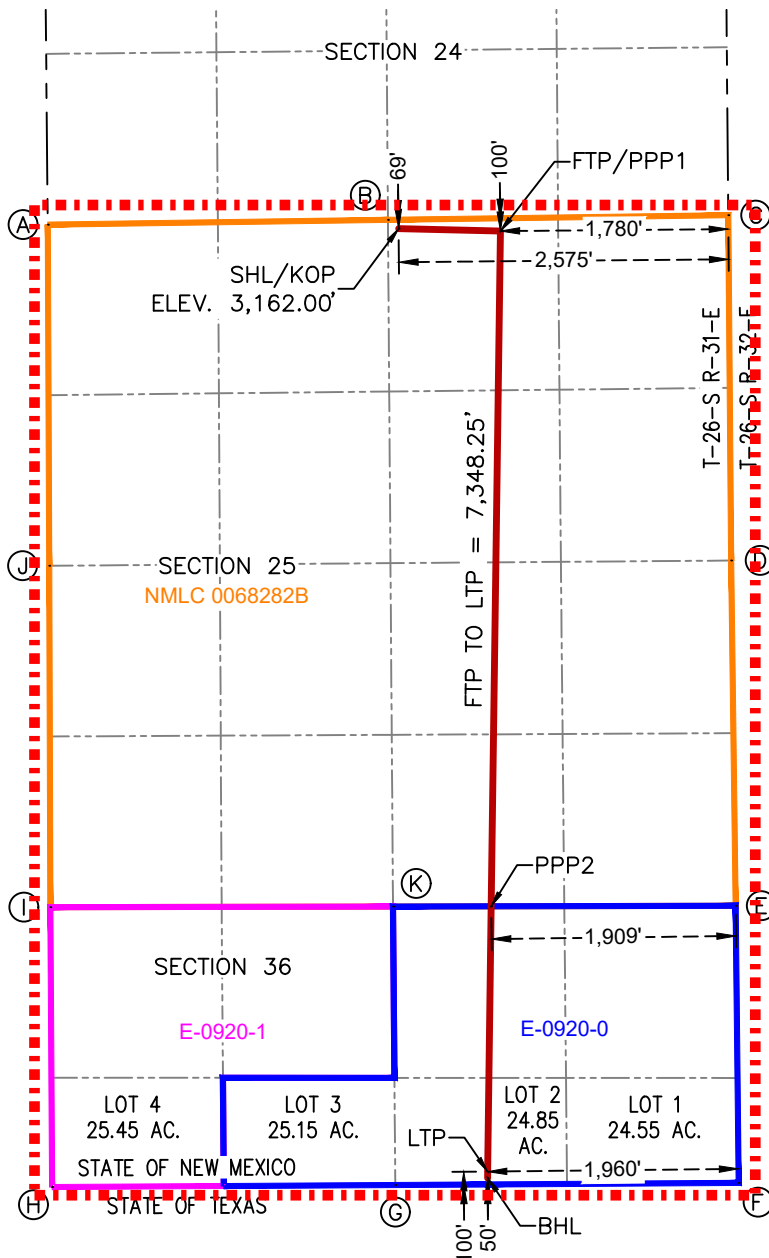
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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.  Stan Wagner 3/19/2024		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 Stan Wagner		Signature and Seal of Professional Surveyor	
Printed Name		Certificate Number 12177	Date of Survey 11/21/2024
Email Address			

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**
69' FNL & 2,575' FEL
ELEV.=3,162.00'

NAD 83 X = 727,912.27'
NAD 83 Y = 371,805.09'
NAD 83 LAT = 32.020743°
NAD 83 LONG = -103.731325°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 1,780' FEL
NAD 83 X = 728,707.75'
NAD 83 Y = 371,785.20'
NAD 83 LAT = 32.020677°
NAD 83 LONG = -103.728759°

PENETRATION POINT 2
0' FNL & 1,909' FEL
NAD 83 X = 728,635.69'
NAD 83 Y = 366,510.51'
NAD 83 LAT = 32.006178°
NAD 83 LONG = -103.729087°

LAST TAKE POINT
100' FSL & 1,960' FEL
NAD 83 X = 728,607.37'
NAD 83 Y = 364,437.64'
NAD 83 LAT = 32.000481°
NAD 83 LONG = -103.729216°

BOTTOM HOLE LOCATION
50' FSL & 1,960' FEL
NAD 83 X = 728,607.93'
NAD 83 Y = 364,387.64'
NAD 83 LAT = 32.000343°
NAD 83 LONG = -103.729215°

**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

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips 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 706H	30-015-	B-25-26S-31E	69 FNL & 2635 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 707H	30-015-	B-25-26S-31E	69 FNL & 2605 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 708H	30-015-	B-25-26S-31E	69 FNL & 2575 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 709H	30-015-	B-25-26S-31E	69 FNL & 1515 FEL	± 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
706H, 707H, 708H, 709H						

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 708H

1. Geologic Formations

TVD of target	11,723' EOL	Pilot hole depth	NA
MD at TD:	19,195'	Deepest expected fresh water:	365'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1211	Water	
Top of Salt	1628	Salt	
Base of Salt	3910	Salt	
Lamar	4160	Salt Water	
Bell Canyon	4192	Salt Water	
Cherry Canyon	5057	Oil/Gas	
Brushy Canyon	6413	Oil/Gas	
Bone Spring	8136	Oil/Gas	
1st Bone Spring Sand	9134	Oil/Gas	
2nd Bone Spring Sand	9810	Oil/Gas	
3rd Bone Spring Sand	10949	Oil/Gas	
Wolfcamp	11494	Oil/Gas	
Wolfcamp A	11527	Target	
Wolfcamp B	11895	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	19,195	5.5"	23	P110-CY	W441	1.77	2.06	2.70	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	1.60	10.58	11.27
12.25"	0	4060	9.625"	40	L80-IC	BTC	1.83	1.32	5.64	5.83
8.75"	3860	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	19,195	5.5"	23	P110-CY	W441	1.77	2.06	2.70	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 18, 2024

1

ConocoPhillips Company - Zia Hills Unit 2531 WC 708H

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 708H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	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
	630	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	760	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	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	3,860'	20%
Production	10,850'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 708H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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 708H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 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 708H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8230 psi at 11723' 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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

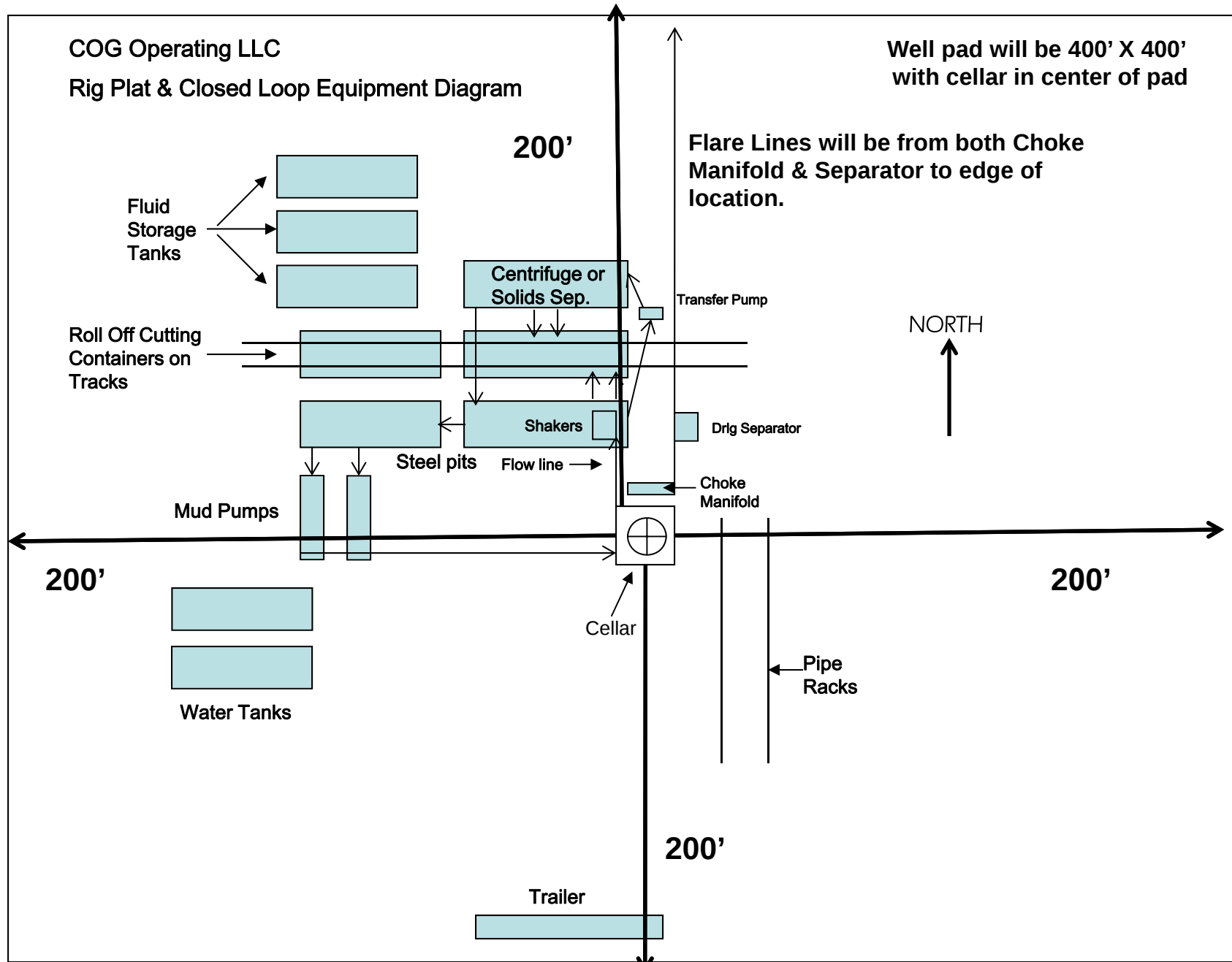


Exhibit 1

"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 AREA

ZIA HILLS UNIT 2531 PROJECT

_ZIA HILLS UNIT 2531 WC 708H

OWB

PWP0

Anticollision Report

11 December, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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 + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	12/11/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,195.3	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)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP						Out of range
LINDSAY 2 #4H - OWB - AWP						Out of range
LINDSAY 2-11A-55-1 #331H - OWB - AWP						Out of range
LINDSAY 2-11B-55-1 #332H - OWB - AWP						Out of range
LINDSAY 2-11C-55-1 #333H - OWB - AWP						Out of range
LINDSAY 2-11D-55-1 #321H - OWB - AWP						Out of range
LINDSAY 2-11E-55-1 #332H - OWB - AWP						Out of range
LINDSAY 3-10A-55-1 #331H - OWB - AWP						Out of range
LINDSAY 3-10K-55-1 #415H - OWB - AWP						Out of range
LINDSAY 3-10L-55-1 #426H - OWB - AWP						Out of range
LINDSAY 3-10M-55-1 #404H - OWB - AWP						Out of range
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA						Out of range
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP						Out of range
ZIA HILLS 19 FEDERAL COM #106H - OWB - AWP						Out of range
ZIA HILLS 19 FEDERAL COM #107H - OWB - AWP						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	783.3	740.2	914.2	893.2	43.546	CC
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	1,100.0	1,057.3	917.3	887.6	30.943	ES
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	2,100.0	2,044.0	999.4	956.4	23.204	SF
R T WILSON FEDERAL #2 (P&A) - OWB - AWP						Out of range
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,358.6	4,236.0	576.6	474.4	5.640	CC, ES, SF
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	11,609.7	11,651.4	694.5	631.9	11.090	CC, ES, SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	6,649.4	6,722.7	106.0	73.2	3.234	CC
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	6,700.0	6,771.8	106.7	72.6	3.132	ES
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	6,900.0	6,965.8	122.1	80.0	2.900	SF
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	11,433.7	11,463.1	125.7	67.5	2.159	CC, ES
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	11,450.0	11,477.8	125.9	67.6	2.159	SF
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	11,283.6	11,251.2	557.2	503.4	10.351	CC
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	11,300.0	11,267.5	557.2	503.4	10.349	ES
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	11,325.0	11,291.6	557.3	503.4	10.346	SF
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,248.4	11,183.2	946.8	900.2	20.333	CC
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,275.0	11,209.8	946.8	900.2	20.325	ES
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,425.0	11,355.8	948.0	901.3	20.296	SF
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	1,100.0	1,100.0	61.7	51.0	5.804	SF
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	1,550.0	1,544.5	30.7	17.8	2.382	ES, SF
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP						Out of range
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	18,982.8	11,691.3	876.8	763.8	7.760	CC
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,000.0	11,682.5	876.9	763.5	7.734	ES
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,100.0	11,634.0	882.0	766.6	7.643	SF
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP						Out of range
GOLDEN SPUR WC 25 #2H - OWB - AWP						Out of range
GOLDEN SPUR WC 25 #2H - ST01 - AWP						Out of range
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	4,350.6	4,228.0	538.1	362.3	3.060	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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (usft)	Between Ellipses (usft)		
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,196.1	11,600.8				Out of Range @TD
LINDSAY 2 #4H - OWB - AWP	19,196.1	11,490.9				Out of Range @TD
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,196.1	10,813.0				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,196.1	10,713.0				Out of Range @TD
LINDSAY 2-11C-55-1 #333H - OWB - AWP	19,196.1	10,898.0				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,196.1	9,958.0				Out of Range @TD
LINDSAY 2-11E-55-1 #332H - OWB - AWP	19,196.1	10,238.0				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,196.1	10,718.0				Out of Range @TD
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,196.1	11,441.7				Out of Range @TD
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,196.1	11,764.9				Out of Range @TD
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,196.1	11,440.0				Out of Range @TD
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA	19,196.1	11,354.0				Out of Range @TD
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP	19,196.1	21,910.0				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #106H - OWB - AWP	19,196.1	21,947.5				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #107H - OWB - AWP	19,196.1	21,844.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	19,196.1	4,283.0				Out of Range @TD
R T WILSON FEDERAL #2 (P&A) - OWB - AWP	19,196.1	4,251.0				Out of Range @TD
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	19,196.1	4,236.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,196.1	10,950.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,196.1	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,196.1	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,196.1	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,196.1	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	19,196.1	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	19,196.1	11,250.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	19,196.1	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	19,196.1	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 702H - OWB - PWP0	19,196.1	19,116.3				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0	19,196.1	19,265.4				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0	19,196.1	19,071.5				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0	19,196.1	19,289.1				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	19,196.1	19,136.6	891.9	742.9	5.988	
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	19,196.1	19,308.6	477.2	321.2	3.058	
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	19,196.1	19,474.3	477.3	338.9	3.449	
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	19,196.1	11,411.0				Out of Range @TD
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,196.1	11,602.0	894.6	778.0	7.671	
GOLDEN SPUR FEDERAL #11H (P&A) - ST01 - AWP	19,196.1	8,845.0				Out of Range @TD
GOLDEN SPUR WC 25 #2H - OWB - AWP	19,196.1	11,717.2				Out of Range @TD
GOLDEN SPUR WC 25 #2H - ST01 - AWP	19,196.1	11,302.0				Out of Range @TD
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	19,196.1	4,228.0				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	ZIA HILLS UNIT 2431 PROJECT - HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	501-INC-ONLY, 1475-INC-ONLY											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	43.0	3.0	3.0	-170.32	-903.4	-154.1	917.5	910.9	6.55	140.014	
100.0	100.0	57.0	100.0	3.2	3.1	-170.32	-903.4	-154.1	916.5	909.5	6.92	132.394	
200.0	200.0	157.0	200.0	3.5	3.9	-170.32	-903.4	-154.1	916.5	908.5	7.90	115.984	
300.0	300.0	257.0	300.0	3.7	5.0	-170.32	-903.4	-154.1	916.5	907.1	9.34	98.099	
400.0	400.0	357.0	400.0	3.9	6.4	-170.32	-903.4	-154.1	916.5	905.4	11.05	82.906	
500.0	500.0	457.0	500.0	4.1	7.8	-170.32	-903.4	-154.1	916.5	903.5	12.92	70.907	
600.0	600.0	557.2	600.0	4.2	9.7	-170.32	-903.4	-154.1	916.5	901.1	15.31	59.843	
700.0	700.0	657.2	700.0	4.4	12.0	-170.32	-903.4	-154.1	916.5	898.1	18.38	49.858	
783.3	783.3	740.2	783.0	4.6	14.0	-170.29	-901.1	-154.1	914.2	893.2	20.99	43.546 CC	
800.0	800.0	755.8	798.6	4.6	14.3	-170.29	-901.1	-154.1	914.2	892.7	21.49	42.546	
900.0	900.0	848.9	891.6	4.8	16.5	-170.30	-901.6	-154.1	914.7	890.3	24.47	37.385	
1,000.0	1,000.0	942.0	984.7	4.9	18.7	-170.31	-902.8	-154.1	916.0	888.5	27.48	33.339	
1,100.0	1,100.0	1,057.3	1,100.0	5.2	20.3	117.77	-903.4	-154.1	917.3	887.6	29.64	30.943 ES	
1,200.0	1,199.8	1,157.2	1,199.8	5.4	21.2	118.01	-903.4	-154.1	919.7	888.7	31.03	29.642	
1,300.0	1,299.5	1,256.3	1,298.9	5.7	22.2	118.42	-902.9	-154.1	923.3	890.9	32.40	28.493	
1,400.0	1,398.7	1,354.0	1,396.6	6.0	23.2	118.96	-903.0	-154.1	929.3	895.6	33.77	27.522	
1,500.0	1,497.5	1,451.2	1,493.9	6.3	24.1	119.63	-903.3	-154.1	937.4	902.2	35.13	26.685	
1,550.0	1,546.6	1,504.0	1,546.6	6.4	24.6	120.06	-903.4	-154.1	942.1	906.3	35.78	26.331	
1,600.0	1,595.7	1,553.1	1,595.7	6.5	25.0	120.55	-903.4	-154.1	946.9	910.6	36.33	26.067	
1,700.0	1,693.9	1,646.9	1,689.5	6.8	25.7	121.49	-902.7	-154.1	956.2	918.8	37.41	25.563	
1,800.0	1,792.0	1,749.5	1,792.0	7.1	26.6	122.47	-903.4	-154.1	967.2	928.5	38.64	25.027	
1,900.0	1,890.2	1,847.6	1,890.2	7.4	27.6	123.40	-903.4	-154.1	977.7	937.6	40.05	24.411	
2,000.0	1,988.4	1,941.6	1,984.1	7.7	28.5	124.28	-903.2	-154.1	988.2	946.8	41.40	23.869	
2,100.0	2,086.5	2,044.0	2,086.5	8.1	29.7	125.21	-903.4	-154.1	999.4	956.4	43.07	23.204 SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - R T WILSON FEDERAL #4 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-INC-ONLY, 1100-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	35.0	3.0	3.0	36.14	757.5	553.2	938.6	932.0	6.55	143.187	
100.0	100.0	65.0	100.0	3.2	3.0	36.14	757.5	553.2	937.9	931.1	6.84	137.160	
200.0	200.0	166.1	201.1	3.5	3.6	36.14	757.6	553.2	938.0	930.4	7.60	123.346	
300.0	300.0	265.5	300.5	3.7	4.8	36.14	757.5	553.2	938.0	928.9	9.10	103.060	
400.0	400.0	365.0	400.0	3.9	6.4	36.14	757.5	553.2	937.9	926.9	11.03	85.073	
500.0	500.0	465.0	500.0	4.1	8.0	36.14	757.5	553.2	937.9	924.7	13.20	71.055	
600.0	600.0	566.9	601.8	4.2	9.8	36.14	757.6	553.2	938.0	922.5	15.55	60.333	
700.0	700.0	665.0	700.0	4.4	11.5	36.14	757.5	553.2	937.9	920.0	17.89	52.427	
800.0	800.0	767.2	802.2	4.6	13.4	36.14	757.6	553.2	938.0	917.7	20.38	46.034	
900.0	900.0	865.0	900.0	4.8	15.1	36.14	757.5	553.2	937.9	915.2	22.71	41.293	
1,000.0	1,000.0	967.7	1,002.7	4.9	16.9	36.14	757.5	553.2	938.0	912.8	25.15	37.301	
1,100.0	1,100.0	1,065.0	1,100.0	5.2	17.9	-35.94	757.5	553.2	936.5	910.0	26.49	35.351	
1,200.0	1,199.8	1,164.9	1,199.8	5.4	18.4	-36.18	757.5	553.2	932.3	905.0	27.30	34.155	
1,300.0	1,299.5	1,264.5	1,299.5	5.7	18.8	-36.58	757.5	553.2	925.3	897.4	27.89	33.179	
1,400.0	1,398.7	1,367.4	1,402.4	6.0	19.5	-37.18	757.7	553.2	915.7	886.8	28.88	31.702	
1,500.0	1,497.5	1,462.5	1,497.5	6.3	20.3	-37.90	757.5	553.2	903.0	872.9	30.08	30.025	
1,550.0	1,546.6	1,515.2	1,550.1	6.4	20.8	-38.38	757.7	553.2	896.0	865.2	30.79	29.105	
1,600.0	1,595.7	1,560.8	1,595.7	6.5	21.3	-38.73	757.5	553.2	888.3	856.9	31.44	28.253	
1,700.0	1,693.9	1,662.6	1,697.5	6.8	22.5	-39.54	757.7	553.2	873.6	840.4	33.18	26.326	
1,800.0	1,792.0	1,757.1	1,792.0	7.1	23.7	-40.31	757.5	553.2	858.6	823.7	34.92	24.591	
1,900.0	1,890.2	1,860.6	1,895.5	7.4	25.1	-41.19	757.6	553.2	844.2	807.3	36.88	22.891	
2,000.0	1,988.4	1,953.5	1,988.4	7.7	26.5	-42.00	757.5	553.2	829.7	790.9	38.76	21.406	
2,100.0	2,086.5	2,055.4	2,090.3	8.1	27.9	-42.93	757.6	553.2	815.6	774.7	40.84	19.972	
2,200.0	2,184.7	2,149.8	2,184.7	8.4	29.4	-43.81	757.5	553.2	801.5	758.6	42.88	18.691	
2,300.0	2,282.8	2,252.7	2,287.6	8.8	31.0	-44.81	757.4	553.2	787.7	742.6	45.13	17.454	
2,400.0	2,381.0	2,347.5	2,382.4	9.2	32.5	-45.77	757.7	553.2	774.3	727.0	47.31	16.369	
2,500.0	2,479.2	2,444.3	2,479.2	9.5	34.0	-46.77	757.5	553.2	760.8	711.4	49.44	15.387	
2,600.0	2,577.3	2,546.8	2,581.6	9.9	35.6	-47.87	757.5	553.2	747.8	696.2	51.60	14.492	
2,700.0	2,675.5	2,640.7	2,675.5	10.3	37.1	-48.91	757.5	553.2	734.9	681.2	53.71	13.683	
2,800.0	2,773.7	2,738.8	2,773.7	10.7	38.7	-50.04	757.5	553.2	722.4	666.4	55.97	12.908	
2,900.0	2,871.8	2,838.7	2,873.6	11.1	40.6	-51.24	757.8	553.2	710.5	651.9	58.59	12.127	
3,000.0	2,970.0	2,935.2	2,970.0	11.5	42.4	-52.41	757.5	553.2	698.2	637.1	61.15	11.419	
3,100.0	3,068.1	3,033.4	3,068.1	12.0	44.3	-53.66	757.5	553.2	686.6	622.8	63.79	10.763	
3,200.0	3,166.3	3,132.9	3,167.7	12.4	46.2	-54.99	758.2	553.2	676.1	609.6	66.48	10.170	
3,300.0	3,264.5	3,234.1	3,268.8	12.8	48.2	-56.35	757.8	553.2	664.8	595.6	69.20	9.606	
3,400.0	3,362.6	3,327.9	3,362.6	13.2	49.9	-57.65	757.5	553.2	653.9	582.2	71.66	9.125	
3,500.0	3,460.8	3,426.1	3,460.8	13.7	51.7	-59.07	757.5	553.2	643.8	569.6	74.17	8.679	
3,600.0	3,559.0	3,525.2	3,559.9	14.1	53.4	-60.54	757.6	553.2	634.2	557.6	76.54	8.286	
3,700.0	3,657.1	3,622.4	3,657.1	14.5	55.3	-62.03	757.5	553.2	624.7	545.6	79.08	7.899	
3,800.0	3,755.3	3,720.6	3,755.3	15.0	57.4	-63.57	757.5	553.2	615.9	533.8	82.07	7.504	
3,900.0	3,853.5	3,818.8	3,853.5	15.4	60.1	-65.16	757.5	553.2	607.5	521.8	85.72	7.087	
4,000.0	3,951.6	3,921.3	3,956.0	15.8	62.8	-66.87	758.3	553.2	600.5	511.0	89.53	6.707	
4,100.0	4,049.8	4,015.3	4,049.8	16.3	65.4	-68.46	757.5	553.2	592.2	499.1	93.10	6.361	
4,200.0	4,147.9	4,113.5	4,147.9	16.7	68.4	-70.17	757.5	553.2	585.4	488.1	97.22	6.021	
4,300.0	4,246.1	4,211.6	4,246.1	17.2	71.4	-71.92	757.5	553.2	579.1	477.7	101.35	5.714	
4,358.6	4,303.6	4,236.0	4,270.3	17.4	72.1	-72.35	757.5	553.2	576.6	474.4	102.22	5.640 CC, ES, SF	
4,400.0	4,344.3	4,236.0	4,270.3	17.6	72.1	-72.35	757.5	553.2	578.1	476.5	101.61	5.689	
4,500.0	4,442.4	4,236.0	4,270.3	18.0	72.1	-72.35	757.5	553.2	593.7	495.4	98.26	6.042	
4,600.0	4,540.6	4,236.0	4,270.3	18.5	72.1	-72.35	757.5	553.2	625.1	532.2	92.91	6.728	
4,700.0	4,638.8	4,236.0	4,270.3	18.9	72.1	-72.35	757.5	553.2	670.1	583.6	86.50	7.746	
4,800.0	4,736.9	4,236.0	4,270.3	19.4	72.1	-72.35	757.5	553.2	726.2	646.3	79.87	9.091	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	ZIA HILLS UNIT 2431 PROJECT - R T WILSON FEDERAL #4 (P&A) - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-INC-ONLY, 1100-INC-ONLY											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)					
4,900.0	4,835.1	4,236.0	4,270.3		19.8	72.1	-72.35	757.5	553.2	790.9	717.4	73.56	10.752
5,000.0	4,933.2	4,236.0	4,270.3		20.3	72.1	-72.35	757.5	553.2	862.5	794.6	67.84	12.713
5,100.0	5,031.4	4,236.0	4,270.3		20.7	72.1	-72.35	757.5	553.2	939.2	876.4	62.81	14.953
5,129.1	5,060.0	4,236.0	4,270.3		20.9	72.1	-72.35	757.5	553.2	962.4	900.9	61.47	15.656

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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				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		
6,500.0	6,424.1	6,744.4	6,617.6	25.0	28.5	-94.23	188.3	-167.7	989.1	936.6	52.48	18.846		
6,600.0	6,524.1	6,842.2	6,713.3	25.0	28.9	-94.65	182.7	-148.1	969.5	916.6	52.96	18.306		
6,700.0	6,624.1	6,940.0	6,808.9	25.1	29.4	-95.09	177.1	-128.6	950.1	896.6	53.44	17.778		
6,800.0	6,724.1	7,037.8	6,904.6	25.1	29.8	-95.55	171.5	-109.0	930.6	876.7	53.91	17.262		
6,900.0	6,824.1	7,135.6	7,000.3	25.2	30.3	-96.03	165.9	-89.5	911.3	856.9	54.38	16.756		
7,000.0	6,924.1	7,233.4	7,096.0	25.2	30.8	-96.53	160.3	-69.9	892.0	837.1	54.85	16.262		
7,100.0	7,024.1	7,331.3	7,191.6	25.2	31.2	-97.05	154.7	-50.4	872.7	817.4	55.31	15.779		
7,200.0	7,124.1	7,429.1	7,287.3	25.3	31.7	-97.60	149.1	-30.8	853.6	797.8	55.76	15.308		
7,300.0	7,224.1	7,523.6	7,379.8	25.3	32.1	-98.15	143.7	-12.0	834.6	778.4	56.19	14.852		
7,400.0	7,324.1	7,610.3	7,464.8	25.3	32.5	-98.64	139.0	4.4	816.6	760.1	56.57	14.435		
7,500.0	7,424.1	7,700.0	7,553.0	25.4	32.9	-99.13	134.5	20.0	800.1	743.2	56.95	14.050		
7,600.0	7,524.1	7,785.1	7,636.9	25.4	33.3	-99.58	130.6	33.6	785.0	727.8	57.27	13.707		
7,700.0	7,624.1	7,873.1	7,723.9	25.5	33.7	-100.01	126.9	46.4	771.4	713.8	57.59	13.394		
7,800.0	7,724.1	7,961.6	7,811.6	25.5	34.1	-100.41	123.6	58.0	759.2	701.3	57.90	13.112		
7,900.0	7,824.1	8,050.4	7,899.7	25.5	34.5	-100.77	120.6	68.3	748.3	690.2	58.18	12.862		
8,000.0	7,924.1	8,139.5	7,988.4	25.6	34.8	-101.10	118.1	77.3	738.9	680.5	58.45	12.642		
8,100.0	8,024.1	8,228.9	8,077.4	25.6	35.2	-101.39	115.8	85.0	731.0	672.2	58.71	12.451		
8,200.0	8,124.1	8,318.5	8,166.8	25.7	35.5	-101.63	114.0	91.4	724.4	665.4	58.94	12.290		
8,300.0	8,224.1	8,408.3	8,256.4	25.7	35.8	-101.83	112.6	96.5	719.2	660.0	59.16	12.157		
8,400.0	8,324.1	8,500.0	8,348.0	25.7	36.1	-101.97	111.5	100.2	715.4	656.0	59.37	12.049		
8,500.0	8,424.1	8,588.3	8,436.3	25.8	36.4	-102.07	110.8	102.5	713.0	653.5	59.51	11.980		
8,600.0	8,524.1	8,678.5	8,526.4	25.8	36.5	-102.10	110.5	103.5	712.0	652.4	59.57	11.952		
8,643.4	8,567.5	8,719.5	8,567.5	25.8	36.6	-102.11	110.5	103.6	711.9	652.3	59.59	11.948		
8,700.0	8,624.1	8,776.2	8,624.1	25.9	36.6	-102.11	110.5	103.6	711.9	652.3	59.62	11.941		
8,800.0	8,724.1	8,876.2	8,724.1	25.9	36.6	-102.11	110.5	103.6	711.9	652.3	59.68	11.930		
8,900.0	8,824.1	8,976.2	8,824.1	26.0	36.6	-102.11	110.5	103.6	711.9	652.2	59.73	11.918		
9,000.0	8,924.1	9,076.2	8,924.1	26.0	36.6	-102.11	110.5	103.6	711.9	652.1	59.79	11.907		
9,100.0	9,024.1	9,176.2	9,024.1	26.0	36.6	-102.11	110.5	103.6	711.9	652.1	59.85	11.896		
9,200.0	9,124.1	9,276.2	9,124.1	26.1	36.6	-102.11	110.5	103.6	711.9	652.0	59.91	11.884		
9,300.0	9,224.1	9,376.2	9,224.1	26.1	36.7	-102.11	110.5	103.6	711.9	652.0	59.97	11.872		
9,400.0	9,324.1	9,476.2	9,324.1	26.2	36.7	-102.11	110.5	103.6	711.9	651.9	60.02	11.861		
9,500.0	9,424.1	9,576.2	9,424.1	26.2	36.7	-102.11	110.5	103.6	711.9	651.8	60.08	11.849		
9,600.0	9,524.1	9,676.2	9,524.1	26.2	36.7	-102.11	110.5	103.6	711.9	651.8	60.14	11.837		
9,700.0	9,624.1	9,776.2	9,624.1	26.3	36.7	-102.11	110.5	103.6	711.9	651.7	60.20	11.825		
9,800.0	9,724.1	9,876.2	9,724.1	26.3	36.7	-102.11	110.5	103.6	711.9	651.7	60.26	11.814		
9,900.0	9,824.1	9,976.2	9,824.1	26.4	36.8	-102.11	110.5	103.6	711.9	651.6	60.33	11.802		
10,000.0	9,924.1	10,076.2	9,924.1	26.4	36.8	-102.11	110.5	103.6	711.9	651.5	60.39	11.790		
10,100.0	10,024.1	10,176.2	10,024.1	26.5	36.8	-102.11	110.5	103.6	711.9	651.5	60.45	11.778		
10,200.0	10,124.1	10,276.2	10,124.1	26.5	36.8	-102.11	110.5	103.6	711.9	651.4	60.51	11.766		
10,300.0	10,224.1	10,376.2	10,224.1	26.6	36.8	-102.11	110.5	103.6	711.9	651.4	60.57	11.753		
10,400.0	10,324.1	10,476.2	10,324.1	26.6	36.8	-102.11	110.5	103.6	711.9	651.3	60.63	11.741		
10,500.0	10,424.1	10,576.2	10,424.1	26.6	36.9	-102.11	110.5	103.6	711.9	651.2	60.70	11.729		
10,600.0	10,524.1	10,676.2	10,524.1	26.7	36.9	-102.11	110.5	103.6	711.9	651.2	60.76	11.717		
10,700.0	10,624.1	10,776.2	10,624.1	26.7	36.9	-102.11	110.5	103.6	711.9	651.1	60.83	11.705		
10,800.0	10,724.1	10,876.2	10,724.1	26.8	36.9	-102.11	110.5	103.6	711.9	651.0	60.89	11.692		
10,900.0	10,824.1	10,976.2	10,824.1	26.8	36.9	-102.11	110.5	103.6	711.9	651.0	60.95	11.680		
11,000.0	10,924.1	11,076.2	10,924.1	26.9	37.0	-102.11	110.5	103.6	711.9	650.9	61.02	11.667		
11,100.0	11,024.1	11,176.2	11,024.1	26.9	37.0	-102.11	110.5	103.6	711.9	650.8	61.08	11.655		
11,200.0	11,124.1	11,276.2	11,124.1	27.0	37.0	-102.11	110.5	103.6	711.9	650.8	61.15	11.642		
11,248.4	11,172.5	11,324.5	11,172.5	27.0	37.0	-102.11	110.5	103.6	711.9	650.8	61.17	11.638		
11,250.0	11,174.1	11,326.2	11,174.1	27.0	37.0	77.09	110.5	103.6	711.9	650.8	61.17	11.638		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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	
11,275.0	11,199.1	11,351.2	11,199.1	27.0	37.0	77.17	110.5	103.6	711.8	650.6	61.19	11.633		
11,300.0	11,224.0	11,376.1	11,224.0	26.9	37.0	77.38	110.5	103.6	711.3	650.1	61.21	11.622		
11,325.0	11,248.8	11,400.8	11,248.8	26.9	37.0	77.73	110.5	103.6	710.6	649.3	61.24	11.603		
11,350.0	11,273.4	11,425.4	11,273.4	26.9	37.0	78.21	110.5	103.6	709.6	648.3	61.29	11.577		
11,375.0	11,297.6	11,449.7	11,297.6	26.8	37.0	78.81	110.5	103.6	708.4	647.0	61.36	11.544		
11,400.0	11,321.6	11,473.6	11,321.6	26.8	37.0	79.52	110.5	103.6	707.0	645.5	61.45	11.505		
11,425.0	11,345.1	11,497.3	11,345.3	26.8	37.0	80.34	110.5	103.6	705.4	643.9	61.55	11.460		
11,450.0	11,368.2	11,526.6	11,374.6	26.7	37.0	81.53	111.5	103.6	703.6	641.9	61.75	11.394		
11,475.0	11,390.7	11,553.4	11,401.3	26.7	37.0	82.88	113.9	103.6	701.7	639.7	61.95	11.326		
11,500.0	11,412.6	11,577.5	11,425.1	26.6	37.0	84.30	117.4	103.5	699.7	637.5	62.15	11.259		
11,525.0	11,433.9	11,598.8	11,446.0	26.6	37.0	85.71	121.4	103.5	697.8	635.5	62.31	11.198		
11,550.0	11,454.5	11,617.4	11,464.0	26.6	37.0	87.03	125.7	103.5	696.3	633.8	62.45	11.148		
11,575.0	11,474.2	11,633.3	11,479.4	26.5	37.0	88.21	130.0	103.4	695.1	632.6	62.55	11.112		
11,600.0	11,493.2	11,646.8	11,492.3	26.5	37.0	89.23	134.0	103.4	694.5	631.9	62.61	11.093		
11,609.7	11,500.3	11,651.4	11,496.7	26.5	37.0	89.57	135.4	103.4	694.5	631.9	62.62	11.090	CC, ES, SF	
11,625.0	11,511.3	11,658.1	11,503.0	26.5	37.0	90.04	137.6	103.4	694.6	632.0	62.62	11.092		
11,650.0	11,528.4	11,667.3	11,511.6	26.5	37.0	90.64	140.7	103.4	695.4	632.9	62.59	11.111		
11,675.0	11,544.6	11,675.0	11,518.8	26.4	37.0	91.04	143.5	103.3	697.1	634.6	62.51	11.151		
11,700.0	11,559.7	11,680.4	11,523.8	26.4	37.0	91.17	145.5	103.3	699.5	637.2	62.38	11.214		
11,725.0	11,573.8	11,684.6	11,527.7	26.4	37.0	91.11	147.1	103.3	702.9	640.7	62.21	11.298		
11,750.0	11,586.8	11,687.5	11,530.4	26.4	37.0	90.84	148.2	103.3	707.1	645.1	62.00	11.404		
11,775.0	11,598.7	11,689.3	11,532.0	26.4	37.0	90.36	148.9	103.3	712.1	650.4	61.76	11.531		
11,800.0	11,609.3	11,689.9	11,532.6	26.4	37.0	89.68	149.1	103.3	718.0	656.6	61.48	11.679		
11,825.0	11,618.8	11,689.7	11,532.4	26.4	37.0	88.83	149.0	103.3	724.8	663.6	61.17	11.847		
11,850.0	11,627.1	11,688.6	11,531.4	26.4	37.0	87.79	148.6	103.3	732.2	671.4	60.85	12.034		
11,875.0	11,634.1	11,686.7	11,529.7	26.4	37.0	86.60	147.9	103.3	740.4	679.9	60.50	12.239		
11,900.0	11,639.9	11,684.1	11,527.3	26.4	37.0	85.26	146.9	103.3	749.3	689.1	60.14	12.459		
11,925.0	11,644.3	11,681.0	11,524.4	26.4	37.0	83.79	145.7	103.3	758.7	699.0	59.77	12.695		
11,950.0	11,647.5	11,675.0	11,518.8	26.5	37.0	82.02	143.5	103.3	768.7	709.4	59.37	12.949		
11,975.0	11,649.4	11,675.0	11,518.8	26.5	37.0	80.65	143.5	103.3	779.2	720.2	59.04	13.199		
11,998.4	11,650.0	11,668.7	11,512.9	26.5	37.0	78.84	141.2	103.4	789.4	730.7	58.66	13.456		
12,000.0	11,650.0	11,668.3	11,512.6	26.5	37.0	78.82	141.1	103.4	790.1	731.5	58.64	13.474		
12,100.0	11,650.0	11,650.0	11,495.3	26.7	37.0	77.45	135.0	103.4	838.9	781.8	57.10	14.692		
12,200.0	11,650.0	11,636.5	11,482.5	26.8	37.0	76.44	130.9	103.4	895.7	840.1	55.57	16.117		
12,300.0	11,650.0	11,625.0	11,471.4	27.1	37.0	75.58	127.7	103.5	959.2	905.1	54.12	17.724		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference				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		
3,900.0	3,853.5	4,161.1	4,088.1	15.4	16.8	19.99	143.0	1,417.4	969.8	938.4	31.37	30.915			
4,000.0	3,951.6	4,252.0	4,176.2	15.8	17.2	20.40	143.4	1,395.4	928.5	896.4	32.17	28.863			
4,100.0	4,049.8	4,342.9	4,264.4	16.3	17.7	20.84	143.8	1,373.5	887.3	854.3	32.97	26.913			
4,200.0	4,147.9	4,433.8	4,352.6	16.7	18.1	21.33	144.2	1,351.5	846.1	812.4	33.77	25.059			
4,300.0	4,246.1	4,524.6	4,440.8	17.2	18.5	21.87	144.6	1,329.5	805.0	770.5	34.56	23.294			
4,400.0	4,344.3	4,615.5	4,529.0	17.6	19.0	22.46	144.9	1,307.5	764.0	728.6	35.35	21.614			
4,500.0	4,442.4	4,706.4	4,617.2	18.0	19.4	23.12	145.3	1,285.5	723.0	686.9	36.13	20.012			
4,600.0	4,540.6	4,797.3	4,705.3	18.5	19.8	23.86	145.7	1,263.5	682.1	645.2	36.90	18.485			
4,700.0	4,638.8	4,888.2	4,793.5	18.9	20.3	24.69	146.1	1,241.6	641.3	603.7	37.66	17.029			
4,800.0	4,736.9	4,979.1	4,881.7	19.4	20.7	25.64	146.5	1,219.6	600.7	562.3	38.41	15.640			
4,900.0	4,835.1	5,069.9	4,969.9	19.8	21.1	26.72	146.9	1,197.6	560.2	521.1	39.13	14.316			
5,000.0	4,933.2	5,160.8	5,058.1	20.3	21.6	27.96	147.2	1,175.6	519.9	480.1	39.83	13.054			
5,100.0	5,031.4	5,251.7	5,146.3	20.7	22.0	29.41	147.6	1,153.6	479.9	439.4	40.49	11.853			
5,129.1	5,060.0	5,278.2	5,171.9	20.9	22.1	29.88	147.7	1,147.2	468.3	427.6	40.66	11.516			
5,200.0	5,129.6	5,342.8	5,234.6	21.2	22.4	30.94	148.0	1,131.6	440.5	399.4	41.08	10.723			
5,300.0	5,228.2	5,434.5	5,323.6	21.6	22.9	32.59	148.4	1,109.4	402.8	361.1	41.63	9.676			
5,400.0	5,327.0	5,526.9	5,413.3	22.0	23.3	34.46	148.8	1,087.1	366.8	324.7	42.10	8.713			
5,500.0	5,426.1	5,619.9	5,503.5	22.5	23.8	36.58	149.2	1,064.6	332.8	290.3	42.48	7.833			
5,600.0	5,525.4	5,713.6	5,594.4	22.9	24.2	39.01	149.6	1,041.9	300.6	257.8	42.74	7.032			
5,700.0	5,624.9	5,807.8	5,685.8	23.3	24.7	41.80	150.0	1,019.1	270.3	227.5	42.85	6.309			
5,800.0	5,724.5	5,902.6	5,777.8	23.6	25.1	45.03	150.4	996.2	242.1	199.4	42.75	5.663			
5,900.0	5,824.3	5,997.9	5,870.3	24.0	25.6	48.77	150.8	973.1	216.0	173.6	42.39	5.096			
6,000.0	5,924.2	6,093.7	5,963.2	24.3	26.0	53.14	151.2	950.0	192.2	150.5	41.72	4.607			
6,100.0	6,024.1	6,189.9	6,056.6	24.6	26.5	58.24	151.6	926.7	170.8	130.1	40.65	4.200			
6,200.0	6,124.1	6,286.6	6,150.4	24.9	27.0	64.16	152.0	903.3	151.9	112.7	39.16	3.879			
6,229.1	6,153.3	6,314.9	6,177.9	24.9	27.1	138.06	152.1	896.5	146.9	108.3	38.63	3.802			
6,300.0	6,224.1	6,383.6	6,244.6	24.9	27.5	143.27	152.4	879.8	135.6	98.4	37.18	3.646			
6,400.0	6,324.1	6,480.7	6,338.7	25.0	27.9	152.09	152.8	856.4	122.0	87.1	34.84	3.501			
6,500.0	6,424.1	6,577.7	6,432.9	25.0	28.4	162.70	153.2	832.9	112.0	79.3	32.73	3.423			
6,600.0	6,524.1	6,674.7	6,527.0	25.0	28.9	174.76	153.6	809.4	106.7	74.5	32.14	3.320			
6,649.4	6,573.5	6,722.7	6,573.5	25.1	29.1	-179.00	153.8	797.8	106.0	73.2	32.78	3.234 CC			
6,700.0	6,624.1	6,771.8	6,621.2	25.1	29.3	-172.61	154.0	786.0	106.7	72.6	34.08	3.132 ES			
6,800.0	6,724.1	6,868.8	6,715.3	25.1	29.8	-160.56	154.5	762.5	112.1	74.2	37.90	2.958			
6,900.0	6,824.1	6,965.8	6,809.5	25.2	30.3	-149.97	154.9	739.0	122.1	80.0	42.12	2.900 SF			
7,000.0	6,924.1	7,062.8	6,903.6	25.2	30.7	-141.18	155.3	715.5	135.8	90.0	45.80	2.964			
7,100.0	7,024.1	7,159.9	6,997.8	25.2	31.2	-134.07	155.7	692.1	152.1	103.3	48.73	3.121			
7,200.0	7,124.1	7,258.5	7,093.5	25.3	31.7	-128.36	156.1	668.6	169.9	118.9	51.06	3.328			
7,300.0	7,224.1	7,358.5	7,191.0	25.3	32.2	-123.99	156.5	646.4	187.8	134.9	52.88	3.552			
7,400.0	7,324.1	7,459.3	7,289.7	25.3	32.7	-120.63	156.8	625.8	205.0	150.7	54.32	3.775			
7,500.0	7,424.1	7,560.8	7,389.4	25.4	33.1	-118.02	157.2	606.7	221.3	165.8	55.51	3.987			
7,600.0	7,524.1	7,662.9	7,490.1	25.4	33.6	-115.95	157.5	589.4	236.4	179.9	56.52	4.182			
7,700.0	7,624.1	7,765.7	7,591.6	25.5	34.0	-114.31	157.7	573.7	250.1	192.7	57.40	4.357			
7,800.0	7,724.1	7,869.0	7,694.0	25.5	34.5	-113.00	158.0	559.8	262.3	204.2	58.18	4.509			
7,900.0	7,824.1	7,972.8	7,797.0	25.5	34.9	-111.96	158.2	547.7	273.1	214.2	58.87	4.639			
8,000.0	7,924.1	8,076.9	7,900.7	25.6	35.3	-111.15	158.4	537.4	282.2	222.7	59.48	4.744			
8,100.0	8,024.1	8,181.5	8,004.9	25.6	35.7	-110.52	158.5	529.0	289.7	229.6	60.02	4.826			
8,200.0	8,124.1	8,286.3	8,109.5	25.7	36.1	-110.05	158.6	522.5	295.5	235.0	60.50	4.884			
8,300.0	8,224.1	8,391.3	8,214.4	25.7	36.5	-109.74	158.7	517.8	299.6	238.7	60.90	4.919			
8,400.0	8,324.1	8,496.4	8,319.5	25.7	36.8	-109.55	158.8	515.1	302.0	240.8	61.22	4.933			
8,500.0	8,424.1	8,601.1	8,424.1	25.8	36.9	-109.50	158.8	514.4	302.7	241.3	61.34	4.935			
8,600.0	8,524.1	8,701.1	8,524.1	25.8	36.9	-109.50	158.8	514.4	302.7	241.3	61.41	4.929			

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.0	8,624.1	8,801.1	8,624.1	25.9	37.0	-109.50	158.8	514.4	302.7	241.2	61.47	4.924		
8,800.0	8,724.1	8,901.1	8,724.1	25.9	37.0	-109.50	158.8	514.4	302.7	241.1	61.53	4.919		
8,900.0	8,824.1	9,001.1	8,824.1	26.0	37.0	-109.50	158.8	514.4	302.7	241.1	61.59	4.914		
9,000.0	8,924.1	9,101.1	8,924.1	26.0	37.0	-109.50	158.8	514.4	302.7	241.0	61.65	4.910		
9,100.0	9,024.1	9,201.1	9,024.1	26.0	37.0	-109.50	158.8	514.4	302.7	241.0	61.71	4.905		
9,200.0	9,124.1	9,301.1	9,124.1	26.1	37.1	-109.50	158.8	514.4	302.7	240.9	61.77	4.900		
9,300.0	9,224.1	9,401.1	9,224.1	26.1	37.1	-109.50	158.8	514.4	302.7	240.8	61.83	4.895		
9,400.0	9,324.1	9,501.1	9,324.1	26.2	37.1	-109.50	158.8	514.4	302.7	240.8	61.90	4.890		
9,500.0	9,424.1	9,601.1	9,424.1	26.2	37.1	-109.50	158.8	514.4	302.7	240.7	61.96	4.885		
9,600.0	9,524.1	9,701.1	9,524.1	26.2	37.1	-109.50	158.8	514.4	302.7	240.7	62.02	4.880		
9,700.0	9,624.1	9,801.1	9,624.1	26.3	37.2	-109.50	158.8	514.4	302.7	240.6	62.08	4.876		
9,800.0	9,724.1	9,901.1	9,724.1	26.3	37.2	-109.50	158.8	514.4	302.7	240.5	62.14	4.871		
9,900.0	9,824.1	10,001.1	9,824.1	26.4	37.2	-109.50	158.8	514.4	302.7	240.5	62.21	4.866		
10,000.0	9,924.1	10,101.1	9,924.1	26.4	37.2	-109.50	158.8	514.4	302.7	240.4	62.27	4.861		
10,100.0	10,024.1	10,201.1	10,024.1	26.5	37.3	-109.50	158.8	514.4	302.7	240.3	62.34	4.856		
10,200.0	10,124.1	10,301.1	10,124.1	26.5	37.3	-109.50	158.8	514.4	302.7	240.3	62.40	4.851		
10,300.0	10,224.1	10,401.1	10,224.1	26.6	37.3	-109.50	158.8	514.4	302.7	240.2	62.46	4.846		
10,400.0	10,324.1	10,501.1	10,324.1	26.6	37.3	-109.50	158.8	514.4	302.7	240.2	62.53	4.841		
10,500.0	10,424.1	10,601.1	10,424.1	26.6	37.3	-109.50	158.8	514.4	302.7	240.1	62.60	4.836		
10,600.0	10,524.1	10,701.1	10,524.1	26.7	37.4	-109.50	158.8	514.4	302.7	240.0	62.66	4.830		
10,700.0	10,624.1	10,801.1	10,624.1	26.7	37.4	-109.50	158.8	514.4	302.7	240.0	62.73	4.825		
10,800.0	10,724.1	10,901.1	10,724.1	26.8	37.4	-109.50	158.8	514.4	302.7	239.9	62.79	4.820		
10,900.0	10,824.1	11,001.1	10,824.1	26.8	37.4	-109.50	158.8	514.4	302.7	239.8	62.86	4.815		
11,000.0	10,924.1	11,101.1	10,924.1	26.9	37.5	-109.50	158.8	514.4	302.7	239.8	62.93	4.810		
11,100.0	11,024.1	11,201.1	11,024.1	26.9	37.5	-109.50	158.8	514.4	302.7	239.7	62.99	4.805		
11,200.0	11,124.1	11,301.1	11,124.1	27.0	37.5	-109.50	158.8	514.4	302.7	239.6	63.06	4.800		
11,248.4	11,172.5	11,350.0	11,173.0	27.0	37.5	-109.50	158.8	514.4	302.7	239.6	63.07	4.799		
11,250.0	11,174.1	11,352.0	11,175.1	27.0	37.5	69.70	158.8	514.4	302.7	239.6	63.07	4.799		
11,275.0	11,199.1	11,383.4	11,206.4	27.0	37.5	70.17	160.1	514.4	302.1	239.1	63.01	4.794		
11,300.0	11,224.0	11,414.0	11,236.9	26.9	37.5	71.39	163.4	514.3	300.6	237.5	63.03	4.768		
11,325.0	11,248.8	11,443.3	11,265.7	26.9	37.5	73.26	168.4	514.3	298.3	235.1	63.15	4.723		
11,350.0	11,273.4	11,470.8	11,292.5	26.9	37.5	75.67	174.6	514.3	295.4	232.1	63.33	4.665		
11,375.0	11,297.6	11,496.1	11,316.8	26.8	37.5	78.45	181.7	514.2	292.4	228.8	63.57	4.600		
11,400.0	11,321.6	11,519.0	11,338.4	26.8	37.5	81.42	189.3	514.1	289.5	225.7	63.82	4.536		
11,425.0	11,345.1	11,539.4	11,357.3	26.8	37.5	84.40	196.8	514.1	287.0	223.0	64.05	4.482		
11,450.0	11,368.2	11,557.3	11,373.7	26.7	37.5	87.21	204.2	514.0	285.4	221.2	64.20	4.446		
11,470.9	11,387.0	11,570.5	11,385.5	26.7	37.5	89.32	209.9	514.0	285.0	220.7	64.24	4.436		
11,475.0	11,390.7	11,572.9	11,387.7	26.7	37.5	89.71	211.0	514.0	285.0	220.8	64.24	4.436		
11,500.0	11,412.6	11,586.2	11,399.4	26.6	37.5	91.82	217.2	514.0	286.0	221.9	64.13	4.460		
11,525.0	11,433.9	11,597.4	11,409.2	26.6	37.5	93.47	222.7	513.9	288.6	224.8	63.85	4.521		
11,550.0	11,454.5	11,606.7	11,417.2	26.6	37.5	94.61	227.4	513.9	293.1	229.7	63.39	4.624		
11,575.0	11,474.2	11,614.2	11,423.6	26.5	37.5	95.23	231.4	513.9	299.4	236.6	62.76	4.770		
11,600.0	11,493.2	11,620.2	11,428.6	26.5	37.5	95.33	234.6	513.8	307.5	245.5	62.00	4.961		
11,625.0	11,511.3	11,625.0	11,432.7	26.5	37.5	94.97	237.2	513.8	317.5	256.3	61.12	5.194		
11,650.0	11,528.4	11,625.0	11,432.7	26.5	37.5	93.41	237.2	513.8	329.0	268.8	60.26	5.460		
11,675.0	11,544.6	11,630.0	11,436.8	26.4	37.5	92.56	239.9	513.8	342.0	282.8	59.21	5.777		
11,700.0	11,559.7	11,631.0	11,437.7	26.4	37.5	90.66	240.5	513.8	356.4	298.2	58.23	6.121		
11,725.0	11,573.8	11,631.1	11,437.8	26.4	37.5	88.31	240.6	513.8	371.9	314.6	57.26	6.495		
11,750.0	11,586.8	11,630.3	11,437.1	26.4	37.5	85.54	240.1	513.8	388.4	332.0	56.33	6.894		
11,775.0	11,598.7	11,625.0	11,432.7	26.4	37.5	81.65	237.2	513.8	405.6	350.1	55.54	7.304		
11,800.0	11,609.3	11,625.0	11,432.7	26.4	37.5	78.63	237.2	513.8	423.5	368.9	54.65	7.750		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1												Offset Site Error:		0.0 usft			
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-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				
11,825.0	11,618.8	11,625.0	11,432.7	26.4	37.5	75.45	237.2	513.8	441.9	388.1	53.80	8.214					
11,850.0	11,627.1	11,625.0	11,432.7	26.4	37.5	72.16	237.2	513.8	460.7	407.7	52.99	8.694					
11,875.0	11,634.1	11,616.5	11,425.5	26.4	37.5	67.40	232.6	513.8	479.7	427.3	52.41	9.153					
11,900.0	11,639.9	11,612.1	11,421.9	26.4	37.5	63.45	230.3	513.9	498.9	447.1	51.77	9.637					
11,925.0	11,644.3	11,607.4	11,417.8	26.4	37.5	59.59	227.8	513.9	518.1	466.9	51.17	10.125					
11,950.0	11,647.5	11,600.0	11,411.4	26.5	37.5	55.58	224.0	513.9	537.3	486.7	50.65	10.608					
11,975.0	11,649.4	11,600.0	11,411.4	26.5	37.5	52.69	224.0	513.9	556.4	506.4	50.02	11.124					
11,998.4	11,650.0	11,591.3	11,403.9	26.5	37.5	49.21	219.7	513.9	574.1	524.5	49.62	11.570					
12,000.0	11,650.0	11,590.9	11,403.6	26.5	37.5	49.17	219.5	513.9	575.4	525.8	49.59	11.603					
12,100.0	11,650.0	11,575.0	11,389.5	26.7	37.5	47.58	212.0	514.0	653.5	605.7	47.82	13.664					
12,200.0	11,650.0	11,550.0	11,367.0	26.8	37.5	45.19	201.1	514.1	735.6	688.9	46.67	15.762					
12,300.0	11,650.0	11,535.0	11,353.3	27.1	37.5	43.81	195.1	514.1	820.8	775.1	45.69	17.964					
12,400.0	11,650.0	11,525.0	11,344.0	27.3	37.5	42.92	191.4	514.1	908.5	863.6	44.91	20.227					
12,500.0	11,650.0	11,509.6	11,329.6	27.6	37.5	41.60	186.0	514.2	998.0	953.6	44.39	22.480					

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-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		
4,100.0	4,049.8	4,309.8	4,253.2	16.3	17.1	17.36	193.9	1,472.4	981.3	948.7	32.57	30.133			
4,200.0	4,147.9	4,402.1	4,343.5	16.7	17.6	17.62	194.9	1,453.3	943.1	909.7	33.38	28.255			
4,300.0	4,246.1	4,494.4	4,433.8	17.2	18.0	17.89	195.9	1,434.1	904.8	870.6	34.19	26.465			
4,400.0	4,344.3	4,586.7	4,524.1	17.6	18.4	18.19	196.9	1,414.9	866.6	831.6	35.00	24.759			
4,500.0	4,442.4	4,679.0	4,614.4	18.0	18.8	18.51	197.9	1,395.8	828.4	792.6	35.81	23.132			
4,600.0	4,540.6	4,771.3	4,704.7	18.5	19.3	18.87	198.9	1,376.6	790.3	753.6	36.62	21.578			
4,700.0	4,638.8	4,863.6	4,794.9	18.9	19.7	19.26	199.9	1,357.4	752.1	714.7	37.43	20.092			
4,800.0	4,736.9	4,956.0	4,885.2	19.4	20.1	19.69	200.9	1,338.3	714.0	675.8	38.24	18.672			
4,900.0	4,835.1	5,048.3	4,975.5	19.8	20.5	20.17	201.9	1,319.1	676.0	636.9	39.04	17.313			
5,000.0	4,933.2	5,140.6	5,065.8	20.3	21.0	20.71	202.9	1,299.9	637.9	598.1	39.84	16.012			
5,100.0	5,031.4	5,232.9	5,156.1	20.7	21.4	21.32	203.9	1,280.8	600.0	559.4	40.63	14.766			
5,129.1	5,060.0	5,259.8	5,182.4	20.9	21.5	21.51	204.2	1,275.2	588.9	548.1	40.86	14.415			
5,200.0	5,129.6	5,325.4	5,246.6	21.2	21.8	21.88	205.0	1,261.6	562.5	521.1	41.40	13.586			
5,300.0	5,228.2	5,418.5	5,337.6	21.6	22.3	22.43	206.0	1,242.2	526.5	484.3	42.17	12.483			
5,400.0	5,327.0	5,512.2	5,429.3	22.0	22.7	22.99	207.0	1,222.8	492.0	449.1	42.94	11.459			
5,500.0	5,426.1	5,606.4	5,521.5	22.5	23.1	23.58	208.0	1,203.2	459.2	415.5	43.69	10.510			
5,600.0	5,525.4	5,701.3	5,614.3	22.9	23.6	24.18	209.0	1,183.5	427.9	383.5	44.42	9.632			
5,700.0	5,624.9	5,796.6	5,707.5	23.3	24.0	24.78	210.1	1,163.7	398.2	353.1	45.15	8.821			
5,800.0	5,724.5	5,892.5	5,801.3	23.6	24.5	25.39	211.1	1,143.8	370.1	324.3	45.85	8.072			
5,900.0	5,824.3	5,988.8	5,895.5	24.0	24.9	25.99	212.2	1,123.8	343.6	297.0	46.54	7.382			
6,000.0	5,924.2	6,085.5	5,990.2	24.3	25.4	26.57	213.2	1,103.7	318.6	271.4	47.21	6.749			
6,100.0	6,024.1	6,182.7	6,085.2	24.6	25.8	27.11	214.3	1,083.6	295.2	247.3	47.85	6.168			
6,200.0	6,124.1	6,280.2	6,180.6	24.9	26.3	27.60	215.3	1,063.3	273.3	224.8	48.46	5.640			
6,229.1	6,153.3	6,308.7	6,208.4	24.9	26.4	99.73	215.7	1,057.4	267.2	218.6	48.61	5.498			
6,300.0	6,224.1	6,376.6	6,274.9	24.9	26.7	100.11	216.4	1,043.4	252.7	203.7	48.94	5.163			
6,400.0	6,324.1	6,470.8	6,367.2	25.0	27.2	100.67	217.3	1,025.1	233.4	183.9	49.47	4.719			
6,500.0	6,424.1	6,565.5	6,460.4	25.0	27.6	101.28	218.2	1,008.2	215.8	165.8	49.96	4.318			
6,600.0	6,524.1	6,660.8	6,554.4	25.0	28.0	101.92	219.0	992.8	199.7	149.3	50.43	3.961			
6,700.0	6,624.1	6,756.5	6,649.2	25.1	28.4	102.60	219.8	978.9	185.4	134.5	50.86	3.645			
6,800.0	6,724.1	6,852.7	6,744.6	25.1	28.8	103.29	220.4	966.6	172.7	121.4	51.26	3.369			
6,900.0	6,824.1	6,949.3	6,840.6	25.2	29.2	103.98	221.0	955.8	161.7	110.0	51.64	3.131			
7,000.0	6,924.1	7,046.3	6,937.1	25.2	29.6	104.64	221.5	946.5	152.3	100.4	51.98	2.931			
7,100.0	7,024.1	7,143.5	7,034.0	25.2	30.0	105.25	221.9	938.9	144.7	92.4	52.30	2.766			
7,200.0	7,124.1	7,241.0	7,131.3	25.3	30.3	105.78	222.2	932.9	138.7	86.1	52.59	2.637			
7,300.0	7,224.1	7,338.6	7,228.8	25.3	30.7	106.19	222.4	928.6	134.3	81.5	52.87	2.541			
7,400.0	7,324.1	7,436.3	7,326.5	25.3	30.9	106.45	222.5	925.9	131.7	78.5	53.13	2.478			
7,500.0	7,424.1	7,534.2	7,424.4	25.4	31.1	106.56	222.6	924.9	130.7	77.3	53.32	2.450			
7,537.3	7,461.4	7,571.2	7,461.4	25.4	31.2	106.56	222.6	924.9	130.7	77.3	53.35	2.449			
7,600.0	7,524.1	7,633.9	7,524.1	25.4	31.2	106.56	222.6	924.9	130.7	77.3	53.38	2.447			
7,700.0	7,624.1	7,733.9	7,624.1	25.5	31.2	106.56	222.6	924.9	130.7	77.2	53.45	2.444			
7,800.0	7,724.1	7,833.9	7,724.1	25.5	31.2	106.56	222.6	924.9	130.7	77.1	53.51	2.441			
7,900.0	7,824.1	7,933.9	7,824.1	25.5	31.2	106.56	222.6	924.9	130.7	77.1	53.58	2.438			
8,000.0	7,924.1	8,033.9	7,924.1	25.6	31.3	106.56	222.6	924.9	130.7	77.0	53.64	2.435			
8,100.0	8,024.1	8,133.9	8,024.1	25.6	31.3	106.56	222.6	924.9	130.7	76.9	53.71	2.432			
8,200.0	8,124.1	8,233.9	8,124.1	25.7	31.3	106.56	222.6	924.9	130.7	76.9	53.78	2.429			
8,300.0	8,224.1	8,333.9	8,224.1	25.7	31.3	106.56	222.6	924.9	130.7	76.8	53.85	2.426			
8,400.0	8,324.1	8,433.9	8,324.1	25.7	31.4	106.56	222.6	924.9	130.7	76.7	53.91	2.423			
8,500.0	8,424.1	8,533.9	8,424.1	25.8	31.4	106.56	222.6	924.9	130.7	76.7	53.98	2.420			
8,600.0	8,524.1	8,633.9	8,524.1	25.8	31.4	106.56	222.6	924.9	130.7	76.6	54.05	2.417			
8,700.0	8,624.1	8,733.9	8,624.1	25.9	31.4	106.56	222.6	924.9	130.7	76.5	54.12	2.414			
8,800.0	8,724.1	8,833.9	8,724.1	25.9	31.5	106.56	222.6	924.9	130.7	76.5	54.19	2.411			

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-r.5 MWD+IFR1+MS				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
8,900.0	8,824.1	8,933.9	8,824.1	26.0	31.5	106.56	222.6	924.9	130.7	76.4	54.26	2.408			
9,000.0	8,924.1	9,033.9	8,924.1	26.0	31.5	106.56	222.6	924.9	130.7	76.3	54.33	2.405			
9,100.0	9,024.1	9,133.9	9,024.1	26.0	31.6	106.56	222.6	924.9	130.7	76.3	54.40	2.402			
9,200.0	9,124.1	9,233.9	9,124.1	26.1	31.6	106.56	222.6	924.9	130.7	76.2	54.47	2.399			
9,300.0	9,224.1	9,333.9	9,224.1	26.1	31.6	106.56	222.6	924.9	130.7	76.1	54.54	2.396			
9,400.0	9,324.1	9,433.9	9,324.1	26.2	31.6	106.56	222.6	924.9	130.7	76.0	54.61	2.392			
9,500.0	9,424.1	9,533.9	9,424.1	26.2	31.7	106.56	222.6	924.9	130.7	76.0	54.68	2.389			
9,600.0	9,524.1	9,633.9	9,524.1	26.2	31.7	106.56	222.6	924.9	130.7	75.9	54.75	2.386			
9,700.0	9,624.1	9,733.9	9,624.1	26.3	31.7	106.56	222.6	924.9	130.7	75.8	54.83	2.383			
9,800.0	9,724.1	9,833.9	9,724.1	26.3	31.7	106.56	222.6	924.9	130.7	75.8	54.90	2.380			
9,900.0	9,824.1	9,933.9	9,824.1	26.4	31.8	106.56	222.6	924.9	130.7	75.7	54.97	2.377			
10,000.0	9,924.1	10,033.9	9,924.1	26.4	31.8	106.56	222.6	924.9	130.7	75.6	55.05	2.373			
10,100.0	10,024.1	10,133.9	10,024.1	26.5	31.8	106.56	222.6	924.9	130.7	75.5	55.12	2.370			
10,200.0	10,124.1	10,233.9	10,124.1	26.5	31.9	106.56	222.6	924.9	130.7	75.5	55.20	2.367			
10,300.0	10,224.1	10,333.9	10,224.1	26.6	31.9	106.56	222.6	924.9	130.7	75.4	55.27	2.364			
10,400.0	10,324.1	10,433.9	10,324.1	26.6	31.9	106.56	222.6	924.9	130.7	75.3	55.35	2.361			
10,500.0	10,424.1	10,533.9	10,424.1	26.6	32.0	106.56	222.6	924.9	130.7	75.2	55.42	2.357			
10,600.0	10,524.1	10,633.9	10,524.1	26.7	32.0	106.56	222.6	924.9	130.7	75.2	55.50	2.354			
10,700.0	10,624.1	10,733.9	10,624.1	26.7	32.0	106.56	222.6	924.9	130.7	75.1	55.57	2.351			
10,800.0	10,724.1	10,833.9	10,724.1	26.8	32.0	106.56	222.6	924.9	130.7	75.0	55.65	2.348			
10,900.0	10,824.1	10,933.9	10,824.1	26.8	32.1	106.56	222.6	924.9	130.7	74.9	55.73	2.344			
11,000.0	10,924.1	11,033.9	10,924.1	26.9	32.1	106.56	222.6	924.9	130.7	74.8	55.81	2.341			
11,100.0	11,024.1	11,133.9	11,024.1	26.9	32.1	106.56	222.6	924.9	130.7	74.8	55.88	2.338			
11,200.0	11,124.1	11,233.9	11,124.1	27.0	32.2	106.56	222.6	924.9	130.7	74.7	55.96	2.335			
11,248.4	11,172.5	11,282.3	11,172.5	27.0	32.2	106.56	222.6	924.9	130.7	74.7	55.99	2.333			
11,250.0	11,174.1	11,283.9	11,174.1	27.0	32.2	-74.24	222.6	924.9	130.6	74.7	55.99	2.333			
11,275.0	11,199.1	11,308.9	11,199.1	27.0	32.2	-74.58	222.6	924.9	130.5	74.4	56.08	2.326			
11,300.0	11,224.0	11,333.8	11,224.0	26.9	32.2	-75.51	222.6	924.9	129.9	73.6	56.29	2.308			
11,325.0	11,248.8	11,358.6	11,248.8	26.9	32.2	-77.03	222.6	924.9	129.1	72.5	56.59	2.282			
11,350.0	11,273.4	11,383.2	11,273.4	26.9	32.2	-79.13	222.6	924.9	128.1	71.2	56.97	2.249			
11,375.0	11,297.6	11,407.5	11,297.6	26.8	32.2	-81.79	222.6	924.9	127.1	69.7	57.39	2.215			
11,400.0	11,321.6	11,431.4	11,321.6	26.8	32.2	-84.99	222.6	924.9	126.3	68.5	57.81	2.184			
11,425.0	11,345.1	11,454.9	11,345.1	26.8	32.2	-88.65	222.6	924.9	125.8	67.6	58.15	2.163			
11,433.7	11,353.3	11,463.1	11,353.3	26.7	32.2	-90.06	222.7	924.9	125.7	67.5	58.24	2.159 CC, ES			
11,450.0	11,368.2	11,477.8	11,368.0	26.7	32.2	-92.86	223.1	924.9	125.9	67.6	58.33	2.159 SF			
11,475.0	11,390.7	11,499.1	11,389.2	26.7	32.2	-97.46	224.6	924.9	127.2	69.0	58.22	2.184			
11,500.0	11,412.6	11,518.5	11,408.5	26.6	32.2	-102.07	226.8	924.9	130.1	72.4	57.68	2.256			
11,525.0	11,433.9	11,536.1	11,425.9	26.6	32.2	-106.35	229.4	924.9	135.1	78.5	56.65	2.385			
11,550.0	11,454.5	11,551.9	11,441.4	26.6	32.2	-110.07	232.3	924.8	142.6	87.4	55.22	2.582			
11,575.0	11,474.2	11,565.7	11,454.9	26.5	32.2	-113.06	235.3	924.8	152.6	99.1	53.53	2.850			
11,600.0	11,493.2	11,577.8	11,466.7	26.5	32.2	-115.24	238.2	924.8	165.0	113.2	51.77	3.187			
11,625.0	11,511.3	11,588.2	11,476.7	26.5	32.2	-116.58	241.0	924.8	179.6	129.5	50.08	3.586			
11,650.0	11,528.4	11,596.9	11,485.1	26.5	32.2	-117.07	243.4	924.8	196.1	147.6	48.57	4.039			
11,675.0	11,544.6	11,604.2	11,492.0	26.4	32.2	-116.67	245.6	924.7	214.3	167.1	47.26	4.535			
11,700.0	11,559.7	11,610.1	11,497.6	26.4	32.2	-115.35	247.5	924.7	233.9	187.7	46.17	5.066			
11,725.0	11,573.8	11,614.8	11,502.0	26.4	32.2	-113.04	249.0	924.7	254.5	209.3	45.26	5.623			
11,750.0	11,586.8	11,618.3	11,505.3	26.4	32.2	-109.65	250.1	924.7	276.1	231.5	44.52	6.200			
11,775.0	11,598.7	11,625.0	11,511.6	26.4	32.2	-106.89	252.4	924.7	298.3	254.5	43.81	6.810			
11,800.0	11,609.3	11,625.0	11,511.6	26.4	32.2	-100.53	252.4	924.7	321.1	277.7	43.34	7.408			
11,825.0	11,618.8	11,625.0	11,511.6	26.4	32.2	-93.27	252.4	924.7	344.2	301.3	42.94	8.016			
11,850.0	11,627.1	11,625.0	11,511.6	26.4	32.2	-85.29	252.4	924.7	367.6	325.0	42.59	8.632			

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:		ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
11,875.0	11,634.1	11,625.0	11,511.6	26.4	32.2	-76.94	252.4	924.7	391.2	348.9	42.26	9.256				
11,900.0	11,639.9	11,625.0	11,511.6	26.4	32.2	-68.62	252.4	924.7	414.8	372.8	41.97	9.884				
11,925.0	11,644.3	11,617.9	11,504.9	26.4	32.2	-58.37	250.0	924.7	438.3	396.5	41.84	10.476				
11,950.0	11,647.5	11,615.1	11,502.4	26.5	32.2	-50.85	249.1	924.7	461.8	420.2	41.63	11.093				
11,975.0	11,649.4	11,611.9	11,499.3	26.5	32.2	-44.32	248.0	924.7	485.2	443.7	41.44	11.708				
11,998.4	11,650.0	11,608.4	11,496.0	26.5	32.2	-39.13	246.9	924.7	506.8	465.5	41.27	12.280				
12,000.0	11,650.0	11,608.2	11,495.8	26.5	32.2	-39.08	246.9	924.7	508.3	467.0	41.26	12.320				
12,100.0	11,650.0	11,600.0	11,488.0	26.7	32.2	-37.72	244.3	924.8	601.3	560.7	40.59	14.814				
12,200.0	11,650.0	11,575.0	11,463.9	26.8	32.2	-33.99	237.5	924.8	695.7	655.3	40.41	17.216				
12,300.0	11,650.0	11,575.0	11,463.9	27.1	32.2	-33.99	237.5	924.8	791.0	751.0	39.97	19.788				
12,400.0	11,650.0	11,563.7	11,453.0	27.3	32.2	-32.50	234.8	924.8	887.1	847.3	39.80	22.290				
12,500.0	11,650.0	11,550.0	11,439.6	27.6	32.2	-30.82	231.9	924.8	983.9	944.2	39.71	24.776				

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,700.0	4,638.8	4,802.4	4,775.0	18.9	18.2	16.81	234.8	1,597.8	986.1	950.0	36.10	27.314	
4,800.0	4,736.9	4,897.2	4,868.9	19.4	18.6	17.04	236.0	1,584.7	954.4	917.5	36.90	25.864	
4,900.0	4,835.1	4,992.0	4,962.7	19.8	19.0	17.29	237.1	1,571.5	922.7	885.0	37.70	24.475	
5,000.0	4,933.2	5,086.7	5,056.5	20.3	19.4	17.56	238.3	1,558.4	891.0	852.5	38.50	23.145	
5,100.0	5,031.4	5,181.5	5,150.4	20.7	19.8	17.84	239.4	1,545.3	859.4	820.1	39.30	21.869	
5,129.1	5,060.0	5,209.1	5,177.7	20.9	19.9	17.93	239.8	1,541.4	850.1	810.6	39.52	21.512	
5,200.0	5,129.6	5,276.4	5,244.4	21.2	20.2	18.07	240.6	1,532.1	828.1	788.0	40.08	20.664	
5,300.0	5,228.2	5,371.8	5,338.8	21.6	20.6	18.26	241.7	1,518.9	798.4	757.5	40.87	19.537	
5,400.0	5,327.0	5,467.7	5,433.8	22.0	21.0	18.43	242.9	1,505.6	770.3	728.6	41.65	18.494	
5,500.0	5,426.1	5,564.1	5,529.2	22.5	21.4	18.58	244.1	1,492.2	743.8	701.4	42.43	17.530	
5,600.0	5,525.4	5,660.9	5,625.1	22.9	21.8	18.70	245.3	1,478.8	718.9	675.7	43.20	16.640	
5,700.0	5,624.9	5,758.1	5,721.4	23.3	22.2	18.80	246.4	1,465.3	695.6	651.6	43.96	15.822	
5,800.0	5,724.5	5,855.7	5,818.1	23.6	22.7	18.87	247.6	1,451.8	673.9	629.2	44.72	15.071	
5,900.0	5,824.3	5,953.7	5,915.1	24.0	23.1	18.90	248.8	1,438.2	653.9	608.4	45.46	14.384	
6,000.0	5,924.2	6,052.0	6,012.4	24.3	23.5	18.88	250.0	1,424.6	635.5	589.3	46.18	13.759	
6,100.0	6,024.1	6,149.5	6,108.9	24.6	23.9	18.83	251.2	1,411.1	618.7	571.8	46.88	13.196	
6,200.0	6,124.1	6,238.9	6,197.6	24.9	24.3	18.74	252.2	1,399.5	604.4	556.9	47.57	12.706	
6,229.1	6,153.3	6,265.1	6,223.6	24.9	24.4	90.71	252.5	1,396.4	600.9	553.2	47.73	12.588	
6,300.0	6,224.1	6,328.9	6,287.0	24.9	24.6	90.66	253.1	1,389.3	593.0	544.9	48.08	12.334	
6,400.0	6,324.1	6,419.2	6,376.8	25.0	25.0	90.59	253.9	1,380.4	583.2	534.6	48.55	12.011	
6,500.0	6,424.1	6,509.7	6,467.1	25.0	25.3	90.53	254.5	1,372.9	574.9	525.9	49.00	11.732	
6,600.0	6,524.1	6,600.0	6,557.2	25.0	25.7	90.48	255.0	1,366.9	568.2	518.8	49.43	11.495	
6,700.0	6,624.1	6,691.4	6,648.4	25.1	26.0	90.45	255.5	1,362.2	563.1	513.3	49.82	11.302	
6,800.0	6,724.1	6,782.4	6,739.4	25.1	26.3	90.42	255.7	1,359.0	559.6	509.4	50.18	11.151	
6,900.0	6,824.1	6,873.5	6,830.5	25.2	26.5	90.41	255.9	1,357.3	557.6	507.2	50.49	11.046	
7,000.0	6,924.1	6,967.1	6,924.1	25.2	26.6	90.40	255.9	1,356.9	557.2	506.6	50.65	11.003	
7,100.0	7,024.1	7,067.1	7,024.1	25.2	26.6	90.40	255.9	1,356.9	557.2	506.5	50.71	10.989	
7,200.0	7,124.1	7,167.1	7,124.1	25.3	26.7	90.40	255.9	1,356.9	557.2	506.5	50.77	10.975	
7,300.0	7,224.1	7,267.1	7,224.1	25.3	26.7	90.40	255.9	1,356.9	557.2	506.4	50.84	10.960	
7,400.0	7,324.1	7,367.1	7,324.1	25.3	26.7	90.40	255.9	1,356.9	557.2	506.3	50.91	10.945	
7,500.0	7,424.1	7,467.1	7,424.1	25.4	26.8	90.40	255.9	1,356.9	557.2	506.3	50.98	10.931	
7,600.0	7,524.1	7,567.1	7,524.1	25.4	26.8	90.40	255.9	1,356.9	557.2	506.2	51.05	10.916	
7,700.0	7,624.1	7,667.1	7,624.1	25.5	26.8	90.40	255.9	1,356.9	557.2	506.1	51.12	10.901	
7,800.0	7,724.1	7,767.1	7,724.1	25.5	26.9	90.40	255.9	1,356.9	557.2	506.0	51.19	10.886	
7,900.0	7,824.1	7,867.1	7,824.1	25.5	26.9	90.40	255.9	1,356.9	557.2	506.0	51.26	10.872	
8,000.0	7,924.1	7,967.1	7,924.1	25.6	26.9	90.40	255.9	1,356.9	557.2	505.9	51.33	10.857	
8,100.0	8,024.1	8,067.1	8,024.1	25.6	26.9	90.40	255.9	1,356.9	557.2	505.8	51.40	10.842	
8,200.0	8,124.1	8,167.1	8,124.1	25.7	27.0	90.40	255.9	1,356.9	557.2	505.8	51.47	10.827	
8,300.0	8,224.1	8,267.1	8,224.1	25.7	27.0	90.40	255.9	1,356.9	557.2	505.7	51.54	10.812	
8,400.0	8,324.1	8,367.1	8,324.1	25.7	27.0	90.40	255.9	1,356.9	557.2	505.6	51.61	10.797	
8,500.0	8,424.1	8,467.1	8,424.1	25.8	27.1	90.40	255.9	1,356.9	557.2	505.5	51.68	10.781	
8,600.0	8,524.1	8,567.1	8,524.1	25.8	27.1	90.40	255.9	1,356.9	557.2	505.5	51.76	10.766	
8,700.0	8,624.1	8,667.1	8,624.1	25.9	27.1	90.40	255.9	1,356.9	557.2	505.4	51.83	10.751	
8,800.0	8,724.1	8,767.1	8,724.1	25.9	27.2	90.40	255.9	1,356.9	557.2	505.3	51.90	10.736	
8,900.0	8,824.1	8,867.1	8,824.1	26.0	27.2	90.40	255.9	1,356.9	557.2	505.3	51.98	10.721	
9,000.0	8,924.1	8,967.1	8,924.1	26.0	27.2	90.40	255.9	1,356.9	557.2	505.2	52.05	10.705	
9,100.0	9,024.1	9,067.1	9,024.1	26.0	27.3	90.40	255.9	1,356.9	557.2	505.1	52.13	10.690	
9,200.0	9,124.1	9,167.1	9,124.1	26.1	27.3	90.40	255.9	1,356.9	557.2	505.0	52.20	10.674	
9,300.0	9,224.1	9,267.1	9,224.1	26.1	27.3	90.40	255.9	1,356.9	557.2	505.0	52.28	10.659	
9,400.0	9,324.1	9,367.1	9,324.1	26.2	27.4	90.40	255.9	1,356.9	557.2	504.9	52.35	10.643	
9,500.0	9,424.1	9,467.1	9,424.1	26.2	27.4	90.40	255.9	1,356.9	557.2	504.8	52.43	10.628	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-r.5 MWD+IFR1+MS												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)		
9,600.0	9,524.1	9,567.1	9,524.1	26.2	27.5	90.40	255.9	1,356.9	557.2	504.7	52.51	10.612	
9,700.0	9,624.1	9,667.1	9,624.1	26.3	27.5	90.40	255.9	1,356.9	557.2	504.6	52.58	10.597	
9,800.0	9,724.1	9,767.1	9,724.1	26.3	27.5	90.40	255.9	1,356.9	557.2	504.6	52.66	10.581	
9,900.0	9,824.1	9,867.1	9,824.1	26.4	27.6	90.40	255.9	1,356.9	557.2	504.5	52.74	10.566	
10,000.0	9,924.1	9,967.1	9,924.1	26.4	27.6	90.40	255.9	1,356.9	557.2	504.4	52.82	10.550	
10,100.0	10,024.1	10,067.1	10,024.1	26.5	27.6	90.40	255.9	1,356.9	557.2	504.3	52.90	10.534	
10,200.0	10,124.1	10,167.1	10,124.1	26.5	27.7	90.40	255.9	1,356.9	557.2	504.3	52.98	10.519	
10,300.0	10,224.1	10,267.1	10,224.1	26.6	27.7	90.40	255.9	1,356.9	557.2	504.2	53.06	10.503	
10,400.0	10,324.1	10,367.1	10,324.1	26.6	27.7	90.40	255.9	1,356.9	557.2	504.1	53.14	10.487	
10,500.0	10,424.1	10,467.1	10,424.1	26.6	27.8	90.40	255.9	1,356.9	557.2	504.0	53.22	10.471	
10,600.0	10,524.1	10,567.1	10,524.1	26.7	27.8	90.40	255.9	1,356.9	557.2	503.9	53.30	10.455	
10,700.0	10,624.1	10,667.1	10,624.1	26.7	27.8	90.40	255.9	1,356.9	557.2	503.9	53.38	10.439	
10,800.0	10,724.1	10,767.1	10,724.1	26.8	27.9	90.40	255.9	1,356.9	557.2	503.8	53.46	10.424	
10,900.0	10,824.1	10,867.1	10,824.1	26.8	27.9	90.40	255.9	1,356.9	557.2	503.7	53.54	10.408	
11,000.0	10,924.1	10,967.1	10,924.1	26.9	28.0	90.40	255.9	1,356.9	557.2	503.6	53.62	10.392	
11,100.0	11,024.1	11,067.1	11,024.1	26.9	28.0	90.40	255.9	1,356.9	557.2	503.5	53.70	10.376	
11,200.0	11,124.1	11,167.1	11,124.1	27.0	28.0	90.40	255.9	1,356.9	557.2	503.4	53.79	10.360	
11,248.4	11,172.5	11,215.6	11,172.5	27.0	28.0	90.40	255.9	1,356.9	557.2	503.4	53.82	10.355	
11,250.0	11,174.1	11,217.2	11,174.2	27.0	28.0	-90.40	255.9	1,356.9	557.2	503.4	53.82	10.354	
11,275.0	11,199.1	11,242.6	11,199.6	27.0	28.1	-90.57	256.8	1,356.9	557.2	503.4	53.83	10.352	
11,283.6	11,207.7	11,251.2	11,208.2	26.9	28.1	-90.69	257.4	1,356.9	557.2	503.4	53.83	10.351 CC	
11,300.0	11,224.0	11,267.5	11,224.4	26.9	28.1	-91.00	259.0	1,356.9	557.2	503.4	53.85	10.349 ES	
11,325.0	11,248.8	11,291.6	11,248.2	26.9	28.1	-91.65	262.3	1,356.8	557.3	503.4	53.87	10.346 SF	
11,350.0	11,273.4	11,314.5	11,270.7	26.9	28.1	-92.48	266.5	1,356.8	557.6	503.7	53.89	10.346	
11,375.0	11,297.6	11,335.9	11,291.5	26.8	28.1	-93.42	271.5	1,356.8	558.1	504.2	53.90	10.353	
11,400.0	11,321.6	11,355.7	11,310.6	26.8	28.1	-94.40	276.9	1,356.7	559.0	505.1	53.90	10.371	
11,425.0	11,345.1	11,373.7	11,327.7	26.8	28.1	-95.36	282.5	1,356.7	560.4	506.5	53.87	10.403	
11,450.0	11,368.2	11,390.0	11,343.0	26.7	28.1	-96.24	288.1	1,356.6	562.5	508.7	53.82	10.452	
11,475.0	11,390.7	11,404.4	11,356.3	26.7	28.1	-96.98	293.5	1,356.6	565.3	511.6	53.73	10.522	
11,500.0	11,412.6	11,417.0	11,367.9	26.6	28.1	-97.55	298.6	1,356.5	569.0	515.4	53.61	10.615	
11,525.0	11,433.9	11,428.0	11,377.9	26.6	28.1	-97.92	303.3	1,356.5	573.7	520.2	53.45	10.733	
11,550.0	11,454.5	11,437.4	11,386.3	26.6	28.1	-98.06	307.4	1,356.4	579.3	526.0	53.26	10.877	
11,575.0	11,474.2	11,445.3	11,393.3	26.5	28.1	-97.97	311.1	1,356.4	585.9	532.9	53.04	11.048	
11,600.0	11,493.2	11,450.0	11,397.4	26.5	28.1	-97.45	313.3	1,356.4	593.6	540.8	52.79	11.244	
11,625.0	11,511.3	11,457.0	11,403.5	26.5	28.1	-97.02	316.6	1,356.3	602.3	549.8	52.51	11.470	
11,650.0	11,528.4	11,461.0	11,407.0	26.5	28.1	-96.16	318.6	1,356.3	612.0	559.8	52.22	11.720	
11,675.0	11,544.6	11,463.9	11,409.6	26.4	28.1	-95.05	320.1	1,356.3	622.7	570.8	51.91	11.995	
11,700.0	11,559.7	11,465.9	11,411.3	26.4	28.1	-93.70	321.1	1,356.3	634.2	582.6	51.59	12.293	
11,725.0	11,573.8	11,466.9	11,412.2	26.4	28.1	-92.10	321.6	1,356.3	646.6	595.3	51.27	12.612	
11,750.0	11,586.8	11,467.2	11,412.4	26.4	28.1	-90.27	321.7	1,356.3	659.7	608.7	50.94	12.951	
11,775.0	11,598.7	11,466.7	11,411.9	26.4	28.1	-88.23	321.4	1,356.3	673.5	622.9	50.61	13.308	
11,800.0	11,609.3	11,465.4	11,410.9	26.4	28.1	-86.00	320.8	1,356.3	687.9	637.6	50.28	13.680	
11,825.0	11,618.8	11,463.6	11,409.3	26.4	28.1	-83.59	319.9	1,356.3	702.8	652.8	49.96	14.066	
11,850.0	11,627.1	11,461.2	11,407.2	26.4	28.1	-81.04	318.7	1,356.3	718.1	668.5	49.65	14.464	
11,875.0	11,634.1	11,458.3	11,404.7	26.4	28.1	-78.38	317.3	1,356.3	733.8	684.5	49.34	14.873	
11,900.0	11,639.9	11,450.0	11,397.4	26.4	28.1	-75.18	313.3	1,356.4	749.8	700.7	49.10	15.273	
11,925.0	11,644.3	11,450.0	11,397.4	26.4	28.1	-72.74	313.3	1,356.4	766.0	717.2	48.76	15.709	
11,950.0	11,647.5	11,450.0	11,397.4	26.5	28.1	-70.29	313.3	1,356.4	782.3	733.9	48.43	16.154	
11,975.0	11,649.4	11,442.2	11,390.5	26.5	28.1	-67.22	309.6	1,356.4	798.7	750.5	48.19	16.573	
11,998.4	11,650.0	11,437.6	11,386.4	26.5	28.1	-64.64	307.5	1,356.4	814.0	766.1	47.94	16.978	
12,000.0	11,650.0	11,437.2	11,386.1	26.5	28.1	-64.61	307.4	1,356.4	815.1	767.2	47.93	17.007	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-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	
12,100.0	11,650.0	11,425.0	11,375.1	26.7	28.1	-63.70	302.0	1,356.5	883.5	836.6	46.86	18.853	
12,200.0	11,650.0	11,400.0	11,352.3	26.8	28.1	-61.85	291.9	1,356.6	956.6	910.5	46.08	20.758	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11357-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
5,500.0	5,426.1	5,436.8	5,426.1	22.5	17.2	17.05	264.2	1,746.5	991.0	951.9	39.10	25.346
5,600.0	5,525.4	5,536.1	5,525.4	22.9	17.3	17.22	264.2	1,746.5	979.7	940.2	39.56	24.767
5,700.0	5,624.9	5,635.6	5,624.9	23.3	17.3	17.37	264.2	1,746.5	970.1	930.1	40.00	24.250
5,800.0	5,724.5	5,735.2	5,724.5	23.6	17.4	17.49	264.2	1,746.5	962.1	921.7	40.44	23.794
5,900.0	5,824.3	5,835.0	5,824.3	24.0	17.4	17.59	264.2	1,746.5	955.8	915.0	40.85	23.399
6,000.0	5,924.2	5,934.9	5,924.2	24.3	17.5	17.67	264.2	1,746.5	951.2	909.9	41.24	23.064
6,100.0	6,024.1	6,034.8	6,024.1	24.6	17.5	17.71	264.2	1,746.5	948.2	906.6	41.60	22.792
6,200.0	6,124.1	6,134.8	6,124.1	24.9	17.6	17.74	264.2	1,746.5	946.9	905.0	41.90	22.596
6,229.1	6,153.3	6,163.9	6,153.3	24.9	17.6	89.74	264.2	1,746.5	946.8	904.9	41.95	22.571
6,300.0	6,224.1	6,234.8	6,224.1	24.9	17.6	89.74	264.2	1,746.5	946.8	904.8	42.00	22.545
6,400.0	6,324.1	6,334.8	6,324.1	25.0	17.7	89.74	264.2	1,746.5	946.8	904.7	42.08	22.501
6,500.0	6,424.1	6,434.8	6,424.1	25.0	17.7	89.74	264.2	1,746.5	946.8	904.6	42.16	22.456
6,600.0	6,524.1	6,534.8	6,524.1	25.0	17.8	89.74	264.2	1,746.5	946.8	904.6	42.25	22.412
6,700.0	6,624.1	6,634.8	6,624.1	25.1	17.8	89.74	264.2	1,746.5	946.8	904.5	42.33	22.368
6,800.0	6,724.1	6,734.8	6,724.1	25.1	17.9	89.74	264.2	1,746.5	946.8	904.4	42.41	22.323
6,900.0	6,824.1	6,834.8	6,824.1	25.2	17.9	89.74	264.2	1,746.5	946.8	904.3	42.50	22.279
7,000.0	6,924.1	6,934.8	6,924.1	25.2	18.0	89.74	264.2	1,746.5	946.8	904.2	42.58	22.234
7,100.0	7,024.1	7,034.8	7,024.1	25.2	18.0	89.74	264.2	1,746.5	946.8	904.1	42.67	22.190
7,200.0	7,124.1	7,134.8	7,124.1	25.3	18.1	89.74	264.2	1,746.5	946.8	904.1	42.75	22.145
7,300.0	7,224.1	7,234.8	7,224.1	25.3	18.1	89.74	264.2	1,746.5	946.8	904.0	42.84	22.101
7,400.0	7,324.1	7,334.8	7,324.1	25.3	18.2	89.74	264.2	1,746.5	946.8	903.9	42.93	22.056
7,500.0	7,424.1	7,434.8	7,424.1	25.4	18.2	89.74	264.2	1,746.5	946.8	903.8	43.01	22.011
7,600.0	7,524.1	7,534.8	7,524.1	25.4	18.3	89.74	264.2	1,746.5	946.8	903.7	43.10	21.966
7,700.0	7,624.1	7,634.8	7,624.1	25.5	18.3	89.74	264.2	1,746.5	946.8	903.6	43.19	21.922
7,800.0	7,724.1	7,734.8	7,724.1	25.5	18.4	89.74	264.2	1,746.5	946.8	903.5	43.28	21.877
7,900.0	7,824.1	7,834.8	7,824.1	25.5	18.4	89.74	264.2	1,746.5	946.8	903.4	43.37	21.832
8,000.0	7,924.1	7,934.8	7,924.1	25.6	18.5	89.74	264.2	1,746.5	946.8	903.4	43.46	21.787
8,100.0	8,024.1	8,034.8	8,024.1	25.6	18.5	89.74	264.2	1,746.5	946.8	903.3	43.55	21.742
8,200.0	8,124.1	8,134.8	8,124.1	25.7	18.6	89.74	264.2	1,746.5	946.8	903.2	43.64	21.697
8,300.0	8,224.1	8,234.8	8,224.1	25.7	18.6	89.74	264.2	1,746.5	946.8	903.1	43.73	21.652
8,400.0	8,324.1	8,334.8	8,324.1	25.7	18.7	89.74	264.2	1,746.5	946.8	903.0	43.82	21.607
8,500.0	8,424.1	8,434.8	8,424.1	25.8	18.7	89.74	264.2	1,746.5	946.8	902.9	43.91	21.562
8,600.0	8,524.1	8,534.8	8,524.1	25.8	18.8	89.74	264.2	1,746.5	946.8	902.8	44.00	21.517
8,700.0	8,624.1	8,634.8	8,624.1	25.9	18.8	89.74	264.2	1,746.5	946.8	902.7	44.10	21.472
8,800.0	8,724.1	8,734.8	8,724.1	25.9	18.9	89.74	264.2	1,746.5	946.8	902.6	44.19	21.427
8,900.0	8,824.1	8,834.8	8,824.1	26.0	19.0	89.74	264.2	1,746.5	946.8	902.5	44.28	21.382
9,000.0	8,924.1	8,934.8	8,924.1	26.0	19.0	89.74	264.2	1,746.5	946.8	902.4	44.37	21.337
9,100.0	9,024.1	9,034.8	9,024.1	26.0	19.1	89.74	264.2	1,746.5	946.8	902.3	44.47	21.292
9,200.0	9,124.1	9,134.8	9,124.1	26.1	19.1	89.74	264.2	1,746.5	946.8	902.2	44.56	21.247
9,300.0	9,224.1	9,234.8	9,224.1	26.1	19.2	89.74	264.2	1,746.5	946.8	902.2	44.66	21.202
9,400.0	9,324.1	9,334.8	9,324.1	26.2	19.2	89.74	264.2	1,746.5	946.8	902.1	44.75	21.157
9,500.0	9,424.1	9,434.8	9,424.1	26.2	19.3	89.74	264.2	1,746.5	946.8	902.0	44.85	21.112
9,600.0	9,524.1	9,534.8	9,524.1	26.2	19.3	89.74	264.2	1,746.5	946.8	901.9	44.94	21.067
9,700.0	9,624.1	9,634.8	9,624.1	26.3	19.4	89.74	264.2	1,746.5	946.8	901.8	45.04	21.022
9,800.0	9,724.1	9,734.8	9,724.1	26.3	19.4	89.74	264.2	1,746.5	946.8	901.7	45.14	20.977
9,900.0	9,824.1	9,834.8	9,824.1	26.4	19.5	89.74	264.2	1,746.5	946.8	901.6	45.23	20.932
10,000.0	9,924.1	9,934.8	9,924.1	26.4	19.6	89.74	264.2	1,746.5	946.8	901.5	45.33	20.887
10,100.0	10,024.1	10,034.8	10,024.1	26.5	19.6	89.74	264.2	1,746.5	946.8	901.4	45.43	20.842
10,200.0	10,124.1	10,134.8	10,124.1	26.5	19.7	89.74	264.2	1,746.5	946.8	901.3	45.53	20.798
10,300.0	10,224.1	10,234.8	10,224.1	26.6	19.7	89.74	264.2	1,746.5	946.8	901.2	45.62	20.753
10,400.0	10,324.1	10,334.8	10,324.1	26.6	19.8	89.74	264.2	1,746.5	946.8	901.1	45.72	20.708

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11357-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		
10,500.0	10,424.1	10,434.8	10,424.1	26.6	19.8	89.74	264.2	1,746.5	946.8	901.0	45.82	20.663		
10,600.0	10,524.1	10,534.8	10,524.1	26.7	19.9	89.74	264.2	1,746.5	946.8	900.9	45.92	20.618		
10,700.0	10,624.1	10,634.8	10,624.1	26.7	20.0	89.74	264.2	1,746.5	946.8	900.8	46.02	20.574		
10,800.0	10,724.1	10,734.8	10,724.1	26.8	20.0	89.74	264.2	1,746.5	946.8	900.7	46.12	20.529		
10,900.0	10,824.1	10,834.8	10,824.1	26.8	20.1	89.74	264.2	1,746.5	946.8	900.6	46.22	20.484		
11,000.0	10,924.1	10,934.8	10,924.1	26.9	20.1	89.74	264.2	1,746.5	946.8	900.5	46.32	20.440		
11,100.0	11,024.1	11,034.8	11,024.1	26.9	20.2	89.74	264.2	1,746.5	946.8	900.4	46.42	20.395		
11,200.0	11,124.1	11,134.8	11,124.1	27.0	20.2	89.74	264.2	1,746.5	946.8	900.3	46.52	20.351		
11,248.4	11,172.5	11,183.2	11,172.5	27.0	20.3	89.74	264.2	1,746.5	946.8	900.2	46.56	20.333	CC	
11,250.0	11,174.1	11,184.8	11,174.1	27.0	20.3	-91.06	264.2	1,746.5	946.8	900.2	46.57	20.333		
11,275.0	11,199.1	11,209.8	11,199.1	27.0	20.3	-91.11	264.2	1,746.5	946.8	900.2	46.58	20.325	ES	
11,300.0	11,224.0	11,234.7	11,224.0	26.9	20.3	-91.22	264.2	1,746.5	946.9	900.3	46.60	20.319		
11,325.0	11,248.8	11,259.5	11,248.8	26.9	20.3	-91.42	264.2	1,746.5	946.9	900.3	46.62	20.312		
11,350.0	11,273.4	11,284.0	11,273.4	26.9	20.3	-91.68	264.2	1,746.5	947.1	900.4	46.64	20.305		
11,375.0	11,297.6	11,308.3	11,297.6	26.8	20.3	-92.00	264.2	1,746.5	947.3	900.6	46.67	20.299		
11,400.0	11,321.6	11,332.3	11,321.6	26.8	20.4	-92.38	264.2	1,746.5	947.6	900.9	46.69	20.296		
11,425.0	11,345.1	11,355.8	11,345.1	26.8	20.4	-92.81	264.2	1,746.5	948.0	901.3	46.71	20.296	SF	
11,450.0	11,368.2	11,377.2	11,366.5	26.7	20.4	-93.26	264.6	1,746.5	948.5	901.8	46.73	20.298		
11,475.0	11,390.7	11,397.1	11,386.4	26.7	20.4	-93.75	265.8	1,746.5	949.4	902.6	46.75	20.305		
11,500.0	11,412.6	11,415.4	11,404.6	26.6	20.4	-94.24	267.7	1,746.5	950.5	903.7	46.78	20.319		
11,525.0	11,433.9	11,432.0	11,421.0	26.6	20.4	-94.70	270.0	1,746.4	952.0	905.2	46.80	20.342		
11,550.0	11,454.5	11,447.0	11,435.8	26.6	20.4	-95.09	272.6	1,746.4	954.0	907.2	46.82	20.375		
11,575.0	11,474.2	11,460.3	11,448.8	26.5	20.4	-95.39	275.3	1,746.4	956.5	909.6	46.84	20.422		
11,600.0	11,493.2	11,471.9	11,460.1	26.5	20.4	-95.59	277.9	1,746.4	959.5	912.7	46.84	20.483		
11,625.0	11,511.3	11,482.0	11,469.9	26.5	20.4	-95.66	280.4	1,746.4	963.2	916.4	46.85	20.561		
11,650.0	11,528.4	11,490.6	11,478.1	26.5	20.4	-95.59	282.7	1,746.3	967.5	920.7	46.84	20.655		
11,675.0	11,544.6	11,500.0	11,487.2	26.4	20.4	-95.51	285.4	1,746.3	972.5	925.6	46.82	20.770		
11,700.0	11,559.7	11,500.0	11,487.2	26.4	20.4	-94.82	285.4	1,746.3	978.1	931.3	46.83	20.888		
11,725.0	11,573.8	11,508.4	11,495.2	26.4	20.4	-94.52	287.9	1,746.3	984.4	937.6	46.78	21.041		
11,750.0	11,586.8	11,512.0	11,498.6	26.4	20.4	-93.86	289.0	1,746.3	991.3	944.6	46.75	21.205		
11,775.0	11,598.7	11,514.6	11,501.0	26.4	20.4	-93.06	289.9	1,746.3	999.0	952.2	46.71	21.386		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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	-90.80	-0.8	-60.0	60.0	53.6	6.43	9.333	
100.0	100.0	100.0	100.0	3.2	3.2	-90.80	-0.8	-60.0	60.0	53.1	6.89	8.705	
200.0	200.0	200.0	200.0	3.5	3.5	-90.80	-0.8	-60.0	60.0	52.7	7.33	8.188	
300.0	300.0	300.0	300.0	3.7	3.7	-90.80	-0.8	-60.0	60.0	52.3	7.74	7.751	
400.0	400.0	400.0	400.0	3.9	3.9	-90.80	-0.8	-60.0	60.0	51.9	8.14	7.375	
500.0	500.0	500.0	500.0	4.1	4.1	-90.80	-0.8	-60.0	60.0	51.5	8.51	7.048	
600.0	600.0	600.0	600.0	4.2	4.2	-90.80	-0.8	-60.0	60.0	51.1	8.88	6.759	
700.0	700.0	700.0	700.0	4.4	4.4	-90.80	-0.8	-60.0	60.0	50.8	9.23	6.501	
800.0	800.0	800.0	800.0	4.6	4.6	-90.80	-0.8	-60.0	60.0	50.4	9.57	6.269	
900.0	900.0	900.0	900.0	4.8	4.8	-90.80	-0.8	-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	-90.80	-0.8	-60.0	60.0	49.8	10.22	5.868 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	5.2	5.1	-163.27	-0.8	-60.0	61.7	51.0	10.63	5.804 SF	
1,200.0	1,199.8	1,199.8	1,199.8	5.4	5.2	-164.54	-0.8	-60.0	66.7	55.7	11.03	6.049	
1,300.0	1,299.5	1,299.5	1,299.5	5.7	5.4	-166.27	-0.8	-60.0	75.1	63.7	11.44	6.565	
1,400.0	1,398.7	1,398.7	1,398.7	6.0	5.5	-168.12	-0.8	-60.0	87.0	75.1	11.88	7.325	
1,500.0	1,497.5	1,497.5	1,497.5	6.3	5.7	-169.87	-0.8	-60.0	102.4	90.1	12.34	8.300	
1,550.0	1,546.6	1,546.4	1,546.4	6.4	5.8	-170.46	-0.5	-60.1	111.4	98.9	12.51	8.908	
1,600.0	1,595.7	1,595.3	1,595.3	6.5	5.9	-170.63	0.7	-60.4	121.0	108.3	12.67	9.544	
1,700.0	1,693.9	1,692.9	1,692.7	6.8	6.1	-169.86	5.4	-61.7	140.3	127.3	13.08	10.729	
1,800.0	1,792.0	1,790.1	1,789.6	7.1	6.4	-168.08	13.3	-63.8	160.2	146.7	13.50	11.868	
1,900.0	1,890.2	1,887.1	1,886.0	7.4	6.5	-165.73	24.2	-66.7	180.8	166.9	13.87	13.034	
2,000.0	1,988.4	1,984.7	1,982.8	7.7	6.7	-163.66	35.6	-69.8	201.7	187.4	14.30	14.103	
2,100.0	2,086.5	2,082.2	2,079.6	8.1	7.0	-161.99	47.1	-72.8	222.8	208.1	14.76	15.102	
2,200.0	2,184.7	2,179.8	2,176.5	8.4	7.2	-160.60	58.6	-75.9	244.1	228.9	15.22	16.037	
2,300.0	2,282.8	2,277.3	2,273.3	8.8	7.5	-159.44	70.1	-79.0	265.5	249.8	15.70	16.911	
2,400.0	2,381.0	2,374.9	2,370.1	9.2	7.7	-158.45	81.6	-82.1	287.0	270.8	16.19	17.727	
2,500.0	2,479.2	2,472.4	2,466.9	9.5	8.0	-157.60	93.1	-85.2	308.6	291.9	16.69	18.487	
2,600.0	2,577.3	2,570.0	2,563.8	9.9	8.3	-156.86	104.5	-88.2	330.2	313.0	17.20	19.197	
2,700.0	2,675.5	2,667.5	2,660.6	10.3	8.6	-156.21	116.0	-91.3	351.8	334.1	17.72	19.858	
2,800.0	2,773.7	2,765.1	2,757.4	10.7	8.9	-155.63	127.5	-94.4	373.5	355.3	18.24	20.475	
2,900.0	2,871.8	2,862.7	2,854.2	11.1	9.2	-155.12	139.0	-97.5	395.3	376.5	18.78	21.051	
3,000.0	2,970.0	2,960.2	2,951.1	11.5	9.6	-154.66	150.5	-100.5	417.0	397.7	19.32	21.589	
3,100.0	3,068.1	3,057.8	3,047.9	12.0	9.9	-154.25	162.0	-103.6	438.8	418.9	19.86	22.092	
3,200.0	3,166.3	3,155.3	3,144.7	12.4	10.2	-153.88	173.4	-106.7	460.6	440.2	20.41	22.563	
3,300.0	3,264.5	3,252.9	3,241.5	12.8	10.6	-153.54	184.9	-109.8	482.4	461.4	20.97	23.004	
3,400.0	3,362.6	3,350.4	3,338.4	13.2	10.9	-153.23	196.4	-112.8	504.2	482.7	21.53	23.418	
3,500.0	3,460.8	3,448.0	3,435.2	13.7	11.3	-152.94	207.9	-115.9	526.1	504.0	22.10	23.806	
3,600.0	3,559.0	3,545.5	3,532.0	14.1	11.6	-152.68	219.4	-119.0	548.0	525.3	22.67	24.171	
3,700.0	3,657.1	3,644.3	3,630.1	14.5	12.0	-152.44	230.9	-122.1	569.8	546.5	23.25	24.511	
3,800.0	3,755.3	3,746.2	3,731.4	15.0	12.4	-152.34	241.5	-124.9	591.1	567.2	23.85	24.779	
3,900.0	3,853.5	3,848.5	3,833.2	15.4	12.7	-152.40	250.4	-127.3	611.7	587.2	24.47	25.002	
4,000.0	3,951.6	3,950.9	3,935.4	15.8	13.1	-152.61	257.6	-129.2	631.6	606.5	25.08	25.181	
4,100.0	4,049.8	4,053.6	4,038.0	16.3	13.4	-152.96	263.0	-130.7	650.8	625.1	25.70	25.321	
4,200.0	4,147.9	4,156.5	4,140.7	16.7	13.7	-153.44	266.6	-131.7	669.3	643.0	26.32	25.426	
4,300.0	4,246.1	4,259.3	4,243.6	17.2	14.0	-154.04	268.4	-132.1	687.2	660.2	26.95	25.503	
4,400.0	4,344.3	4,360.0	4,344.3	17.6	14.1	-154.71	268.7	-132.2	704.5	677.0	27.55	25.577	
4,500.0	4,442.4	4,458.2	4,442.4	18.0	14.2	-155.36	268.7	-132.2	721.9	693.8	28.14	25.656	
4,600.0	4,540.6	4,556.3	4,540.6	18.5	14.3	-155.97	268.7	-132.2	739.3	710.6	28.73	25.732	
4,700.0	4,638.8	4,654.5	4,638.8	18.9	14.3	-156.56	268.7	-132.2	756.8	727.5	29.33	25.804	
4,800.0	4,736.9	4,752.7	4,736.9	19.4	14.4	-157.12	268.7	-132.2	774.4	744.5	29.94	25.870	
4,900.0	4,835.1	4,850.8	4,835.1	19.8	14.5	-157.65	268.7	-132.2	792.1	761.6	30.54	25.933	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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
5,000.0	4,933.2	4,949.0	4,933.2	20.3	14.5	-158.17	268.7	-132.2	809.8	778.7	31.16	25.991	
5,100.0	5,031.4	5,047.2	5,031.4	20.7	14.6	-158.66	268.7	-132.2	827.6	795.8	31.77	26.047	
5,129.1	5,060.0	5,075.8	5,060.0	20.9	14.6	-158.80	268.7	-132.2	832.8	800.9	31.94	26.070	
5,200.0	5,129.6	5,145.4	5,129.6	21.2	14.7	-159.16	268.7	-132.2	845.1	812.7	32.37	26.106	
5,300.0	5,228.2	5,243.9	5,228.2	21.6	14.7	-159.62	268.7	-132.2	861.0	828.0	32.98	26.110	
5,400.0	5,327.0	5,342.8	5,327.0	22.0	14.8	-160.02	268.7	-132.2	875.4	841.8	33.57	26.076	
5,500.0	5,426.1	5,441.8	5,426.1	22.5	14.9	-160.36	268.7	-132.2	888.1	854.0	34.15	26.007	
5,600.0	5,525.4	5,541.1	5,525.4	22.9	15.0	-160.65	268.7	-132.2	899.3	864.6	34.71	25.906	
5,700.0	5,624.9	5,640.6	5,624.9	23.3	15.0	-160.89	268.7	-132.2	908.8	873.6	35.26	25.776	
5,800.0	5,724.5	5,740.3	5,724.5	23.6	15.1	-161.09	268.7	-132.2	916.7	880.9	35.78	25.619	
5,900.0	5,824.3	5,840.1	5,824.3	24.0	15.2	-161.24	268.7	-132.2	923.0	886.7	36.28	25.439	
6,000.0	5,924.2	5,939.9	5,924.2	24.3	15.3	-161.35	268.7	-132.2	927.6	890.8	36.75	25.241	
6,100.0	6,024.1	6,039.9	6,024.1	24.6	15.3	-161.42	268.7	-132.2	930.6	893.4	37.18	25.031	
6,200.0	6,124.1	6,139.9	6,124.1	24.9	15.4	-161.45	268.7	-132.2	931.9	894.3	37.53	24.829	
6,229.1	6,153.3	6,169.0	6,153.3	24.9	15.4	-89.45	268.7	-132.2	931.9	894.4	37.58	24.796	
6,300.0	6,224.1	6,239.9	6,224.1	24.9	15.5	-89.45	268.7	-132.2	931.9	894.3	37.65	24.754	
6,400.0	6,324.1	6,339.9	6,324.1	25.0	15.5	-89.45	268.7	-132.2	931.9	894.2	37.75	24.685	
6,500.0	6,424.1	6,439.9	6,424.1	25.0	15.6	-89.45	268.7	-132.2	931.9	894.1	37.86	24.616	
6,600.0	6,524.1	6,539.9	6,524.1	25.0	15.7	-89.45	268.7	-132.2	931.9	894.0	37.97	24.547	
6,700.0	6,624.1	6,639.9	6,624.1	25.1	15.8	-89.45	268.7	-132.2	931.9	893.9	38.07	24.479	
6,800.0	6,724.1	6,739.9	6,724.1	25.1	15.8	-89.45	268.7	-132.2	931.9	893.8	38.18	24.410	
6,900.0	6,824.1	6,839.9	6,824.1	25.2	15.9	-89.45	268.7	-132.2	931.9	893.7	38.29	24.342	
7,000.0	6,924.1	6,939.9	6,924.1	25.2	16.0	-89.45	268.7	-132.2	931.9	893.5	38.39	24.273	
7,100.0	7,024.1	7,039.9	7,024.1	25.2	16.1	-89.45	268.7	-132.2	931.9	893.4	38.50	24.205	
7,200.0	7,124.1	7,139.9	7,124.1	25.3	16.1	-89.45	268.7	-132.2	931.9	893.3	38.61	24.137	
7,300.0	7,224.1	7,239.9	7,224.1	25.3	16.2	-89.45	268.7	-132.2	931.9	893.2	38.72	24.070	
7,400.0	7,324.1	7,339.9	7,324.1	25.3	16.3	-89.45	268.7	-132.2	931.9	893.1	38.83	24.002	
7,500.0	7,424.1	7,439.9	7,424.1	25.4	16.4	-89.45	268.7	-132.2	931.9	893.0	38.94	23.934	
7,600.0	7,524.1	7,539.9	7,524.1	25.4	16.4	-89.45	268.7	-132.2	931.9	892.9	39.05	23.867	
7,700.0	7,624.1	7,639.9	7,624.1	25.5	16.5	-89.45	268.7	-132.2	931.9	892.8	39.16	23.800	
7,800.0	7,724.1	7,739.9	7,724.1	25.5	16.6	-89.45	268.7	-132.2	931.9	892.7	39.27	23.733	
7,900.0	7,824.1	7,839.9	7,824.1	25.5	16.7	-89.45	268.7	-132.2	931.9	892.6	39.38	23.666	
8,000.0	7,924.1	7,939.9	7,924.1	25.6	16.7	-89.45	268.7	-132.2	931.9	892.4	39.49	23.599	
8,100.0	8,024.1	8,039.9	8,024.1	25.6	16.8	-89.45	268.7	-132.2	931.9	892.3	39.60	23.533	
8,200.0	8,124.1	8,139.9	8,124.1	25.7	16.9	-89.45	268.7	-132.2	931.9	892.2	39.71	23.467	
8,300.0	8,224.1	8,239.9	8,224.1	25.7	17.0	-89.45	268.7	-132.2	931.9	892.1	39.83	23.400	
8,400.0	8,324.1	8,339.9	8,324.1	25.7	17.0	-89.45	268.7	-132.2	931.9	892.0	39.94	23.334	
8,500.0	8,424.1	8,439.9	8,424.1	25.8	17.1	-89.45	268.7	-132.2	931.9	891.9	40.05	23.269	
8,600.0	8,524.1	8,539.9	8,524.1	25.8	17.2	-89.45	268.7	-132.2	931.9	891.8	40.16	23.203	
8,700.0	8,624.1	8,639.9	8,624.1	25.9	17.3	-89.45	268.7	-132.2	931.9	891.7	40.28	23.138	
8,800.0	8,724.1	8,739.9	8,724.1	25.9	17.3	-89.45	268.7	-132.2	931.9	891.5	40.39	23.072	
8,900.0	8,824.1	8,839.9	8,824.1	26.0	17.4	-89.45	268.7	-132.2	931.9	891.4	40.51	23.007	
9,000.0	8,924.1	8,939.9	8,924.1	26.0	17.5	-89.45	268.7	-132.2	931.9	891.3	40.62	22.942	
9,100.0	9,024.1	9,039.9	9,024.1	26.0	17.6	-89.45	268.7	-132.2	931.9	891.2	40.74	22.878	
9,200.0	9,124.1	9,139.9	9,124.1	26.1	17.6	-89.45	268.7	-132.2	931.9	891.1	40.85	22.813	
9,300.0	9,224.1	9,239.9	9,224.1	26.1	17.7	-89.45	268.7	-132.2	931.9	891.0	40.97	22.749	
9,400.0	9,324.1	9,339.9	9,324.1	26.2	17.8	-89.45	268.7	-132.2	931.9	890.9	41.08	22.685	
9,500.0	9,424.1	9,439.9	9,424.1	26.2	17.9	-89.45	268.7	-132.2	931.9	890.7	41.20	22.621	
9,600.0	9,524.1	9,539.9	9,524.1	26.2	17.9	-89.45	268.7	-132.2	931.9	890.6	41.32	22.557	
9,700.0	9,624.1	9,639.9	9,624.1	26.3	18.0	-89.45	268.7	-132.2	931.9	890.5	41.43	22.493	
9,800.0	9,724.1	9,739.9	9,724.1	26.3	18.1	-89.45	268.7	-132.2	931.9	890.4	41.55	22.430	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,900.0	9,824.1	9,839.9	9,824.1	26.4	18.2	-89.45	268.7	-132.2	931.9	890.3	41.67	22.367
10,000.0	9,924.1	9,939.9	9,924.1	26.4	18.2	-89.45	268.7	-132.2	931.9	890.2	41.78	22.304
10,100.0	10,024.1	10,039.9	10,024.1	26.5	18.3	-89.45	268.7	-132.2	931.9	890.0	41.90	22.241
10,200.0	10,124.1	10,139.9	10,124.1	26.5	18.4	-89.45	268.7	-132.2	931.9	889.9	42.02	22.178
10,300.0	10,224.1	10,239.9	10,224.1	26.6	18.5	-89.45	268.7	-132.2	931.9	889.8	42.14	22.116
10,400.0	10,324.1	10,339.9	10,324.1	26.6	18.5	-89.45	268.7	-132.2	931.9	889.7	42.26	22.054
10,500.0	10,424.1	10,439.9	10,424.1	26.6	18.6	-89.45	268.7	-132.2	931.9	889.6	42.38	21.992
10,600.0	10,524.1	10,539.9	10,524.1	26.7	18.7	-89.45	268.7	-132.2	931.9	889.4	42.50	21.930
10,700.0	10,624.1	10,639.9	10,624.1	26.7	18.8	-89.45	268.7	-132.2	931.9	889.3	42.62	21.869
10,800.0	10,724.1	10,739.9	10,724.1	26.8	18.8	-89.45	268.7	-132.2	931.9	889.2	42.74	21.807
10,900.0	10,824.1	10,839.9	10,824.1	26.8	18.9	-89.45	268.7	-132.2	931.9	889.1	42.86	21.746
11,000.0	10,924.1	10,939.9	10,924.1	26.9	19.0	-89.45	268.7	-132.2	931.9	889.0	42.98	21.685
11,100.0	11,024.1	11,039.9	11,024.1	26.9	19.1	-89.45	268.7	-132.2	931.9	888.8	43.10	21.624
11,200.0	11,124.1	11,139.9	11,124.1	27.0	19.1	-89.45	268.7	-132.2	931.9	888.7	43.22	21.565
11,248.4	11,172.5	11,188.3	11,172.5	27.0	19.2	-89.45	268.7	-132.2	931.9	888.7	43.26	21.542
11,250.0	11,174.1	11,189.9	11,174.1	27.0	19.2	89.75	268.7	-132.2	931.9	888.7	43.26	21.542
11,275.0	11,199.1	11,214.9	11,199.1	27.0	19.1	89.75	268.0	-132.2	931.9	888.7	43.26	21.541
11,300.0	11,224.0	11,240.0	11,224.1	26.9	19.1	89.75	265.9	-132.2	931.9	888.7	43.25	21.547
11,325.0	11,248.8	11,265.0	11,248.9	26.9	19.0	89.75	262.5	-132.3	931.9	888.7	43.24	21.554
11,350.0	11,273.4	11,290.0	11,273.5	26.9	19.0	89.75	257.9	-132.3	931.9	888.7	43.22	21.562
11,375.0	11,297.6	11,315.1	11,297.8	26.8	18.9	89.75	252.0	-132.4	931.9	888.6	43.20	21.570
11,400.0	11,321.6	11,340.1	11,321.8	26.8	18.9	89.76	244.8	-132.4	931.8	888.6	43.18	21.579
11,425.0	11,345.1	11,365.1	11,345.4	26.8	18.8	89.76	236.3	-132.5	931.8	888.6	43.16	21.587
11,450.0	11,368.2	11,390.2	11,368.5	26.7	18.7	89.77	226.6	-132.6	931.7	888.6	43.14	21.597
11,475.0	11,390.7	11,415.2	11,391.0	26.7	18.7	89.77	215.8	-132.7	931.7	888.5	43.12	21.606
11,500.0	11,412.6	11,440.2	11,412.9	26.6	18.6	89.78	203.7	-132.8	931.6	888.5	43.10	21.615
11,525.0	11,433.9	11,465.3	11,434.2	26.6	18.5	89.79	190.6	-132.9	931.5	888.5	43.08	21.623
11,550.0	11,454.5	11,490.3	11,454.8	26.6	18.5	89.79	176.3	-133.0	931.5	888.4	43.06	21.631
11,575.0	11,474.2	11,515.3	11,474.6	26.5	18.4	89.80	161.0	-133.2	931.4	888.3	43.04	21.638
11,600.0	11,493.2	11,540.4	11,493.5	26.5	18.4	89.81	144.7	-133.3	931.3	888.3	43.03	21.644
11,625.0	11,511.3	11,565.4	11,511.6	26.5	18.3	89.82	127.3	-133.5	931.2	888.2	43.01	21.649
11,650.0	11,528.4	11,590.4	11,528.8	26.5	18.3	89.83	109.1	-133.6	931.1	888.1	43.00	21.653
11,675.0	11,544.6	11,615.4	11,544.9	26.4	18.2	89.84	90.0	-133.8	931.0	888.0	42.99	21.654
11,700.0	11,559.7	11,640.5	11,560.1	26.4	18.2	89.85	70.1	-134.0	930.9	887.9	42.99	21.654
11,725.0	11,573.8	11,665.5	11,574.1	26.4	18.2	89.86	49.4	-134.1	930.8	887.8	42.99	21.651
11,750.0	11,586.8	11,690.5	11,587.1	26.4	18.1	89.87	28.0	-134.3	930.7	887.7	43.00	21.646
11,775.0	11,598.7	11,715.5	11,598.9	26.4	18.1	89.88	6.0	-134.5	930.6	887.6	43.01	21.638
11,800.0	11,609.3	11,740.5	11,609.6	26.4	18.1	89.90	-16.6	-134.7	930.5	887.4	43.02	21.628
11,825.0	11,618.8	11,765.5	11,619.1	26.4	18.1	89.91	-39.8	-134.9	930.3	887.3	43.04	21.615
11,850.0	11,627.1	11,790.6	11,627.3	26.4	18.0	89.92	-63.4	-135.1	930.2	887.1	43.07	21.599
11,875.0	11,634.1	11,815.6	11,634.3	26.4	18.0	89.93	-87.4	-135.3	930.1	887.0	43.10	21.580
11,900.0	11,639.9	11,840.6	11,640.0	26.4	18.0	89.95	-111.8	-135.5	930.0	886.8	43.14	21.558
11,925.0	11,644.3	11,865.6	11,644.4	26.4	18.0	89.96	-136.4	-135.8	929.8	886.6	43.18	21.533
11,950.0	11,647.5	11,890.6	11,647.6	26.5	18.0	89.97	-161.2	-136.0	929.7	886.5	43.23	21.506
11,975.0	11,649.4	11,915.6	11,649.4	26.5	18.0	89.99	-186.1	-136.2	929.6	886.3	43.29	21.475
11,998.4	11,650.0	11,939.0	11,650.0	26.5	18.0	90.00	-209.5	-136.4	929.4	886.1	43.34	21.444
12,000.0	11,650.0	11,940.6	11,650.0	26.5	18.0	90.00	-211.1	-136.4	929.4	886.1	43.35	21.442
12,100.0	11,650.0	12,040.6	11,650.0	26.7	18.0	90.00	-311.1	-137.3	928.9	885.2	43.67	21.271
12,200.0	11,650.0	12,140.6	11,650.0	26.8	18.1	90.00	-411.1	-138.2	928.4	884.3	44.07	21.064
12,300.0	11,650.0	12,240.6	11,650.0	27.1	18.2	90.00	-511.1	-139.0	927.9	883.3	44.55	20.825
12,400.0	11,650.0	12,340.6	11,650.0	27.3	18.3	90.00	-611.1	-139.9	927.4	882.2	45.11	20.557

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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)			
12,500.0	11,650.0	12,440.6	11,650.0	27.6	18.5	90.00	-711.1	-140.8	926.8	881.1	45.74	20.264	
12,600.0	11,650.0	12,540.6	11,650.0	27.9	18.7	90.00	-811.1	-141.7	926.3	879.9	46.43	19.949	
12,700.0	11,650.0	12,640.6	11,650.0	28.2	19.1	90.00	-911.0	-142.5	925.8	878.6	47.20	19.615	
12,800.0	11,650.0	12,740.6	11,650.0	28.5	19.5	90.00	-1,011.0	-143.4	925.3	877.2	48.02	19.267	
12,900.0	11,650.0	12,840.6	11,650.0	28.9	20.0	90.00	-1,111.0	-144.3	924.7	875.8	48.91	18.908	
13,000.0	11,650.0	12,940.6	11,650.0	29.3	20.6	90.00	-1,211.0	-145.2	924.2	874.4	49.85	18.541	
13,100.0	11,650.0	13,040.6	11,650.0	29.8	21.2	90.00	-1,311.0	-146.0	923.7	872.9	50.84	18.168	
13,200.0	11,650.0	13,140.6	11,650.0	30.2	21.8	90.00	-1,411.0	-146.9	923.2	871.3	51.89	17.792	
13,300.0	11,650.0	13,240.6	11,650.0	30.7	22.4	90.00	-1,511.0	-147.8	922.7	869.7	52.98	17.415	
13,400.0	11,650.0	13,340.6	11,650.0	31.2	23.1	90.00	-1,611.0	-148.7	922.1	868.0	54.12	17.040	
13,500.0	11,650.0	13,440.6	11,650.0	31.7	23.8	90.00	-1,711.0	-149.5	921.6	866.3	55.29	16.668	
13,600.0	11,650.0	13,540.6	11,650.0	32.2	24.5	90.00	-1,811.0	-150.4	921.1	864.6	56.51	16.300	
13,700.0	11,650.0	13,640.6	11,650.0	32.8	25.2	90.00	-1,911.0	-151.3	920.6	862.8	57.76	15.937	
13,800.0	11,650.0	13,740.6	11,650.0	33.4	26.0	90.00	-2,011.0	-152.2	920.0	861.0	59.05	15.581	
13,900.0	11,650.0	13,840.6	11,650.0	33.9	26.8	90.00	-2,111.0	-153.0	919.5	859.2	60.37	15.232	
14,000.0	11,650.0	13,940.6	11,650.0	34.5	27.5	90.00	-2,211.0	-153.9	919.0	857.3	61.72	14.890	
14,100.0	11,650.0	14,040.6	11,650.0	35.2	28.3	90.00	-2,311.0	-154.8	918.5	855.4	63.09	14.557	
14,200.0	11,650.0	14,140.6	11,650.0	35.8	29.1	90.00	-2,411.0	-155.6	918.0	853.5	64.50	14.233	
14,300.0	11,650.0	14,240.6	11,650.0	36.5	29.9	90.00	-2,511.0	-156.5	917.4	851.5	65.92	13.917	
14,400.0	11,650.0	14,340.6	11,650.0	37.1	30.7	90.00	-2,611.0	-157.4	916.9	849.5	67.37	13.609	
14,500.0	11,650.0	14,440.6	11,650.0	37.8	31.6	90.00	-2,711.0	-158.3	916.4	847.6	68.85	13.311	
14,600.0	11,650.0	14,540.6	11,650.0	38.5	32.4	90.00	-2,810.9	-159.1	915.9	845.5	70.34	13.021	
14,700.0	11,650.0	14,640.6	11,650.0	39.2	33.2	90.00	-2,910.9	-160.0	915.4	843.5	71.85	12.740	
14,800.0	11,650.0	14,740.6	11,650.0	39.9	34.1	90.00	-3,010.9	-160.9	914.8	841.5	73.37	12.468	
14,900.0	11,650.0	14,840.6	11,650.0	40.6	34.9	90.00	-3,110.9	-161.8	914.3	839.4	74.92	12.204	
15,000.0	11,650.0	14,940.6	11,650.0	41.3	35.8	90.00	-3,210.9	-162.6	913.8	837.3	76.48	11.948	
15,100.0	11,650.0	15,040.6	11,650.0	42.1	36.6	90.00	-3,310.9	-163.5	913.3	835.2	78.05	11.701	
15,200.0	11,650.0	15,140.5	11,650.0	42.8	37.5	90.00	-3,410.9	-164.4	912.7	833.1	79.64	11.461	
15,300.0	11,650.0	15,240.5	11,650.0	43.6	38.4	90.00	-3,510.9	-165.3	912.2	831.0	81.24	11.228	
15,400.0	11,650.0	15,340.5	11,650.0	44.3	39.2	90.00	-3,610.9	-166.1	911.7	828.8	82.86	11.003	
15,500.0	11,650.0	15,440.5	11,650.0	45.1	40.1	90.00	-3,710.9	-167.0	911.2	826.7	84.48	10.786	
15,600.0	11,650.0	15,540.5	11,650.0	45.9	41.0	90.00	-3,810.9	-167.9	910.7	824.5	86.12	10.575	
15,700.0	11,650.0	15,640.5	11,650.0	46.7	41.9	90.00	-3,910.9	-168.8	910.1	822.4	87.76	10.371	
15,800.0	11,650.0	15,740.5	11,650.0	47.5	42.8	90.00	-4,010.9	-169.6	909.6	820.2	89.42	10.173	
15,900.0	11,650.0	15,840.5	11,650.0	48.3	43.7	90.00	-4,110.9	-170.5	909.1	818.0	91.08	9.981	
16,000.0	11,650.0	15,940.5	11,650.0	49.1	44.6	90.00	-4,210.9	-171.4	908.6	815.8	92.75	9.796	
16,100.0	11,650.0	16,040.5	11,650.0	49.9	45.5	90.00	-4,310.9	-172.3	908.0	813.6	94.43	9.616	
16,200.0	11,650.0	16,140.5	11,650.0	50.7	46.4	90.00	-4,410.9	-173.1	907.5	811.4	96.12	9.441	
16,300.0	11,650.0	16,240.5	11,650.0	51.5	47.3	90.00	-4,510.9	-174.0	907.0	809.2	97.82	9.272	
16,400.0	11,650.0	16,340.5	11,650.0	52.3	48.2	90.00	-4,610.9	-174.9	906.5	807.0	99.52	9.108	
16,500.0	11,650.0	16,440.5	11,650.0	53.1	49.1	90.00	-4,710.8	-175.8	906.0	804.7	101.23	8.949	
16,600.0	11,650.0	16,540.5	11,650.0	54.0	50.0	90.00	-4,810.8	-176.6	905.4	802.5	102.95	8.795	
16,700.0	11,650.0	16,640.5	11,650.0	54.8	50.9	90.00	-4,910.8	-177.5	904.9	800.2	104.67	8.645	
16,800.0	11,650.0	16,740.5	11,650.0	55.7	51.8	90.00	-5,010.8	-178.4	904.4	798.0	106.40	8.500	
16,900.0	11,650.0	16,840.5	11,650.0	56.5	52.7	90.00	-5,110.8	-179.3	903.9	795.7	108.13	8.359	
17,000.0	11,650.0	16,940.5	11,650.0	57.3	53.6	90.00	-5,210.8	-180.1	903.4	793.5	109.87	8.222	
17,100.0	11,650.0	17,040.5	11,650.0	58.2	54.5	90.00	-5,310.8	-181.0	902.8	791.2	111.61	8.089	
17,200.0	11,650.0	17,140.5	11,650.0	59.0	55.5	90.00	-5,410.8	-181.9	902.3	789.0	113.36	7.960	
17,300.0	11,650.0	17,240.5	11,650.0	59.9	56.4	90.00	-5,510.8	-182.8	901.8	786.7	115.11	7.834	
17,400.0	11,650.0	17,340.5	11,650.0	60.8	57.3	90.00	-5,610.8	-183.6	901.3	784.4	116.87	7.712	
17,500.0	11,650.0	17,440.5	11,650.0	61.6	58.2	90.00	-5,710.8	-184.5	900.7	782.1	118.63	7.593	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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				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)			
17,600.0	11,650.0	17,540.5	11,650.0	62.5	59.1	90.00	-5,810.8	-185.4	900.2	779.8	120.39	7.477	
17,700.0	11,650.0	17,640.5	11,650.0	63.4	60.1	90.00	-5,910.8	-186.3	899.7	777.5	122.16	7.365	
17,800.0	11,650.0	17,740.5	11,650.0	64.2	61.0	90.00	-6,010.8	-187.1	899.2	775.3	123.93	7.255	
17,900.0	11,650.0	17,840.5	11,650.0	65.1	61.9	90.00	-6,110.8	-188.0	898.7	773.0	125.71	7.149	
18,000.0	11,650.0	17,940.5	11,650.0	66.0	62.8	90.00	-6,210.8	-188.9	898.1	770.7	127.48	7.045	
18,100.0	11,650.0	18,040.5	11,650.0	66.9	63.8	90.00	-6,310.8	-189.7	897.6	768.4	129.27	6.944	
18,200.0	11,650.0	18,140.5	11,650.0	67.7	64.7	90.00	-6,410.8	-190.6	897.1	766.0	131.05	6.845	
18,300.0	11,650.0	18,240.5	11,650.0	68.6	65.6	90.00	-6,510.8	-191.5	896.6	763.7	132.84	6.749	
18,400.0	11,650.0	18,340.5	11,650.0	69.5	66.5	90.00	-6,610.8	-192.4	896.1	761.4	134.63	6.656	
18,500.0	11,650.0	18,440.5	11,650.0	70.4	67.5	90.00	-6,710.7	-193.2	895.5	759.1	136.42	6.565	
18,600.0	11,650.0	18,540.5	11,650.0	71.3	68.4	90.00	-6,810.7	-194.1	895.0	756.8	138.21	6.476	
18,700.0	11,650.0	18,640.5	11,650.0	72.2	69.3	90.00	-6,910.7	-195.0	894.5	754.5	140.01	6.389	
18,800.0	11,650.0	18,740.5	11,650.0	73.0	70.3	90.00	-7,010.7	-195.9	894.0	752.2	141.81	6.304	
18,900.0	11,650.0	18,840.5	11,650.0	73.9	71.2	90.00	-7,110.7	-196.7	893.4	749.8	143.61	6.221	
19,000.0	11,650.0	18,940.5	11,650.0	74.8	72.1	90.00	-7,210.7	-197.6	892.9	747.5	145.42	6.140	
19,100.0	11,650.0	19,040.5	11,650.0	75.7	73.1	90.00	-7,310.7	-198.5	892.4	745.2	147.22	6.062	
19,195.3	11,650.0	19,135.8	11,650.0	76.6	74.0	90.00	-7,406.0	-199.3	891.9	743.0	148.95	5.988	
19,196.1	11,650.0	19,136.6	11,650.0	76.6	74.0	90.00	-7,406.8	-199.3	891.9	742.9	148.96	5.988	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	-90.80	-0.4	-30.0	30.0	23.6	6.43	4.666	
100.0	100.0	100.0	100.0	3.2	3.2	-90.80	-0.4	-30.0	30.0	23.1	6.89	4.353	
200.0	200.0	200.0	200.0	3.5	3.5	-90.80	-0.4	-30.0	30.0	22.7	7.33	4.094	
300.0	300.0	300.0	300.0	3.7	3.7	-90.80	-0.4	-30.0	30.0	22.3	7.74	3.875	
400.0	400.0	400.0	400.0	3.9	3.9	-90.80	-0.4	-30.0	30.0	21.9	8.14	3.688	
500.0	500.0	500.0	500.0	4.1	4.1	-90.80	-0.4	-30.0	30.0	21.5	8.51	3.524	
600.0	600.0	600.0	600.0	4.2	4.2	-90.80	-0.4	-30.0	30.0	21.1	8.88	3.379	
700.0	700.0	700.0	700.0	4.4	4.4	-90.80	-0.4	-30.0	30.0	20.8	9.23	3.250	
800.0	800.0	800.0	800.0	4.6	4.6	-90.80	-0.4	-30.0	30.0	20.4	9.57	3.135	
900.0	900.0	900.0	900.0	4.8	4.8	-90.80	-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	-90.80	-0.4	-30.0	30.0	19.8	10.22	2.934 CC, ES, SF	
1,100.0	1,100.0	1,100.0	1,100.0	5.2	5.1	-163.72	-0.4	-30.0	31.7	21.0	10.63	2.981	
1,200.0	1,199.8	1,199.8	1,199.8	5.4	5.2	-165.99	-0.4	-30.0	36.7	25.7	11.03	3.330	
1,300.0	1,299.5	1,300.8	1,300.8	5.7	5.5	-167.56	0.6	-28.5	43.7	32.2	11.51	3.796	
1,400.0	1,398.7	1,402.0	1,401.8	6.0	5.7	-167.57	3.7	-24.2	51.0	39.0	12.00	4.250	
1,500.0	1,497.5	1,503.4	1,502.8	6.3	6.0	-166.59	8.8	-16.8	58.7	46.2	12.51	4.689	
1,550.0	1,546.6	1,554.1	1,553.2	6.4	6.1	-165.85	12.1	-12.1	62.6	49.9	12.71	4.929	
1,600.0	1,595.7	1,604.9	1,603.5	6.5	6.3	-164.90	16.0	-6.6	66.3	53.4	12.90	5.138	
1,700.0	1,693.9	1,704.6	1,702.3	6.8	6.5	-163.01	23.9	4.8	73.0	59.7	13.34	5.471	
1,800.0	1,792.0	1,804.4	1,801.1	7.1	6.8	-161.44	31.9	16.1	79.8	66.0	13.82	5.776	
1,900.0	1,890.2	1,904.1	1,899.9	7.4	7.0	-160.12	39.9	27.5	86.7	72.3	14.31	6.055	
2,000.0	1,988.4	2,003.9	1,998.6	7.7	7.3	-158.99	47.8	38.9	93.5	78.7	14.83	6.309	
2,100.0	2,086.5	2,103.6	2,097.4	8.1	7.6	-158.01	55.8	50.3	100.5	85.1	15.36	6.541	
2,200.0	2,184.7	2,203.4	2,196.2	8.4	7.9	-157.17	63.7	61.6	107.4	91.5	15.90	6.753	
2,300.0	2,282.8	2,303.1	2,295.0	8.8	8.2	-156.42	71.7	73.0	114.4	97.9	16.46	6.946	
2,400.0	2,381.0	2,402.9	2,393.7	9.2	8.5	-155.76	79.7	84.4	121.3	104.3	17.04	7.123	
2,500.0	2,479.2	2,502.6	2,492.5	9.5	8.9	-155.17	87.6	95.7	128.3	110.7	17.62	7.284	
2,600.0	2,577.3	2,602.4	2,591.3	9.9	9.2	-154.65	95.6	107.1	135.3	117.1	18.21	7.433	
2,700.0	2,675.5	2,702.1	2,690.1	10.3	9.5	-154.17	103.6	118.5	142.4	123.6	18.81	7.570	
2,800.0	2,773.7	2,801.8	2,788.9	10.7	9.9	-153.74	111.5	129.9	149.4	130.0	19.41	7.696	
2,900.0	2,871.8	2,901.6	2,887.6	11.1	10.3	-153.35	119.5	141.2	156.4	136.4	20.02	7.812	
3,000.0	2,970.0	3,001.3	2,986.4	11.5	10.6	-152.99	127.4	152.6	163.5	142.8	20.64	7.919	
3,100.0	3,068.1	3,101.1	3,085.2	12.0	11.0	-152.66	135.4	164.0	170.5	149.2	21.26	8.019	
3,200.0	3,166.3	3,200.8	3,184.0	12.4	11.4	-152.36	143.4	175.3	177.6	155.7	21.89	8.111	
3,300.0	3,264.5	3,300.6	3,282.7	12.8	11.8	-152.08	151.3	186.7	184.6	162.1	22.52	8.197	
3,400.0	3,362.6	3,400.3	3,381.5	13.2	12.1	-151.82	159.3	198.1	191.7	168.5	23.16	8.277	
3,500.0	3,460.8	3,500.1	3,480.3	13.7	12.5	-151.58	167.3	209.5	198.7	174.9	23.79	8.352	
3,600.0	3,559.0	3,599.8	3,579.1	14.1	12.9	-151.36	175.2	220.8	205.8	181.4	24.44	8.422	
3,700.0	3,657.1	3,699.6	3,677.8	14.5	13.3	-151.15	183.2	232.2	212.9	187.8	25.08	8.488	
3,800.0	3,755.3	3,799.3	3,776.6	15.0	13.7	-150.95	191.1	243.6	219.9	194.2	25.73	8.549	
3,900.0	3,853.5	3,899.1	3,875.4	15.4	14.1	-150.77	199.1	254.9	227.0	200.6	26.38	8.607	
4,000.0	3,951.6	3,998.8	3,974.2	15.8	14.5	-150.60	207.1	266.3	234.1	207.1	27.03	8.661	
4,100.0	4,049.8	4,098.6	4,072.9	16.3	14.9	-150.44	215.0	277.7	241.2	213.5	27.68	8.712	
4,200.0	4,147.9	4,198.1	4,171.5	16.7	15.3	-150.28	223.0	289.0	248.2	219.9	28.33	8.763	
4,300.0	4,246.1	4,294.9	4,267.5	17.2	15.7	-150.30	230.2	299.3	256.0	227.0	29.03	8.817	
4,400.0	4,344.3	4,391.4	4,363.4	17.6	16.1	-150.56	236.4	308.2	264.9	235.1	29.74	8.905	
4,500.0	4,442.4	4,487.8	4,459.3	18.0	16.5	-151.06	241.7	315.8	275.0	244.5	30.49	9.018	
4,600.0	4,540.6	4,583.8	4,555.0	18.5	16.8	-151.75	246.1	322.1	286.2	255.0	31.27	9.153	
4,700.0	4,638.8	4,679.4	4,650.4	18.9	17.1	-152.60	249.6	327.0	298.7	266.7	32.08	9.314	
4,800.0	4,736.9	4,774.6	4,745.6	19.4	17.5	-153.58	252.1	330.6	312.5	279.6	32.90	9.500	
4,900.0	4,835.1	4,869.4	4,840.3	19.8	17.7	-154.67	253.7	332.9	327.6	293.8	33.72	9.714	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,933.2	4,963.6	4,934.5	20.3	17.9	-155.83	254.4	333.9	344.0	309.5	34.50	9.970		
5,100.0	5,031.4	5,060.5	5,031.4	20.7	18.0	-157.04	254.4	334.0	361.5	326.2	35.28	10.247		
5,129.1	5,060.0	5,089.1	5,060.0	20.9	18.0	-157.38	254.4	334.0	366.6	331.1	35.49	10.329		
5,200.0	5,129.6	5,158.8	5,129.6	21.2	18.1	-158.19	254.4	334.0	378.8	342.8	36.00	10.521		
5,300.0	5,228.2	5,257.3	5,228.2	21.6	18.1	-159.16	254.4	334.0	394.6	357.9	36.69	10.756		
5,400.0	5,327.0	5,356.1	5,327.0	22.0	18.2	-159.97	254.4	334.0	409.0	371.6	37.34	10.953		
5,500.0	5,426.1	5,455.2	5,426.1	22.5	18.2	-160.64	254.4	334.0	421.8	383.8	37.96	11.111		
5,600.0	5,525.4	5,554.5	5,525.4	22.9	18.3	-161.20	254.4	334.0	432.9	394.4	38.54	11.233		
5,700.0	5,624.9	5,654.0	5,624.9	23.3	18.3	-161.65	254.4	334.0	442.5	403.4	39.09	11.319		
5,800.0	5,724.5	5,753.6	5,724.5	23.6	18.4	-162.01	254.4	334.0	450.4	410.8	39.61	11.371		
5,900.0	5,824.3	5,853.4	5,824.3	24.0	18.5	-162.28	254.4	334.0	456.7	416.6	40.10	11.390		
6,000.0	5,924.2	5,953.3	5,924.2	24.3	18.5	-162.48	254.4	334.0	461.4	420.8	40.55	11.378		
6,100.0	6,024.1	6,053.3	6,024.1	24.6	18.6	-162.61	254.4	334.0	464.4	423.4	40.95	11.339		
6,200.0	6,124.1	6,153.2	6,124.1	24.9	18.6	-162.66	254.4	334.0	465.7	424.4	41.28	11.281		
6,229.1	6,153.3	6,182.4	6,153.3	24.9	18.6	-90.66	254.4	334.0	465.8	424.4	41.33	11.270		
6,300.0	6,224.1	6,253.2	6,224.1	24.9	18.7	-90.66	254.4	334.0	465.8	424.4	41.38	11.255		
6,400.0	6,324.1	6,353.2	6,324.1	25.0	18.7	-90.66	254.4	334.0	465.8	424.3	41.47	11.230		
6,500.0	6,424.1	6,453.2	6,424.1	25.0	18.8	-90.66	254.4	334.0	465.8	424.2	41.57	11.205		
6,600.0	6,524.1	6,553.2	6,524.1	25.0	18.8	-90.66	254.4	334.0	465.8	424.1	41.66	11.180		
6,700.0	6,624.1	6,653.2	6,624.1	25.1	18.9	-90.66	254.4	334.0	465.8	424.0	41.75	11.155		
6,800.0	6,724.1	6,753.2	6,724.1	25.1	19.0	-90.66	254.4	334.0	465.8	423.9	41.84	11.130		
6,900.0	6,824.1	6,853.2	6,824.1	25.2	19.0	-90.66	254.4	334.0	465.8	423.8	41.94	11.106		
7,000.0	6,924.1	6,953.2	6,924.1	25.2	19.1	-90.66	254.4	334.0	465.8	423.7	42.03	11.081		
7,100.0	7,024.1	7,053.2	7,024.1	25.2	19.1	-90.66	254.4	334.0	465.8	423.6	42.13	11.056		
7,200.0	7,124.1	7,153.2	7,124.1	25.3	19.2	-90.66	254.4	334.0	465.8	423.5	42.22	11.031		
7,300.0	7,224.1	7,253.2	7,224.1	25.3	19.2	-90.66	254.4	334.0	465.8	423.4	42.32	11.006		
7,400.0	7,324.1	7,353.2	7,324.1	25.3	19.3	-90.66	254.4	334.0	465.8	423.3	42.41	10.981		
7,500.0	7,424.1	7,453.2	7,424.1	25.4	19.4	-90.66	254.4	334.0	465.8	423.2	42.51	10.957		
7,600.0	7,524.1	7,553.2	7,524.1	25.4	19.4	-90.66	254.4	334.0	465.8	423.1	42.60	10.932		
7,700.0	7,624.1	7,653.2	7,624.1	25.5	19.5	-90.66	254.4	334.0	465.8	423.0	42.70	10.907		
7,800.0	7,724.1	7,753.2	7,724.1	25.5	19.5	-90.66	254.4	334.0	465.8	423.0	42.80	10.882		
7,900.0	7,824.1	7,853.2	7,824.1	25.5	19.6	-90.66	254.4	334.0	465.8	422.9	42.90	10.858		
8,000.0	7,924.1	7,953.2	7,924.1	25.6	19.6	-90.66	254.4	334.0	465.8	422.8	42.99	10.833		
8,100.0	8,024.1	8,053.2	8,024.1	25.6	19.7	-90.66	254.4	334.0	465.8	422.7	43.09	10.808		
8,200.0	8,124.1	8,153.2	8,124.1	25.7	19.8	-90.66	254.4	334.0	465.8	422.6	43.19	10.783		
8,300.0	8,224.1	8,253.2	8,224.1	25.7	19.8	-90.66	254.4	334.0	465.8	422.5	43.29	10.759		
8,400.0	8,324.1	8,353.2	8,324.1	25.7	19.9	-90.66	254.4	334.0	465.8	422.4	43.39	10.734		
8,500.0	8,424.1	8,453.2	8,424.1	25.8	19.9	-90.66	254.4	334.0	465.8	422.3	43.49	10.709		
8,600.0	8,524.1	8,553.2	8,524.1	25.8	20.0	-90.66	254.4	334.0	465.8	422.2	43.59	10.685		
8,700.0	8,624.1	8,653.2	8,624.1	25.9	20.1	-90.66	254.4	334.0	465.8	422.1	43.69	10.660		
8,800.0	8,724.1	8,753.2	8,724.1	25.9	20.1	-90.66	254.4	334.0	465.8	422.0	43.79	10.635		
8,900.0	8,824.1	8,853.2	8,824.1	26.0	20.2	-90.66	254.4	334.0	465.8	421.9	43.89	10.611		
9,000.0	8,924.1	8,953.2	8,924.1	26.0	20.2	-90.66	254.4	334.0	465.8	421.8	44.00	10.586		
9,100.0	9,024.1	9,053.2	9,024.1	26.0	20.3	-90.66	254.4	334.0	465.8	421.7	44.10	10.562		
9,200.0	9,124.1	9,153.2	9,124.1	26.1	20.4	-90.66	254.4	334.0	465.8	421.6	44.20	10.537		
9,300.0	9,224.1	9,253.2	9,224.1	26.1	20.4	-90.66	254.4	334.0	465.8	421.4	44.30	10.513		
9,400.0	9,324.1	9,353.2	9,324.1	26.2	20.5	-90.66	254.4	334.0	465.8	421.3	44.41	10.489		
9,500.0	9,424.1	9,453.2	9,424.1	26.2	20.5	-90.66	254.4	334.0	465.8	421.2	44.51	10.464		
9,600.0	9,524.1	9,553.2	9,524.1	26.2	20.6	-90.66	254.4	334.0	465.8	421.1	44.61	10.440		
9,700.0	9,624.1	9,653.2	9,624.1	26.3	20.7	-90.66	254.4	334.0	465.8	421.0	44.72	10.415		
9,800.0	9,724.1	9,753.2	9,724.1	26.3	20.7	-90.66	254.4	334.0	465.8	420.9	44.82	10.391		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,824.1	9,853.2	9,824.1	26.4	20.8	-90.66	254.4	334.0	465.8	420.8	44.93	10.367	
10,000.0	9,924.1	9,953.2	9,924.1	26.4	20.8	-90.66	254.4	334.0	465.8	420.7	45.03	10.343	
10,100.0	10,024.1	10,053.2	10,024.1	26.5	20.9	-90.66	254.4	334.0	465.8	420.6	45.14	10.319	
10,200.0	10,124.1	10,153.2	10,124.1	26.5	21.0	-90.66	254.4	334.0	465.8	420.5	45.24	10.294	
10,300.0	10,224.1	10,253.2	10,224.1	26.6	21.0	-90.66	254.4	334.0	465.8	420.4	45.35	10.270	
10,400.0	10,324.1	10,353.2	10,324.1	26.6	21.1	-90.66	254.4	334.0	465.8	420.3	45.46	10.246	
10,500.0	10,424.1	10,453.2	10,424.1	26.6	21.2	-90.66	254.4	334.0	465.8	420.2	45.56	10.222	
10,600.0	10,524.1	10,553.2	10,524.1	26.7	21.2	-90.66	254.4	334.0	465.8	420.1	45.67	10.198	
10,700.0	10,624.1	10,653.2	10,624.1	26.7	21.3	-90.66	254.4	334.0	465.8	420.0	45.78	10.174	
10,800.0	10,724.1	10,753.2	10,724.1	26.8	21.3	-90.66	254.4	334.0	465.8	419.9	45.89	10.150	
10,900.0	10,824.1	10,853.2	10,824.1	26.8	21.4	-90.66	254.4	334.0	465.8	419.8	45.99	10.127	
11,000.0	10,924.1	10,953.2	10,924.1	26.9	21.5	-90.66	254.4	334.0	465.8	419.6	46.10	10.103	
11,100.0	11,024.1	11,053.2	11,024.1	26.9	21.5	-90.66	254.4	334.0	465.8	419.5	46.21	10.079	
11,200.0	11,124.1	11,153.2	11,124.1	27.0	21.6	-90.66	254.4	334.0	465.8	419.4	46.32	10.055	
11,248.4	11,172.5	11,201.6	11,172.5	27.0	21.6	-90.66	254.4	334.0	465.8	419.4	46.36	10.046	
11,250.0	11,174.1	11,203.2	11,174.1	27.0	21.6	88.54	254.4	334.0	465.8	419.4	46.36	10.046	
11,275.0	11,199.1	11,228.2	11,199.1	27.0	21.6	88.63	254.4	334.0	465.7	419.4	46.37	10.045	
11,300.0	11,224.0	11,253.1	11,224.0	26.9	21.7	88.88	254.4	334.0	465.7	419.4	46.33	10.051	
11,325.0	11,248.8	11,277.9	11,248.8	26.9	21.7	89.30	254.4	334.0	465.6	419.4	46.27	10.064	
11,350.0	11,273.4	11,302.5	11,273.4	26.9	21.7	89.86	254.4	334.0	465.6	419.4	46.18	10.083	
11,355.2	11,278.5	11,307.6	11,278.5	26.9	21.7	90.00	254.4	334.0	465.6	419.4	46.15	10.088	
11,375.0	11,297.6	11,326.8	11,297.6	26.8	21.7	90.57	254.4	334.0	465.6	419.6	46.05	10.110	
11,400.0	11,321.6	11,350.7	11,321.6	26.8	21.7	91.40	254.4	334.0	465.8	419.8	45.90	10.146	
11,425.0	11,345.1	11,374.4	11,345.2	26.8	21.7	92.34	254.4	334.0	466.0	420.3	45.72	10.192	
11,450.0	11,368.2	11,399.1	11,369.9	26.7	21.7	93.37	253.6	334.0	466.5	421.0	45.54	10.245	
11,475.0	11,390.7	11,424.3	11,395.0	26.7	21.7	94.39	251.5	333.9	467.2	421.8	45.35	10.300	
11,500.0	11,412.6	11,450.0	11,420.5	26.6	21.6	95.41	248.0	333.9	468.0	422.8	45.18	10.357	
11,525.0	11,433.9	11,476.3	11,446.3	26.6	21.6	96.43	243.0	333.8	468.9	423.9	45.03	10.413	
11,550.0	11,454.5	11,503.2	11,472.4	26.6	21.5	97.44	236.4	333.8	470.0	425.1	44.91	10.467	
11,575.0	11,474.2	11,530.7	11,498.6	26.5	21.4	98.44	228.2	333.7	471.3	426.5	44.81	10.519	
11,600.0	11,493.2	11,558.8	11,524.9	26.5	21.4	99.43	218.2	333.5	472.7	427.9	44.74	10.566	
11,625.0	11,511.3	11,587.7	11,551.2	26.5	21.3	100.41	206.4	333.4	474.2	429.5	44.71	10.606	
11,650.0	11,528.4	11,617.2	11,577.4	26.5	21.3	101.36	192.7	333.3	475.8	431.0	44.72	10.640	
11,675.0	11,544.6	11,647.5	11,603.3	26.4	21.2	102.29	176.9	333.1	477.4	432.7	44.77	10.664	
11,700.0	11,559.7	11,678.5	11,628.7	26.4	21.1	103.20	159.1	332.9	479.1	434.3	44.88	10.677	
11,725.0	11,573.8	11,710.4	11,653.5	26.4	21.1	104.08	139.2	332.6	480.9	435.9	45.03	10.679	
11,750.0	11,586.8	11,743.0	11,677.6	26.4	21.0	104.92	117.1	332.4	482.7	437.4	45.24	10.668	
11,775.0	11,598.7	11,776.4	11,700.5	26.4	21.0	105.72	92.9	332.1	484.4	438.9	45.51	10.645	
11,800.0	11,609.3	11,810.6	11,722.2	26.4	20.9	106.47	66.4	331.8	486.1	440.3	45.82	10.609	
11,825.0	11,618.8	11,845.6	11,742.4	26.4	20.9	107.17	37.9	331.5	487.7	441.5	46.18	10.561	
11,850.0	11,627.1	11,881.3	11,760.7	26.4	20.8	107.81	7.3	331.1	489.2	442.6	46.58	10.502	
11,875.0	11,634.1	11,917.7	11,777.1	26.4	20.8	108.39	-25.2	330.8	490.5	443.5	47.01	10.434	
11,900.0	11,639.9	11,954.7	11,791.1	26.4	20.8	108.89	-59.5	330.4	491.7	444.3	47.47	10.359	
11,925.0	11,644.3	11,992.3	11,802.6	26.4	20.8	109.32	-95.3	330.0	492.8	444.8	47.94	10.280	
11,950.0	11,647.5	12,030.4	11,811.3	26.5	20.8	109.66	-132.3	329.6	493.6	445.2	48.40	10.197	
11,975.0	11,649.4	12,068.8	11,817.0	26.5	20.9	109.92	-170.3	329.1	494.1	445.3	48.86	10.114	
11,998.4	11,650.0	12,105.0	11,819.7	26.5	20.9	110.07	-206.4	328.7	494.5	445.2	49.26	10.038	
12,000.0	11,650.0	12,107.5	11,819.8	26.5	20.9	110.08	-208.9	328.7	494.5	445.2	49.29	10.032	
12,100.0	11,650.0	12,212.5	11,820.0	26.7	21.0	110.12	-313.9	327.5	494.3	444.3	49.99	9.888	
12,200.0	11,650.0	12,312.5	11,820.0	26.8	21.2	110.13	-413.9	326.3	494.1	443.4	50.66	9.753	
12,300.0	11,650.0	12,412.5	11,820.0	27.1	21.4	110.14	-513.9	325.2	493.8	442.4	51.38	9.611	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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
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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,400.0	11,650.0	12,512.5	11,820.0	27.3	21.7	110.15	-613.9	324.1	493.6	441.4	52.17	9.462
12,500.0	11,650.0	12,612.5	11,820.0	27.6	22.0	110.16	-713.9	322.9	493.3	440.3	53.00	9.308
12,600.0	11,650.0	12,712.5	11,820.0	27.9	22.3	110.17	-813.9	321.8	493.1	439.2	53.89	9.150
12,700.0	11,650.0	12,812.5	11,820.0	28.2	22.7	110.18	-913.9	320.6	492.8	438.0	54.83	8.989
12,800.0	11,650.0	12,912.5	11,820.0	28.5	23.1	110.19	-1,013.9	319.5	492.6	436.8	55.81	8.827
12,900.0	11,650.0	13,012.5	11,820.0	28.9	23.5	110.20	-1,113.9	318.4	492.4	435.5	56.84	8.663
13,000.0	11,650.0	13,112.5	11,820.0	29.3	24.0	110.21	-1,213.8	317.2	492.1	434.2	57.90	8.499
13,100.0	11,650.0	13,212.5	11,820.0	29.8	24.4	110.22	-1,313.8	316.1	491.9	432.9	59.01	8.335
13,200.0	11,650.0	13,312.5	11,820.0	30.2	25.0	110.23	-1,413.8	314.9	491.6	431.5	60.16	8.173
13,300.0	11,650.0	13,412.5	11,820.0	30.7	25.5	110.24	-1,513.8	313.8	491.4	430.1	61.34	8.012
13,400.0	11,650.0	13,512.5	11,820.0	31.2	26.1	110.25	-1,613.8	312.7	491.2	428.6	62.55	7.852
13,500.0	11,650.0	13,612.5	11,820.0	31.7	26.7	110.26	-1,713.8	311.5	490.9	427.1	63.79	7.696
13,600.0	11,650.0	13,712.5	11,820.0	32.2	27.3	110.27	-1,813.8	310.4	490.7	425.6	65.07	7.541
13,700.0	11,650.0	13,812.5	11,820.0	32.8	27.9	110.28	-1,913.8	309.3	490.4	424.1	66.37	7.390
13,800.0	11,650.0	13,912.5	11,820.0	33.4	28.6	110.29	-2,013.8	308.1	490.2	422.5	67.69	7.242
13,900.0	11,650.0	14,012.5	11,820.0	33.9	29.3	110.30	-2,113.8	307.0	490.0	420.9	69.04	7.096
14,000.0	11,650.0	14,112.5	11,820.0	34.5	29.9	110.31	-2,213.8	305.8	489.7	419.3	70.42	6.955
14,100.0	11,650.0	14,212.5	11,820.0	35.2	30.7	110.32	-2,313.8	304.7	489.5	417.7	71.81	6.816
14,200.0	11,650.0	14,312.5	11,820.0	35.8	31.4	110.33	-2,413.8	303.6	489.2	416.0	73.23	6.681
14,300.0	11,650.0	14,412.5	11,820.0	36.5	32.1	110.34	-2,513.8	302.4	489.0	414.3	74.66	6.549
14,400.0	11,650.0	14,512.5	11,820.0	37.1	32.9	110.35	-2,613.8	301.3	488.8	412.6	76.12	6.421
14,500.0	11,650.0	14,612.5	11,820.0	37.8	33.6	110.36	-2,713.7	300.1	488.5	410.9	77.59	6.296
14,600.0	11,650.0	14,712.5	11,820.0	38.5	34.4	110.38	-2,813.7	299.0	488.3	409.2	79.07	6.175
14,700.0	11,650.0	14,812.5	11,820.0	39.2	35.2	110.39	-2,913.7	297.9	488.0	407.5	80.58	6.057
14,800.0	11,650.0	14,912.5	11,820.0	39.9	35.9	110.40	-3,013.7	296.7	487.8	405.7	82.09	5.942
14,900.0	11,650.0	15,012.5	11,820.0	40.6	36.7	110.41	-3,113.7	295.6	487.6	403.9	83.62	5.830
15,000.0	11,650.0	15,112.5	11,820.0	41.3	37.5	110.42	-3,213.7	294.4	487.3	402.1	85.16	5.722
15,100.0	11,650.0	15,212.5	11,820.0	42.1	38.3	110.43	-3,313.7	293.3	487.1	400.4	86.72	5.617
15,200.0	11,650.0	15,312.5	11,820.0	42.8	39.2	110.44	-3,413.7	292.2	486.8	398.5	88.29	5.514
15,300.0	11,650.0	15,412.5	11,820.0	43.6	40.0	110.45	-3,513.7	291.0	486.6	396.7	89.86	5.415
15,400.0	11,650.0	15,512.5	11,820.0	44.3	40.8	110.46	-3,613.7	289.9	486.4	394.9	91.45	5.318
15,500.0	11,650.0	15,612.5	11,820.0	45.1	41.6	110.47	-3,713.7	288.7	486.1	393.1	93.05	5.224
15,600.0	11,650.0	15,712.5	11,820.0	45.9	42.5	110.48	-3,813.7	287.6	485.9	391.2	94.65	5.133
15,700.0	11,650.0	15,812.5	11,820.0	46.7	43.3	110.49	-3,913.7	286.5	485.6	389.4	96.27	5.044
15,800.0	11,650.0	15,912.5	11,820.0	47.5	44.2	110.50	-4,013.7	285.3	485.4	387.5	97.89	4.958
15,900.0	11,650.0	16,012.5	11,820.0	48.3	45.0	110.51	-4,113.7	284.2	485.1	385.6	99.53	4.875
16,000.0	11,650.0	16,112.5	11,820.0	49.1	45.9	110.52	-4,213.6	283.0	484.9	383.7	101.17	4.793
16,100.0	11,650.0	16,212.5	11,820.0	49.9	46.8	110.53	-4,313.6	281.9	484.7	381.9	102.81	4.714
16,200.0	11,650.0	16,312.5	11,820.0	50.7	47.6	110.54	-4,413.6	280.8	484.4	380.0	104.47	4.637
16,300.0	11,650.0	16,412.5	11,820.0	51.5	48.5	110.55	-4,513.6	279.6	484.2	378.1	106.13	4.562
16,400.0	11,650.0	16,512.5	11,820.0	52.3	49.4	110.57	-4,613.6	278.5	483.9	376.2	107.79	4.490
16,500.0	11,650.0	16,612.5	11,820.0	53.1	50.2	110.58	-4,713.6	277.3	483.7	374.2	109.46	4.419
16,600.0	11,650.0	16,712.5	11,820.0	54.0	51.1	110.59	-4,813.6	276.2	483.5	372.3	111.14	4.350
16,700.0	11,650.0	16,812.5	11,820.0	54.8	52.0	110.60	-4,913.6	275.1	483.2	370.4	112.82	4.283
16,800.0	11,650.0	16,912.5	11,820.0	55.7	52.9	110.61	-5,013.6	273.9	483.0	368.5	114.51	4.218
16,900.0	11,650.0	17,012.5	11,820.0	56.5	53.8	110.62	-5,113.6	272.8	482.7	366.5	116.21	4.154
17,000.0	11,650.0	17,112.5	11,820.0	57.3	54.7	110.63	-5,213.6	271.7	482.5	364.6	117.90	4.092
17,100.0	11,650.0	17,212.5	11,820.0	58.2	55.6	110.64	-5,313.6	270.5	482.3	362.7	119.61	4.032
17,200.0	11,650.0	17,312.5	11,820.0	59.0	56.5	110.65	-5,413.6	269.4	482.0	360.7	121.31	3.973
17,300.0	11,650.0	17,412.5	11,820.0	59.9	57.3	110.66	-5,513.6	268.2	481.8	358.8	123.02	3.916
17,400.0	11,650.0	17,512.5	11,820.0	60.8	58.2	110.67	-5,613.5	267.1	481.5	356.8	124.74	3.860

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Reference (usft)	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)			
17,500.0	11,650.0	17,612.5	11,820.0	61.6	59.1	110.68	-5,713.5	266.0	481.3	354.8	126.46	3.806	
17,600.0	11,650.0	17,712.5	11,820.0	62.5	60.0	110.69	-5,813.5	264.8	481.1	352.9	128.18	3.753	
17,700.0	11,650.0	17,812.5	11,820.0	63.4	61.0	110.71	-5,913.5	263.7	480.8	350.9	129.91	3.701	
17,800.0	11,650.0	17,912.5	11,820.0	64.2	61.9	110.72	-6,013.5	262.5	480.6	349.0	131.64	3.651	
17,900.0	11,650.0	18,012.5	11,820.0	65.1	62.8	110.73	-6,113.5	261.4	480.3	347.0	133.37	3.602	
18,000.0	11,650.0	18,112.5	11,820.0	66.0	63.7	110.74	-6,213.5	260.3	480.1	345.0	135.10	3.554	
18,100.0	11,650.0	18,212.5	11,820.0	66.9	64.6	110.75	-6,313.5	259.1	479.9	343.0	136.84	3.507	
18,200.0	11,650.0	18,312.5	11,820.0	67.7	65.5	110.76	-6,413.5	258.0	479.6	341.0	138.58	3.461	
18,300.0	11,650.0	18,412.5	11,820.0	68.6	66.4	110.77	-6,513.5	256.8	479.4	339.1	140.33	3.416	
18,400.0	11,650.0	18,512.5	11,820.0	69.5	67.3	110.78	-6,613.5	255.7	479.1	337.1	142.07	3.373	
18,500.0	11,650.0	18,612.5	11,820.0	70.4	68.2	110.79	-6,713.5	254.6	478.9	335.1	143.82	3.330	
18,600.0	11,650.0	18,712.5	11,820.0	71.3	69.1	110.80	-6,813.5	253.4	478.7	333.1	145.57	3.288	
18,700.0	11,650.0	18,812.5	11,820.0	72.2	70.1	110.81	-6,913.5	252.3	478.4	331.1	147.33	3.247	
18,800.0	11,650.0	18,912.5	11,820.0	73.0	71.0	110.82	-7,013.5	251.1	478.2	329.1	149.08	3.207	
18,900.0	11,650.0	19,012.5	11,820.0	73.9	71.9	110.84	-7,113.4	250.0	477.9	327.1	150.84	3.169	
19,000.0	11,650.0	19,112.5	11,820.0	74.8	72.8	110.85	-7,213.4	248.9	477.7	325.1	152.60	3.130	
19,100.0	11,650.0	19,212.5	11,820.0	75.7	73.7	110.86	-7,313.4	247.7	477.5	323.1	154.36	3.093	
19,195.3	11,650.0	19,307.8	11,820.0	76.6	74.6	110.87	-7,408.7	246.6	477.2	321.2	156.05	3.058	
19,196.1	11,650.0	19,308.6	11,820.0	76.6	74.6	110.87	-7,409.5	246.6	477.2	321.2	156.05	3.058	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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	89.20	0.4	30.0	30.0	23.6	6.43	4.666	
100.0	100.0	100.0	100.0	3.2	3.2	89.20	0.4	30.0	30.0	23.1	6.89	4.353	
200.0	200.0	200.0	200.0	3.5	3.5	89.20	0.4	30.0	30.0	22.7	7.33	4.094	
300.0	300.0	300.0	300.0	3.7	3.7	89.20	0.4	30.0	30.0	22.3	7.74	3.875	
400.0	400.0	400.0	400.0	3.9	3.9	89.20	0.4	30.0	30.0	21.9	8.14	3.688	
500.0	500.0	500.0	500.0	4.1	4.1	89.20	0.4	30.0	30.0	21.5	8.51	3.524	
600.0	600.0	600.0	600.0	4.2	4.2	89.20	0.4	30.0	30.0	21.1	8.88	3.379	
700.0	700.0	700.0	700.0	4.4	4.4	89.20	0.4	30.0	30.0	20.8	9.23	3.250	
800.0	800.0	800.0	800.0	4.6	4.6	89.20	0.4	30.0	30.0	20.4	9.57	3.135	
900.0	900.0	900.0	900.0	4.8	4.8	89.20	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	89.20	0.4	30.0	30.0	19.8	10.22	2.934 CC	
1,100.0	1,100.0	1,099.0	1,099.0	5.2	5.2	17.43	0.8	31.7	30.0	19.3	10.70	2.804	
1,200.0	1,199.8	1,198.0	1,197.8	5.4	5.4	18.12	2.1	36.6	30.1	18.9	11.18	2.690	
1,300.0	1,299.5	1,297.0	1,296.4	5.7	5.7	19.26	4.1	44.9	30.2	18.5	11.66	2.586	
1,400.0	1,398.7	1,396.0	1,394.7	6.0	6.0	20.84	7.0	56.5	30.3	18.1	12.16	2.492	
1,500.0	1,497.5	1,495.0	1,492.5	6.3	6.3	22.84	10.7	71.4	30.5	17.8	12.67	2.408	
1,550.0	1,546.6	1,544.5	1,541.2	6.4	6.4	24.00	12.9	80.0	30.7	17.8	12.87	2.382 ES, SF	
1,600.0	1,595.7	1,594.0	1,589.7	6.5	6.6	24.91	15.3	89.5	31.2	18.2	13.07	2.389	
1,700.0	1,693.9	1,693.0	1,686.3	6.8	6.9	25.04	20.6	110.9	34.7	21.2	13.53	2.568	
1,800.0	1,792.0	1,792.9	1,783.4	7.1	7.2	24.53	26.2	133.5	39.3	25.2	14.11	2.787	
1,900.0	1,890.2	1,892.8	1,880.6	7.4	7.5	24.13	31.9	156.1	43.9	29.2	14.73	2.983	
2,000.0	1,988.4	1,992.7	1,977.7	7.7	7.8	23.81	37.5	178.8	48.5	33.2	15.37	3.157	
2,100.0	2,086.5	2,092.6	2,074.8	8.1	8.2	23.54	43.2	201.4	53.1	37.1	16.04	3.311	
2,200.0	2,184.7	2,192.5	2,172.0	8.4	8.5	23.31	48.8	224.0	57.7	41.0	16.74	3.448	
2,300.0	2,282.8	2,292.4	2,269.1	8.8	8.9	23.12	54.4	246.6	62.3	44.9	17.46	3.570	
2,400.0	2,381.0	2,392.3	2,366.2	9.2	9.3	22.96	60.1	269.3	66.9	48.7	18.19	3.679	
2,500.0	2,479.2	2,492.2	2,463.4	9.5	9.7	22.81	65.7	291.9	71.5	52.6	18.94	3.776	
2,600.0	2,577.3	2,592.1	2,560.5	9.9	10.1	22.69	71.4	314.5	76.1	56.4	19.71	3.863	
2,700.0	2,675.5	2,692.0	2,657.6	10.3	10.5	22.57	77.0	337.2	80.7	60.2	20.48	3.941	
2,800.0	2,773.7	2,791.9	2,754.8	10.7	10.9	22.47	82.6	359.8	85.3	64.1	21.27	4.011	
2,900.0	2,871.8	2,891.8	2,851.9	11.1	11.3	22.38	88.3	382.4	89.9	67.9	22.07	4.074	
3,000.0	2,970.0	2,991.7	2,949.0	11.5	11.8	22.30	93.9	405.0	94.5	71.6	22.88	4.131	
3,100.0	3,068.1	3,091.5	3,046.2	12.0	12.2	22.23	99.6	427.7	99.1	75.4	23.70	4.183	
3,200.0	3,166.3	3,191.4	3,143.3	12.4	12.6	22.16	105.2	450.3	103.7	79.2	24.52	4.231	
3,300.0	3,264.5	3,291.3	3,240.4	12.8	13.1	22.10	110.8	472.9	108.3	83.0	25.35	4.274	
3,400.0	3,362.6	3,391.2	3,337.6	13.2	13.5	22.04	116.5	495.5	112.9	86.8	26.19	4.313	
3,500.0	3,460.8	3,491.1	3,434.7	13.7	14.0	21.99	122.1	518.2	117.5	90.5	27.03	4.349	
3,600.0	3,559.0	3,591.0	3,531.8	14.1	14.4	21.94	127.8	540.8	122.1	94.3	27.87	4.382	
3,700.0	3,657.1	3,690.9	3,629.0	14.5	14.9	21.90	133.4	563.4	126.7	98.0	28.72	4.413	
3,800.0	3,755.3	3,790.8	3,726.1	15.0	15.3	21.86	139.1	586.1	131.3	101.8	29.58	4.441	
3,900.0	3,853.5	3,890.7	3,823.3	15.4	15.8	21.82	144.7	608.7	136.0	105.5	30.43	4.467	
4,000.0	3,951.6	3,990.6	3,920.4	15.8	16.2	21.78	150.3	631.3	140.6	109.3	31.30	4.491	
4,100.0	4,049.8	4,090.5	4,017.5	16.3	16.7	21.75	156.0	653.9	145.2	113.0	32.16	4.514	
4,200.0	4,147.9	4,190.4	4,114.7	16.7	17.1	21.72	161.6	676.6	149.8	116.7	33.03	4.535	
4,300.0	4,246.1	4,290.3	4,211.8	17.2	17.6	21.69	167.3	699.2	154.4	120.5	33.90	4.554	
4,400.0	4,344.3	4,390.2	4,308.9	17.6	18.1	21.66	172.9	721.8	159.0	124.2	34.77	4.572	
4,500.0	4,442.4	4,490.1	4,406.1	18.0	18.5	21.63	178.5	744.4	163.6	127.9	35.64	4.589	
4,600.0	4,540.6	4,590.0	4,503.2	18.5	19.0	21.61	184.2	767.1	168.2	131.7	36.52	4.605	
4,700.0	4,638.8	4,689.9	4,600.3	18.9	19.5	21.58	189.8	789.7	172.8	135.4	37.40	4.620	
4,800.0	4,736.9	4,789.7	4,697.5	19.4	19.9	21.56	195.5	812.3	177.4	139.1	38.28	4.634	
4,900.0	4,835.1	4,889.6	4,794.6	19.8	20.4	21.54	201.1	835.0	182.0	142.8	39.16	4.647	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,933.2	4,989.5	4,891.7	20.3	20.9	21.52	206.8	857.6	186.6	146.5	40.04	4.660		
5,100.0	5,031.4	5,089.4	4,988.9	20.7	21.3	21.50	212.4	880.2	191.2	150.3	40.93	4.671		
5,129.1	5,060.0	5,118.5	5,017.2	20.9	21.5	21.49	214.0	886.8	192.5	151.4	41.18	4.676		
5,200.0	5,129.6	5,189.3	5,086.0	21.2	21.8	21.45	218.0	902.8	196.2	154.4	41.80	4.693		
5,300.0	5,228.2	5,289.1	5,183.0	21.6	22.3	21.24	223.7	925.4	202.8	160.0	42.72	4.747		
5,400.0	5,327.0	5,388.7	5,279.9	22.0	22.7	20.88	229.3	948.0	211.0	167.3	43.65	4.833		
5,500.0	5,426.1	5,488.2	5,376.6	22.5	23.2	20.39	234.9	970.5	220.8	176.2	44.59	4.951		
5,600.0	5,525.4	5,587.5	5,473.2	22.9	23.7	19.81	240.5	993.0	232.3	186.7	45.54	5.100		
5,700.0	5,624.9	5,686.6	5,569.6	23.3	24.2	19.15	246.1	1,015.5	245.4	198.9	46.49	5.279		
5,800.0	5,724.5	5,785.5	5,665.7	23.6	24.6	18.45	251.7	1,037.9	260.2	212.8	47.44	5.486		
5,900.0	5,824.3	5,884.0	5,761.5	24.0	25.1	17.72	257.3	1,060.2	276.7	228.4	48.36	5.722		
6,000.0	5,924.2	5,982.3	5,857.0	24.3	25.6	16.98	262.8	1,082.4	294.9	245.6	49.27	5.985		
6,100.0	6,024.1	6,080.3	5,952.4	24.6	26.0	16.24	268.4	1,104.7	314.8	264.6	50.14	6.278		
6,200.0	6,124.1	6,183.8	6,053.3	24.9	26.5	15.51	274.0	1,127.2	335.4	284.4	51.00	6.577		
6,229.1	6,153.3	6,214.1	6,082.8	24.9	26.6	87.31	275.5	1,133.4	341.5	290.3	51.21	6.668		
6,300.0	6,224.1	6,287.9	6,155.0	24.9	27.0	86.82	279.2	1,148.0	355.7	304.0	51.65	6.886		
6,400.0	6,324.1	6,392.6	6,257.9	25.0	27.5	86.24	284.0	1,167.2	374.2	322.0	52.25	7.162		
6,500.0	6,424.1	6,498.1	6,361.8	25.0	27.9	85.77	288.3	1,184.7	391.0	338.2	52.82	7.403		
6,600.0	6,524.1	6,604.2	6,466.7	25.0	28.4	85.38	292.2	1,200.4	406.1	352.7	53.35	7.611		
6,700.0	6,624.1	6,710.9	6,572.4	25.1	28.9	85.06	295.7	1,214.2	419.3	365.5	53.85	7.787		
6,800.0	6,724.1	6,818.1	6,678.9	25.1	29.3	84.80	298.7	1,226.3	430.7	376.4	54.31	7.931		
6,900.0	6,824.1	6,925.7	6,786.0	25.2	29.7	84.59	301.2	1,236.4	440.3	385.6	54.73	8.045		
7,000.0	6,924.1	7,033.7	6,893.7	25.2	30.1	84.43	303.2	1,244.6	448.0	392.9	55.11	8.129		
7,100.0	7,024.1	7,141.9	7,001.7	25.2	30.5	84.31	304.8	1,250.8	453.9	398.4	55.45	8.186		
7,200.0	7,124.1	7,250.4	7,110.1	25.3	30.9	84.23	305.9	1,255.0	457.9	402.2	55.73	8.217		
7,300.0	7,224.1	7,359.0	7,218.6	25.3	31.2	84.19	306.4	1,257.3	460.0	404.1	55.93	8.225		
7,400.0	7,324.1	7,464.5	7,324.1	25.3	31.3	84.18	306.5	1,257.7	460.4	404.4	56.01	8.221		
7,500.0	7,424.1	7,564.5	7,424.1	25.4	31.3	84.18	306.5	1,257.7	460.4	404.3	56.07	8.211		
7,600.0	7,524.1	7,664.5	7,524.1	25.4	31.3	84.18	306.5	1,257.7	460.4	404.3	56.13	8.202		
7,700.0	7,624.1	7,764.5	7,624.1	25.5	31.4	84.18	306.5	1,257.7	460.4	404.2	56.20	8.192		
7,800.0	7,724.1	7,864.5	7,724.1	25.5	31.4	84.18	306.5	1,257.7	460.4	404.1	56.27	8.182		
7,900.0	7,824.1	7,964.5	7,824.1	25.5	31.4	84.18	306.5	1,257.7	460.4	404.1	56.33	8.173		
8,000.0	7,924.1	8,064.5	7,924.1	25.6	31.5	84.18	306.5	1,257.7	460.4	404.0	56.40	8.163		
8,100.0	8,024.1	8,164.5	8,024.1	25.6	31.5	84.18	306.5	1,257.7	460.4	403.9	56.47	8.153		
8,200.0	8,124.1	8,264.5	8,124.1	25.7	31.5	84.18	306.5	1,257.7	460.4	403.9	56.54	8.143		
8,300.0	8,224.1	8,364.5	8,224.1	25.7	31.6	84.18	306.5	1,257.7	460.4	403.8	56.61	8.133		
8,400.0	8,324.1	8,464.5	8,324.1	25.7	31.6	84.18	306.5	1,257.7	460.4	403.7	56.68	8.123		
8,500.0	8,424.1	8,564.5	8,424.1	25.8	31.6	84.18	306.5	1,257.7	460.4	403.7	56.75	8.113		
8,600.0	8,524.1	8,664.5	8,524.1	25.8	31.6	84.18	306.5	1,257.7	460.4	403.6	56.82	8.103		
8,700.0	8,624.1	8,764.5	8,624.1	25.9	31.7	84.18	306.5	1,257.7	460.4	403.5	56.89	8.093		
8,800.0	8,724.1	8,864.5	8,724.1	25.9	31.7	84.18	306.5	1,257.7	460.4	403.4	56.96	8.083		
8,900.0	8,824.1	8,964.5	8,824.1	26.0	31.7	84.18	306.5	1,257.7	460.4	403.4	57.03	8.073		
9,000.0	8,924.1	9,064.5	8,924.1	26.0	31.8	84.18	306.5	1,257.7	460.4	403.3	57.10	8.063		
9,100.0	9,024.1	9,164.5	9,024.1	26.0	31.8	84.18	306.5	1,257.7	460.4	403.2	57.17	8.053		
9,200.0	9,124.1	9,264.5	9,124.1	26.1	31.8	84.18	306.5	1,257.7	460.4	403.2	57.24	8.043		
9,300.0	9,224.1	9,364.5	9,224.1	26.1	31.9	84.18	306.5	1,257.7	460.4	403.1	57.31	8.033		
9,400.0	9,324.1	9,464.5	9,324.1	26.2	31.9	84.18	306.5	1,257.7	460.4	403.0	57.39	8.023		
9,500.0	9,424.1	9,564.5	9,424.1	26.2	31.9	84.18	306.5	1,257.7	460.4	402.9	57.46	8.013		
9,600.0	9,524.1	9,664.5	9,524.1	26.2	32.0	84.18	306.5	1,257.7	460.4	402.9	57.53	8.002		
9,700.0	9,624.1	9,764.5	9,624.1	26.3	32.0	84.18	306.5	1,257.7	460.4	402.8	57.61	7.992		
9,800.0	9,724.1	9,864.5	9,724.1	26.3	32.0	84.18	306.5	1,257.7	460.4	402.7	57.68	7.982		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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)		
9,900.0	9,824.1	9,964.5	9,824.1	26.4	32.1	84.18	306.5	1,257.7	460.4	402.6	57.76	7.971	
10,000.0	9,924.1	10,064.5	9,924.1	26.4	32.1	84.18	306.5	1,257.7	460.4	402.6	57.83	7.961	
10,100.0	10,024.1	10,164.5	10,024.1	26.5	32.1	84.18	306.5	1,257.7	460.4	402.5	57.91	7.951	
10,200.0	10,124.1	10,264.5	10,124.1	26.5	32.2	84.18	306.5	1,257.7	460.4	402.4	57.98	7.940	
10,300.0	10,224.1	10,364.5	10,224.1	26.6	32.2	84.18	306.5	1,257.7	460.4	402.3	58.06	7.930	
10,400.0	10,324.1	10,464.5	10,324.1	26.6	32.2	84.18	306.5	1,257.7	460.4	402.3	58.13	7.920	
10,500.0	10,424.1	10,564.5	10,424.1	26.6	32.3	84.18	306.5	1,257.7	460.4	402.2	58.21	7.909	
10,600.0	10,524.1	10,664.5	10,524.1	26.7	32.3	84.18	306.5	1,257.7	460.4	402.1	58.29	7.899	
10,700.0	10,624.1	10,764.5	10,624.1	26.7	32.3	84.18	306.5	1,257.7	460.4	402.0	58.36	7.888	
10,800.0	10,724.1	10,864.5	10,724.1	26.8	32.4	84.18	306.5	1,257.7	460.4	402.0	58.44	7.878	
10,900.0	10,824.1	10,964.5	10,824.1	26.8	32.4	84.18	306.5	1,257.7	460.4	401.9	58.52	7.867	
11,000.0	10,924.1	11,064.5	10,924.1	26.9	32.4	84.18	306.5	1,257.7	460.4	401.8	58.60	7.857	
11,100.0	11,024.1	11,164.5	11,024.1	26.9	32.5	84.18	306.5	1,257.7	460.4	401.7	58.68	7.846	
11,200.0	11,124.1	11,264.5	11,124.1	27.0	32.5	84.18	306.5	1,257.7	460.4	401.6	58.76	7.836	
11,248.4	11,172.5	11,312.8	11,172.5	27.0	32.5	84.18	306.5	1,257.7	460.4	401.6	58.79	7.832	
11,250.0	11,174.1	11,314.5	11,174.1	27.0	32.5	-96.62	306.5	1,257.7	460.4	401.6	58.79	7.831	
11,275.0	11,199.1	11,339.4	11,199.1	27.0	32.5	-96.70	306.5	1,257.7	460.5	401.7	58.81	7.830	
11,300.0	11,224.0	11,364.4	11,224.0	26.9	32.5	-96.92	306.5	1,257.7	460.7	401.9	58.83	7.831	
11,325.0	11,248.8	11,389.1	11,248.8	26.9	32.6	-97.28	306.5	1,257.7	461.1	402.3	58.88	7.833	
11,350.0	11,273.4	11,413.7	11,273.4	26.9	32.6	-97.77	306.5	1,257.7	461.8	402.8	58.93	7.836	
11,375.0	11,297.6	11,438.0	11,297.6	26.8	32.6	-98.38	306.5	1,257.7	462.6	403.6	58.99	7.843	
11,400.0	11,321.6	11,461.9	11,321.6	26.8	32.6	-99.08	306.5	1,257.7	463.8	404.7	59.05	7.854	
11,425.0	11,345.1	11,485.9	11,345.6	26.8	32.6	-99.89	306.5	1,257.7	465.2	406.1	59.10	7.871	
11,450.0	11,368.2	11,513.8	11,373.5	26.7	32.6	-100.88	305.5	1,257.7	467.0	407.9	59.05	7.907	
11,475.0	11,390.7	11,542.4	11,401.9	26.7	32.5	-101.85	302.8	1,257.8	468.8	409.9	58.95	7.953	
11,500.0	11,412.6	11,571.7	11,430.9	26.6	32.5	-102.79	298.3	1,257.8	470.9	412.1	58.80	8.008	
11,525.0	11,433.9	11,601.8	11,460.2	26.6	32.5	-103.71	291.8	1,257.9	473.0	414.4	58.61	8.071	
11,550.0	11,454.5	11,632.6	11,489.9	26.6	32.4	-104.60	283.2	1,258.0	475.3	416.9	58.37	8.141	
11,575.0	11,474.2	11,664.3	11,519.6	26.5	32.4	-105.45	272.5	1,258.2	477.6	419.5	58.10	8.220	
11,600.0	11,493.2	11,696.8	11,549.4	26.5	32.4	-106.26	259.4	1,258.4	479.9	422.1	57.80	8.304	
11,625.0	11,511.3	11,730.1	11,578.8	26.5	32.3	-107.03	243.9	1,258.6	482.3	424.8	57.46	8.393	
11,650.0	11,528.4	11,764.2	11,607.9	26.5	32.3	-107.74	226.0	1,258.8	484.7	427.5	57.11	8.487	
11,675.0	11,544.6	11,799.2	11,636.2	26.4	32.3	-108.40	205.5	1,259.1	487.0	430.2	56.74	8.583	
11,700.0	11,559.7	11,835.0	11,663.6	26.4	32.2	-109.00	182.5	1,259.4	489.2	432.8	56.35	8.680	
11,725.0	11,573.8	11,871.5	11,689.6	26.4	32.2	-109.52	156.9	1,259.8	491.3	435.3	55.97	8.777	
11,750.0	11,586.8	11,908.7	11,714.1	26.4	32.2	-109.96	128.9	1,260.2	493.2	437.6	55.59	8.872	
11,775.0	11,598.7	11,946.5	11,736.7	26.4	32.2	-110.33	98.5	1,260.6	495.0	439.8	55.23	8.964	
11,800.0	11,609.3	11,984.9	11,757.0	26.4	32.2	-110.60	66.0	1,261.1	496.6	441.7	54.87	9.050	
11,825.0	11,618.8	12,023.7	11,774.9	26.4	32.2	-110.78	31.6	1,261.5	498.0	443.5	54.54	9.131	
11,850.0	11,627.1	12,062.8	11,790.0	26.4	32.2	-110.87	-4.5	1,262.0	499.1	444.9	54.23	9.204	
11,875.0	11,634.1	12,102.2	11,802.2	26.4	32.2	-110.85	-41.9	1,262.6	500.0	446.1	53.95	9.268	
11,900.0	11,639.9	12,141.6	11,811.3	26.4	32.2	-110.74	-80.2	1,263.1	500.7	447.0	53.70	9.323	
11,925.0	11,644.3	12,180.9	11,817.1	26.4	32.2	-110.52	-119.1	1,263.6	501.0	447.6	53.49	9.368	
11,950.0	11,647.5	12,220.0	11,819.8	26.5	32.3	-110.22	-158.1	1,264.2	501.2	447.9	53.31	9.402	
11,966.0	11,648.9	12,242.1	11,820.0	26.5	32.3	-110.01	-180.2	1,264.5	501.2	447.9	53.24	9.413	
11,975.0	11,649.4	12,252.9	11,820.0	26.5	32.3	-109.93	-190.9	1,264.6	501.2	448.0	53.22	9.416	
11,998.4	11,650.0	12,280.8	11,820.0	26.5	32.3	-109.82	-218.9	1,264.6	501.3	448.2	53.15	9.433	
12,000.0	11,650.0	12,282.8	11,820.0	26.5	32.3	-109.82	-220.8	1,264.6	501.3	448.2	53.14	9.435	
12,100.0	11,650.0	12,389.4	11,820.0	26.7	32.5	-109.83	-327.5	1,263.0	501.2	448.3	52.92	9.472	
12,200.0	11,650.0	12,489.4	11,820.0	26.8	32.6	-109.84	-427.5	1,261.3	500.9	448.0	52.85	9.478	
12,300.0	11,650.0	12,589.4	11,820.0	27.1	32.8	-109.85	-527.5	1,259.5	500.6	447.7	52.84	9.472	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		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)			
12,400.0	11,650.0	12,689.4	11,820.0	27.3	33.1	-109.87	-627.4	1,257.8	500.2	447.3	52.90	9.455	
12,500.0	11,650.0	12,789.4	11,820.0	27.6	33.3	-109.88	-727.4	1,256.0	499.9	446.8	53.03	9.426	
12,600.0	11,650.0	12,889.4	11,820.0	27.9	33.6	-109.90	-827.4	1,254.3	499.5	446.3	53.22	9.386	
12,700.0	11,650.0	12,989.4	11,820.0	28.2	33.9	-109.91	-927.4	1,252.5	499.2	445.7	53.47	9.336	
12,800.0	11,650.0	13,089.4	11,820.0	28.5	34.2	-109.92	-1,027.4	1,250.7	498.9	445.1	53.79	9.275	
12,900.0	11,650.0	13,189.4	11,820.0	28.9	34.5	-109.94	-1,127.4	1,249.0	498.5	444.4	54.16	9.204	
13,000.0	11,650.0	13,289.4	11,820.0	29.3	34.9	-109.95	-1,227.3	1,247.2	498.2	443.6	54.60	9.124	
13,100.0	11,650.0	13,389.4	11,820.0	29.8	35.3	-109.97	-1,327.3	1,245.5	497.8	442.7	55.09	9.036	
13,200.0	11,650.0	13,489.4	11,820.0	30.2	35.7	-109.98	-1,427.3	1,243.7	497.5	441.8	55.65	8.940	
13,300.0	11,650.0	13,589.4	11,820.0	30.7	36.1	-110.00	-1,527.3	1,242.0	497.2	440.9	56.25	8.838	
13,400.0	11,650.0	13,689.4	11,820.0	31.2	36.5	-110.01	-1,627.3	1,240.2	496.8	439.9	56.92	8.729	
13,500.0	11,650.0	13,789.4	11,820.0	31.7	37.0	-110.02	-1,727.3	1,238.4	496.5	438.8	57.63	8.615	
13,600.0	11,650.0	13,889.4	11,820.0	32.2	37.5	-110.04	-1,827.2	1,236.7	496.1	437.7	58.39	8.497	
13,700.0	11,650.0	13,989.4	11,820.0	32.8	38.0	-110.05	-1,927.2	1,234.9	495.8	436.6	59.20	8.375	
13,800.0	11,650.0	14,089.4	11,820.0	33.4	38.5	-110.07	-2,027.2	1,233.2	495.5	435.4	60.06	8.250	
13,900.0	11,650.0	14,189.4	11,820.0	33.9	39.0	-110.08	-2,127.2	1,231.4	495.1	434.2	60.96	8.122	
14,000.0	11,650.0	14,289.4	11,820.0	34.5	39.5	-110.10	-2,227.2	1,229.7	494.8	432.9	61.90	7.993	
14,100.0	11,650.0	14,389.4	11,820.0	35.2	40.1	-110.11	-2,327.2	1,227.9	494.4	431.6	62.88	7.863	
14,200.0	11,650.0	14,489.4	11,820.0	35.8	40.7	-110.12	-2,427.1	1,226.1	494.1	430.2	63.90	7.732	
14,300.0	11,650.0	14,589.4	11,820.0	36.5	41.3	-110.14	-2,527.1	1,224.4	493.8	428.8	64.96	7.601	
14,400.0	11,650.0	14,689.4	11,820.0	37.1	41.9	-110.15	-2,627.1	1,222.6	493.4	427.4	66.05	7.471	
14,500.0	11,650.0	14,789.4	11,820.0	37.8	42.5	-110.17	-2,727.1	1,220.9	493.1	425.9	67.17	7.341	
14,600.0	11,650.0	14,889.4	11,820.0	38.5	43.1	-110.18	-2,827.1	1,219.1	492.7	424.4	68.33	7.211	
14,700.0	11,650.0	14,989.4	11,820.0	39.2	43.7	-110.20	-2,927.1	1,217.4	492.4	422.9	69.51	7.084	
14,800.0	11,650.0	15,089.4	11,820.0	39.9	44.4	-110.21	-3,027.1	1,215.6	492.1	421.3	70.72	6.957	
14,900.0	11,650.0	15,189.4	11,820.0	40.6	45.0	-110.23	-3,127.0	1,213.8	491.7	419.8	71.96	6.833	
15,000.0	11,650.0	15,289.4	11,820.0	41.3	45.7	-110.24	-3,227.0	1,212.1	491.4	418.2	73.23	6.710	
15,100.0	11,650.0	15,389.4	11,820.0	42.1	46.4	-110.26	-3,327.0	1,210.3	491.0	416.5	74.52	6.590	
15,200.0	11,650.0	15,489.4	11,820.0	42.8	47.1	-110.27	-3,427.0	1,208.6	490.7	414.9	75.83	6.471	
15,300.0	11,650.0	15,589.4	11,820.0	43.6	47.8	-110.28	-3,527.0	1,206.8	490.4	413.2	77.16	6.355	
15,400.0	11,650.0	15,689.4	11,820.0	44.3	48.5	-110.30	-3,627.0	1,205.1	490.0	411.5	78.52	6.241	
15,500.0	11,650.0	15,789.4	11,820.0	45.1	49.2	-110.31	-3,726.9	1,203.3	489.7	409.8	79.89	6.130	
15,600.0	11,650.0	15,889.4	11,820.0	45.9	49.9	-110.33	-3,826.9	1,201.5	489.4	408.1	81.28	6.020	
15,700.0	11,650.0	15,989.4	11,820.0	46.7	50.6	-110.34	-3,926.9	1,199.8	489.0	406.3	82.69	5.914	
15,800.0	11,650.0	16,089.4	11,820.0	47.5	51.4	-110.36	-4,026.9	1,198.0	488.7	404.6	84.12	5.809	
15,900.0	11,650.0	16,189.4	11,820.0	48.3	52.1	-110.37	-4,126.9	1,196.3	488.3	402.8	85.56	5.708	
16,000.0	11,650.0	16,289.4	11,820.0	49.1	52.8	-110.39	-4,226.9	1,194.5	488.0	401.0	87.01	5.608	
16,100.0	11,650.0	16,389.4	11,820.0	49.9	53.6	-110.40	-4,326.8	1,192.7	487.7	399.2	88.48	5.511	
16,200.0	11,650.0	16,489.4	11,820.0	50.7	54.4	-110.42	-4,426.8	1,191.0	487.3	397.3	89.97	5.417	
16,300.0	11,650.0	16,589.4	11,820.0	51.5	55.1	-110.43	-4,526.8	1,189.2	487.0	395.5	91.47	5.324	
16,400.0	11,650.0	16,689.4	11,820.0	52.3	55.9	-110.45	-4,626.8	1,187.5	486.6	393.7	92.97	5.234	
16,500.0	11,650.0	16,789.4	11,820.0	53.1	56.7	-110.46	-4,726.8	1,185.7	486.3	391.8	94.50	5.146	
16,600.0	11,650.0	16,889.4	11,820.0	54.0	57.5	-110.48	-4,826.8	1,184.0	486.0	389.9	96.03	5.061	
16,700.0	11,650.0	16,989.4	11,820.0	54.8	58.3	-110.49	-4,926.7	1,182.2	485.6	388.1	97.57	4.977	
16,800.0	11,650.0	17,089.4	11,820.0	55.7	59.1	-110.51	-5,026.7	1,180.4	485.3	386.2	99.12	4.896	
16,900.0	11,650.0	17,189.4	11,820.0	56.5	59.9	-110.52	-5,126.7	1,178.7	484.9	384.3	100.68	4.817	
17,000.0	11,650.0	17,289.4	11,820.0	57.3	60.7	-110.54	-5,226.7	1,176.9	484.6	382.4	102.25	4.739	
17,100.0	11,650.0	17,389.4	11,820.0	58.2	61.5	-110.55	-5,326.7	1,175.2	484.3	380.4	103.83	4.664	
17,200.0	11,650.0	17,489.4	11,820.0	59.0	62.3	-110.57	-5,426.7	1,173.4	483.9	378.5	105.42	4.590	
17,300.0	11,650.0	17,589.4	11,820.0	59.9	63.1	-110.58	-5,526.6	1,171.7	483.6	376.6	107.02	4.519	
17,400.0	11,650.0	17,689.4	11,820.0	60.8	63.9	-110.60	-5,626.6	1,169.9	483.3	374.6	108.62	4.449	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,500.0	11,650.0	17,789.4	11,820.0	61.6	64.7	-110.61	-5,726.6	1,168.1	482.9	372.7	110.23	4.381	
17,600.0	11,650.0	17,889.4	11,820.0	62.5	65.6	-110.63	-5,826.6	1,166.4	482.6	370.7	111.85	4.315	
17,700.0	11,650.0	17,989.4	11,820.0	63.4	66.4	-110.64	-5,926.6	1,164.6	482.2	368.8	113.47	4.250	
17,800.0	11,650.0	18,089.4	11,820.0	64.2	67.2	-110.66	-6,026.6	1,162.9	481.9	366.8	115.10	4.187	
17,900.0	11,650.0	18,189.4	11,820.0	65.1	68.1	-110.67	-6,126.6	1,161.1	481.6	364.8	116.74	4.125	
18,000.0	11,650.0	18,289.4	11,820.0	66.0	68.9	-110.69	-6,226.5	1,159.4	481.2	362.8	118.38	4.065	
18,100.0	11,650.0	18,389.4	11,820.0	66.9	69.8	-110.70	-6,326.5	1,157.6	480.9	360.9	120.03	4.006	
18,200.0	11,650.0	18,489.4	11,820.0	67.7	70.6	-110.72	-6,426.5	1,155.8	480.6	358.9	121.68	3.949	
18,300.0	11,650.0	18,589.4	11,820.0	68.6	71.5	-110.73	-6,526.5	1,154.1	480.2	356.9	123.34	3.893	
18,400.0	11,650.0	18,689.4	11,820.0	69.5	72.3	-110.75	-6,626.5	1,152.3	479.9	354.9	125.00	3.839	
18,500.0	11,650.0	18,789.4	11,820.0	70.4	73.2	-110.76	-6,726.5	1,150.6	479.5	352.9	126.67	3.786	
18,600.0	11,650.0	18,889.4	11,820.0	71.3	74.0	-110.78	-6,826.4	1,148.8	479.2	350.9	128.34	3.734	
18,700.0	11,650.0	18,989.4	11,820.0	72.2	74.9	-110.79	-6,926.4	1,147.1	478.9	348.8	130.02	3.683	
18,800.0	11,650.0	19,089.4	11,820.0	73.0	75.7	-110.81	-7,026.4	1,145.3	478.5	346.8	131.70	3.633	
18,900.0	11,650.0	19,189.4	11,820.0	73.9	76.6	-110.82	-7,126.4	1,143.5	478.2	344.8	133.38	3.585	
19,000.0	11,650.0	19,289.4	11,820.0	74.8	77.5	-110.84	-7,226.4	1,141.8	477.8	342.8	135.07	3.538	
19,100.0	11,650.0	19,389.4	11,820.0	75.7	78.3	-110.86	-7,326.4	1,140.0	477.5	340.7	136.76	3.492	
19,186.5	11,650.0	19,474.3	11,820.0	76.5	79.1	-110.87	-7,411.3	1,138.5	477.2	339.0	138.22	3.453	
19,195.3	11,650.0	19,474.3	11,820.0	76.6	79.1	-110.87	-7,411.3	1,138.5	477.3	339.0	138.33	3.450	
19,196.1	11,650.0	19,474.3	11,820.0	76.6	79.1	-110.87	-7,411.3	1,138.5	477.3	338.9	138.37	3.449	

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #2H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 13-MWD+IFR1, 4170-MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
11,650.0	11,528.4	19,013.0	11,895.0	26.5	78.2	-104.88	47.4	1,724.3	998.2	885.0	113.17	8.820
11,675.0	11,544.6	19,013.0	11,895.0	26.4	78.2	-105.65	47.4	1,724.3	991.8	878.3	113.45	8.742
11,700.0	11,559.7	19,013.0	11,895.0	26.4	78.2	-106.30	47.4	1,724.3	986.3	872.6	113.69	8.675
11,725.0	11,573.8	19,013.0	11,895.0	26.4	78.2	-106.82	47.4	1,724.3	981.8	867.9	113.87	8.622
11,750.0	11,586.8	19,002.3	11,895.0	26.4	78.1	-106.92	36.8	1,724.5	978.2	864.3	113.88	8.590
11,775.0	11,598.7	18,980.4	11,894.9	26.4	77.9	-106.67	14.8	1,725.0	975.2	861.5	113.72	8.575
11,800.0	11,609.3	18,957.8	11,894.8	26.4	77.7	-106.39	-7.7	1,725.4	972.7	859.2	113.55	8.567
11,825.0	11,618.8	18,933.7	11,894.8	26.4	77.5	-106.09	-31.8	1,725.9	970.7	857.3	113.34	8.564
11,850.0	11,627.1	18,908.5	11,894.7	26.4	77.3	-105.79	-57.0	1,726.3	969.1	855.9	113.10	8.568
11,875.0	11,634.1	18,882.8	11,894.6	26.4	77.1	-105.50	-82.7	1,726.7	967.8	854.9	112.85	8.576
11,900.0	11,639.9	18,856.8	11,894.6	26.4	76.8	-105.25	-108.7	1,727.1	966.9	854.3	112.58	8.588
11,925.0	11,644.3	18,829.6	11,894.5	26.4	76.6	-105.03	-135.9	1,727.4	966.3	854.0	112.29	8.605
11,950.0	11,647.5	18,793.8	11,894.7	26.5	76.2	-104.82	-171.7	1,727.5	965.9	854.0	111.88	8.634
11,975.0	11,649.4	18,758.1	11,895.2	26.5	75.9	-104.73	-207.4	1,727.0	965.6	854.1	111.43	8.665
11,998.4	11,650.0	18,723.7	11,896.1	26.5	75.6	-104.77	-241.8	1,726.1	965.3	854.3	111.00	8.697
12,000.0	11,650.0	18,721.3	11,896.2	26.5	75.6	-104.78	-244.2	1,726.0	965.3	854.3	110.96	8.699
12,100.0	11,650.0	18,597.9	11,901.1	26.7	74.5	-105.14	-367.3	1,719.2	962.2	852.8	109.38	8.797
12,200.0	11,650.0	18,478.0	11,903.8	26.8	73.5	-105.39	-486.9	1,711.5	958.0	850.2	107.86	8.882
12,300.0	11,650.0	18,377.7	11,905.2	27.1	72.6	-105.58	-586.9	1,703.4	952.0	845.2	106.74	8.919
12,400.0	11,650.0	18,279.2	11,904.6	27.3	71.8	-105.63	-685.2	1,696.4	946.3	840.6	105.69	8.953
12,500.0	11,650.0	18,173.8	11,901.9	27.6	70.9	-105.57	-790.3	1,689.3	940.4	835.9	104.55	8.995
12,600.0	11,650.0	18,085.9	11,898.4	27.9	70.2	-105.43	-877.9	1,683.9	934.8	831.1	103.77	9.009
12,700.0	11,650.0	17,977.4	11,895.5	28.2	69.3	-105.35	-986.2	1,677.1	929.4	826.8	102.62	9.057
12,800.0	11,650.0	17,890.0	11,895.0	28.5	68.5	-105.39	-1,073.4	1,671.2	924.1	822.3	101.87	9.072
12,900.0	11,650.0	17,803.7	11,895.8	28.9	67.8	-105.50	-1,159.5	1,666.3	920.2	819.1	101.13	9.100
13,000.0	11,650.0	17,702.2	11,896.9	29.3	66.9	-105.62	-1,260.9	1,661.4	917.2	817.1	100.13	9.160
13,100.0	11,650.0	17,590.8	11,897.8	29.8	66.0	-105.76	-1,372.1	1,655.0	913.2	814.2	99.00	9.225
13,200.0	11,650.0	17,494.6	11,898.3	30.2	65.2	-105.87	-1,468.1	1,649.1	908.9	810.7	98.17	9.259
13,300.0	11,650.0	17,419.0	11,898.0	30.7	64.6	-105.90	-1,543.6	1,645.5	905.6	807.9	97.70	9.269
13,358.5	11,650.0	17,372.8	11,897.1	31.0	64.2	-105.85	-1,589.8	1,644.4	904.9	807.5	97.39	9.291
13,400.0	11,650.0	17,346.0	11,896.2	31.2	63.9	-105.79	-1,616.6	1,644.5	905.2	808.0	97.25	9.308
13,500.0	11,650.0	17,265.7	11,893.6	31.7	63.2	-105.57	-1,696.8	1,646.7	908.2	811.6	96.69	9.393
13,600.0	11,650.0	17,171.5	11,894.5	32.2	62.4	-105.56	-1,791.0	1,649.3	912.5	816.5	95.93	9.512
13,700.0	11,650.0	17,068.7	11,897.8	32.8	61.5	-105.70	-1,893.7	1,651.6	916.8	821.8	95.07	9.644
13,800.0	11,650.0	16,949.3	11,902.9	33.4	60.5	-105.96	-2,013.0	1,652.5	920.1	826.1	94.02	9.787
13,900.0	11,650.0	16,850.5	11,907.5	33.9	59.7	-106.22	-2,111.6	1,651.9	922.2	828.9	93.25	9.889
14,000.0	11,650.0	16,740.8	11,910.0	34.5	58.7	-106.35	-2,221.3	1,651.2	923.5	831.1	92.41	9.994
14,100.0	11,650.0	16,652.3	11,909.5	35.2	58.0	-106.29	-2,309.8	1,651.8	925.3	833.4	91.92	10.067
14,200.0	11,650.0	16,544.9	11,907.3	35.8	57.1	-106.11	-2,417.2	1,653.2	927.4	836.1	91.25	10.163
14,300.0	11,650.0	16,440.8	11,905.4	36.5	56.2	-105.98	-2,521.3	1,653.3	928.3	837.6	90.65	10.241
14,400.0	11,650.0	16,346.3	11,903.4	37.1	55.5	-105.82	-2,615.7	1,654.3	930.1	839.9	90.21	10.310
14,500.0	11,650.0	16,228.7	11,899.2	37.8	54.5	-105.53	-2,733.3	1,654.7	930.7	841.2	89.55	10.394
14,600.0	11,650.0	16,103.5	11,896.3	38.5	53.5	-105.38	-2,858.4	1,652.0	929.4	840.6	88.79	10.467
14,700.0	11,650.0	15,993.7	11,893.1	39.2	52.6	-105.24	-2,968.0	1,647.3	925.9	837.6	88.29	10.487
14,800.0	11,650.0	15,895.1	11,888.1	39.9	51.9	-104.98	-3,066.4	1,643.2	921.9	833.9	88.01	10.475
14,900.0	11,650.0	15,806.8	11,884.1	40.6	51.2	-104.76	-3,154.6	1,640.3	918.8	830.9	87.91	10.452
15,000.0	11,650.0	15,695.7	11,879.1	41.3	50.3	-104.51	-3,265.5	1,635.8	915.1	827.6	87.54	10.454
15,100.0	11,650.0	15,615.4	11,876.3	42.1	49.7	-104.36	-3,345.7	1,633.4	912.6	825.0	87.60	10.418
15,200.0	11,650.0	15,504.2	11,873.2	42.8	48.9	-104.21	-3,456.8	1,629.5	909.8	822.5	87.29	10.422
15,300.0	11,650.0	15,424.7	11,871.7	43.6	48.3	-104.13	-3,536.2	1,627.5	908.2	820.8	87.41	10.391
15,400.0	11,650.0	15,326.0	11,871.0	44.3	47.6	-104.09	-3,634.9	1,625.5	907.5	820.1	87.31	10.394

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #2H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 13-MWD+IFR1, 4170-MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,413.9	11,650.0	15,315.9	11,870.9	44.4	47.5	-104.09	-3,645.0	1,625.4	907.4	820.1	87.34	10.390		
15,500.0	11,650.0	15,248.0	11,870.0	45.1	47.0	-104.02	-3,712.9	1,625.6	908.6	821.1	87.47	10.387		
15,600.0	11,650.0	15,161.1	11,869.4	45.9	46.3	-103.93	-3,799.7	1,627.4	911.7	824.1	87.55	10.413		
15,700.0	11,650.0	15,069.9	11,869.2	46.7	45.7	-103.86	-3,890.9	1,629.8	915.6	828.0	87.61	10.450		
15,800.0	11,650.0	14,947.5	11,867.2	47.5	44.8	-103.68	-4,013.2	1,632.8	918.9	831.4	87.48	10.504		
15,900.0	11,650.0	14,834.2	11,864.9	48.3	44.0	-103.51	-4,126.6	1,633.1	920.0	832.5	87.47	10.518		
16,000.0	11,650.0	14,721.6	11,862.8	49.1	43.2	-103.38	-4,239.1	1,632.0	920.0	832.5	87.50	10.515		
16,100.0	11,650.0	14,618.5	11,859.7	49.9	42.5	-103.19	-4,342.2	1,629.9	918.7	831.0	87.68	10.477		
16,200.0	11,650.0	14,504.0	11,854.1	50.7	41.7	-102.87	-4,456.5	1,627.6	917.1	829.2	87.84	10.441		
16,300.0	11,650.0	14,405.3	11,851.3	51.5	41.1	-102.72	-4,555.1	1,624.0	914.2	826.1	88.15	10.371		
16,400.0	11,650.0	14,290.3	11,852.4	52.3	40.4	-102.86	-4,669.9	1,617.9	910.6	822.4	88.24	10.320		
16,500.0	11,650.0	14,196.0	11,857.0	53.1	39.8	-103.21	-4,763.8	1,611.7	906.6	818.1	88.52	10.242		
16,600.0	11,650.0	14,115.0	11,861.6	54.0	39.3	-103.54	-4,844.6	1,607.0	903.8	814.8	88.97	10.159		
16,667.8	11,650.0	14,060.8	11,864.0	54.5	39.0	-103.71	-4,898.7	1,605.1	903.1	813.8	89.29	10.113		
16,700.0	11,650.0	14,037.4	11,864.7	54.8	38.9	-103.75	-4,922.1	1,604.7	903.2	813.7	89.48	10.094		
16,800.0	11,650.0	13,938.4	11,865.4	55.7	38.3	-103.77	-5,021.1	1,604.6	904.6	814.7	89.90	10.062		
16,900.0	11,650.0	13,833.0	11,864.0	56.5	37.7	-103.68	-5,126.5	1,603.9	905.0	814.6	90.36	10.015		
17,000.0	11,650.0	13,751.5	11,865.0	57.3	37.2	-103.73	-5,208.0	1,603.4	906.2	815.2	90.96	9.962		
17,100.0	11,650.0	13,644.0	11,868.7	58.2	36.6	-103.94	-5,315.4	1,603.5	908.4	817.1	91.37	9.943		
17,200.0	11,650.0	13,570.9	11,869.8	59.0	36.3	-103.97	-5,388.4	1,604.5	911.5	819.5	92.05	9.902		
17,300.0	11,650.0	13,481.3	11,869.5	59.9	35.8	-103.87	-5,478.0	1,608.5	917.1	824.3	92.72	9.891		
17,400.0	11,650.0	13,351.9	11,869.2	60.8	35.2	-103.77	-5,607.4	1,612.7	921.6	828.3	93.28	9.880		
17,500.0	11,650.0	13,246.5	11,865.2	61.6	34.7	-103.47	-5,712.6	1,614.6	923.8	829.8	94.04	9.824		
17,600.0	11,650.0	13,151.5	11,859.9	62.5	34.3	-103.11	-5,807.4	1,616.6	926.0	831.1	94.91	9.757		
17,700.0	11,650.0	13,057.2	11,855.0	63.4	33.9	-102.75	-5,901.6	1,619.6	929.2	833.4	95.81	9.699		
17,800.0	11,650.0	12,935.8	11,849.8	64.2	33.4	-102.39	-6,022.9	1,621.1	930.8	834.2	96.64	9.632		
17,900.0	11,650.0	12,827.4	11,845.0	65.1	33.0	-102.08	-6,131.1	1,621.3	931.4	833.9	97.53	9.550		
18,000.0	11,650.0	12,723.3	11,843.5	66.0	32.6	-102.00	-6,235.2	1,619.8	931.1	832.7	98.39	9.463		
18,100.0	11,650.0	12,619.1	11,842.1	66.9	32.3	-101.91	-6,339.4	1,618.0	930.5	831.2	99.29	9.372		
18,167.1	11,650.0	12,560.1	11,841.4	67.4	32.2	-101.87	-6,398.4	1,617.0	930.1	830.2	99.95	9.306		
18,200.0	11,650.0	12,532.4	11,841.2	67.7	32.1	-101.86	-6,426.0	1,616.8	930.2	829.9	100.28	9.276		
18,300.0	11,650.0	12,427.7	11,842.6	68.6	31.9	-101.94	-6,530.7	1,615.6	930.8	829.6	101.16	9.202		
18,400.0	11,650.0	12,326.9	11,846.6	69.5	31.6	-102.20	-6,631.4	1,613.3	930.7	828.7	102.00	9.125		
18,500.0	11,650.0	12,112.9	11,826.6	70.4	31.2	-101.09	-6,843.4	1,601.8	925.2	822.8	102.43	9.033		
18,600.0	11,650.0	12,012.6	11,805.2	71.3	31.1	-99.86	-6,940.9	1,592.0	912.8	808.9	103.92	8.784		
18,700.0	11,650.0	11,921.2	11,779.8	72.2	30.9	-98.33	-7,028.4	1,584.7	901.5	795.7	105.71	8.528		
18,800.0	11,650.0	11,792.9	11,714.1	73.0	30.7	-94.17	-7,137.7	1,576.6	888.9	780.7	108.24	8.213		
18,900.0	11,650.0	11,728.0	11,672.6	73.9	30.6	-91.48	-7,187.4	1,573.1	879.4	768.5	110.97	7.925		
18,982.8	11,650.0	11,691.3	11,646.9	74.7	30.5	-89.80	-7,213.6	1,572.2	876.8	763.8	112.98	7.760 CC		
19,000.0	11,650.0	11,682.5	11,640.5	74.8	30.5	-89.38	-7,219.6	1,572.1	876.9	763.5	113.38	7.734 ES		
19,100.0	11,650.0	11,634.0	11,603.5	75.7	30.4	-86.97	-7,251.0	1,572.0	882.0	766.6	115.40	7.643 SF		
19,195.3	11,650.0	11,602.0	11,578.1	76.6	30.3	-85.32	-7,270.4	1,572.5	894.5	778.0	116.49	7.678		
19,196.1	11,650.0	11,602.0	11,578.1	76.6	30.3	-85.32	-7,270.4	1,572.5	894.6	778.0	116.62	7.671		

CC - Min centre to center 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 100-IN-C-ONLY		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	30.8	3.0	3.0	104.08	-227.2	906.1	934.7	928.1	6.56	142.574	
100.0	100.0	69.2	100.0	3.2	3.3	104.08	-227.2	906.1	934.2	927.1	7.05	132.524	
181.0	181.0	150.2	181.0	3.4	4.5	104.06	-227.0	906.1	934.1	925.6	8.49	110.031	
200.0	200.0	168.4	199.3	3.5	4.9	104.07	-227.0	906.1	934.1	925.2	8.99	103.915	
280.8	280.8	250.0	280.7	3.6	7.0	104.04	-226.6	906.1	934.0	922.5	11.58	80.683	
300.0	300.0	267.2	298.0	3.7	7.4	104.04	-226.6	906.1	934.1	921.9	12.18	76.663	
400.0	400.0	368.6	399.3	3.9	10.3	104.07	-227.0	906.1	934.1	918.2	15.94	58.621	
480.6	480.6	450.0	480.6	4.0	12.6	104.04	-226.6	906.1	934.0	914.9	19.10	48.898	
500.0	500.0	467.3	497.9	4.1	13.1	104.04	-226.6	906.1	934.1	914.3	19.79	47.199	
600.0	600.0	568.7	599.3	4.2	16.1	104.07	-227.0	906.1	934.1	910.3	23.84	39.180	
680.5	680.5	650.0	680.5	4.4	18.5	104.04	-226.6	906.1	934.0	906.9	27.13	34.423	
700.0	700.0	667.5	697.9	4.4	19.0	104.04	-226.6	906.1	934.1	906.2	27.85	33.543	
800.0	800.0	768.8	799.3	4.6	22.0	104.07	-227.0	906.1	934.1	902.2	31.99	29.202	
880.4	880.4	850.0	880.4	4.7	24.4	104.04	-226.6	906.1	934.0	898.7	35.32	26.442	
900.0	900.0	867.6	897.9	4.8	24.9	104.04	-226.6	906.1	934.1	898.0	36.05	25.912	
1,000.0	1,000.0	968.9	999.2	4.9	27.9	104.07	-227.0	906.1	934.1	894.0	40.10	23.297	
1,100.0	1,100.0	1,067.7	1,097.9	5.2	30.9	32.11	-226.6	906.1	932.6	888.4	44.20	21.101	
1,200.0	1,199.8	1,168.9	1,199.1	5.4	33.9	32.36	-227.0	906.1	928.2	879.8	48.40	19.177	
1,300.0	1,299.5	1,267.3	1,297.4	5.7	36.8	32.70	-226.6	906.1	920.8	868.3	52.50	17.538	
1,400.0	1,398.7	1,367.9	1,398.0	6.0	39.9	33.25	-227.0	906.1	910.6	853.9	56.70	16.061	
1,500.0	1,497.5	1,465.6	1,495.5	6.3	42.8	33.91	-226.6	906.1	897.5	836.7	60.78	14.766	
1,550.0	1,546.6	1,516.7	1,546.6	6.4	44.3	34.37	-227.2	906.1	890.0	827.1	62.90	14.149	
1,600.0	1,595.7	1,565.2	1,595.1	6.5	45.7	34.70	-227.0	906.1	882.1	817.2	64.92	13.587	
1,700.0	1,693.9	1,662.4	1,692.2	6.8	48.7	35.38	-226.6	906.1	866.2	797.3	68.98	12.557	
1,800.0	1,792.0	1,761.7	1,791.5	7.1	51.6	36.15	-227.0	906.1	850.8	777.6	73.13	11.633	
1,900.0	1,890.2	1,859.2	1,888.9	7.4	54.5	36.89	-226.6	906.1	835.2	758.0	77.21	10.817	
2,000.0	1,988.4	1,958.3	1,988.0	7.7	57.5	37.72	-227.0	906.1	820.1	738.7	81.36	10.079	
2,100.0	2,086.5	2,056.1	2,085.6	8.1	60.4	38.51	-226.6	906.1	804.8	719.4	85.45	9.418	
2,200.0	2,184.7	2,154.9	2,184.4	8.4	63.4	39.40	-227.0	906.1	790.0	700.4	89.60	8.818	
2,300.0	2,282.8	2,253.0	2,282.4	8.8	66.3	40.26	-226.6	906.1	775.1	681.4	93.70	8.272	
2,400.0	2,381.0	2,351.6	2,380.9	9.2	69.3	41.21	-227.0	906.1	760.7	662.8	97.83	7.775	
2,500.0	2,479.2	2,449.9	2,479.2	9.5	72.2	42.18	-227.2	906.1	746.4	644.5	101.95	7.321	
2,600.0	2,577.3	2,548.1	2,577.3	9.9	75.2	43.18	-227.2	906.1	732.3	626.2	106.07	6.904	
2,700.0	2,675.5	2,646.3	2,675.5	10.3	78.1	44.21	-227.2	906.1	718.3	608.2	110.18	6.519	
2,800.0	2,773.7	2,744.5	2,773.7	10.7	81.0	45.28	-227.2	906.1	704.7	590.4	114.30	6.165	
2,900.0	2,871.8	2,842.8	2,871.8	11.1	84.0	46.40	-227.2	906.1	691.2	572.8	118.41	5.838	
3,000.0	2,970.0	2,941.0	2,970.0	11.5	86.9	47.55	-227.2	906.1	678.1	555.6	122.53	5.534	
3,100.0	3,068.1	3,039.2	3,068.1	12.0	89.9	48.75	-227.2	906.1	665.2	538.6	126.64	5.253	
3,200.0	3,166.3	3,137.5	3,166.3	12.4	92.8	50.00	-227.2	906.1	652.7	521.9	130.75	4.992	
3,300.0	3,264.5	3,235.7	3,264.5	12.8	95.7	51.29	-227.2	906.1	640.4	505.6	134.86	4.749	
3,400.0	3,362.6	3,333.9	3,362.6	13.2	98.7	52.63	-227.2	906.1	628.5	489.6	138.97	4.523	
3,500.0	3,460.8	3,432.1	3,460.8	13.7	101.6	54.02	-227.2	906.1	617.0	473.9	143.07	4.313	
3,600.0	3,559.0	3,530.4	3,559.0	14.1	104.6	55.47	-227.2	906.1	605.9	458.7	147.18	4.117	
3,700.0	3,657.1	3,628.6	3,657.1	14.5	107.5	56.96	-227.2	906.1	595.1	443.8	151.28	3.934	
3,800.0	3,755.3	3,726.8	3,755.3	15.0	110.4	58.51	-227.2	906.1	584.8	429.4	155.38	3.764	
3,900.0	3,853.5	3,825.1	3,853.5	15.4	113.4	60.11	-227.2	906.1	574.9	415.4	159.48	3.605	
4,000.0	3,951.6	3,923.3	3,951.6	15.8	116.3	61.76	-227.2	906.1	565.5	401.9	163.58	3.457	
4,100.0	4,049.8	4,021.5	4,049.8	16.3	119.3	63.46	-227.2	906.1	556.6	388.9	167.68	3.320	
4,200.0	4,147.9	4,119.7	4,147.9	16.7	122.2	65.22	-227.2	906.1	548.2	376.5	171.77	3.192	
4,300.0	4,246.1	4,218.0	4,246.1	17.2	125.2	67.03	-227.2	906.1	540.4	364.5	175.87	3.073	
4,350.6	4,295.8	4,228.0	4,256.1	17.4	125.5	67.22	-227.2	906.1	538.1	362.3	175.83	3.060 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 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

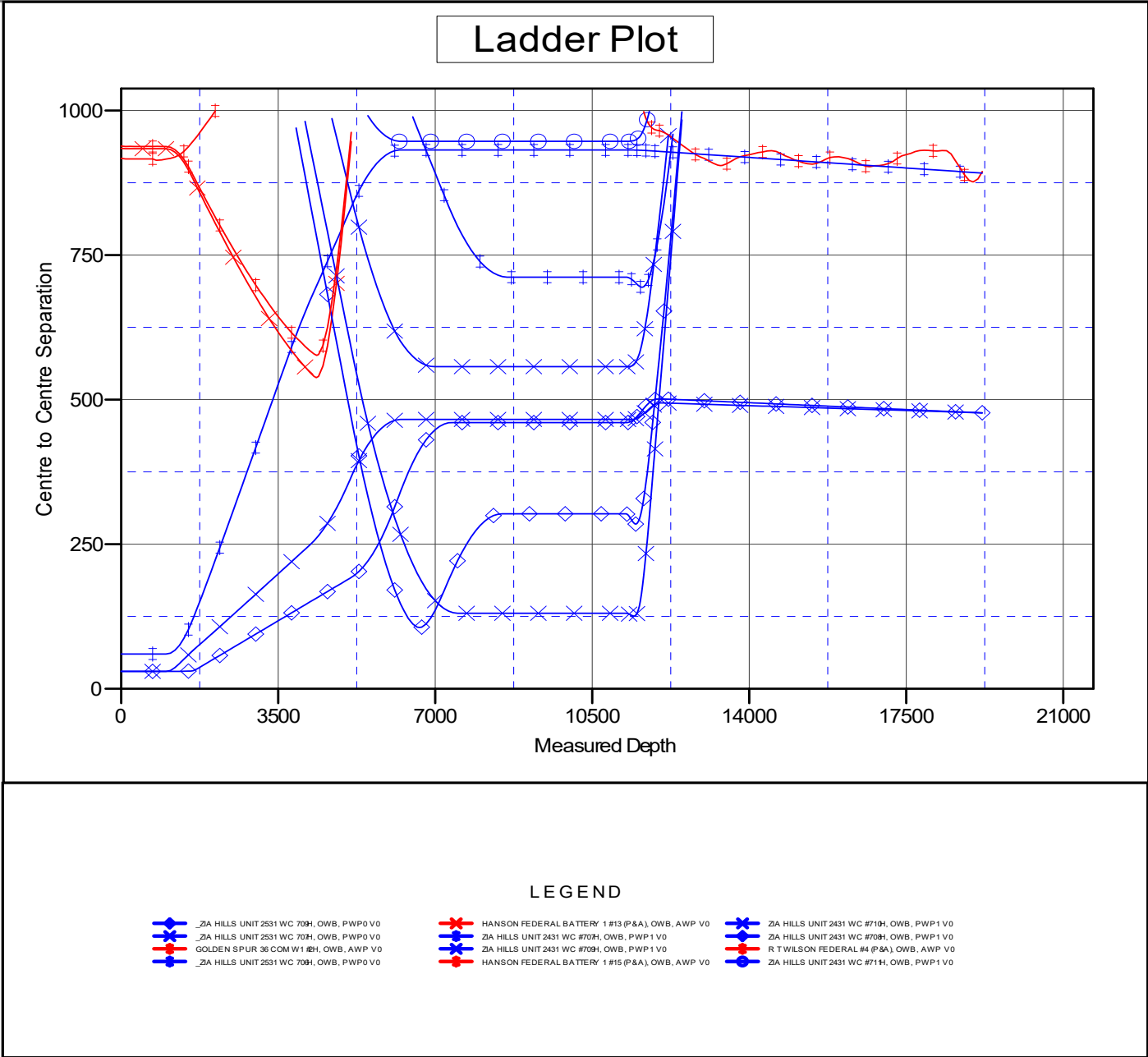
Offset Design:	ZIA HILLS UNIT 2531 PROJECT - HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program:	100-INC-ONLY												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:						Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Distance		Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,400.0	4,344.3	4,228.0	4,256.1	17.6	125.5	67.22	-227.2	906.1	540.3	366.3	173.99	3.106		
4,500.0	4,442.4	4,228.0	4,256.1	18.0	125.5	67.22	-227.2	906.1	558.4	392.0	166.42	3.355		
4,600.0	4,540.6	4,228.0	4,256.1	18.5	125.5	67.22	-227.2	906.1	593.0	437.9	155.15	3.822		
4,700.0	4,638.8	4,228.0	4,256.1	18.9	125.5	67.22	-227.2	906.1	641.5	499.3	142.24	4.510		
4,800.0	4,736.9	4,228.0	4,256.1	19.4	125.5	67.22	-227.2	906.1	701.0	571.7	129.33	5.420		
4,900.0	4,835.1	4,228.0	4,256.1	19.8	125.5	67.22	-227.2	906.1	768.9	651.6	117.37	6.552		
5,000.0	4,933.2	4,228.0	4,256.1	20.3	125.5	67.22	-227.2	906.1	843.3	736.5	106.74	7.900		
5,100.0	5,031.4	4,228.0	4,256.1	20.7	125.5	67.22	-227.2	906.1	922.5	825.0	97.52	9.460		
5,129.1	5,060.0	4,228.0	4,256.1	20.9	125.5	67.22	-227.2	906.1	946.3	851.2	95.08	9.953		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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 708H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°



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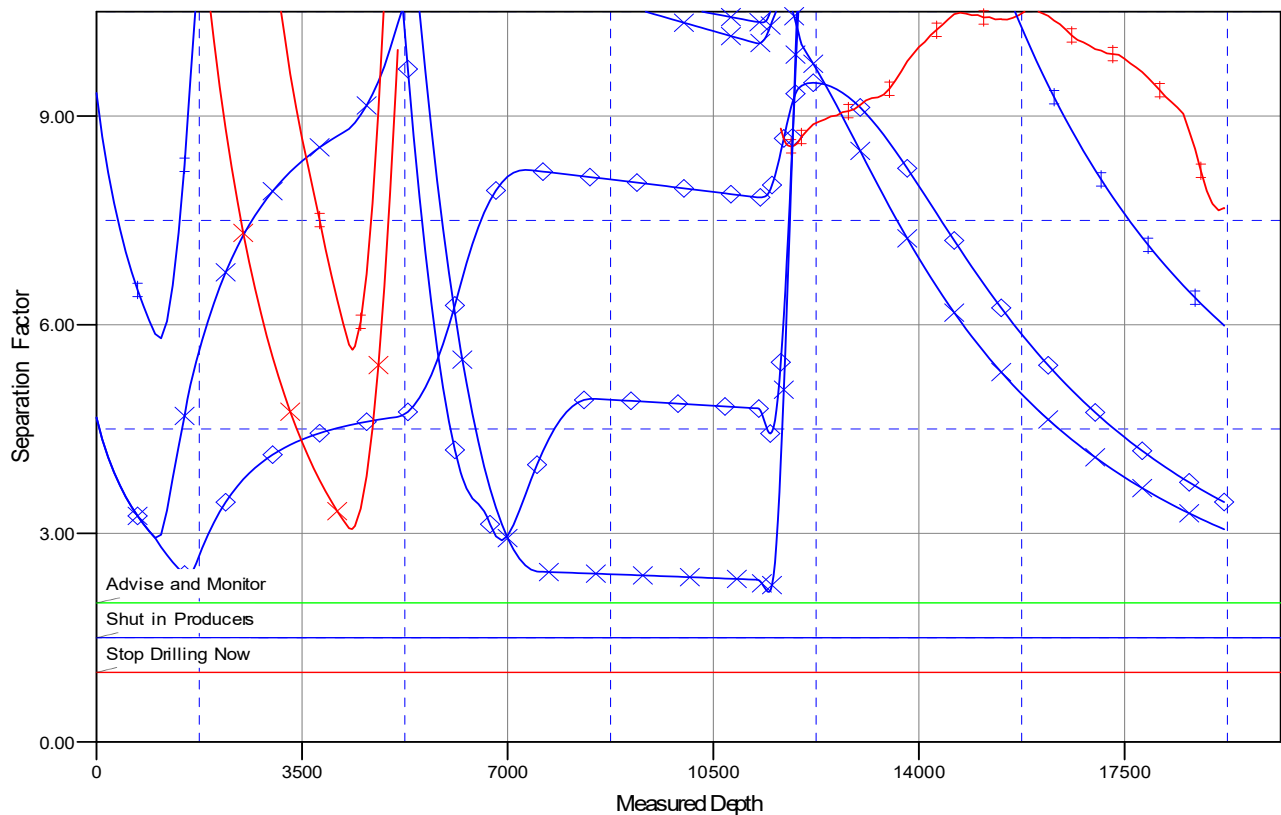
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Project:	ZIA HILLS UNIT AREA	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 708H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 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 708H - 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

_ZIA HILLS UNIT 2531 WC 708H, OWB, PWP0 V0	HANSON FEDERAL BATTERY 1 #13 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #710H, OWB, PWP1 V0
_ZIA HILLS UNIT 2531 WC 707H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #708H, OWB, PWP1 V0	ZIA HILLS UNIT 2431 WC #708H, OWB, PWP1 V0
GOLDEN SPUR 36 COM W1 2EH, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #709H, OWB, PWP1 V0	R T WILSON FEDERAL #4 (P&A), OWB, AWP V0
_ZIA HILLS UNIT 2531 WC 708H, OWB, PWP0 V0	HANSON FEDERAL BATTERY 1 #15 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #711H, OWB, PWP1 V0

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2531 PROJECT

_ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H

OWB

Plan: PWP0

Standard Planning Report

11 December, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/10/2023	6.37	59.54	47,300.78370731

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	174.66

Plan Survey Tool Program	Date	12/11/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,195.3 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	
1,550.0	11.00	72.00	1,546.6	16.3	50.1	2.00	2.00	0.00	72.00	
5,129.1	11.00	72.00	5,060.0	227.3	699.6	0.00	0.00	0.00	0.00	
6,229.1	0.00	0.00	6,153.3	259.8	799.7	1.00	-1.00	0.00	180.00	
11,248.4	0.00	0.00	11,172.5	259.8	799.7	0.00	0.00	0.00	0.00	
11,998.4	90.00	180.80	11,650.0	-217.6	793.0	12.00	12.00	-23.89	180.80	
19,195.3	90.00	180.80	11,650.0	-7,413.8	692.5	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	2.00	72.00	1,100.0	0.5	1.7	-0.4	2.00	2.00	0.00	
1,200.0	4.00	72.00	1,199.8	2.2	6.6	-1.5	2.00	2.00	0.00	
1,300.0	6.00	72.00	1,299.5	4.8	14.9	-3.4	2.00	2.00	0.00	
1,400.0	8.00	72.00	1,398.7	8.6	26.5	-6.1	2.00	2.00	0.00	
1,500.0	10.00	72.00	1,497.5	13.4	41.4	-9.5	2.00	2.00	0.00	
1,550.0	11.00	72.00	1,546.6	16.3	50.1	-11.5	2.00	2.00	0.00	
1,600.0	11.00	72.00	1,595.7	19.2	59.1	-13.6	0.00	0.00	0.00	
1,700.0	11.00	72.00	1,693.9	25.1	77.3	-17.8	0.00	0.00	0.00	
1,800.0	11.00	72.00	1,792.0	31.0	95.4	-22.0	0.00	0.00	0.00	
1,900.0	11.00	72.00	1,890.2	36.9	113.6	-26.2	0.00	0.00	0.00	
2,000.0	11.00	72.00	1,988.4	42.8	131.7	-30.4	0.00	0.00	0.00	
2,100.0	11.00	72.00	2,086.5	48.7	149.9	-34.5	0.00	0.00	0.00	
2,200.0	11.00	72.00	2,184.7	54.6	168.0	-38.7	0.00	0.00	0.00	
2,300.0	11.00	72.00	2,282.8	60.5	186.2	-42.9	0.00	0.00	0.00	
2,400.0	11.00	72.00	2,381.0	66.4	204.3	-47.1	0.00	0.00	0.00	
2,500.0	11.00	72.00	2,479.2	72.3	222.5	-51.3	0.00	0.00	0.00	
2,600.0	11.00	72.00	2,577.3	78.2	240.6	-55.5	0.00	0.00	0.00	
2,700.0	11.00	72.00	2,675.5	84.1	258.7	-59.6	0.00	0.00	0.00	
2,800.0	11.00	72.00	2,773.7	90.0	276.9	-63.8	0.00	0.00	0.00	
2,900.0	11.00	72.00	2,871.8	95.9	295.0	-68.0	0.00	0.00	0.00	
3,000.0	11.00	72.00	2,970.0	101.8	313.2	-72.2	0.00	0.00	0.00	
3,100.0	11.00	72.00	3,068.1	107.7	331.3	-76.4	0.00	0.00	0.00	
3,200.0	11.00	72.00	3,166.3	113.6	349.5	-80.6	0.00	0.00	0.00	
3,300.0	11.00	72.00	3,264.5	119.5	367.6	-84.7	0.00	0.00	0.00	
3,400.0	11.00	72.00	3,362.6	125.3	385.8	-88.9	0.00	0.00	0.00	
3,500.0	11.00	72.00	3,460.8	131.2	403.9	-93.1	0.00	0.00	0.00	
3,600.0	11.00	72.00	3,559.0	137.1	422.1	-97.3	0.00	0.00	0.00	
3,700.0	11.00	72.00	3,657.1	143.0	440.2	-101.5	0.00	0.00	0.00	
3,800.0	11.00	72.00	3,755.3	148.9	458.4	-105.7	0.00	0.00	0.00	
3,900.0	11.00	72.00	3,853.5	154.8	476.5	-109.8	0.00	0.00	0.00	
4,000.0	11.00	72.00	3,951.6	160.7	494.7	-114.0	0.00	0.00	0.00	
4,100.0	11.00	72.00	4,049.8	166.6	512.8	-118.2	0.00	0.00	0.00	
4,200.0	11.00	72.00	4,147.9	172.5	531.0	-122.4	0.00	0.00	0.00	
4,300.0	11.00	72.00	4,246.1	178.4	549.1	-126.6	0.00	0.00	0.00	
4,400.0	11.00	72.00	4,344.3	184.3	567.2	-130.8	0.00	0.00	0.00	
4,500.0	11.00	72.00	4,442.4	190.2	585.4	-134.9	0.00	0.00	0.00	
4,600.0	11.00	72.00	4,540.6	196.1	603.5	-139.1	0.00	0.00	0.00	
4,700.0	11.00	72.00	4,638.8	202.0	621.7	-143.3	0.00	0.00	0.00	
4,800.0	11.00	72.00	4,736.9	207.9	639.8	-147.5	0.00	0.00	0.00	
4,900.0	11.00	72.00	4,835.1	213.8	658.0	-151.7	0.00	0.00	0.00	
5,000.0	11.00	72.00	4,933.2	219.7	676.1	-155.9	0.00	0.00	0.00	
5,100.0	11.00	72.00	5,031.4	225.6	694.3	-160.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,129.1	11.00	72.00	5,060.0	227.3	699.6	-161.3	0.00	0.00	0.00	
5,200.0	10.29	72.00	5,129.6	231.3	712.0	-164.1	1.00	-1.00	0.00	
5,300.0	9.29	72.00	5,228.2	236.6	728.2	-167.9	1.00	-1.00	0.00	
5,400.0	8.29	72.00	5,327.0	241.3	742.7	-171.2	1.00	-1.00	0.00	
5,500.0	7.29	72.00	5,426.1	245.5	755.6	-174.2	1.00	-1.00	0.00	
5,600.0	6.29	72.00	5,525.4	249.2	766.9	-176.8	1.00	-1.00	0.00	
5,700.0	5.29	72.00	5,624.9	252.3	776.5	-179.0	1.00	-1.00	0.00	
5,800.0	4.29	72.00	5,724.5	254.9	784.4	-180.8	1.00	-1.00	0.00	
5,900.0	3.29	72.00	5,824.3	256.9	790.7	-182.3	1.00	-1.00	0.00	
6,000.0	2.29	72.00	5,924.2	258.4	795.3	-183.3	1.00	-1.00	0.00	
6,100.0	1.29	72.00	6,024.1	259.4	798.3	-184.0	1.00	-1.00	0.00	
6,200.0	0.29	72.00	6,124.1	259.8	799.6	-184.3	1.00	-1.00	0.00	
6,229.1	0.00	0.00	6,153.3	259.8	799.7	-184.3	1.00	-1.00	0.00	
6,300.0	0.00	0.00	6,224.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,324.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,424.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,524.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,624.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,724.1	259.8	799.7	-184.3	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,824.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,924.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,024.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,124.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,224.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,324.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,424.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,524.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,624.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,724.1	259.8	799.7	-184.3	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,824.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,924.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,024.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,124.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,224.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,324.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,424.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,524.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,624.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,724.1	259.8	799.7	-184.3	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,824.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,924.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,024.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,124.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,224.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,324.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,424.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,524.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,624.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,724.1	259.8	799.7	-184.3	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,824.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,924.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,024.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,124.1	259.8	799.7	-184.3	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,300.0	0.00	0.00	10,224.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,324.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,424.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,524.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,624.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,724.1	259.8	799.7	-184.3	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,824.1	259.8	799.7	-184.3	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,924.1	259.8	799.7	-184.3	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,024.1	259.8	799.7	-184.3	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,124.1	259.8	799.7	-184.3	0.00	0.00	0.00	
11,248.4	0.00	0.00	11,172.5	259.8	799.7	-184.3	0.00	0.00	0.00	
11,250.0	0.19	180.80	11,174.1	259.8	799.7	-184.3	12.00	12.00	0.00	
11,275.0	3.19	180.80	11,199.1	259.1	799.7	-183.6	12.00	12.00	0.00	
11,300.0	6.19	180.80	11,224.0	257.0	799.6	-181.6	12.00	12.00	0.00	
11,325.0	9.19	180.80	11,248.8	253.7	799.6	-178.2	12.00	12.00	0.00	
11,350.0	12.19	180.80	11,273.4	249.1	799.5	-173.6	12.00	12.00	0.00	
11,375.0	15.19	180.80	11,297.6	243.1	799.4	-167.7	12.00	12.00	0.00	
11,400.0	18.19	180.80	11,321.6	236.0	799.3	-160.6	12.00	12.00	0.00	
11,425.0	21.19	180.80	11,345.1	227.5	799.2	-152.2	12.00	12.00	0.00	
11,450.0	24.19	180.80	11,368.2	217.9	799.1	-142.6	12.00	12.00	0.00	
11,475.0	27.19	180.80	11,390.7	207.1	798.9	-131.9	12.00	12.00	0.00	
11,500.0	30.19	180.80	11,412.6	195.1	798.8	-119.9	12.00	12.00	0.00	
11,525.0	33.19	180.80	11,433.9	181.9	798.6	-106.9	12.00	12.00	0.00	
11,550.0	36.19	180.80	11,454.5	167.7	798.4	-92.7	12.00	12.00	0.00	
11,575.0	39.19	180.80	11,474.2	152.4	798.2	-77.5	12.00	12.00	0.00	
11,600.0	42.19	180.80	11,493.2	136.1	798.0	-61.3	12.00	12.00	0.00	
11,625.0	45.19	180.80	11,511.3	118.8	797.7	-44.1	12.00	12.00	0.00	
11,650.0	48.19	180.80	11,528.4	100.7	797.5	-26.1	12.00	12.00	0.00	
11,675.0	51.19	180.80	11,544.6	81.6	797.2	-7.1	12.00	12.00	0.00	
11,700.0	54.19	180.80	11,559.7	61.7	796.9	12.7	12.00	12.00	0.00	
11,725.0	57.19	180.80	11,573.8	41.1	796.6	33.2	12.00	12.00	0.00	
11,750.0	60.19	180.80	11,586.8	19.7	796.3	54.4	12.00	12.00	0.00	
11,775.0	63.19	180.80	11,598.7	-2.3	796.0	76.3	12.00	12.00	0.00	
11,800.0	66.19	180.80	11,609.3	-24.9	795.7	98.8	12.00	12.00	0.00	
11,825.0	69.19	180.80	11,618.8	-48.0	795.4	121.8	12.00	12.00	0.00	
11,850.0	72.19	180.80	11,627.1	-71.6	795.1	145.2	12.00	12.00	0.00	
11,875.0	75.19	180.80	11,634.1	-95.6	794.7	169.1	12.00	12.00	0.00	
11,900.0	78.19	180.80	11,639.9	-119.9	794.4	193.3	12.00	12.00	0.00	
11,925.0	81.19	180.80	11,644.3	-144.5	794.0	217.7	12.00	12.00	0.00	
11,950.0	84.19	180.80	11,647.5	-169.3	793.7	242.4	12.00	12.00	0.00	
11,975.0	87.19	180.80	11,649.4	-194.2	793.3	267.2	12.00	12.00	0.00	
11,998.4	90.00	180.80	11,650.0	-217.6	793.0	290.4	12.00	12.00	0.00	
12,000.0	90.00	180.80	11,650.0	-219.2	793.0	292.0	0.00	0.00	0.00	
12,100.0	90.00	180.80	11,650.0	-319.2	791.6	391.4	0.00	0.00	0.00	
12,200.0	90.00	180.80	11,650.0	-419.2	790.2	490.9	0.00	0.00	0.00	
12,300.0	90.00	180.80	11,650.0	-519.2	788.8	590.3	0.00	0.00	0.00	
12,400.0	90.00	180.80	11,650.0	-619.2	787.4	689.7	0.00	0.00	0.00	
12,500.0	90.00	180.80	11,650.0	-719.2	786.0	789.1	0.00	0.00	0.00	
12,600.0	90.00	180.80	11,650.0	-819.2	784.6	888.6	0.00	0.00	0.00	
12,700.0	90.00	180.80	11,650.0	-919.1	783.2	988.0	0.00	0.00	0.00	
12,800.0	90.00	180.80	11,650.0	-1,019.1	781.8	1,087.4	0.00	0.00	0.00	
12,900.0	90.00	180.80	11,650.0	-1,119.1	780.4	1,186.8	0.00	0.00	0.00	
13,000.0	90.00	180.80	11,650.0	-1,219.1	779.0	1,286.3	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.00	180.80	11,650.0	-1,319.1	777.6	1,385.7	0.00	0.00	0.00	
13,200.0	90.00	180.80	11,650.0	-1,419.1	776.2	1,485.1	0.00	0.00	0.00	
13,300.0	90.00	180.80	11,650.0	-1,519.1	774.8	1,584.6	0.00	0.00	0.00	
13,400.0	90.00	180.80	11,650.0	-1,619.1	773.4	1,684.0	0.00	0.00	0.00	
13,500.0	90.00	180.80	11,650.0	-1,719.1	772.1	1,783.4	0.00	0.00	0.00	
13,600.0	90.00	180.80	11,650.0	-1,819.1	770.7	1,882.8	0.00	0.00	0.00	
13,700.0	90.00	180.80	11,650.0	-1,919.0	769.3	1,982.3	0.00	0.00	0.00	
13,800.0	90.00	180.80	11,650.0	-2,019.0	767.9	2,081.7	0.00	0.00	0.00	
13,900.0	90.00	180.80	11,650.0	-2,119.0	766.5	2,181.1	0.00	0.00	0.00	
14,000.0	90.00	180.80	11,650.0	-2,219.0	765.1	2,280.5	0.00	0.00	0.00	
14,100.0	90.00	180.80	11,650.0	-2,319.0	763.7	2,380.0	0.00	0.00	0.00	
14,200.0	90.00	180.80	11,650.0	-2,419.0	762.3	2,479.4	0.00	0.00	0.00	
14,300.0	90.00	180.80	11,650.0	-2,519.0	760.9	2,578.8	0.00	0.00	0.00	
14,400.0	90.00	180.80	11,650.0	-2,619.0	759.5	2,678.3	0.00	0.00	0.00	
14,500.0	90.00	180.80	11,650.0	-2,719.0	758.1	2,777.7	0.00	0.00	0.00	
14,600.0	90.00	180.80	11,650.0	-2,819.0	756.7	2,877.1	0.00	0.00	0.00	
14,700.0	90.00	180.80	11,650.0	-2,918.9	755.3	2,976.5	0.00	0.00	0.00	
14,800.0	90.00	180.80	11,650.0	-3,018.9	753.9	3,076.0	0.00	0.00	0.00	
14,900.0	90.00	180.80	11,650.0	-3,118.9	752.5	3,175.4	0.00	0.00	0.00	
15,000.0	90.00	180.80	11,650.0	-3,218.9	751.1	3,274.8	0.00	0.00	0.00	
15,100.0	90.00	180.80	11,650.0	-3,318.9	749.7	3,374.2	0.00	0.00	0.00	
15,200.0	90.00	180.80	11,650.0	-3,418.9	748.3	3,473.7	0.00	0.00	0.00	
15,300.0	90.00	180.80	11,650.0	-3,518.9	746.9	3,573.1	0.00	0.00	0.00	
15,400.0	90.00	180.80	11,650.0	-3,618.9	745.5	3,672.5	0.00	0.00	0.00	
15,500.0	90.00	180.80	11,650.0	-3,718.9	744.1	3,772.0	0.00	0.00	0.00	
15,600.0	90.00	180.80	11,650.0	-3,818.9	742.7	3,871.4	0.00	0.00	0.00	
15,700.0	90.00	180.80	11,650.0	-3,918.8	741.3	3,970.8	0.00	0.00	0.00	
15,800.0	90.00	180.80	11,650.0	-4,018.8	739.9	4,070.2	0.00	0.00	0.00	
15,900.0	90.00	180.80	11,650.0	-4,118.8	738.5	4,169.7	0.00	0.00	0.00	
16,000.0	90.00	180.80	11,650.0	-4,218.8	737.1	4,269.1	0.00	0.00	0.00	
16,100.0	90.00	180.80	11,650.0	-4,318.8	735.8	4,368.5	0.00	0.00	0.00	
16,200.0	90.00	180.80	11,650.0	-4,418.8	734.4	4,467.9	0.00	0.00	0.00	
16,300.0	90.00	180.80	11,650.0	-4,518.8	733.0	4,567.4	0.00	0.00	0.00	
16,400.0	90.00	180.80	11,650.0	-4,618.8	731.6	4,666.8	0.00	0.00	0.00	
16,500.0	90.00	180.80	11,650.0	-4,718.8	730.2	4,766.2	0.00	0.00	0.00	
16,600.0	90.00	180.80	11,650.0	-4,818.8	728.8	4,865.7	0.00	0.00	0.00	
16,700.0	90.00	180.80	11,650.0	-4,918.8	727.4	4,965.1	0.00	0.00	0.00	
16,800.0	90.00	180.80	11,650.0	-5,018.7	726.0	5,064.5	0.00	0.00	0.00	
16,900.0	90.00	180.80	11,650.0	-5,118.7	724.6	5,163.9	0.00	0.00	0.00	
17,000.0	90.00	180.80	11,650.0	-5,218.7	723.2	5,263.4	0.00	0.00	0.00	
17,100.0	90.00	180.80	11,650.0	-5,318.7	721.8	5,362.8	0.00	0.00	0.00	
17,200.0	90.00	180.80	11,650.0	-5,418.7	720.4	5,462.2	0.00	0.00	0.00	
17,300.0	90.00	180.80	11,650.0	-5,518.7	719.0	5,561.6	0.00	0.00	0.00	
17,400.0	90.00	180.80	11,650.0	-5,618.7	717.6	5,661.1	0.00	0.00	0.00	
17,500.0	90.00	180.80	11,650.0	-5,718.7	716.2	5,760.5	0.00	0.00	0.00	
17,600.0	90.00	180.80	11,650.0	-5,818.7	714.8	5,859.9	0.00	0.00	0.00	
17,700.0	90.00	180.80	11,650.0	-5,918.7	713.4	5,959.4	0.00	0.00	0.00	
17,800.0	90.00	180.80	11,650.0	-6,018.6	712.0	6,058.8	0.00	0.00	0.00	
17,900.0	90.00	180.80	11,650.0	-6,118.6	710.6	6,158.2	0.00	0.00	0.00	
18,000.0	90.00	180.80	11,650.0	-6,218.6	709.2	6,257.6	0.00	0.00	0.00	
18,100.0	90.00	180.80	11,650.0	-6,318.6	707.8	6,357.1	0.00	0.00	0.00	
18,200.0	90.00	180.80	11,650.0	-6,418.6	706.4	6,456.5	0.00	0.00	0.00	
18,300.0	90.00	180.80	11,650.0	-6,518.6	705.0	6,555.9	0.00	0.00	0.00	

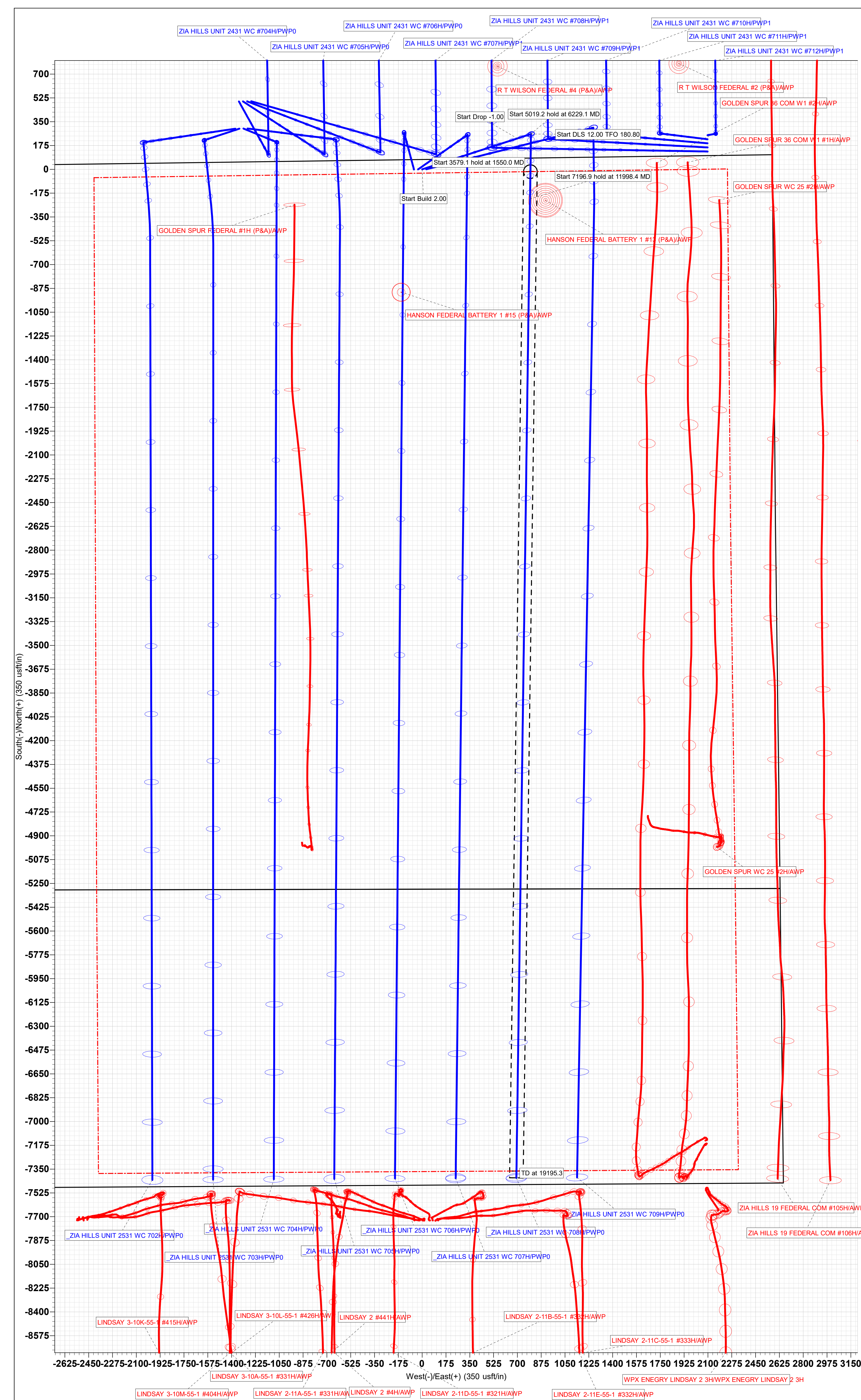
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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 708H - Slot ZHU 2531 WC #708H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT AREA	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	_ZIA HILLS UNIT 2531 WC 708H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,400.0	90.00	180.80	11,650.0	-6,618.6	703.6	6,655.3	0.00	0.00	0.00	
18,500.0	90.00	180.80	11,650.0	-6,718.6	702.2	6,754.8	0.00	0.00	0.00	
18,600.0	90.00	180.80	11,650.0	-6,818.6	700.9	6,854.2	0.00	0.00	0.00	
18,700.0	90.00	180.80	11,650.0	-6,918.6	699.5	6,953.6	0.00	0.00	0.00	
18,800.0	90.00	180.80	11,650.0	-7,018.5	698.1	7,053.0	0.00	0.00	0.00	
18,900.0	90.00	180.80	11,650.0	-7,118.5	696.7	7,152.5	0.00	0.00	0.00	
19,000.0	90.00	180.80	11,650.0	-7,218.5	695.3	7,251.9	0.00	0.00	0.00	
19,100.0	90.00	180.80	11,650.0	-7,318.5	693.9	7,351.3	0.00	0.00	0.00	
19,195.3	90.00	180.80	11,650.0	-7,413.8	692.5	7,446.1	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										
LTP (ZHU 2531 WC #70	90.00	179.74	11,650.0	-7,363.8	692.2	364,380.83	687,418.85	32° 0' 1.281 N	103° 43' 43.495 W	
- plan misses target center by 45.3usft at 19100.0usft MD (11650.0 TVD, -7318.5 N, 693.9 E)										
- Circle (radius 50.0)										
FTP (ZHU 2531 WC #7C	0.00	0.00	11,650.0	-16.9	795.4	371,727.75	687,522.04	32° 1' 13.982 N	103° 43' 41.819 W	
- plan misses target center by 40.5usft at 11808.0usft MD (11612.5 TVD, -32.2 N, 795.6 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #;	0.00	0.80	11,650.0	-7,413.8	692.5	364,330.83	687,419.15	32° 0' 0.786 N	103° 43' 43.495 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,399.5 D20.0)										



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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 708H
SURFACE HOLE FOOTAGE:	69'/N & 2575'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1960'/E
LOCATION:	Section 25, 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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/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 408807

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 408807
	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.	12/5/2024
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/5/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/20/2024
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/20/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/20/2024
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/20/2024