Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-015-55889

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

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

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

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 10/10/2024

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 69 FNL / 2605 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0207428 / LONG: -103.731422 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 2245 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206664 / LONG: -103.7302594 (TVD: 11782 feet, MD: 11932 feet)

BHL: LOT 2 / 50 FSL / 2405 FEL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003429 / LONG: -103.7306501 (TVD: 11820 feet, MD: 19315 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015- 55889	98081	Zia Hills; Wolfcamp	
Property Code	Property Name		Well Number
336586	ZIA HILLS UNIT 2531 WC		707H
OGRID No.	Operator Name		Ground Level Elevation
217817	CONOCOPHILLIPS COMPANY		3,162.00'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☑ Federal		Mineral Owner: ☑ State ☐ Fee ☐ Tribal ☑ Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	31E		69' FNL	2,605' FEL	32.020743°	-103.731422°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 2	36	26S	31E		50' FSL	2,405' FEL	32.000343°	-103.730650°	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
900	Infill	Pending 706H		Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒Yes ☐No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	31E		69' FNL	2,605' FEL	32.020743°	-103.731422°	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	31E		100' FNL	2,245' FEL	32.020666°	-103.730259°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 2	36	26S	31E		100' FSL	2,405' FEL	32.000480°	-103.730651°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
Unit		

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

Signature Date

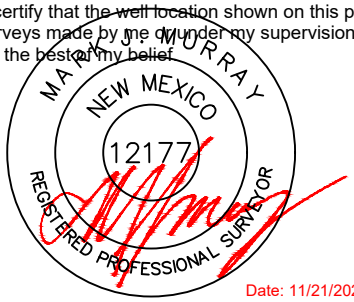
Stan Wagner

Printed Name

Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.



Date: 11/21/2024

Signature and Seal of Professional Surveyor

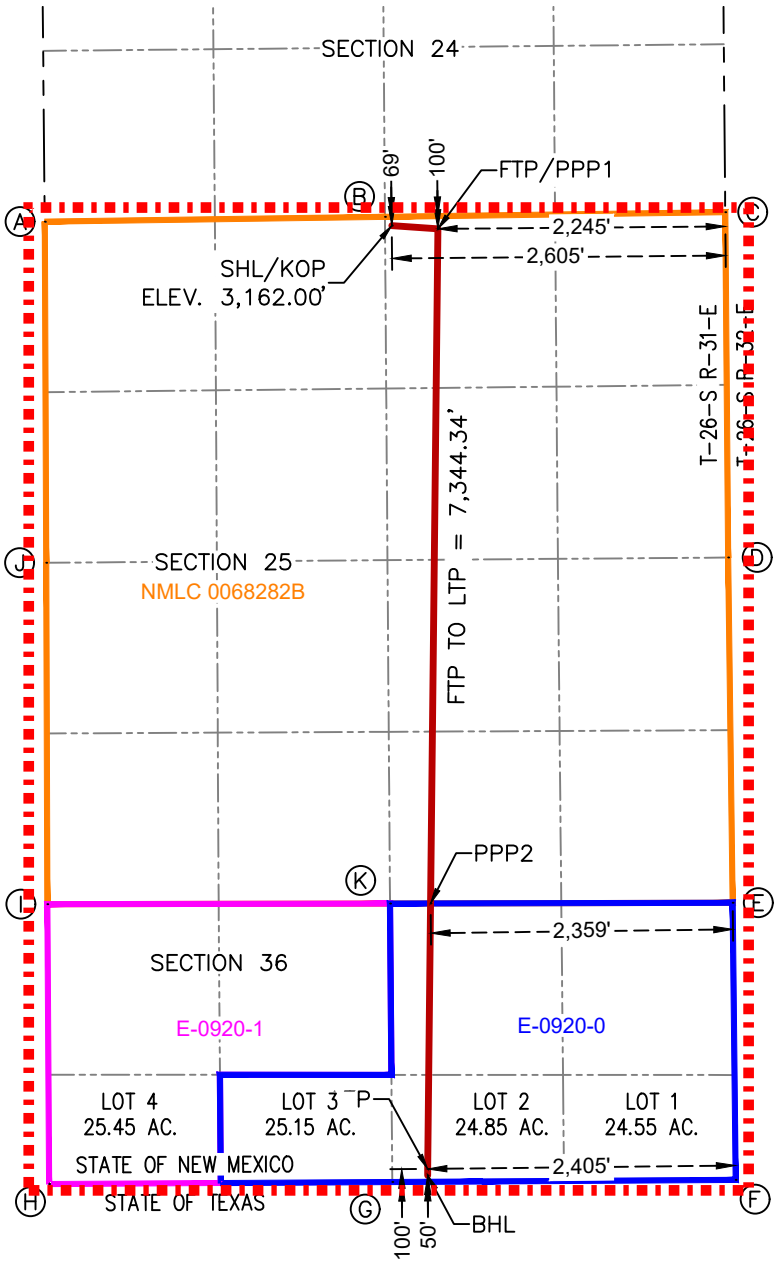
Certificate Number	Date of Survey
12177	11/21/2024

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 & 2,605' FEL
ELEV.=3,162.00'

NAD 83 X = 727,882.30'
NAD 83 Y = 371,804.69'
NAD 83 LAT = 32.020743°
NAD 83 LONG = -103.731422°

FIRST TAKE POINT &
PENETRATION POINT 1
100' FNL & 2,245' FEL

NAD 83 X = 728,242.78'
NAD 83 Y = 371,778.89'
NAD 83 LAT = 32.020666°
NAD 83 LONG = -103.730259°

PENETRATION POINT 2
0' FNL & 2,359' FEL

NAD 83 X = 728,185.09'
NAD 83 Y = 366,509.55'
NAD 83 LAT = 32.006183°
NAD 83 LONG = -103.730540°

LAST TAKE POINT
100' FSL & 2,405' FEL

NAD 83 X = 728,162.37'
NAD 83 Y = 364,434.99'
NAD 83 LAT = 32.000480°
NAD 83 LONG = -103.730651°

BOTTOM HOLE LOCATION
50' FSL & 2,405' FEL

NAD 83 X = 728,162.93'
NAD 83 Y = 364,384.99'
NAD 83 LAT = 32.000343°
NAD 83 LONG = -103.730650°

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:	Stan Wagner
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 707H

1. Geologic Formations

TVD of target	11,527' EOL	Pilot hole depth	NA
MD at TD:	19,316'	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	1.05	2.88	2.90
8.750"	8500	11200	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.21	1.93
6.75"	0	11000	5.5"	23	P110-CY	BTC	1.88	2.19	2.88	2.88
6.75"	11000	19,316	5.5"	23	P110-CY	W441	1.80	2.09	2.75	2.50
					BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingtency 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	1.31	5.64	5.83
8.75"	3860	11200	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.21	1.93
6.75"	0	11000	5.5"	23	P110-CY	BTC	1.88	2.19	2.88	2.88
6.75"	11000	19,316	5.5"	23	P110-CY	W441	1.80	2.09	2.75	2.50
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 707H

	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 3rd 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 2nd 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 707H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	710	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
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%
1st Intermediate	0'	50%
Production	10,700'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	890	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Int. #1	600	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl2
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl2
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%
1st Intermediate	0'	50%
2nd Intermediate	3,860'	20%
Production	10,950'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 707H

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. 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 707H

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 707H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8095 psi at 11527' TVD
Abnormal Temperature	NO 170 Deg. F.

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

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

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

8. Other Facets of Operation

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

x	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

Released to Imaging: 12/20/2024 9:07:22 AM
Received by OCD: 12/5/2024 7:46:07 AM

COG Operating LLC

Rig Plat & Closed Loop Equipment Diagram

Well pad will be 400' X 400' with cellar in center of pad

Flare Lines will be from both Choke Manifold & Separator to edge of location.

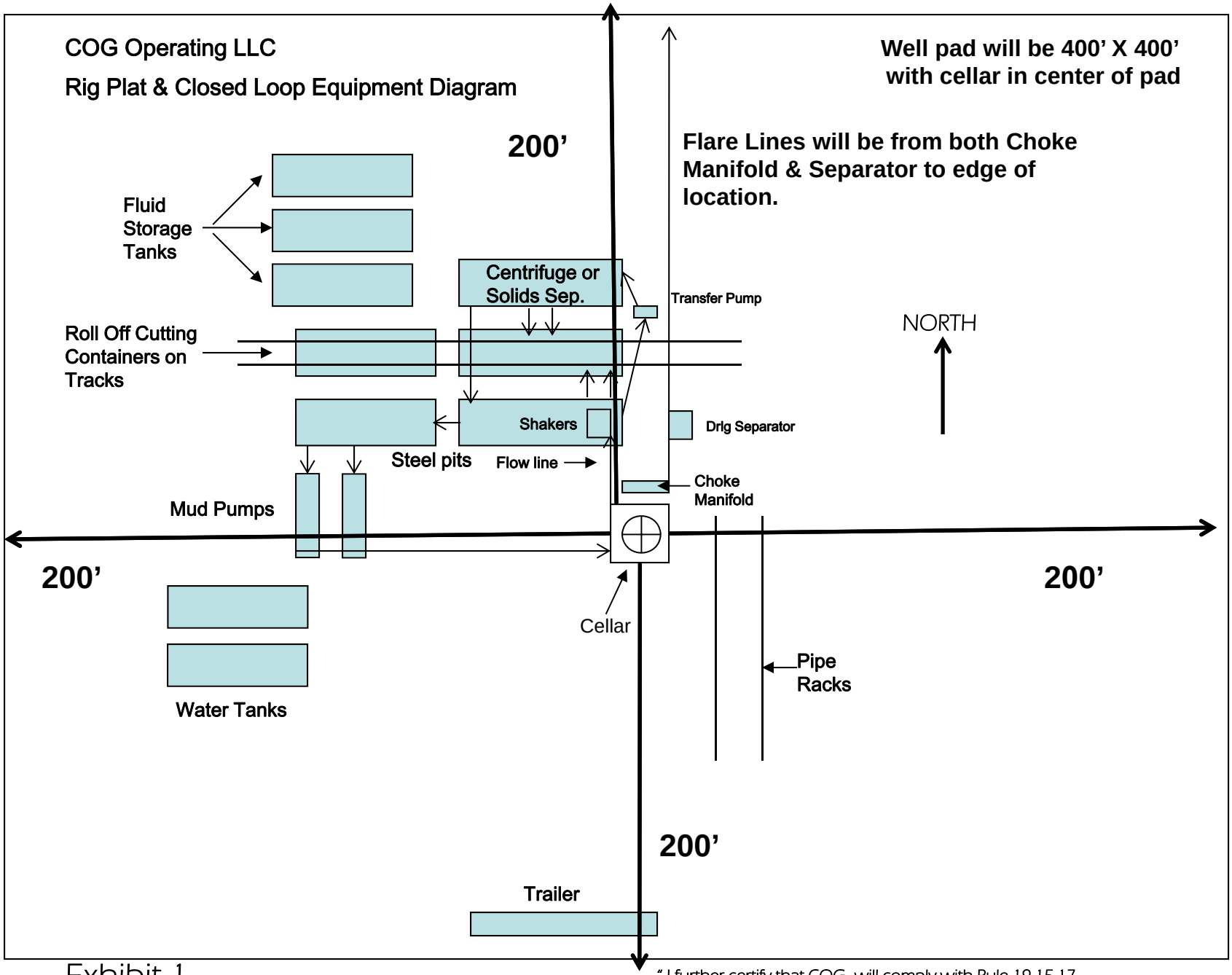


Exhibit 1

" 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 707H

OWB
PWP0

Anticollision Report

11 December, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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	19,315.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,316.0	11,714.2	816.4	709.0	7.597	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,316.0	11,570.0	987.2	888.3	9.982	CC, ES, SF
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
LINDSAY 3-10P-55-1 #443H - 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

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Offset Well - Wellbore - Design	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	909.2	888.2	43.308	CC
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	1,300.0	1,256.8	912.1	879.7	28.148	ES
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	2,200.0	2,148.4	990.2	945.3	22.056	SF
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,354.3	4,236.0	581.9	479.1	5.662	CC, ES, SF
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	11,262.8	11,350.5	642.3	589.9	12.271	CC, ES
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	11,300.0	11,378.8	642.7	590.3	12.266	SF
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	11,639.6	11,760.6	230.1	172.0	3.966	CC, ES, SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	11,472.5	11,637.7	179.9	120.1	3.008	CC, ES, SF
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	11,493.5	11,575.5	591.0	537.7	11.085	CC, ES
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	11,500.0	11,581.2	591.0	537.7	11.084	SF
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 701H - OWB - PWP0						Out of range
_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	19,316.0	19,294.1	891.9	741.5	5.929	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	1,200.0	1,200.0	30.0	19.2	2.766	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 708H - 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	60.0	49.8	5.868	CC, ES
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	1,100.0	1,098.0	61.7	51.0	5.807	SF
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP						Out of range
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP						Out of range
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	4,300.0	4,228.0	759.9	583.8	4.315	SF
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	4,311.4	4,228.0	759.8	583.8	4.317	CC, ES

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,316.0	11,714.2	816.4	709.0	7.597	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,316.0	11,570.0	987.2	888.3	9.982	CC, ES, SF
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,316.0	10,813.0				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,316.0	10,713.0				Out of Range @TD
LINDSAY 2-11C-55-1 #333H - OWB - AWP	19,316.0	10,956.1				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,316.0	9,997.7				Out of Range @TD
LINDSAY 2-11E-55-1 #332H - OWB - AWP	19,316.0	10,238.0				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,316.0	10,813.0				Out of Range @TD
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,316.0	11,536.0				Out of Range @TD
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,316.0	11,791.9				Out of Range @TD
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,316.0	11,476.5				Out of Range @TD
LINDSAY 3-10P-55-1 #443H - OWB - AWP	19,316.0	11,660.3				Out of Range @TD
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA	19,316.0	11,386.0				Out of Range @TD
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP	19,316.0	21,910.0				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #106H - OWB - AWP	19,316.0	21,933.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	19,316.0	4,283.0				Out of Range @TD
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	19,316.0	4,236.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,316.0	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,316.0	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,316.0	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,316.0	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,316.0	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,316.0	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	19,316.0	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	19,316.0	11,250.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	19,316.0	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	19,316.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 701H - OWB - PWP0	19,316.0	19,444.8				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 702H - OWB - PWP0	19,316.0	19,117.5				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0	19,316.0	19,267.8				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0	19,316.0	19,075.1				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0	19,316.0	19,294.1	891.9	741.5	5.929	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	19,316.0	19,142.8	477.3	334.5	3.342	
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	19,316.0	19,196.1	477.3	321.1	3.055	
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	19,316.0	19,474.3	892.0	739.9	5.864	
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	19,316.0	11,452.2				Out of Range @TD
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,316.0	11,675.9				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	19,316.0	8,876.0				Out of Range @TD
GOLDEN SPUR WC 25 #2H - OWB - AWP	19,316.0	11,886.4				Out of Range @TD
GOLDEN SPUR WC 25 #2H - ST01 - AWP	19,316.0	11,350.0				Out of Range @TD
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	19,316.0	4,228.0				Out of Range @TD

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning

Offset Design: STATE LINE OFFSETS - LINDSAY 2 #441H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 187-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,900.0	11,820.0	11,667.0	11,688.3	70.9	23.6	80.60	-7,545.2	-521.0	978.6	890.5	88.19	11.097	
19,000.0	11,820.0	11,667.0	11,688.3	71.8	23.6	80.60	-7,545.2	-521.0	925.7	832.7	93.08	9.946	
19,100.0	11,820.0	11,667.0	11,688.3	72.7	23.6	80.60	-7,545.2	-521.0	881.0	783.2	97.88	9.002	
19,200.0	11,820.0	11,698.7	11,719.3	73.6	23.6	82.81	-7,551.3	-522.6	844.8	742.1	102.77	8.220	
19,300.0	11,820.0	11,711.9	11,732.2	74.6	23.6	83.73	-7,554.2	-523.4	819.5	712.8	106.65	7.684	
19,315.5	11,820.0	11,714.2	11,734.4	74.7	23.6	83.88	-7,554.7	-523.5	816.5	709.3	107.16	7.619	
19,316.0	11,820.0	11,714.2	11,734.5	74.7	23.6	83.89	-7,554.7	-523.6	816.4	709.0	107.47	7.597	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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: STATE LINE OFFSETS - LINDSAY 2 #4H - OWB - AWP

Offset Site Error: 0.0 usft

Survey Program: 25-r.5 MWD

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,300.0	11,820.0	11,558.0	11,573.8	74.6	14.8	74.77	-7,716.6	-631.1	992.3	895.1	97.26	10.203	
19,315.5	11,820.0	11,570.0	11,582.5	74.7	14.8	75.27	-7,724.9	-630.7	987.3	889.5	97.79	10.096	
19,316.0	11,820.0	11,570.0	11,582.5	74.7	14.8	75.27	-7,724.9	-630.7	987.2	888.3	98.90	9.982	CC, ES, 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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	43.0	3.0	3.0	-172.17	-903.0	-124.2	912.5	905.9	6.55	139.256	
100.0	100.0	57.0	100.0	3.2	3.1	-172.17	-903.0	-124.2	911.5	904.5	6.92	131.675	
200.0	200.0	157.0	200.0	3.5	3.9	-172.17	-903.0	-124.2	911.5	903.6	7.90	115.354	
300.0	300.0	257.0	300.0	3.7	5.0	-172.17	-903.0	-124.2	911.5	902.1	9.34	97.566	
400.0	400.0	357.0	400.0	3.9	6.4	-172.17	-903.0	-124.2	911.5	900.4	11.05	82.455	
500.0	500.0	457.0	500.0	4.1	7.8	-172.17	-903.0	-124.2	911.5	898.5	12.92	70.522	
600.0	600.0	557.2	600.0	4.2	9.7	-172.17	-903.0	-124.2	911.5	896.2	15.31	59.517	
700.0	700.0	657.2	700.0	4.4	12.0	-172.17	-903.0	-124.2	911.5	893.1	18.38	49.587	
783.3	783.3	740.2	783.0	4.6	14.0	-172.15	-900.7	-124.2	909.2	888.2	20.99	43.308	CC
800.0	800.0	755.8	798.6	4.6	14.3	-172.15	-900.7	-124.2	909.2	887.7	21.49	42.314	
900.0	900.0	848.9	891.6	4.8	16.5	-172.16	-901.2	-124.2	909.7	885.3	24.47	37.181	
1,000.0	1,000.0	942.0	984.7	4.9	18.7	-172.17	-902.4	-124.2	911.0	883.6	27.48	33.158	
1,100.0	1,100.0	1,057.3	1,100.0	5.1	20.3	-172.17	-903.0	-124.2	911.5	881.8	29.64	30.753	
1,200.0	1,200.0	1,157.3	1,200.0	5.2	21.2	-172.17	-903.0	-124.2	911.5	880.5	31.02	29.385	
1,204.4	1,204.4	1,161.8	1,204.4	5.2	21.3	132.83	-903.0	-124.2	911.5	880.4	31.08	29.327	
1,300.0	1,300.0	1,256.8	1,299.5	5.5	22.2	132.90	-902.4	-124.2	912.1	879.7	32.41	28.148	ES
1,400.0	1,399.8	1,355.1	1,397.8	5.7	23.2	133.08	-902.6	-124.2	915.8	882.1	33.78	27.114	
1,500.0	1,499.5	1,453.1	1,495.8	6.0	24.1	133.37	-902.9	-124.2	922.1	887.0	35.15	26.233	
1,600.0	1,598.7	1,556.1	1,598.7	6.3	25.0	133.81	-903.0	-124.2	930.6	894.3	36.39	25.576	
1,700.0	1,697.7	1,650.5	1,693.0	6.5	25.7	134.40	-902.3	-124.2	939.7	902.2	37.47	25.081	
1,800.0	1,796.8	1,754.2	1,796.8	6.7	26.6	135.01	-903.0	-124.2	950.2	911.5	38.72	24.538	
1,900.0	1,895.8	1,853.2	1,895.8	7.0	27.6	135.60	-903.0	-124.2	960.2	920.0	40.14	23.923	
2,000.0	1,994.8	1,947.7	1,990.2	7.3	28.6	136.15	-902.8	-124.2	970.0	928.5	41.49	23.380	
2,100.0	2,093.8	2,051.3	2,093.8	7.6	29.8	136.73	-903.0	-124.2	980.3	937.1	43.19	22.697	
2,200.0	2,192.9	2,148.4	2,190.9	7.9	31.0	137.27	-902.6	-124.2	990.2	945.3	44.89	22.056	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	35.0	3.0	3.0	37.58	757.9	583.1	956.9	950.3	6.56	145.978	
100.0	100.0	65.0	100.0	3.2	3.0	37.58	757.9	583.1	956.3	949.4	6.84	139.840	
200.0	200.0	166.1	201.1	3.5	3.6	37.57	758.0	583.1	956.3	948.7	7.60	125.756	
300.0	300.0	265.5	300.5	3.7	4.8	37.57	757.9	583.1	956.3	947.2	9.10	105.073	
400.0	400.0	365.0	400.0	3.9	6.4	37.58	757.9	583.1	956.3	945.2	11.03	86.736	
500.0	500.0	465.0	500.0	4.1	8.0	37.58	757.9	583.1	956.3	943.1	13.20	72.443	
600.0	600.0	566.9	601.8	4.2	9.8	37.57	758.0	583.1	956.4	940.8	15.55	61.511	
700.0	700.0	665.0	700.0	4.4	11.5	37.58	757.9	583.1	956.3	938.4	17.89	53.452	
800.0	800.0	767.2	802.2	4.6	13.4	37.57	758.0	583.1	956.4	936.0	20.38	46.934	
900.0	900.0	865.0	900.0	4.8	15.1	37.58	757.9	583.1	956.3	933.5	22.71	42.100	
1,000.0	1,000.0	967.7	1,002.7	4.9	16.9	37.57	757.9	583.1	956.3	931.2	25.15	38.030	
1,056.7	1,056.7	1,021.7	1,056.7	5.0	17.5	37.58	757.9	583.1	956.3	930.4	25.91	36.913	
1,100.0	1,100.0	1,065.0	1,100.0	5.1	17.9	37.58	757.9	583.1	956.3	929.8	26.47	36.128	
1,200.0	1,200.0	1,165.0	1,200.0	5.2	18.4	37.58	757.9	583.1	956.3	929.0	27.25	35.095	
1,300.0	1,300.0	1,265.0	1,300.0	5.5	18.8	-17.46	757.9	583.1	954.6	926.8	27.84	34.283	
1,400.0	1,399.8	1,368.7	1,403.7	5.7	19.5	-17.60	758.1	583.1	949.8	920.9	28.85	32.924	
1,500.0	1,499.5	1,464.5	1,499.5	6.0	20.3	-17.80	757.9	583.1	941.3	911.2	30.06	31.319	
1,600.0	1,598.7	1,563.8	1,598.7	6.3	21.3	-18.10	757.9	583.1	929.7	898.2	31.49	29.523	
1,700.0	1,697.7	1,666.8	1,701.8	6.5	22.6	-18.39	758.1	583.1	916.7	883.4	33.25	27.568	
1,800.0	1,796.8	1,761.9	1,796.8	6.7	23.8	-18.65	757.9	583.1	903.3	868.3	35.00	25.809	
1,900.0	1,895.8	1,866.6	1,901.5	7.0	25.2	-18.96	757.9	583.1	890.1	853.2	36.98	24.068	
2,000.0	1,994.8	1,959.9	1,994.8	7.3	26.6	-19.23	757.9	583.1	876.9	838.0	38.89	22.549	
2,100.0	2,093.8	2,063.0	2,097.9	7.6	28.0	-19.55	758.0	583.1	863.8	822.8	41.00	21.070	
2,200.0	2,192.9	2,158.0	2,192.9	7.9	29.5	-19.85	757.9	583.1	850.6	807.6	43.08	19.748	
2,300.0	2,291.9	2,257.0	2,291.9	8.2	31.1	-20.17	757.9	583.1	837.6	792.3	45.27	18.503	
2,400.0	2,390.9	2,358.0	2,392.9	8.5	32.7	-20.52	758.1	583.1	824.7	777.1	47.59	17.328	
2,500.0	2,489.9	2,455.1	2,489.9	8.8	34.2	-20.85	757.9	583.1	811.5	761.7	49.74	16.315	
2,600.0	2,589.0	2,554.1	2,589.0	9.2	35.7	-21.20	757.9	583.1	798.4	746.6	51.85	15.398	
2,700.0	2,688.0	2,653.2	2,688.0	9.5	37.3	-21.57	757.9	583.1	785.5	731.4	54.10	14.518	
2,800.0	2,787.0	2,752.2	2,787.0	9.9	38.9	-21.95	757.9	583.1	772.5	716.1	56.46	13.683	
2,900.0	2,886.1	2,853.9	2,888.7	10.3	40.8	-22.36	758.2	583.1	759.9	700.7	59.16	12.845	
3,000.0	2,985.1	2,950.3	2,985.1	10.6	42.7	-22.75	757.9	583.1	746.7	685.0	61.76	12.091	
3,100.0	3,084.1	3,049.3	3,084.1	11.0	44.6	-23.17	757.9	583.1	733.9	669.4	64.47	11.384	
3,200.0	3,183.1	3,150.1	3,184.9	11.4	46.6	-23.64	758.6	583.1	721.7	654.5	67.22	10.737	
3,300.0	3,282.2	3,252.0	3,286.8	11.8	48.5	-24.08	758.1	583.1	708.5	638.5	70.01	10.121	
3,400.0	3,381.2	3,346.4	3,381.2	12.1	50.3	-24.52	757.9	583.1	695.7	623.2	72.50	9.595	
3,500.0	3,480.2	3,445.5	3,480.2	12.5	52.1	-25.00	757.9	583.1	683.0	608.0	75.05	9.101	
3,600.0	3,579.2	3,546.1	3,580.8	12.9	53.8	-25.51	758.0	583.1	670.5	593.0	77.50	8.652	
3,700.0	3,678.3	3,643.8	3,678.5	13.3	55.7	-26.03	758.0	583.1	657.9	577.7	80.21	8.203	
3,800.0	3,777.3	3,742.6	3,777.3	13.7	58.0	-26.56	757.9	583.1	645.3	561.9	83.45	7.733	
3,900.0	3,876.3	3,841.6	3,876.3	14.1	60.7	-27.13	757.9	583.1	632.9	545.7	87.18	7.260	
4,000.0	3,975.3	3,946.1	3,980.8	14.5	63.5	-27.77	758.6	583.1	621.1	530.0	91.10	6.818	
4,100.0	4,074.4	4,039.9	4,074.4	14.9	66.2	-28.32	757.9	583.1	608.2	513.4	94.83	6.413	
4,191.5	4,165.0	4,130.5	4,165.0	15.3	68.9	-28.90	757.9	583.1	597.0	498.3	98.67	6.050	
4,200.0	4,173.4	4,138.9	4,173.4	15.3	69.2	-28.95	757.9	583.1	596.0	496.9	99.03	6.018	
4,300.0	4,272.6	4,236.0	4,270.3	15.7	72.1	-29.49	757.9	583.1	584.7	481.5	103.16	5.668	
4,354.3	4,326.5	4,236.0	4,270.3	16.0	72.1	-29.48	757.9	583.1	581.9	479.1	102.78	5.662	CC, ES, SF
4,400.0	4,371.9	4,236.0	4,270.3	16.1	72.1	-29.48	757.9	583.1	583.9	482.1	101.81	5.735	
4,500.0	4,471.5	4,236.0	4,270.3	16.5	72.1	-29.57	757.9	583.1	601.5	503.7	97.78	6.151	
4,600.0	4,571.2	4,236.0	4,270.3	16.9	72.1	-29.76	757.9	583.1	635.9	544.0	91.88	6.920	
4,700.0	4,671.0	4,236.0	4,270.3	17.2	72.1	-30.03	757.9	583.1	684.6	599.5	85.14	8.041	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,800.0	4,770.9	4,236.0	4,270.3	17.5	72.1	-30.42	757.9	583.1	744.8	666.4	78.39	9.501	
4,900.0	4,870.9	4,236.0	4,270.3	17.8	72.1	-30.90	757.9	583.1	814.0	741.8	72.15	11.282	
4,991.5	4,962.4	4,236.0	4,270.3	18.0	72.1	23.54	757.9	583.1	883.3	816.2	67.05	13.173	
5,000.0	4,970.9	4,236.0	4,270.3	18.0	72.1	23.54	757.9	583.1	889.9	823.3	66.61	13.360	
5,100.0	5,070.9	4,236.0	4,270.3	18.0	72.1	23.54	757.9	583.1	970.6	908.8	61.79	15.709	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 #706H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,870.9	5,099.6	5,036.5	17.8	20.3	-145.04	255.2	-617.4	994.6	958.9	35.71	27.854	
4,991.5	4,962.4	5,189.7	5,125.2	18.0	20.7	-90.32	249.5	-602.4	980.0	943.8	36.24	27.042	
5,000.0	4,970.9	5,198.1	5,133.4	18.0	20.7	-90.35	249.0	-601.0	978.6	942.3	36.28	26.972	
5,100.0	5,070.9	5,296.5	5,230.2	18.0	21.2	-90.73	242.7	-584.7	962.0	925.2	36.83	26.123	
5,200.0	5,170.9	5,394.9	5,327.1	18.1	21.6	-91.13	236.4	-568.3	945.5	908.1	37.34	25.321	
5,300.0	5,270.9	5,493.3	5,423.9	18.2	22.0	-91.55	230.1	-552.0	929.0	891.1	37.85	24.544	
5,400.0	5,370.9	5,591.7	5,520.7	18.2	22.5	-91.97	223.9	-535.6	912.5	874.2	38.36	23.789	
5,500.0	5,470.9	5,690.1	5,617.6	18.3	22.9	-92.42	217.6	-519.3	896.1	857.2	38.86	23.058	
5,600.0	5,570.9	5,788.5	5,714.4	18.3	23.4	-92.88	211.3	-502.9	879.8	840.4	39.37	22.348	
5,700.0	5,670.9	5,886.9	5,811.2	18.4	23.8	-93.35	205.0	-486.6	863.5	823.6	39.87	21.659	
5,800.0	5,770.9	5,985.3	5,908.1	18.4	24.3	-93.85	198.8	-470.2	847.3	806.9	40.36	20.991	
5,900.0	5,870.9	6,083.7	6,004.9	18.5	24.7	-94.36	192.5	-453.9	831.1	790.2	40.85	20.343	
6,000.0	5,970.9	6,178.7	6,098.5	18.5	25.1	-94.87	186.5	-438.2	815.1	773.8	41.31	19.732	
6,100.0	6,070.9	6,271.4	6,189.8	18.6	25.5	-95.37	180.8	-423.6	799.9	758.1	41.76	19.156	
6,200.0	6,170.9	6,364.3	6,281.5	18.6	25.9	-95.86	175.5	-409.5	785.4	743.2	42.19	18.614	
6,300.0	6,270.9	6,457.5	6,373.6	18.7	26.3	-96.34	170.3	-396.2	771.7	729.1	42.62	18.106	
6,400.0	6,370.9	6,550.9	6,466.0	18.8	26.8	-96.82	165.5	-383.5	758.8	715.7	43.04	17.631	
6,500.0	6,470.9	6,644.5	6,558.7	18.8	27.2	-97.28	160.9	-371.5	746.6	703.2	43.44	17.186	
6,600.0	6,570.9	6,738.3	6,651.7	18.9	27.6	-97.73	156.5	-360.2	735.3	691.4	43.84	16.772	
6,700.0	6,670.9	6,832.4	6,745.0	18.9	27.9	-98.17	152.4	-349.6	724.6	680.4	44.22	16.386	
6,800.0	6,770.9	6,926.5	6,838.6	19.0	28.3	-98.58	148.6	-339.6	714.8	670.2	44.60	16.027	
6,900.0	6,870.9	7,020.9	6,932.5	19.0	28.7	-98.98	145.1	-330.4	705.7	660.7	44.97	15.694	
7,000.0	6,970.9	7,115.4	7,026.6	19.1	29.1	-99.36	141.8	-321.9	697.3	652.0	45.32	15.386	
7,100.0	7,070.9	7,210.1	7,120.9	19.2	29.5	-99.71	138.8	-314.1	689.7	644.0	45.67	15.103	
7,200.0	7,170.9	7,304.9	7,215.4	19.2	29.8	-100.04	136.1	-307.0	682.8	636.8	46.00	14.843	
7,300.0	7,270.9	7,400.0	7,310.2	19.3	30.2	-100.34	133.6	-300.6	676.7	630.3	46.33	14.604	
7,400.0	7,370.9	7,494.9	7,404.9	19.3	30.5	-100.60	131.5	-295.0	671.3	624.6	46.65	14.389	
7,500.0	7,470.9	7,590.0	7,499.9	19.4	30.8	-100.84	129.6	-290.1	666.5	619.6	46.96	14.194	
7,600.0	7,570.9	7,685.2	7,595.0	19.4	31.2	-101.05	128.0	-285.9	662.6	615.3	47.26	14.019	
7,700.0	7,670.9	7,780.5	7,690.2	19.5	31.5	-101.22	126.7	-282.5	659.3	611.7	47.55	13.865	
7,800.0	7,770.9	7,875.8	7,785.4	19.6	31.8	-101.35	125.6	-279.8	656.7	608.9	47.83	13.731	
7,900.0	7,870.9	7,971.1	7,880.8	19.6	32.0	-101.45	124.9	-277.8	654.8	606.8	48.09	13.618	
8,000.0	7,970.9	8,066.5	7,976.2	19.7	32.3	-101.51	124.4	-276.6	653.7	605.4	48.33	13.527	
8,100.0	8,070.9	8,162.0	8,071.6	19.7	32.4	-101.53	124.2	-276.1	653.2	604.7	48.48	13.474	
8,139.3	8,110.1	8,200.5	8,110.1	19.8	32.4	-101.53	124.2	-276.1	653.2	604.7	48.51	13.466	
8,200.0	8,170.9	8,261.3	8,170.9	19.8	32.4	-101.53	124.2	-276.1	653.2	604.7	48.55	13.454	
8,300.0	8,270.9	8,361.3	8,270.9	19.8	32.5	-101.53	124.2	-276.1	653.2	604.6	48.62	13.434	
8,400.0	8,370.9	8,461.3	8,370.9	19.9	32.5	-101.53	124.2	-276.1	653.2	604.5	48.69	13.415	
8,500.0	8,470.9	8,561.3	8,470.9	20.0	32.5	-101.53	124.2	-276.1	653.2	604.5	48.76	13.396	
8,600.0	8,570.9	8,661.3	8,570.9	20.0	32.5	-101.53	124.2	-276.1	653.2	604.4	48.84	13.376	
8,700.0	8,670.9	8,761.3	8,670.9	20.1	32.5	-101.53	124.2	-276.1	653.2	604.3	48.91	13.356	
8,800.0	8,770.9	8,861.3	8,770.9	20.1	32.6	-101.53	124.2	-276.1	653.2	604.2	48.98	13.337	
8,900.0	8,870.9	8,961.3	8,870.9	20.2	32.6	-101.53	124.2	-276.1	653.2	604.2	49.05	13.317	
9,000.0	8,970.9	9,061.3	8,970.9	20.3	32.6	-101.53	124.2	-276.1	653.2	604.1	49.12	13.297	
9,100.0	9,070.9	9,161.3	9,070.9	20.3	32.6	-101.53	124.2	-276.1	653.2	604.0	49.20	13.278	
9,200.0	9,170.9	9,261.3	9,170.9	20.4	32.6	-101.53	124.2	-276.1	653.2	604.0	49.27	13.258	
9,300.0	9,270.9	9,361.3	9,270.9	20.4	32.7	-101.53	124.2	-276.1	653.2	603.9	49.34	13.238	
9,400.0	9,370.9	9,461.3	9,370.9	20.5	32.7	-101.53	124.2	-276.1	653.2	603.8	49.42	13.218	
9,500.0	9,470.9	9,561.3	9,470.9	20.6	32.7	-101.53	124.2	-276.1	653.2	603.7	49.49	13.198	
9,600.0	9,570.9	9,661.3	9,570.9	20.6	32.7	-101.53	124.2	-276.1	653.2	603.7	49.57	13.178	
9,700.0	9,670.9	9,761.3	9,670.9	20.7	32.7	-101.53	124.2	-276.1	653.2	603.6	49.65	13.158	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 #706H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,770.9	9,861.3	9,770.9	20.8	32.8	-101.53	124.2	-276.1	653.2	603.5	49.72	13.138	
9,900.0	9,870.9	9,961.3	9,870.9	20.8	32.8	-101.53	124.2	-276.1	653.2	603.4	49.80	13.117	
10,000.0	9,970.9	10,061.3	9,970.9	20.9	32.8	-101.53	124.2	-276.1	653.2	603.3	49.87	13.097	
10,100.0	10,070.9	10,161.3	10,070.9	20.9	32.8	-101.53	124.2	-276.1	653.2	603.3	49.95	13.077	
10,200.0	10,170.9	10,261.3	10,170.9	21.0	32.8	-101.53	124.2	-276.1	653.2	603.2	50.03	13.057	
10,300.0	10,270.9	10,361.3	10,270.9	21.1	32.9	-101.53	124.2	-276.1	653.2	603.1	50.11	13.036	
10,400.0	10,370.9	10,461.3	10,370.9	21.1	32.9	-101.53	124.2	-276.1	653.2	603.0	50.19	13.016	
10,500.0	10,470.9	10,561.3	10,470.9	21.2	32.9	-101.53	124.2	-276.1	653.2	603.0	50.27	12.995	
10,600.0	10,570.9	10,661.3	10,570.9	21.3	32.9	-101.53	124.2	-276.1	653.2	602.9	50.35	12.975	
10,700.0	10,670.9	10,761.3	10,670.9	21.3	32.9	-101.53	124.2	-276.1	653.2	602.8	50.42	12.954	
10,800.0	10,770.9	10,861.3	10,770.9	21.4	33.0	-101.53	124.2	-276.1	653.2	602.7	50.50	12.934	
10,900.0	10,870.9	10,961.3	10,870.9	21.4	33.0	-101.53	124.2	-276.1	653.2	602.6	50.58	12.915	
11,000.0	10,970.9	11,082.8	10,991.7	21.5	33.0	-100.65	134.5	-276.3	651.8	600.8	50.97	12.788	
11,100.0	11,070.9	11,198.2	11,102.2	21.6	33.0	-97.77	167.4	-276.8	647.5	595.9	51.59	12.552	
11,200.0	11,170.9	11,297.3	11,190.1	21.6	33.0	-93.74	212.9	-277.7	643.3	591.1	52.13	12.340	
11,262.8	11,233.6	11,350.5	11,233.6	21.7	33.1	-91.03	243.3	-278.2	642.3	589.9	52.34	12.271	CC, ES
11,300.0	11,270.9	11,378.8	11,255.7	21.7	33.1	-89.44	261.2	-278.5	642.7	590.3	52.40	12.266	SF
11,371.6	11,342.5	11,427.3	11,291.2	21.7	33.1	-86.51	294.1	-279.1	646.3	594.0	52.36	12.343	
11,375.0	11,345.9	11,429.4	11,292.6	21.7	33.1	92.94	295.6	-279.2	646.6	594.2	52.35	12.350	
11,400.0	11,370.9	11,443.9	11,302.7	21.7	33.1	93.61	306.1	-279.3	649.0	596.7	52.29	12.412	
11,425.0	11,395.8	11,456.8	11,311.4	21.7	33.1	94.14	315.6	-279.5	652.1	599.9	52.20	12.493	
11,450.0	11,420.5	11,468.1	11,318.8	21.6	33.1	94.51	324.1	-279.7	655.9	603.8	52.08	12.594	
11,475.0	11,445.1	11,477.8	11,325.1	21.6	33.1	94.69	331.6	-279.8	660.6	608.6	51.95	12.715	
11,500.0	11,469.3	11,486.1	11,330.3	21.5	33.1	94.67	338.0	-279.9	666.1	614.3	51.81	12.858	
11,525.0	11,493.3	11,493.0	11,334.6	21.5	33.1	94.44	343.4	-280.0	672.5	620.9	51.65	13.021	
11,550.0	11,516.8	11,500.0	11,338.9	21.4	33.1	94.12	348.9	-280.1	679.8	628.3	51.49	13.203	
11,575.0	11,539.8	11,500.0	11,338.9	21.3	33.1	93.09	348.9	-280.1	687.9	636.7	51.27	13.417	
11,600.0	11,562.3	11,500.0	11,338.9	21.3	33.1	91.93	348.9	-280.1	696.9	645.9	51.06	13.649	
11,625.0	11,584.2	11,508.6	11,344.1	21.2	33.1	91.40	355.8	-280.2	706.7	655.8	50.93	13.876	
11,650.0	11,605.4	11,509.9	11,344.9	21.2	33.1	90.12	356.8	-280.3	717.2	666.5	50.74	14.135	
11,675.0	11,625.9	11,510.3	11,345.1	21.1	33.1	88.65	357.1	-280.3	728.5	677.9	50.55	14.410	
11,700.0	11,645.6	11,509.9	11,344.9	21.1	33.1	86.99	356.8	-280.3	740.4	690.0	50.37	14.698	
11,725.0	11,664.5	11,500.0	11,338.9	21.0	33.1	84.39	348.9	-280.1	752.9	702.8	50.14	15.016	
11,750.0	11,682.5	11,500.0	11,338.9	21.0	33.1	82.59	348.9	-280.1	765.9	715.9	49.99	15.323	
11,775.0	11,699.6	11,500.0	11,338.9	21.0	33.1	80.70	348.9	-280.1	779.3	729.5	49.83	15.638	
11,800.0	11,715.7	11,500.0	11,338.9	20.9	33.1	78.75	348.9	-280.1	793.1	743.4	49.69	15.962	
11,825.0	11,730.8	11,500.0	11,338.9	20.9	33.1	76.74	348.9	-280.1	807.2	757.7	49.55	16.292	
11,850.0	11,744.8	11,500.0	11,338.9	20.9	33.1	74.69	348.9	-280.1	821.6	772.2	49.41	16.629	
11,875.0	11,757.7	11,500.0	11,338.9	20.9	33.1	72.62	348.9	-280.1	836.3	787.0	49.28	16.970	
11,900.0	11,769.4	11,484.2	11,329.1	20.8	33.1	69.39	336.5	-279.9	850.8	801.7	49.11	17.324	
11,925.0	11,780.1	11,478.8	11,325.7	20.8	33.1	67.00	332.3	-279.8	865.5	816.5	48.98	17.670	
11,950.0	11,789.5	11,473.0	11,322.0	20.8	33.1	64.63	327.9	-279.7	880.1	831.3	48.85	18.016	
11,975.0	11,797.6	11,467.0	11,318.1	20.8	33.1	62.32	323.3	-279.6	894.7	846.0	48.73	18.361	
12,000.0	11,804.6	11,450.0	11,306.8	20.8	33.1	59.49	310.6	-279.4	909.3	860.7	48.59	18.713	
12,025.0	11,810.2	11,450.0	11,306.8	20.8	33.1	57.72	310.6	-279.4	923.5	875.0	48.49	19.045	
12,050.0	11,814.6	11,450.0	11,306.8	20.8	33.1	56.01	310.6	-279.4	937.6	889.2	48.39	19.375	
12,075.0	11,817.7	11,450.0	11,306.8	20.9	33.1	54.36	310.6	-279.4	951.5	903.2	48.29	19.704	
12,100.0	11,819.5	11,432.4	11,294.8	20.9	33.1	52.05	297.8	-279.2	964.9	916.7	48.18	20.028	
12,121.6	11,820.0	11,425.8	11,290.1	20.9	33.1	50.53	293.1	-279.1	976.3	928.2	48.09	20.302	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,700.0	3,678.3	3,949.5	3,883.8	13.3	15.5	-136.11	348.9	-696.2	994.1	966.6	27.47	36.188	
3,800.0	3,777.3	4,048.2	3,980.3	13.7	16.0	-136.81	343.2	-676.5	983.4	955.1	28.26	34.795	
3,900.0	3,876.3	4,146.9	4,076.8	14.1	16.4	-137.53	337.6	-656.8	972.8	943.7	29.06	33.477	
4,000.0	3,975.3	4,245.6	4,173.4	14.5	16.9	-138.26	331.9	-637.1	962.3	932.5	29.86	32.230	
4,100.0	4,074.4	4,344.2	4,269.9	14.9	17.3	-139.00	326.3	-617.3	952.1	921.4	30.66	31.048	
4,191.5	4,165.0	4,434.6	4,358.2	15.3	17.7	-139.70	321.1	-599.3	942.8	911.4	31.40	30.025	
4,200.0	4,173.4	4,442.9	4,366.4	15.3	17.8	-139.76	320.6	-597.6	942.0	910.5	31.47	29.936	
4,300.0	4,272.6	4,541.6	4,462.9	15.7	18.2	-140.43	315.0	-577.9	931.3	898.9	32.31	28.824	
4,400.0	4,371.9	4,640.3	4,559.5	16.1	18.7	-141.04	309.3	-558.2	919.4	886.2	33.11	27.769	
4,500.0	4,471.5	4,738.9	4,655.9	16.5	19.1	-141.60	303.7	-538.5	906.2	872.3	33.89	26.737	
4,600.0	4,571.2	4,837.4	4,752.3	16.9	19.6	-142.10	298.0	-518.8	891.8	857.2	34.67	25.725	
4,700.0	4,671.0	4,935.8	4,848.6	17.2	20.0	-142.54	292.4	-499.1	876.2	840.8	35.43	24.731	
4,800.0	4,770.9	5,034.1	4,944.7	17.5	20.5	-142.93	286.7	-479.5	859.2	823.1	36.17	23.755	
4,900.0	4,870.9	5,132.2	5,040.7	17.8	20.9	-143.25	281.1	-459.9	841.0	804.1	36.89	22.799	
4,991.5	4,962.4	5,221.8	5,128.3	18.0	21.4	-88.50	276.0	-441.9	823.1	785.6	37.46	21.970	
5,000.0	4,970.9	5,230.1	5,136.4	18.0	21.4	-88.53	275.5	-440.3	821.4	783.9	37.51	21.898	
5,100.0	5,070.9	5,327.9	5,232.1	18.0	21.8	-88.90	269.9	-420.7	801.2	763.1	38.11	21.026	
5,200.0	5,170.9	5,425.8	5,327.8	18.1	22.3	-89.29	264.3	-401.2	781.1	742.4	38.67	20.197	
5,300.0	5,270.9	5,523.6	5,423.5	18.2	22.8	-89.71	258.7	-381.6	761.1	721.8	39.24	19.393	
5,400.0	5,370.9	5,621.4	5,519.1	18.2	23.2	-90.14	253.1	-362.1	741.0	701.2	39.81	18.614	
5,500.0	5,470.9	5,719.2	5,614.8	18.3	23.7	-90.60	247.5	-342.5	721.0	680.7	40.38	17.858	
5,600.0	5,570.9	5,817.0	5,710.5	18.3	24.1	-91.08	241.9	-323.0	701.1	660.2	40.94	17.125	
5,700.0	5,670.9	5,914.8	5,806.2	18.4	24.6	-91.60	236.3	-303.4	681.2	639.7	41.50	16.414	
5,800.0	5,770.9	6,012.6	5,901.8	18.4	25.0	-92.14	230.7	-283.9	661.4	619.3	42.06	15.725	
5,900.0	5,870.9	6,110.5	5,997.5	18.5	25.5	-92.72	225.0	-264.3	641.6	599.0	42.61	15.057	
6,000.0	5,970.9	6,208.3	6,093.2	18.5	26.0	-93.33	219.4	-244.8	621.9	578.8	43.16	14.409	
6,100.0	6,070.9	6,306.1	6,188.9	18.6	26.4	-93.98	213.8	-225.2	602.3	558.6	43.70	13.782	
6,200.0	6,170.9	6,403.9	6,284.5	18.6	26.9	-94.68	208.2	-205.7	582.8	538.5	44.24	13.173	
6,300.0	6,270.9	6,501.7	6,380.2	18.7	27.3	-95.42	202.6	-186.2	563.3	518.5	44.76	12.584	
6,400.0	6,370.9	6,599.5	6,475.9	18.8	27.8	-96.22	197.0	-166.6	543.9	498.7	45.27	12.014	
6,500.0	6,470.9	6,697.3	6,571.6	18.8	28.2	-97.08	191.4	-147.1	524.7	478.9	45.77	11.463	
6,600.0	6,570.9	6,795.2	6,667.3	18.9	28.7	-98.00	185.8	-127.5	505.6	459.3	46.26	10.929	
6,700.0	6,670.9	6,893.0	6,762.9	18.9	29.2	-98.99	180.2	-108.0	486.6	439.8	46.72	10.414	
6,800.0	6,770.9	6,990.8	6,858.6	19.0	29.6	-100.06	174.6	-88.4	467.7	420.6	47.16	9.918	
6,900.0	6,870.9	7,088.6	6,954.3	19.0	30.1	-101.22	169.0	-68.9	449.1	401.5	47.58	9.439	
7,000.0	6,970.9	7,186.4	7,050.0	19.1	30.5	-102.48	163.4	-49.3	430.6	382.6	47.96	8.979	
7,100.0	7,070.9	7,284.2	7,145.6	19.2	31.0	-103.85	157.8	-29.8	412.3	364.0	48.30	8.537	
7,200.0	7,170.9	7,382.0	7,241.3	19.2	31.5	-105.34	152.2	-10.2	394.3	345.7	48.60	8.115	
7,300.0	7,270.9	7,479.9	7,337.0	19.3	31.9	-106.98	146.6	9.3	376.6	327.8	48.84	7.712	
7,400.0	7,370.9	7,573.8	7,429.0	19.3	32.4	-108.65	141.3	27.7	359.7	310.7	49.00	7.340	
7,500.0	7,470.9	7,667.3	7,520.9	19.4	32.8	-110.33	136.5	44.5	344.3	295.2	49.10	7.013	
7,600.0	7,570.9	7,761.4	7,613.6	19.4	33.2	-111.99	132.1	60.0	330.6	281.5	49.15	6.727	
7,700.0	7,670.9	7,856.0	7,707.0	19.5	33.6	-113.63	128.0	74.0	318.5	269.3	49.16	6.479	
7,800.0	7,770.9	7,951.1	7,801.2	19.6	34.0	-115.20	124.4	86.7	307.9	258.8	49.13	6.268	
7,900.0	7,870.9	8,046.6	7,895.9	19.6	34.4	-116.67	121.2	97.9	298.8	249.7	49.08	6.088	
8,000.0	7,970.9	8,142.4	7,991.2	19.7	34.8	-118.02	118.4	107.6	291.1	242.1	49.02	5.939	
8,100.0	8,070.9	8,238.6	8,087.0	19.7	35.2	-119.22	116.0	115.8	284.8	235.8	48.97	5.816	
8,200.0	8,170.9	8,335.0	8,183.2	19.8	35.6	-120.23	114.1	122.4	279.8	230.8	48.93	5.718	
8,300.0	8,270.9	8,431.6	8,279.7	19.8	35.9	-121.02	112.7	127.6	276.0	227.1	48.93	5.640	
8,400.0	8,370.9	8,528.4	8,376.4	19.9	36.2	-121.59	111.6	131.1	273.4	224.4	48.97	5.583	
8,500.0	8,470.9	8,625.3	8,473.2	20.0	36.5	-121.91	111.1	133.1	272.0	222.9	49.03	5.547	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.0	8,570.9	8,722.9	8,570.9	20.0	36.6	-121.99	110.9	133.6	271.6	222.5	49.09	5.533	
8,700.0	8,670.9	8,822.9	8,670.9	20.1	36.6	-121.99	110.9	133.6	271.6	222.5	49.17	5.524	
8,800.0	8,770.9	8,922.9	8,770.9	20.1	36.6	-121.99	110.9	133.6	271.6	222.4	49.25	5.516	
8,900.0	8,870.9	9,022.9	8,870.9	20.2	36.6	-121.99	110.9	133.6	271.6	222.3	49.33	5.507	
9,000.0	8,970.9	9,122.9	8,970.9	20.3	36.6	-121.99	110.9	133.6	271.6	222.2	49.41	5.498	
9,100.0	9,070.9	9,222.9	9,070.9	20.3	36.6	-121.99	110.9	133.6	271.6	222.1	49.48	5.489	
9,200.0	9,170.9	9,322.9	9,170.9	20.4	36.7	-121.99	110.9	133.6	271.6	222.1	49.56	5.480	
9,300.0	9,270.9	9,422.9	9,270.9	20.4	36.7	-121.99	110.9	133.6	271.6	222.0	49.64	5.472	
9,400.0	9,370.9	9,522.9	9,370.9	20.5	36.7	-121.99	110.9	133.6	271.6	221.9	49.72	5.463	
9,500.0	9,470.9	9,622.9	9,470.9	20.6	36.7	-121.99	110.9	133.6	271.6	221.8	49.80	5.454	
9,600.0	9,570.9	9,722.9	9,570.9	20.6	36.7	-121.99	110.9	133.6	271.6	221.7	49.89	5.445	
9,700.0	9,670.9	9,822.9	9,670.9	20.7	36.7	-121.99	110.9	133.6	271.6	221.7	49.97	5.436	
9,800.0	9,770.9	9,922.9	9,770.9	20.8	36.8	-121.99	110.9	133.6	271.6	221.6	50.05	5.427	
9,900.0	9,870.9	10,022.9	9,870.9	20.8	36.8	-121.99	110.9	133.6	271.6	221.5	50.13	5.418	
10,000.0	9,970.9	10,122.9	9,970.9	20.9	36.8	-121.99	110.9	133.6	271.6	221.4	50.21	5.409	
10,100.0	10,070.9	10,222.9	10,070.9	20.9	36.8	-121.99	110.9	133.6	271.6	221.3	50.30	5.400	
10,200.0	10,170.9	10,322.9	10,170.9	21.0	36.8	-121.99	110.9	133.6	271.6	221.2	50.38	5.392	
10,300.0	10,270.9	10,422.9	10,270.9	21.1	36.8	-121.99	110.9	133.6	271.6	221.2	50.46	5.383	
10,400.0	10,370.9	10,522.9	10,370.9	21.1	36.9	-121.99	110.9	133.6	271.6	221.1	50.55	5.374	
10,500.0	10,470.9	10,622.9	10,470.9	21.2	36.9	-121.99	110.9	133.6	271.6	221.0	50.63	5.365	
10,600.0	10,570.9	10,722.9	10,570.9	21.3	36.9	-121.99	110.9	133.6	271.6	220.9	50.72	5.356	
10,700.0	10,670.9	10,822.9	10,670.9	21.3	36.9	-121.99	110.9	133.6	271.6	220.8	50.80	5.347	
10,800.0	10,770.9	10,922.9	10,770.9	21.4	36.9	-121.99	110.9	133.6	271.6	220.7	50.89	5.338	
10,900.0	10,870.9	11,022.9	10,870.9	21.4	36.9	-121.99	110.9	133.6	271.6	220.7	50.98	5.329	
11,000.0	10,970.9	11,122.9	10,970.9	21.5	37.0	-121.99	110.9	133.6	271.6	220.6	51.06	5.320	
11,100.0	11,070.9	11,222.9	11,070.9	21.6	37.0	-121.99	110.9	133.6	271.6	220.5	51.15	5.311	
11,200.0	11,170.9	11,322.9	11,170.9	21.6	37.0	-121.99	110.9	133.6	271.6	220.4	51.24	5.302	
11,300.0	11,270.9	11,422.9	11,270.9	21.7	37.0	-121.99	110.9	133.6	271.6	220.3	51.32	5.293	
11,371.6	11,342.5	11,494.5	11,342.5	21.7	37.0	-121.99	110.9	133.6	271.6	220.3	51.37	5.287	
11,375.0	11,345.9	11,498.5	11,346.5	21.7	37.0	57.36	110.9	133.6	271.6	220.2	51.39	5.286	
11,400.0	11,370.9	11,533.9	11,381.8	21.7	37.0	57.93	112.4	133.6	270.6	218.9	51.75	5.230	
11,425.0	11,395.8	11,568.4	11,416.1	21.7	37.0	59.46	116.3	133.5	268.1	215.8	52.27	5.128	
11,450.0	11,420.5	11,601.1	11,448.2	21.6	37.0	61.86	122.3	133.5	264.1	211.1	52.95	4.987	
11,475.0	11,445.1	11,631.5	11,477.6	21.6	37.0	65.02	129.9	133.4	259.0	205.3	53.75	4.819	
11,500.0	11,469.3	11,659.1	11,504.0	21.5	37.0	68.76	138.3	133.4	253.3	198.6	54.61	4.637	
11,525.0	11,493.3	11,683.8	11,527.0	21.5	37.0	72.85	147.2	133.3	247.2	191.8	55.49	4.455	
11,550.0	11,516.8	11,705.5	11,546.9	21.4	37.0	77.03	155.9	133.3	241.5	185.1	56.33	4.286	
11,575.0	11,539.8	11,724.3	11,563.7	21.3	37.0	81.05	164.2	133.2	236.4	179.4	57.07	4.143	
11,600.0	11,562.3	11,740.3	11,577.8	21.3	37.0	84.71	171.8	133.1	232.6	175.0	57.62	4.036	
11,625.0	11,584.2	11,753.8	11,589.5	21.2	37.0	87.84	178.6	133.1	230.4	172.5	57.95	3.976	
11,639.6	11,596.6	11,760.6	11,595.3	21.2	37.0	89.38	182.1	133.1	230.1	172.0	58.01	3.966	CC, ES, SF
11,650.0	11,605.4	11,765.0	11,599.0	21.2	37.0	90.34	184.4	133.1	230.2	172.3	57.99	3.971	
11,675.0	11,625.9	11,774.0	11,606.6	21.1	37.0	92.17	189.3	133.0	232.3	174.6	57.74	4.024	
11,700.0	11,645.6	11,781.2	11,612.6	21.1	37.0	93.32	193.3	133.0	236.8	179.6	57.21	4.139	
11,725.0	11,664.5	11,786.7	11,617.1	21.0	37.0	93.78	196.4	133.0	243.6	187.2	56.47	4.314	
11,750.0	11,682.5	11,790.7	11,620.4	21.0	37.0	93.57	198.7	133.0	252.8	197.2	55.58	4.548	
11,775.0	11,699.6	11,793.4	11,622.6	21.0	37.0	92.73	200.2	132.9	263.9	209.3	54.61	4.834	
11,800.0	11,715.7	11,794.8	11,623.8	20.9	37.0	91.25	201.1	132.9	277.0	223.4	53.62	5.166	
11,825.0	11,730.8	11,795.2	11,624.1	20.9	37.0	89.19	201.3	132.9	291.6	238.9	52.66	5.537	
11,850.0	11,744.8	11,794.7	11,623.7	20.9	37.0	86.58	201.0	132.9	307.5	255.8	51.77	5.941	
11,875.0	11,757.7	11,793.3	11,622.6	20.9	37.0	83.46	200.2	132.9	324.6	273.6	50.95	6.371	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,900.0	11,769.4	11,791.2	11,620.8	20.8	37.0	79.90	199.0	133.0	342.5	292.3	50.21	6.821	
11,925.0	11,780.1	11,788.4	11,618.5	20.8	37.0	76.00	197.4	133.0	361.0	311.5	49.55	7.286	
11,950.0	11,789.5	11,785.0	11,615.7	20.8	37.0	71.83	195.4	133.0	380.1	331.1	48.96	7.763	
11,975.0	11,797.6	11,781.1	11,612.5	20.8	37.0	67.53	193.2	133.0	399.5	351.0	48.44	8.247	
12,000.0	11,804.6	11,775.0	11,607.4	20.8	37.0	62.90	189.8	133.0	419.1	371.1	47.98	8.736	
12,025.0	11,810.2	11,775.0	11,607.4	20.8	37.0	59.51	189.8	133.0	438.9	391.3	47.55	9.230	
12,050.0	11,814.6	11,766.4	11,600.2	20.8	37.0	54.84	185.2	133.1	458.6	411.4	47.19	9.719	
12,075.0	11,817.7	11,760.8	11,595.4	20.9	37.0	50.96	182.2	133.1	478.3	431.5	46.85	10.209	
12,100.0	11,819.5	11,750.0	11,586.2	20.9	37.0	46.78	176.6	133.1	497.9	451.3	46.57	10.692	
12,121.6	11,820.0	11,750.0	11,586.2	20.9	37.0	44.53	176.6	133.1	514.6	468.3	46.30	11.115	
12,200.0	11,820.0	11,725.0	11,564.3	21.0	37.0	41.94	164.5	133.2	576.6	531.0	45.59	12.647	
12,300.0	11,820.0	11,710.2	11,551.1	21.2	37.0	40.49	157.9	133.2	659.2	614.3	44.83	14.703	
12,400.0	11,820.0	11,700.0	11,541.9	21.4	37.0	39.53	153.6	133.3	745.1	700.8	44.25	16.839	
12,500.0	11,820.0	11,675.0	11,518.8	21.7	37.0	37.29	143.9	133.3	833.2	789.3	43.90	18.982	
12,600.0	11,820.0	11,665.1	11,509.5	22.0	37.0	36.45	140.4	133.4	923.3	879.7	43.57	21.192	

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,500.0	4,471.5	4,799.8	4,707.8	16.5	19.8	41.75	146.1	1,292.9	980.1	945.7	34.34	28.543	
4,600.0	4,571.2	4,895.1	4,800.2	16.9	20.3	41.98	146.5	1,269.9	950.4	915.4	35.04	27.122	
4,700.0	4,671.0	4,990.7	4,893.0	17.2	20.7	42.17	146.9	1,246.8	922.0	886.3	35.74	25.796	
4,800.0	4,770.9	5,086.9	4,986.3	17.5	21.2	42.32	147.3	1,223.5	894.9	858.5	36.44	24.560	
4,900.0	4,870.9	5,183.4	5,080.0	17.8	21.7	42.42	147.8	1,200.2	869.1	832.0	37.13	23.410	
4,991.5	4,962.4	5,272.0	5,166.0	18.0	22.1	97.46	148.1	1,178.7	846.6	808.9	37.70	22.453	
5,000.0	4,970.9	5,280.3	5,174.0	18.0	22.1	97.48	148.2	1,176.7	844.5	806.8	37.75	22.371	
5,100.0	5,070.9	5,377.3	5,268.1	18.0	22.6	97.67	148.6	1,153.3	820.5	782.1	38.37	21.382	
5,200.0	5,170.9	5,474.3	5,362.3	18.1	23.1	97.87	149.0	1,129.8	796.4	757.5	38.97	20.439	
5,300.0	5,270.9	5,571.3	5,456.4	18.2	23.5	98.09	149.4	1,106.3	772.4	732.9	39.56	19.524	
5,400.0	5,370.9	5,668.4	5,550.6	18.2	24.0	98.31	149.8	1,082.8	748.4	708.2	40.16	18.636	
5,500.0	5,470.9	5,765.4	5,644.7	18.3	24.5	98.56	150.2	1,059.4	724.4	683.6	40.76	17.774	
5,600.0	5,570.9	5,862.4	5,738.8	18.3	24.9	98.82	150.6	1,035.9	700.4	659.1	41.35	16.937	
5,700.0	5,670.9	5,959.5	5,833.0	18.4	25.4	99.10	151.0	1,012.4	676.4	634.5	41.95	16.125	
5,800.0	5,770.9	6,056.5	5,927.1	18.4	25.9	99.39	151.4	989.0	652.5	609.9	42.55	15.336	
5,900.0	5,870.9	6,153.5	6,021.3	18.5	26.3	99.72	151.8	965.5	628.5	585.4	43.14	14.570	
6,000.0	5,970.9	6,250.6	6,115.4	18.5	26.8	100.06	152.3	942.0	604.6	560.9	43.73	13.825	
6,100.0	6,070.9	6,347.6	6,209.6	18.6	27.3	100.44	152.7	918.6	580.7	536.4	44.32	13.102	
6,200.0	6,170.9	6,444.6	6,303.7	18.6	27.7	100.85	153.1	895.1	556.9	512.0	44.91	12.400	
6,300.0	6,270.9	6,541.6	6,397.9	18.7	28.2	101.29	153.5	871.6	533.0	487.5	45.49	11.717	
6,400.0	6,370.9	6,638.7	6,492.0	18.8	28.7	101.78	153.9	848.1	509.2	463.1	46.07	11.054	
6,500.0	6,470.9	6,735.7	6,586.2	18.8	29.2	102.31	154.3	824.7	485.4	438.8	46.64	10.409	
6,600.0	6,570.9	6,832.7	6,680.3	18.9	29.6	102.90	154.7	801.2	461.7	414.5	47.20	9.783	
6,700.0	6,670.9	6,929.8	6,774.5	18.9	30.1	103.55	155.1	777.7	438.0	390.3	47.74	9.175	
6,800.0	6,770.9	7,026.8	6,868.6	19.0	30.6	104.28	155.5	754.3	414.4	366.2	48.28	8.584	
6,900.0	6,870.9	7,123.8	6,962.8	19.0	31.0	105.09	155.9	730.8	390.9	342.1	48.79	8.011	
7,000.0	6,970.9	7,219.1	7,055.2	19.1	31.5	105.98	156.3	707.8	367.5	318.2	49.28	7.457	
7,100.0	7,070.9	7,310.9	7,144.6	19.2	32.0	106.91	156.7	686.8	345.3	295.6	49.76	6.940	
7,200.0	7,170.9	7,403.4	7,235.0	19.2	32.4	107.88	157.1	667.0	324.8	274.6	50.18	6.473	
7,300.0	7,270.9	7,496.5	7,326.2	19.3	32.8	108.90	157.4	648.6	305.9	255.3	50.56	6.050	
7,400.0	7,370.9	7,590.3	7,418.4	19.3	33.3	109.96	157.7	631.5	288.6	237.7	50.90	5.670	
7,500.0	7,470.9	7,684.5	7,511.3	19.4	33.7	111.03	158.0	615.9	273.0	221.8	51.20	5.331	
7,600.0	7,570.9	7,779.3	7,605.0	19.4	34.1	112.12	158.2	601.8	259.0	207.5	51.47	5.032	
7,700.0	7,670.9	7,874.5	7,699.4	19.5	34.5	113.18	158.4	589.1	246.6	194.9	51.69	4.770	
7,800.0	7,770.9	7,970.1	7,794.3	19.6	34.9	114.21	158.6	578.0	235.8	183.9	51.89	4.545	
7,900.0	7,870.9	8,066.0	7,889.8	19.6	35.3	115.17	158.8	568.4	226.7	174.6	52.07	4.353	
8,000.0	7,970.9	8,162.3	7,985.7	19.7	35.7	116.03	158.9	560.4	219.1	166.9	52.23	4.195	
8,100.0	8,070.9	8,258.8	8,082.0	19.7	36.0	116.76	159.0	554.0	213.1	160.7	52.39	4.068	
8,200.0	8,170.9	8,355.4	8,178.6	19.8	36.3	117.33	159.1	549.2	208.7	156.1	52.55	3.971	
8,300.0	8,270.9	8,452.3	8,275.3	19.8	36.6	117.72	159.2	546.0	205.7	153.0	52.71	3.903	
8,400.0	8,370.9	8,549.2	8,372.2	19.9	36.8	117.91	159.2	544.5	204.3	151.5	52.82	3.869	
8,458.7	8,429.6	8,606.5	8,429.6	19.9	36.9	117.93	159.2	544.4	204.2	151.3	52.85	3.863	
8,500.0	8,470.9	8,647.8	8,470.9	20.0	36.9	117.93	159.2	544.4	204.2	151.3	52.89	3.860	
8,600.0	8,570.9	8,747.8	8,570.9	20.0	36.9	117.93	159.2	544.4	204.2	151.2	52.98	3.854	
8,700.0	8,670.9	8,847.8	8,670.9	20.1	37.0	117.93	159.2	544.4	204.2	151.1	53.05	3.849	
8,800.0	8,770.9	8,947.8	8,770.9	20.1	37.0	117.93	159.2	544.4	204.2	151.1	53.12	3.844	
8,900.0	8,870.9	9,047.8	8,870.9	20.2	37.0	117.93	159.2	544.4	204.2	151.0	53.20	3.838	
9,000.0	8,970.9	9,147.8	8,970.9	20.3	37.0	117.93	159.2	544.4	204.2	150.9	53.27	3.833	
9,100.0	9,070.9	9,247.8	9,070.9	20.3	37.0	117.93	159.2	544.4	204.2	150.8	53.34	3.828	
9,200.0	9,170.9	9,347.8	9,170.9	20.4	37.1	117.93	159.2	544.4	204.2	150.8	53.42	3.822	
9,300.0	9,270.9	9,447.8	9,270.9	20.4	37.1	117.93	159.2	544.4	204.2	150.7	53.49	3.817	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.0	9,370.9	9,547.8	9,370.9	20.5	37.1	117.93	159.2	544.4	204.2	150.6	53.57	3.812	
9,500.0	9,470.9	9,647.8	9,470.9	20.6	37.1	117.93	159.2	544.4	204.2	150.5	53.65	3.806	
9,600.0	9,570.9	9,747.8	9,570.9	20.6	37.2	117.93	159.2	544.4	204.2	150.5	53.72	3.801	
9,700.0	9,670.9	9,847.8	9,670.9	20.7	37.2	117.93	159.2	544.4	204.2	150.4	53.80	3.795	
9,800.0	9,770.9	9,947.8	9,770.9	20.8	37.2	117.93	159.2	544.4	204.2	150.3	53.88	3.790	
9,900.0	9,870.9	10,047.8	9,870.9	20.8	37.2	117.93	159.2	544.4	204.2	150.2	53.95	3.785	
10,000.0	9,970.9	10,147.8	9,970.9	20.9	37.2	117.93	159.2	544.4	204.2	150.2	54.03	3.779	
10,100.0	10,070.9	10,247.8	10,070.9	20.9	37.3	117.93	159.2	544.4	204.2	150.1	54.11	3.774	
10,200.0	10,170.9	10,347.8	10,170.9	21.0	37.3	117.93	159.2	544.4	204.2	150.0	54.19	3.768	
10,300.0	10,270.9	10,447.8	10,270.9	21.1	37.3	117.93	159.2	544.4	204.2	149.9	54.27	3.763	
10,400.0	10,370.9	10,547.8	10,370.9	21.1	37.3	117.93	159.2	544.4	204.2	149.8	54.35	3.757	
10,500.0	10,470.9	10,647.8	10,470.9	21.2	37.4	117.93	159.2	544.4	204.2	149.8	54.43	3.752	
10,600.0	10,570.9	10,747.8	10,570.9	21.3	37.4	117.93	159.2	544.4	204.2	149.7	54.51	3.746	
10,700.0	10,670.9	10,847.8	10,670.9	21.3	37.4	117.93	159.2	544.4	204.2	149.6	54.59	3.741	
10,800.0	10,770.9	10,947.8	10,770.9	21.4	37.4	117.93	159.2	544.4	204.2	149.5	54.67	3.735	
10,900.0	10,870.9	11,047.8	10,870.9	21.4	37.5	117.93	159.2	544.4	204.2	149.4	54.75	3.730	
11,000.0	10,970.9	11,147.8	10,970.9	21.5	37.5	117.93	159.2	544.4	204.2	149.4	54.83	3.724	
11,100.0	11,070.9	11,247.8	11,070.9	21.6	37.5	117.93	159.2	544.4	204.2	149.3	54.91	3.718	
11,200.0	11,170.9	11,347.9	11,171.0	21.6	37.5	117.93	159.2	544.4	204.2	149.2	54.99	3.713	
11,300.0	11,270.9	11,470.6	11,292.3	21.7	37.5	113.89	175.0	544.3	198.3	141.5	56.88	3.487	
11,371.6	11,342.5	11,550.1	11,367.2	21.7	37.5	106.48	201.6	544.1	189.4	130.8	58.68	3.228	
11,375.0	11,345.9	11,553.6	11,370.3	21.7	37.5	-74.65	203.0	544.1	189.0	130.2	58.76	3.216	
11,400.0	11,370.9	11,578.4	11,392.6	21.7	37.5	-78.53	214.0	544.0	185.7	126.4	59.30	3.131	
11,425.0	11,395.8	11,601.0	11,412.3	21.7	37.5	-82.77	224.9	543.9	182.7	123.0	59.72	3.060	
11,450.0	11,420.5	11,621.3	11,429.6	21.6	37.5	-87.10	235.6	543.8	180.6	120.7	59.91	3.015	
11,472.5	11,442.7	11,637.7	11,443.2	21.6	37.5	-90.83	244.7	543.8	179.9	120.1	59.81	3.008	CC, ES, SF
11,475.0	11,445.1	11,639.4	11,444.6	21.6	37.5	-91.22	245.7	543.7	179.9	120.1	59.78	3.010	
11,500.0	11,469.3	11,655.1	11,457.3	21.5	37.5	-94.90	254.9	543.7	181.1	121.9	59.29	3.055	
11,525.0	11,493.3	11,668.7	11,468.1	21.5	37.5	-97.98	263.3	543.6	184.6	126.2	58.44	3.160	
11,550.0	11,516.8	11,680.3	11,477.1	21.4	37.5	-100.34	270.6	543.6	190.6	133.4	57.29	3.328	
11,575.0	11,539.8	11,690.0	11,484.4	21.3	37.5	-101.94	276.9	543.5	199.2	143.2	55.95	3.560	
11,600.0	11,562.3	11,700.0	11,491.9	21.3	37.5	-103.33	283.5	543.5	210.2	155.6	54.58	3.850	
11,625.0	11,584.2	11,704.4	11,495.1	21.2	37.5	-102.78	286.5	543.5	223.4	170.1	53.22	4.197	
11,650.0	11,605.4	11,709.4	11,498.8	21.2	37.5	-102.02	289.9	543.4	238.5	186.5	52.00	4.587	
11,675.0	11,625.9	11,713.0	11,501.4	21.1	37.5	-100.45	292.4	543.4	255.3	204.4	50.94	5.012	
11,700.0	11,645.6	11,715.5	11,503.2	21.1	37.5	-98.09	294.2	543.4	273.5	223.4	50.05	5.464	
11,725.0	11,664.5	11,717.0	11,504.3	21.0	37.5	-94.94	295.2	543.4	292.7	243.4	49.32	5.936	
11,750.0	11,682.5	11,717.5	11,504.6	21.0	37.5	-91.02	295.5	543.4	312.9	264.2	48.72	6.422	
11,775.0	11,699.6	11,717.1	11,504.4	21.0	37.5	-86.40	295.3	543.4	333.7	285.5	48.23	6.919	
11,800.0	11,715.7	11,716.0	11,503.5	20.9	37.5	-81.19	294.5	543.4	355.0	307.2	47.84	7.421	
11,825.0	11,730.8	11,714.2	11,502.2	20.9	37.5	-75.54	293.2	543.4	376.6	329.1	47.51	7.927	
11,850.0	11,744.8	11,711.7	11,500.4	20.9	37.5	-69.67	291.5	543.4	398.5	351.3	47.25	8.434	
11,875.0	11,757.7	11,708.7	11,498.2	20.9	37.5	-63.79	289.4	543.4	420.5	373.5	47.03	8.941	
11,900.0	11,769.4	11,700.0	11,491.9	20.8	37.5	-57.00	283.5	543.5	442.5	395.6	46.91	9.434	
11,925.0	11,780.1	11,700.0	11,491.9	20.8	37.5	-52.57	283.5	543.5	464.4	417.7	46.70	9.946	
11,950.0	11,789.5	11,700.0	11,491.9	20.8	37.5	-48.44	283.5	543.5	486.2	439.7	46.50	10.457	
11,975.0	11,797.6	11,691.7	11,485.7	20.8	37.5	-43.49	278.0	543.5	507.8	461.4	46.41	10.940	
12,000.0	11,804.6	11,686.5	11,481.8	20.8	37.5	-39.59	274.6	543.5	529.1	482.8	46.30	11.428	
12,025.0	11,810.2	11,675.0	11,473.0	20.8	37.5	-35.59	267.2	543.6	550.2	503.9	46.27	11.891	
12,050.0	11,814.6	11,675.0	11,473.0	20.8	37.5	-33.14	267.2	543.6	570.8	524.7	46.09	12.384	
12,075.0	11,817.7	11,675.0	11,473.0	20.9	37.5	-30.92	267.2	543.6	591.1	545.2	45.91	12.874	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,100.0	11,819.5	11,662.6	11,463.2	20.9	37.5	-28.20	259.4	543.7	610.8	564.9	45.89	13.310	
12,121.6	11,820.0	11,650.0	11,453.2	20.9	37.5	-26.11	251.9	543.7	627.6	581.7	45.89	13.677	
12,200.0	11,820.0	11,637.0	11,442.7	21.0	37.5	-25.49	244.3	543.8	688.7	643.2	45.53	15.127	
12,300.0	11,820.0	11,614.8	11,424.1	21.2	37.5	-24.47	232.1	543.8	769.8	724.5	45.25	17.014	
12,400.0	11,820.0	11,600.0	11,411.4	21.4	37.5	-23.81	224.4	543.9	853.6	808.6	44.96	18.985	
12,500.0	11,820.0	11,575.0	11,389.5	21.7	37.5	-22.75	212.4	544.0	939.6	894.7	44.86	20.945	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,870.9	5,151.1	5,076.2	17.8	21.0	38.15	203.5	1,327.7	987.3	950.5	36.76	26.860	
4,991.5	4,962.4	5,240.5	5,163.6	18.0	21.4	93.05	204.4	1,309.2	967.7	930.4	37.34	25.918	
5,000.0	4,970.9	5,248.8	5,171.7	18.0	21.5	93.05	204.5	1,307.4	965.9	928.6	37.38	25.839	
5,100.0	5,070.9	5,346.6	5,267.4	18.0	21.9	93.05	205.6	1,287.1	945.1	907.1	38.00	24.873	
5,200.0	5,170.9	5,444.5	5,363.1	18.1	22.4	93.05	206.7	1,266.8	924.4	885.8	38.59	23.955	
5,300.0	5,270.9	5,542.3	5,458.7	18.2	22.8	93.06	207.7	1,246.5	903.6	864.4	39.18	23.062	
5,400.0	5,370.9	5,640.1	5,554.4	18.2	23.3	93.06	208.8	1,226.2	882.8	843.0	39.77	22.195	
5,500.0	5,470.9	5,737.9	5,650.1	18.3	23.8	93.06	209.9	1,205.9	862.0	821.6	40.37	21.351	
5,600.0	5,570.9	5,835.7	5,745.8	18.3	24.2	93.06	210.9	1,185.6	841.2	800.2	40.97	20.532	
5,700.0	5,670.9	5,933.5	5,841.5	18.4	24.7	93.06	212.0	1,165.3	820.4	778.8	41.57	19.734	
5,800.0	5,770.9	6,031.3	5,937.1	18.4	25.1	93.06	213.1	1,145.0	799.6	757.4	42.18	18.959	
5,900.0	5,870.9	6,129.2	6,032.8	18.5	25.6	93.06	214.1	1,124.7	778.8	736.0	42.78	18.204	
6,000.0	5,970.9	6,227.0	6,128.5	18.5	26.0	93.07	215.2	1,104.4	758.0	714.6	43.39	17.470	
6,100.0	6,070.9	6,324.8	6,224.2	18.6	26.5	93.07	216.2	1,084.0	737.2	693.2	44.00	16.757	
6,200.0	6,170.9	6,413.9	6,311.4	18.6	26.9	93.07	217.2	1,066.0	716.9	672.3	44.57	16.084	
6,300.0	6,270.9	6,500.0	6,396.0	18.7	27.3	93.07	218.0	1,049.7	698.1	652.9	45.14	15.464	
6,400.0	6,370.9	6,589.2	6,483.9	18.8	27.7	93.07	218.9	1,034.3	680.7	635.0	45.70	14.895	
6,500.0	6,470.9	6,677.6	6,571.1	18.8	28.1	93.07	219.6	1,020.3	664.9	618.6	46.24	14.378	
6,600.0	6,570.9	6,766.4	6,659.0	18.9	28.5	93.08	220.3	1,007.6	650.6	603.8	46.76	13.912	
6,700.0	6,670.9	6,855.5	6,747.4	18.9	28.8	93.08	220.9	996.2	637.8	590.5	47.26	13.494	
6,800.0	6,770.9	6,945.0	6,836.3	19.0	29.2	93.08	221.4	986.2	626.6	578.8	47.74	13.124	
6,900.0	6,870.9	7,034.8	6,925.7	19.0	29.6	93.08	221.8	977.5	616.9	568.7	48.20	12.799	
7,000.0	6,970.9	7,124.9	7,015.4	19.1	29.9	93.08	222.2	970.3	608.8	560.2	48.63	12.520	
7,100.0	7,070.9	7,215.1	7,105.5	19.2	30.2	93.08	222.5	964.4	602.3	553.2	49.03	12.284	
7,200.0	7,170.9	7,305.5	7,195.8	19.2	30.5	93.08	222.8	959.9	597.3	547.9	49.40	12.093	
7,300.0	7,270.9	7,400.0	7,290.2	19.3	30.8	93.08	222.9	956.7	593.9	544.2	49.76	11.936	
7,400.0	7,370.9	7,486.7	7,376.9	19.3	31.1	93.08	223.0	955.2	592.1	542.2	49.98	11.847	
7,492.2	7,463.1	7,572.9	7,463.1	19.4	31.2	93.08	223.0	954.9	591.8	541.7	50.08	11.818	
7,500.0	7,470.9	7,580.7	7,470.9	19.4	31.2	93.08	223.0	954.9	591.8	541.7	50.08	11.817	
7,600.0	7,570.9	7,680.7	7,570.9	19.4	31.2	93.08	223.0	954.9	591.8	541.7	50.15	11.801	
7,700.0	7,670.9	7,780.7	7,670.9	19.5	31.2	93.08	223.0	954.9	591.8	541.6	50.22	11.784	
7,800.0	7,770.9	7,880.7	7,770.9	19.6	31.2	93.08	223.0	954.9	591.8	541.5	50.30	11.766	
7,900.0	7,870.9	7,980.7	7,870.9	19.6	31.3	93.08	223.0	954.9	591.8	541.4	50.37	11.749	
8,000.0	7,970.9	8,080.7	7,970.9	19.7	31.3	93.08	223.0	954.9	591.8	541.4	50.45	11.731	
8,100.0	8,070.9	8,180.7	8,070.9	19.7	31.3	93.08	223.0	954.9	591.8	541.3	50.52	11.714	
8,200.0	8,170.9	8,280.7	8,170.9	19.8	31.3	93.08	223.0	954.9	591.8	541.2	50.60	11.696	
8,300.0	8,270.9	8,380.7	8,270.9	19.8	31.4	93.08	223.0	954.9	591.8	541.1	50.67	11.679	
8,400.0	8,370.9	8,480.7	8,370.9	19.9	31.4	93.08	223.0	954.9	591.8	541.1	50.75	11.661	
8,500.0	8,470.9	8,580.7	8,470.9	20.0	31.4	93.08	223.0	954.9	591.8	541.0	50.83	11.644	
8,600.0	8,570.9	8,680.7	8,570.9	20.0	31.4	93.08	223.0	954.9	591.8	540.9	50.90	11.626	
8,700.0	8,670.9	8,780.7	8,670.9	20.1	31.5	93.08	223.0	954.9	591.8	540.8	50.98	11.608	
8,800.0	8,770.9	8,880.7	8,770.9	20.1	31.5	93.08	223.0	954.9	591.8	540.7	51.06	11.591	
8,900.0	8,870.9	8,980.7	8,870.9	20.2	31.5	93.08	223.0	954.9	591.8	540.7	51.14	11.573	
9,000.0	8,970.9	9,080.7	8,970.9	20.3	31.5	93.08	223.0	954.9	591.8	540.6	51.22	11.555	
9,100.0	9,070.9	9,180.7	9,070.9	20.3	31.6	93.08	223.0	954.9	591.8	540.5	51.30	11.537	
9,200.0	9,170.9	9,280.7	9,170.9	20.4	31.6	93.08	223.0	954.9	591.8	540.4	51.37	11.519	
9,300.0	9,270.9	9,380.7	9,270.9	20.4	31.6	93.08	223.0	954.9	591.8	540.4	51.45	11.502	
9,400.0	9,370.9	9,480.7	9,370.9	20.5	31.6	93.08	223.0	954.9	591.8	540.3	51.54	11.484	
9,500.0	9,470.9	9,580.7	9,470.9	20.6	31.7	93.08	223.0	954.9	591.8	540.2	51.62	11.466	
9,600.0	9,570.9	9,680.7	9,570.9	20.6	31.7	93.08	223.0	954.9	591.8	540.1	51.70	11.448	
9,700.0	9,670.9	9,780.7	9,670.9	20.7	31.7	93.08	223.0	954.9	591.8	540.0	51.78	11.430	

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

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Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,770.9	9,880.7	9,770.9	20.8	31.8	93.08	223.0	954.9	591.8	539.9	51.86	11.412	
9,900.0	9,870.9	9,980.7	9,870.9	20.8	31.8	93.08	223.0	954.9	591.8	539.9	51.94	11.394	
10,000.0	9,970.9	10,080.7	9,970.9	20.9	31.8	93.08	223.0	954.9	591.8	539.8	52.02	11.375	
10,100.0	10,070.9	10,180.7	10,070.9	20.9	31.8	93.08	223.0	954.9	591.8	539.7	52.11	11.357	
10,200.0	10,170.9	10,280.7	10,170.9	21.0	31.9	93.08	223.0	954.9	591.8	539.6	52.19	11.339	
10,300.0	10,270.9	10,380.7	10,270.9	21.1	31.9	93.08	223.0	954.9	591.8	539.5	52.27	11.321	
10,400.0	10,370.9	10,480.7	10,370.9	21.1	31.9	93.08	223.0	954.9	591.8	539.4	52.36	11.303	
10,500.0	10,470.9	10,580.7	10,470.9	21.2	32.0	93.08	223.0	954.9	591.8	539.4	52.44	11.285	
10,600.0	10,570.9	10,680.7	10,570.9	21.3	32.0	93.08	223.0	954.9	591.8	539.3	52.53	11.267	
10,700.0	10,670.9	10,780.7	10,670.9	21.3	32.0	93.08	223.0	954.9	591.8	539.2	52.61	11.248	
10,800.0	10,770.9	10,880.7	10,770.9	21.4	32.1	93.08	223.0	954.9	591.8	539.1	52.70	11.230	
10,900.0	10,870.9	10,980.7	10,870.9	21.4	32.1	93.08	223.0	954.9	591.8	539.0	52.78	11.212	
11,000.0	10,970.9	11,080.7	10,970.9	21.5	32.1	93.08	223.0	954.9	591.8	538.9	52.87	11.194	
11,100.0	11,070.9	11,180.7	11,070.9	21.6	32.1	93.08	223.0	954.9	591.8	538.9	52.96	11.175	
11,200.0	11,170.9	11,280.7	11,170.9	21.6	32.2	93.08	223.0	954.9	591.8	538.8	53.04	11.157	
11,300.0	11,270.9	11,380.7	11,270.9	21.7	32.2	93.08	223.0	954.9	591.8	538.7	53.13	11.139	
11,371.6	11,342.5	11,452.3	11,342.5	21.7	32.2	93.08	223.0	954.9	591.8	538.6	53.18	11.129	
11,375.0	11,345.9	11,455.7	11,345.9	21.7	32.2	-87.57	223.0	954.9	591.8	538.6	53.18	11.128	
11,400.0	11,370.9	11,482.7	11,372.8	21.7	32.2	-87.74	223.8	954.9	591.7	538.5	53.21	11.121	
11,425.0	11,395.8	11,509.1	11,399.2	21.7	32.2	-88.20	226.0	954.9	591.5	538.3	53.24	11.110	
11,450.0	11,420.5	11,534.6	11,424.4	21.6	32.2	-88.90	229.6	954.9	591.3	538.0	53.28	11.098	
11,475.0	11,445.1	11,558.7	11,448.1	21.6	32.2	-89.80	234.2	954.8	591.1	537.8	53.31	11.088	
11,493.5	11,463.0	11,575.5	11,464.5	21.5	32.2	-90.54	238.1	954.8	591.0	537.7	53.32	11.085	CC, ES
11,500.0	11,469.3	11,581.2	11,470.0	21.5	32.2	-90.82	239.5	954.8	591.0	537.7	53.32	11.084	SF
11,525.0	11,493.3	11,602.0	11,489.9	21.5	32.2	-91.89	245.3	954.8	591.3	538.0	53.31	11.091	
11,550.0	11,516.8	11,620.7	11,507.6	21.4	32.2	-92.94	251.4	954.7	591.9	538.7	53.28	11.111	
11,575.0	11,539.8	11,637.5	11,523.3	21.3	32.2	-93.92	257.4	954.7	593.1	539.9	53.20	11.148	
11,600.0	11,562.3	11,652.4	11,537.0	21.3	32.2	-94.77	263.1	954.6	595.0	541.9	53.10	11.206	
11,625.0	11,584.2	11,665.3	11,548.8	21.2	32.2	-95.45	268.5	954.6	597.7	544.8	52.96	11.287	
11,650.0	11,605.4	11,675.0	11,557.5	21.2	32.2	-95.80	272.7	954.6	601.3	548.5	52.77	11.393	
11,675.0	11,625.9	11,685.9	11,567.3	21.1	32.2	-96.18	277.6	954.5	605.7	553.2	52.57	11.522	
11,700.0	11,645.6	11,693.8	11,574.2	21.1	32.2	-96.21	281.3	954.5	611.2	558.8	52.34	11.678	
11,725.0	11,664.5	11,700.0	11,579.6	21.0	32.2	-95.97	284.3	954.5	617.6	565.5	52.07	11.860	
11,750.0	11,682.5	11,705.3	11,584.3	21.0	32.2	-95.54	287.0	954.5	625.0	573.2	51.79	12.068	
11,775.0	11,699.6	11,709.2	11,587.6	21.0	32.2	-94.83	288.9	954.4	633.4	581.9	51.50	12.300	
11,800.0	11,715.7	11,712.0	11,590.0	20.9	32.2	-93.89	290.3	954.4	642.8	591.6	51.19	12.556	
11,825.0	11,730.8	11,713.7	11,591.5	20.9	32.2	-92.72	291.2	954.4	653.0	602.1	50.88	12.834	
11,850.0	11,744.8	11,714.6	11,592.2	20.9	32.2	-91.32	291.7	954.4	664.1	613.5	50.57	13.132	
11,875.0	11,757.7	11,714.6	11,592.2	20.9	32.2	-89.70	291.7	954.4	675.9	625.6	50.26	13.449	
11,900.0	11,769.4	11,713.8	11,591.5	20.8	32.2	-87.89	291.3	954.4	688.4	638.5	49.95	13.782	
11,925.0	11,780.1	11,712.3	11,590.3	20.8	32.2	-85.90	290.5	954.4	701.6	651.9	49.65	14.131	
11,950.0	11,789.5	11,710.3	11,588.5	20.8	32.2	-83.74	289.5	954.4	715.3	665.9	49.36	14.492	
11,975.0	11,797.6	11,707.6	11,586.2	20.8	32.2	-81.45	288.1	954.4	729.5	680.4	49.07	14.865	
12,000.0	11,804.6	11,700.0	11,579.6	20.8	32.2	-78.64	284.3	954.5	744.1	695.2	48.82	15.241	
12,025.0	11,810.2	11,700.0	11,579.6	20.8	32.2	-76.48	284.3	954.5	758.9	710.4	48.54	15.635	
12,050.0	11,814.6	11,700.0	11,579.6	20.8	32.2	-74.27	284.3	954.5	774.0	725.8	48.27	16.037	
12,075.0	11,817.7	11,692.2	11,572.8	20.9	32.2	-71.41	280.6	954.5	789.3	741.3	48.04	16.431	
12,100.0	11,819.5	11,687.4	11,568.5	20.9	32.2	-68.82	278.3	954.5	804.7	756.9	47.81	16.833	
12,121.6	11,820.0	11,682.9	11,564.6	20.9	32.2	-66.61	276.2	954.5	818.1	770.5	47.61	17.183	
12,200.0	11,820.0	11,667.4	11,550.7	21.0	32.2	-65.48	269.3	954.6	868.4	821.4	46.95	18.495	
12,300.0	11,820.0	11,650.0	11,534.8	21.2	32.2	-64.23	262.1	954.6	937.4	891.2	46.20	20.293	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,400.0	5,370.9	5,508.9	5,463.1	18.2	21.6	-91.81	223.5	-627.6	996.4	958.1	38.29	26.020	
5,500.0	5,470.9	5,600.0	5,553.9	18.3	21.9	-91.88	222.6	-619.9	987.9	949.2	38.71	25.517	
5,600.0	5,570.9	5,679.3	5,633.0	18.3	22.2	-91.93	221.9	-614.3	980.8	941.7	39.04	25.120	
5,700.0	5,670.9	5,764.7	5,718.3	18.4	22.5	-91.98	221.3	-609.5	975.2	935.8	39.39	24.760	
5,800.0	5,770.9	5,850.3	5,803.7	18.4	22.8	-92.01	220.8	-606.0	971.1	931.4	39.70	24.461	
5,900.0	5,870.9	5,935.9	5,889.4	18.5	23.0	-92.03	220.6	-603.7	968.4	928.5	39.97	24.226	
6,000.0	5,970.9	6,021.6	5,975.0	18.5	23.2	-92.04	220.4	-602.7	967.3	927.1	40.18	24.073	
6,047.0	6,017.9	6,064.5	6,017.9	18.6	23.2	-92.04	220.4	-602.6	967.2	927.0	40.22	24.048	
6,100.0	6,070.9	6,117.4	6,070.9	18.6	23.2	-92.04	220.4	-602.6	967.2	926.9	40.26	24.024	
6,200.0	6,170.9	6,217.4	6,170.9	18.6	23.3	-92.04	220.4	-602.6	967.2	926.9	40.35	23.972	
6,300.0	6,270.9	6,317.4	6,270.9	18.7	23.3	-92.04	220.4	-602.6	967.2	926.8	40.43	23.921	
6,400.0	6,370.9	6,417.4	6,370.9	18.8	23.3	-92.04	220.4	-602.6	967.2	926.7	40.52	23.869	
6,500.0	6,470.9	6,517.4	6,470.9	18.8	23.4	-92.04	220.4	-602.6	967.2	926.6	40.61	23.817	
6,600.0	6,570.9	6,617.4	6,570.9	18.9	23.4	-92.04	220.4	-602.6	967.2	926.5	40.70	23.764	
6,700.0	6,670.9	6,717.4	6,670.9	18.9	23.4	-92.04	220.4	-602.6	967.2	926.4	40.79	23.712	
6,800.0	6,770.9	6,817.4	6,770.9	19.0	23.5	-92.04	220.4	-602.6	967.2	926.3	40.88	23.660	
6,900.0	6,870.9	6,917.4	6,870.9	19.0	23.5	-92.04	220.4	-602.6	967.2	926.2	40.97	23.608	
7,000.0	6,970.9	7,017.4	6,970.9	19.1	23.5	-92.04	220.4	-602.6	967.2	926.1	41.06	23.556	
7,100.0	7,070.9	7,117.4	7,070.9	19.2	23.6	-92.04	220.4	-602.6	967.2	926.1	41.15	23.504	
7,200.0	7,170.9	7,217.4	7,170.9	19.2	23.6	-92.04	220.4	-602.6	967.2	926.0	41.24	23.452	
7,300.0	7,270.9	7,317.4	7,270.9	19.3	23.6	-92.04	220.4	-602.6	967.2	925.9	41.33	23.399	
7,400.0	7,370.9	7,417.4	7,370.9	19.3	23.7	-92.04	220.4	-602.6	967.2	925.8	41.43	23.347	
7,500.0	7,470.9	7,517.4	7,470.9	19.4	23.7	-92.04	220.4	-602.6	967.2	925.7	41.52	23.295	
7,600.0	7,570.9	7,617.4	7,570.9	19.4	23.8	-92.04	220.4	-602.6	967.2	925.6	41.61	23.243	
7,700.0	7,670.9	7,717.4	7,670.9	19.5	23.8	-92.04	220.4	-602.6	967.2	925.5	41.71	23.190	
7,800.0	7,770.9	7,817.4	7,770.9	19.6	23.8	-92.04	220.4	-602.6	967.2	925.4	41.80	23.138	
7,900.0	7,870.9	7,917.4	7,870.9	19.6	23.9	-92.04	220.4	-602.6	967.2	925.3	41.90	23.086	
8,000.0	7,970.9	8,017.4	7,970.9	19.7	23.9	-92.04	220.4	-602.6	967.2	925.2	41.99	23.034	
8,100.0	8,070.9	8,117.4	8,070.9	19.7	23.9	-92.04	220.4	-602.6	967.2	925.1	42.09	22.982	
8,200.0	8,170.9	8,217.4	8,170.9	19.8	24.0	-92.04	220.4	-602.6	967.2	925.0	42.18	22.929	
8,300.0	8,270.9	8,317.4	8,270.9	19.8	24.0	-92.04	220.4	-602.6	967.2	924.9	42.28	22.877	
8,400.0	8,370.9	8,417.4	8,370.9	19.9	24.1	-92.04	220.4	-602.6	967.2	924.8	42.37	22.825	
8,500.0	8,470.9	8,517.4	8,470.9	20.0	24.1	-92.04	220.4	-602.6	967.2	924.7	42.47	22.773	
8,600.0	8,570.9	8,617.4	8,570.9	20.0	24.1	-92.04	220.4	-602.6	967.2	924.6	42.57	22.721	
8,700.0	8,670.9	8,717.4	8,670.9	20.1	24.2	-92.04	220.4	-602.6	967.2	924.5	42.67	22.669	
8,800.0	8,770.9	8,817.4	8,770.9	20.1	24.2	-92.04	220.4	-602.6	967.2	924.4	42.76	22.617	
8,900.0	8,870.9	8,917.4	8,870.9	20.2	24.2	-92.04	220.4	-602.6	967.2	924.3	42.86	22.565	
9,000.0	8,970.9	9,017.4	8,970.9	20.3	24.3	-92.04	220.4	-602.6	967.2	924.2	42.96	22.513	
9,100.0	9,070.9	9,117.4	9,070.9	20.3	24.3	-92.04	220.4	-602.6	967.2	924.1	43.06	22.461	
9,200.0	9,170.9	9,217.4	9,170.9	20.4	24.4	-92.04	220.4	-602.6	967.2	924.0	43.16	22.409	
9,300.0	9,270.9	9,317.4	9,270.9	20.4	24.4	-92.04	220.4	-602.6	967.2	923.9	43.26	22.357	
9,400.0	9,370.9	9,417.4	9,370.9	20.5	24.4	-92.04	220.4	-602.6	967.2	923.8	43.36	22.306	
9,500.0	9,470.9	9,517.4	9,470.9	20.6	24.5	-92.04	220.4	-602.6	967.2	923.7	43.46	22.254	
9,600.0	9,570.9	9,617.4	9,570.9	20.6	24.5	-92.04	220.4	-602.6	967.2	923.6	43.56	22.202	
9,700.0	9,670.9	9,717.4	9,670.9	20.7	24.6	-92.04	220.4	-602.6	967.2	923.5	43.66	22.151	
9,800.0	9,770.9	9,817.4	9,770.9	20.8	24.6	-92.04	220.4	-602.6	967.2	923.4	43.77	22.099	
9,900.0	9,870.9	9,917.4	9,870.9	20.8	24.6	-92.04	220.4	-602.6	967.2	923.3	43.87	22.048	
10,000.0	9,970.9	10,017.4	9,970.9	20.9	24.7	-92.04	220.4	-602.6	967.2	923.2	43.97	21.996	
10,100.0	10,070.9	10,117.4	10,070.9	20.9	24.7	-92.04	220.4	-602.6	967.2	923.1	44.07	21.945	
10,200.0	10,170.9	10,217.4	10,170.9	21.0	24.8	-92.04	220.4	-602.6	967.2	923.0	44.18	21.893	
10,300.0	10,270.9	10,317.4	10,270.9	21.1	24.8	-92.04	220.4	-602.6	967.2	922.9	44.28	21.842	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.0	10,370.9	10,417.4	10,370.9	21.1	24.9	-92.04	220.4	-602.6	967.2	922.8	44.39	21.791	
10,500.0	10,470.9	10,517.4	10,470.9	21.2	24.9	-92.04	220.4	-602.6	967.2	922.7	44.49	21.740	
10,600.0	10,570.9	10,617.4	10,570.9	21.3	24.9	-92.04	220.4	-602.6	967.2	922.6	44.59	21.689	
10,700.0	10,670.9	10,717.4	10,670.9	21.3	25.0	-92.04	220.4	-602.6	967.2	922.5	44.70	21.638	
10,800.0	10,770.9	10,817.4	10,770.9	21.4	25.0	-92.04	220.4	-602.6	967.2	922.4	44.80	21.587	
10,900.0	10,870.9	10,917.4	10,870.9	21.4	25.1	-92.04	220.4	-602.6	967.2	922.3	44.91	21.536	
11,000.0	10,970.9	11,017.4	10,970.9	21.5	25.1	-92.04	220.4	-602.6	967.2	922.2	45.02	21.486	
11,100.0	11,070.9	11,117.4	11,070.9	21.6	25.2	-92.04	220.4	-602.6	967.2	922.1	45.12	21.435	
11,200.0	11,170.9	11,217.4	11,170.9	21.6	25.2	-92.04	220.4	-602.6	967.2	922.0	45.23	21.385	
11,300.0	11,270.9	11,317.4	11,270.9	21.7	25.2	-92.04	220.4	-602.6	967.2	921.9	45.34	21.334	
11,371.6	11,342.5	11,389.1	11,342.5	21.7	25.3	-92.04	220.4	-602.6	967.2	921.8	45.40	21.304	
11,375.0	11,345.9	11,392.6	11,346.0	21.7	25.3	87.31	220.4	-602.6	967.2	921.8	45.40	21.304	
11,400.0	11,370.9	11,418.4	11,371.9	21.7	25.3	87.31	219.5	-602.6	967.1	921.7	45.40	21.302	
11,425.0	11,395.8	11,444.3	11,397.6	21.7	25.3	87.32	217.2	-602.5	967.0	921.6	45.39	21.302	
11,450.0	11,420.5	11,470.2	11,423.2	21.6	25.3	87.34	213.6	-602.3	966.8	921.4	45.39	21.301	
11,475.0	11,445.1	11,496.0	11,448.6	21.6	25.3	87.37	208.5	-602.0	966.5	921.1	45.38	21.298	
11,500.0	11,469.3	11,521.9	11,473.6	21.5	25.3	87.40	202.1	-601.7	966.1	920.7	45.37	21.294	
11,525.0	11,493.3	11,547.7	11,498.3	21.5	25.4	87.44	194.3	-601.3	965.6	920.3	45.36	21.288	
11,550.0	11,516.8	11,573.5	11,522.4	21.4	25.4	87.49	185.3	-600.8	965.1	919.7	45.35	21.280	
11,575.0	11,539.8	11,599.3	11,546.0	21.3	25.4	87.54	174.9	-600.2	964.5	919.1	45.34	21.271	
11,600.0	11,562.3	11,625.1	11,569.0	21.3	25.4	87.60	163.3	-599.6	963.8	918.4	45.33	21.259	
11,625.0	11,584.2	11,650.8	11,591.3	21.2	25.4	87.67	150.5	-599.0	963.0	917.7	45.33	21.246	
11,650.0	11,605.4	11,676.5	11,612.9	21.2	25.5	87.74	136.6	-598.2	962.1	916.8	45.32	21.231	
11,675.0	11,625.9	11,702.2	11,633.7	21.1	25.5	87.82	121.5	-597.4	961.2	915.9	45.31	21.213	
11,700.0	11,645.6	11,727.9	11,653.6	21.1	25.5	87.91	105.3	-596.6	960.2	914.9	45.31	21.193	
11,725.0	11,664.5	11,753.5	11,672.6	21.0	25.5	88.00	88.2	-595.7	959.2	913.9	45.31	21.170	
11,750.0	11,682.5	11,779.0	11,690.6	21.0	25.6	88.09	70.0	-594.7	958.1	912.8	45.31	21.145	
11,775.0	11,699.6	11,804.6	11,707.5	21.0	25.6	88.20	51.0	-593.8	956.9	911.6	45.31	21.117	
11,800.0	11,715.7	11,830.1	11,723.4	20.9	25.6	88.30	31.1	-592.7	955.7	910.4	45.32	21.087	
11,825.0	11,730.8	11,855.5	11,738.2	20.9	25.6	88.41	10.4	-591.6	954.4	909.1	45.33	21.053	
11,850.0	11,744.8	11,881.0	11,751.9	20.9	25.7	88.53	-11.0	-590.5	953.1	907.7	45.35	21.017	
11,875.0	11,757.7	11,906.3	11,764.4	20.9	25.7	88.65	-33.1	-589.3	951.7	906.3	45.37	20.977	
11,900.0	11,769.4	11,931.7	11,775.6	20.8	25.7	88.77	-55.7	-588.2	950.3	904.9	45.39	20.935	
11,925.0	11,780.1	11,957.0	11,785.7	20.8	25.8	88.90	-78.9	-586.9	948.8	903.4	45.42	20.889	
11,950.0	11,789.5	11,982.2	11,794.4	20.8	25.8	89.03	-102.5	-585.7	947.4	901.9	45.46	20.840	
11,975.0	11,797.6	12,007.4	11,801.9	20.8	25.8	89.17	-126.6	-584.4	945.9	900.4	45.50	20.789	
12,000.0	11,804.6	12,032.5	11,808.1	20.8	25.9	89.30	-150.9	-583.2	944.3	898.8	45.54	20.734	
12,025.0	11,810.2	12,057.7	11,813.0	20.8	25.9	89.44	-175.5	-581.9	942.8	897.2	45.60	20.677	
12,050.0	11,814.6	12,082.7	11,816.6	20.8	25.9	89.58	-200.3	-580.6	941.2	895.5	45.65	20.617	
12,075.0	11,817.7	12,107.7	11,818.9	20.9	26.0	89.72	-225.1	-579.3	939.6	893.9	45.71	20.554	
12,100.0	11,819.5	12,132.7	11,819.9	20.9	26.0	89.86	-250.1	-578.0	938.0	892.2	45.78	20.489	
12,121.6	11,820.0	12,150.5	11,820.0	20.9	26.0	90.00	-267.9	-577.1	936.7	890.8	45.85	20.431	
12,200.0	11,820.0	12,200.0	11,820.0	21.0	26.1	90.00	-317.3	-575.1	932.9	886.8	46.09	20.238	
12,300.0	11,820.0	12,285.0	11,820.0	21.2	26.3	90.00	-402.3	-573.7	930.2	883.7	46.51	20.001	
12,400.0	11,820.0	12,378.2	11,820.0	21.4	26.5	90.00	-495.4	-574.2	929.6	882.6	46.98	19.787	
12,500.0	11,820.0	12,478.2	11,820.0	21.7	26.7	90.00	-595.4	-574.8	929.0	881.5	47.53	19.546	
12,600.0	11,820.0	12,578.2	11,820.0	22.0	27.0	90.00	-695.4	-575.4	928.5	880.3	48.15	19.283	
12,700.0	11,820.0	12,678.2	11,820.0	22.3	27.3	90.00	-795.4	-576.0	927.9	879.1	48.84	19.001	
12,800.0	11,820.0	12,778.2	11,820.0	22.6	27.6	90.00	-895.4	-576.6	927.4	877.8	49.59	18.702	
12,900.0	11,820.0	12,878.2	11,820.0	23.0	28.0	90.00	-995.4	-577.2	926.8	876.4	50.40	18.391	
13,000.0	11,820.0	12,978.2	11,820.0	23.4	28.4	90.00	-1,095.4	-577.8	926.3	875.0	51.26	18.069	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 705H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,100.0	11,820.0	13,078.1	11,820.0	23.9	28.8	90.00	-1,195.4	-578.4	925.8	873.6	52.19	17.739	
13,200.0	11,820.0	13,178.1	11,820.0	24.4	29.3	90.00	-1,295.4	-579.0	925.2	872.0	53.16	17.404	
13,300.0	11,820.0	13,278.1	11,820.0	24.9	29.8	90.00	-1,395.4	-579.6	924.7	870.5	54.18	17.066	
13,400.0	11,820.0	13,378.1	11,820.0	25.4	30.3	90.00	-1,495.4	-580.2	924.1	868.9	55.25	16.726	
13,500.0	11,820.0	13,478.1	11,820.0	26.0	30.8	90.00	-1,595.4	-580.7	923.6	867.2	56.36	16.386	
13,600.0	11,820.0	13,578.1	11,820.0	26.6	31.4	90.00	-1,695.4	-581.3	923.0	865.5	57.52	16.048	
13,700.0	11,820.0	13,678.1	11,820.0	27.2	31.9	90.00	-1,795.4	-581.9	922.5	863.8	58.71	15.713	
13,800.0	11,820.0	13,778.1	11,820.0	27.8	32.5	90.00	-1,895.4	-582.5	921.9	862.0	59.94	15.382	
13,900.0	11,820.0	13,878.1	11,820.0	28.5	33.1	90.00	-1,995.4	-583.1	921.4	860.2	61.20	15.056	
14,000.0	11,820.0	13,978.1	11,820.0	29.2	33.7	90.00	-2,095.4	-583.7	920.9	858.4	62.49	14.735	
14,100.0	11,820.0	14,078.1	11,820.0	29.9	34.4	90.00	-2,195.4	-584.3	920.3	856.5	63.82	14.421	
14,200.0	11,820.0	14,178.1	11,820.0	30.6	35.0	90.00	-2,295.4	-584.9	919.8	854.6	65.17	14.114	
14,300.0	11,820.0	14,278.1	11,820.0	31.3	35.7	90.00	-2,395.4	-585.5	919.2	852.7	66.55	13.813	
14,400.0	11,820.0	14,378.1	11,820.0	32.0	36.4	90.00	-2,495.4	-586.1	918.7	850.7	67.95	13.520	
14,500.0	11,820.0	14,478.1	11,820.0	32.8	37.1	90.00	-2,595.4	-586.7	918.1	848.8	69.38	13.234	
14,600.0	11,820.0	14,578.1	11,820.0	33.5	37.8	90.00	-2,695.3	-587.3	917.6	846.8	70.82	12.956	
14,700.0	11,820.0	14,678.1	11,820.0	34.3	38.5	90.00	-2,795.3	-587.9	917.0	844.8	72.29	12.685	
14,800.0	11,820.0	14,778.1	11,820.0	35.1	39.3	90.00	-2,895.3	-588.5	916.5	842.7	73.78	12.422	
14,900.0	11,820.0	14,878.1	11,820.0	35.8	40.0	90.00	-2,995.3	-589.1	916.0	840.7	75.29	12.166	
15,000.0	11,820.0	14,978.1	11,820.0	36.6	40.7	90.00	-3,095.3	-589.7	915.4	838.6	76.81	11.918	
15,100.0	11,820.0	15,078.1	11,820.0	37.4	41.5	90.00	-3,195.3	-590.3	914.9	836.5	78.35	11.677	
15,200.0	11,820.0	15,178.1	11,820.0	38.2	42.3	90.00	-3,295.3	-590.9	914.3	834.4	79.90	11.443	
15,300.0	11,820.0	15,278.1	11,820.0	39.1	43.0	90.00	-3,395.3	-591.5	913.8	832.3	81.47	11.216	
15,400.0	11,820.0	15,378.1	11,820.0	39.9	43.8	90.00	-3,495.3	-592.1	913.2	830.2	83.06	10.996	
15,500.0	11,820.0	15,478.1	11,820.0	40.7	44.6	90.00	-3,595.3	-592.7	912.7	828.0	84.65	10.782	
15,600.0	11,820.0	15,578.1	11,820.0	41.5	45.4	90.00	-3,695.3	-593.3	912.2	825.9	86.26	10.575	
15,700.0	11,820.0	15,678.1	11,820.0	42.4	46.2	90.00	-3,795.3	-593.8	911.6	823.7	87.88	10.374	
15,800.0	11,820.0	15,778.1	11,820.0	43.2	47.0	90.00	-3,895.3	-594.4	911.1	821.6	89.50	10.179	
15,900.0	11,820.0	15,878.1	11,820.0	44.1	47.8	90.00	-3,995.3	-595.0	910.5	819.4	91.14	9.990	
16,000.0	11,820.0	15,978.1	11,820.0	44.9	48.6	90.00	-4,095.3	-595.6	910.0	817.2	92.79	9.807	
16,100.0	11,820.0	16,078.1	11,820.0	45.8	49.5	90.00	-4,195.3	-596.2	909.4	815.0	94.45	9.629	
16,200.0	11,820.0	16,178.1	11,820.0	46.7	50.3	90.00	-4,295.3	-596.8	908.9	812.8	96.12	9.456	
16,300.0	11,820.0	16,278.1	11,820.0	47.5	51.1	90.00	-4,395.3	-597.4	908.3	810.6	97.79	9.289	
16,400.0	11,820.0	16,378.1	11,820.0	48.4	52.0	90.00	-4,495.3	-598.0	907.8	808.3	99.47	9.126	
16,500.0	11,820.0	16,478.1	11,820.0	49.3	52.8	90.00	-4,595.3	-598.6	907.3	806.1	101.16	8.968	
16,600.0	11,820.0	16,578.1	11,820.0	50.1	53.6	90.00	-4,695.3	-599.2	906.7	803.9	102.86	8.815	
16,700.0	11,820.0	16,678.1	11,820.0	51.0	54.5	90.00	-4,795.3	-599.8	906.2	801.6	104.56	8.666	
16,800.0	11,820.0	16,778.1	11,820.0	51.9	55.3	90.00	-4,895.3	-600.4	905.6	799.4	106.27	8.522	
16,900.0	11,820.0	16,878.1	11,820.0	52.8	56.2	90.00	-4,995.3	-601.0	905.1	797.1	107.99	8.381	
17,000.0	11,820.0	16,978.1	11,820.0	53.7	57.1	90.00	-5,095.3	-601.6	904.5	794.8	109.71	8.245	
17,100.0	11,820.0	17,078.1	11,820.0	54.6	57.9	90.00	-5,195.3	-602.2	904.0	792.6	111.43	8.112	
17,200.0	11,820.0	17,178.1	11,820.0	55.4	58.8	90.00	-5,295.3	-602.8	903.4	790.3	113.17	7.983	
17,300.0	11,820.0	17,278.1	11,820.0	56.3	59.7	90.00	-5,395.3	-603.4	902.9	788.0	114.90	7.858	
17,400.0	11,820.0	17,378.1	11,820.0	57.2	60.5	90.00	-5,495.3	-604.0	902.4	785.7	116.64	7.736	
17,500.0	11,820.0	17,478.1	11,820.0	58.1	61.4	90.00	-5,595.3	-604.6	901.8	783.4	118.39	7.617	
17,600.0	11,820.0	17,578.1	11,820.0	59.0	62.3	90.00	-5,695.3	-605.2	901.3	781.1	120.14	7.502	
17,700.0	11,820.0	17,678.1	11,820.0	59.9	63.1	90.00	-5,795.2	-605.8	900.7	778.8	121.90	7.389	
17,800.0	11,820.0	17,778.1	11,820.0	60.8	64.0	90.00	-5,895.2	-606.4	900.2	776.5	123.66	7.280	
17,900.0	11,820.0	17,878.1	11,820.0	61.7	64.9	90.00	-5,995.2	-606.9	899.6	774.2	125.42	7.173	
18,000.0	11,820.0	17,978.1	11,820.0	62.7	65.8	90.00	-6,095.2	-607.5	899.1	771.9	127.18	7.069	
18,100.0	11,820.0	18,078.1	11,820.0	63.6	66.7	90.00	-6,195.2	-608.1	898.5	769.6	128.95	6.968	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 705H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Rule Assigned:** — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
18,200.0	11,820.0	18,178.1	11,820.0	64.5	67.6	90.00	-6,295.2	-608.7	898.0	767.3	130.73	6.869	
18,300.0	11,820.0	18,278.1	11,820.0	65.4	68.5	90.00	-6,395.2	-609.3	897.5	765.0	132.50	6.773	
18,400.0	11,820.0	18,378.1	11,820.0	66.3	69.4	90.00	-6,495.2	-609.9	896.9	762.6	134.28	6.679	
18,500.0	11,820.0	18,478.1	11,820.0	67.2	70.2	90.00	-6,595.2	-610.5	896.4	760.3	136.07	6.588	
18,600.0	11,820.0	18,578.1	11,820.0	68.1	71.1	90.00	-6,695.2	-611.1	895.8	758.0	137.85	6.499	
18,700.0	11,820.0	18,678.1	11,820.0	69.0	72.0	90.00	-6,795.2	-611.7	895.3	755.6	139.64	6.411	
18,800.0	11,820.0	18,778.1	11,820.0	70.0	72.9	90.00	-6,895.2	-612.3	894.7	753.3	141.43	6.326	
18,900.0	11,820.0	18,878.1	11,820.0	70.9	73.8	90.00	-6,995.2	-612.9	894.2	751.0	143.22	6.243	
19,000.0	11,820.0	18,978.1	11,820.0	71.8	74.7	90.00	-7,095.2	-613.5	893.7	748.6	145.02	6.162	
19,100.0	11,820.0	19,078.1	11,820.0	72.7	75.6	90.00	-7,195.2	-614.1	893.1	746.3	146.82	6.083	
19,200.0	11,820.0	19,178.1	11,820.0	73.6	76.5	90.00	-7,295.2	-614.7	892.6	743.9	148.62	6.006	
19,300.0	11,820.0	19,278.1	11,820.0	74.6	77.2	90.00	-7,395.2	-615.3	892.0	741.8	150.19	5.939	
19,315.5	11,820.0	19,293.6	11,820.0	74.7	77.3	90.00	-7,410.7	-615.4	891.9	741.5	150.43	5.929	
19,316.0	11,820.0	19,294.1	11,820.0	74.7	77.3	90.00	-7,411.2	-615.4	891.9	741.5	150.43	5.929	CC, ES, SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	-90.80	-0.4	-30.0	30.0	19.5	10.54	2.846	
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	-90.80	-0.4	-30.0	30.0	19.2	10.85	2.766	CC, ES, SF
1,300.0	1,300.0	1,300.0	1,300.0	5.5	5.4	-147.57	-0.4	-30.0	31.5	20.2	11.21	2.806	
1,400.0	1,399.8	1,399.8	1,399.8	5.7	5.5	-152.00	-0.4	-30.0	36.0	24.4	11.59	3.105	
1,500.0	1,499.5	1,499.5	1,499.5	6.0	5.7	-157.29	-0.4	-30.0	43.9	31.9	11.99	3.659	
1,600.0	1,598.7	1,598.7	1,598.7	6.3	5.9	-160.32	1.2	-30.4	55.3	42.9	12.41	4.456	
1,700.0	1,697.7	1,697.9	1,697.7	6.5	6.2	-159.91	6.2	-31.8	68.4	55.6	12.75	5.360	
1,800.0	1,796.8	1,796.9	1,796.4	6.7	6.4	-157.20	14.4	-34.0	81.5	68.4	13.10	6.224	
1,900.0	1,895.8	1,895.7	1,894.5	7.0	6.5	-153.41	25.6	-37.0	95.1	81.7	13.37	7.111	
2,000.0	1,994.8	1,994.6	1,992.6	7.3	6.8	-150.31	37.2	-40.1	109.1	95.3	13.72	7.949	
2,100.0	2,093.8	2,093.4	2,090.8	7.6	7.0	-147.92	48.9	-43.2	123.3	109.2	14.08	8.754	
2,200.0	2,192.9	2,192.3	2,188.9	7.9	7.2	-146.02	60.5	-46.3	137.7	123.2	14.45	9.524	
2,300.0	2,291.9	2,291.2	2,287.0	8.2	7.5	-144.48	72.1	-49.4	152.2	137.3	14.84	10.256	
2,400.0	2,390.9	2,390.1	2,385.2	8.5	7.8	-143.22	83.8	-52.6	166.7	151.5	15.23	10.952	
2,500.0	2,489.9	2,488.9	2,483.3	8.8	8.1	-142.15	95.4	-55.7	181.4	165.8	15.62	11.610	
2,600.0	2,589.0	2,587.8	2,581.4	9.2	8.4	-141.25	107.1	-58.8	196.1	180.1	16.03	12.234	
2,700.0	2,688.0	2,686.7	2,679.6	9.5	8.7	-140.47	118.7	-61.9	210.9	194.4	16.44	12.823	
2,800.0	2,787.0	2,785.5	2,777.7	9.9	9.0	-139.79	130.3	-65.0	225.6	208.8	16.86	13.381	
2,900.0	2,886.1	2,884.4	2,875.8	10.3	9.3	-139.20	142.0	-68.2	240.4	223.2	17.29	13.908	
3,000.0	2,985.1	2,983.3	2,973.9	10.6	9.6	-138.67	153.6	-71.3	255.3	237.6	17.72	14.406	
3,100.0	3,084.1	3,082.1	3,072.1	11.0	10.0	-138.20	165.3	-74.4	270.1	252.0	18.16	14.878	
3,200.0	3,183.1	3,181.0	3,170.2	11.4	10.3	-137.79	176.9	-77.5	285.0	266.4	18.60	15.324	
3,300.0	3,282.2	3,279.9	3,268.3	11.8	10.7	-137.41	188.5	-80.6	299.9	280.8	19.04	15.746	
3,400.0	3,381.2	3,378.7	3,366.5	12.1	11.0	-137.07	200.2	-83.7	314.8	295.3	19.49	16.147	
3,500.0	3,480.2	3,477.6	3,464.6	12.5	11.4	-136.76	211.8	-86.9	329.6	309.7	19.95	16.526	
3,600.0	3,579.2	3,576.5	3,562.7	12.9	11.7	-136.47	223.4	-90.0	344.6	324.2	20.40	16.886	
3,700.0	3,678.3	3,676.9	3,662.5	13.3	12.1	-136.26	234.9	-93.1	359.3	338.5	20.87	17.216	
3,800.0	3,777.3	3,778.5	3,763.5	13.7	12.5	-136.30	245.0	-95.7	373.5	352.1	21.36	17.487	
3,900.0	3,876.3	3,880.2	3,864.9	14.1	12.8	-136.58	253.3	-98.0	386.9	365.1	21.85	17.708	
4,000.0	3,975.3	3,982.0	3,966.5	14.5	13.2	-137.09	259.8	-99.7	399.7	377.4	22.35	17.883	
4,100.0	4,074.4	4,083.9	4,068.2	14.9	13.5	-137.79	264.7	-101.0	411.9	389.0	22.86	18.016	
4,191.5	4,165.0	4,177.1	4,161.4	15.3	13.8	-138.61	267.5	-101.8	422.5	399.1	23.33	18.110	
4,200.0	4,173.4	4,185.8	4,170.0	15.3	13.8	-138.70	267.7	-101.8	423.4	400.0	23.37	18.120	
4,300.0	4,272.6	4,287.6	4,271.9	15.7	14.0	-139.74	269.1	-102.2	433.7	409.8	23.93	18.122	
4,400.0	4,371.9	4,387.7	4,371.9	16.1	14.1	-140.73	269.1	-102.2	442.3	417.9	24.42	18.115	
4,500.0	4,471.5	4,487.2	4,471.5	16.5	14.2	-141.54	269.1	-102.2	449.7	424.8	24.89	18.069	
4,600.0	4,571.2	4,586.9	4,571.2	16.9	14.3	-142.18	269.1	-102.2	455.8	430.4	25.34	17.985	
4,700.0	4,671.0	4,686.8	4,671.0	17.2	14.3	-142.66	269.1	-102.2	460.5	434.7	25.77	17.867	
4,800.0	4,770.9	4,786.7	4,770.9	17.5	14.4	-142.99	269.1	-102.2	463.8	437.7	26.17	17.721	
4,900.0	4,870.9	4,886.6	4,870.9	17.8	14.5	-143.19	269.1	-102.2	465.8	439.3	26.54	17.554	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,991.5	4,962.4	4,978.2	4,962.4	18.0	14.6	-88.25	269.1	-102.2	466.4	439.6	26.75	17.435	
5,000.0	4,970.9	4,986.6	4,970.9	18.0	14.6	-88.25	269.1	-102.2	466.4	439.6	26.76	17.430	
5,100.0	5,070.9	5,086.6	5,070.9	18.0	14.6	-88.25	269.1	-102.2	466.4	439.4	26.95	17.307	
5,200.0	5,170.9	5,186.6	5,170.9	18.1	14.7	-88.25	269.1	-102.2	466.4	439.3	27.09	17.214	
5,300.0	5,270.9	5,286.6	5,270.9	18.2	14.8	-88.25	269.1	-102.2	466.4	439.2	27.24	17.122	
5,400.0	5,370.9	5,386.6	5,370.9	18.2	14.9	-88.25	269.1	-102.2	466.4	439.0	27.38	17.031	
5,500.0	5,470.9	5,486.6	5,470.9	18.3	14.9	-88.25	269.1	-102.2	466.4	438.9	27.53	16.941	
5,600.0	5,570.9	5,586.6	5,570.9	18.3	15.0	-88.25	269.1	-102.2	466.4	438.7	27.68	16.851	
5,700.0	5,670.9	5,686.6	5,670.9	18.4	15.1	-88.25	269.1	-102.2	466.4	438.6	27.82	16.763	
5,800.0	5,770.9	5,786.6	5,770.9	18.4	15.1	-88.25	269.1	-102.2	466.4	438.4	27.97	16.675	
5,900.0	5,870.9	5,886.6	5,870.9	18.5	15.2	-88.25	269.1	-102.2	466.4	438.3	28.12	16.588	
6,000.0	5,970.9	5,986.6	5,970.9	18.5	15.3	-88.25	269.1	-102.2	466.4	438.1	28.26	16.502	
6,100.0	6,070.9	6,086.6	6,070.9	18.6	15.4	-88.25	269.1	-102.2	466.4	438.0	28.41	16.416	
6,200.0	6,170.9	6,186.6	6,170.9	18.6	15.4	-88.25	269.1	-102.2	466.4	437.8	28.56	16.332	
6,300.0	6,270.9	6,286.6	6,270.9	18.7	15.5	-88.25	269.1	-102.2	466.4	437.7	28.70	16.248	
6,400.0	6,370.9	6,386.6	6,370.9	18.8	15.6	-88.25	269.1	-102.2	466.4	437.5	28.85	16.165	
6,500.0	6,470.9	6,486.6	6,470.9	18.8	15.7	-88.25	269.1	-102.2	466.4	437.4	29.00	16.083	
6,600.0	6,570.9	6,586.6	6,570.9	18.9	15.7	-88.25	269.1	-102.2	466.4	437.2	29.15	16.001	
6,700.0	6,670.9	6,686.6	6,670.9	18.9	15.8	-88.25	269.1	-102.2	466.4	437.1	29.30	15.921	
6,800.0	6,770.9	6,786.6	6,770.9	19.0	15.9	-88.25	269.1	-102.2	466.4	437.0	29.44	15.841	
6,900.0	6,870.9	6,886.6	6,870.9	19.0	16.0	-88.25	269.1	-102.2	466.4	436.8	29.59	15.761	
7,000.0	6,970.9	6,986.6	6,970.9	19.1	16.0	-88.25	269.1	-102.2	466.4	436.7	29.74	15.683	
7,100.0	7,070.9	7,086.6	7,070.9	19.2	16.1	-88.25	269.1	-102.2	466.4	436.5	29.89	15.605	
7,200.0	7,170.9	7,186.6	7,170.9	19.2	16.2	-88.25	269.1	-102.2	466.4	436.4	30.04	15.528	
7,300.0	7,270.9	7,286.6	7,270.9	19.3	16.2	-88.25	269.1	-102.2	466.4	436.2	30.19	15.451	
7,400.0	7,370.9	7,386.6	7,370.9	19.3	16.3	-88.25	269.1	-102.2	466.4	436.1	30.33	15.375	
7,500.0	7,470.9	7,486.6	7,470.9	19.4	16.4	-88.25	269.1	-102.2	466.4	435.9	30.48	15.300	
7,600.0	7,570.9	7,586.6	7,570.9	19.4	16.5	-88.25	269.1	-102.2	466.4	435.8	30.63	15.226	
7,700.0	7,670.9	7,686.6	7,670.9	19.5	16.5	-88.25	269.1	-102.2	466.4	435.6	30.78	15.152	
7,800.0	7,770.9	7,786.6	7,770.9	19.6	16.6	-88.25	269.1	-102.2	466.4	435.5	30.93	15.079	
7,900.0	7,870.9	7,886.6	7,870.9	19.6	16.7	-88.25	269.1	-102.2	466.4	435.3	31.08	15.006	
8,000.0	7,970.9	7,986.6	7,970.9	19.7	16.8	-88.25	269.1	-102.2	466.4	435.2	31.23	14.935	
8,100.0	8,070.9	8,086.6	8,070.9	19.7	16.8	-88.25	269.1	-102.2	466.4	435.0	31.38	14.863	
8,200.0	8,170.9	8,186.6	8,170.9	19.8	16.9	-88.25	269.1	-102.2	466.4	434.9	31.53	14.793	
8,300.0	8,270.9	8,286.6	8,270.9	19.8	17.0	-88.25	269.1	-102.2	466.4	434.7	31.68	14.723	
8,400.0	8,370.9	8,386.6	8,370.9	19.9	17.1	-88.25	269.1	-102.2	466.4	434.6	31.83	14.653	
8,500.0	8,470.9	8,486.6	8,470.9	20.0	17.1	-88.25	269.1	-102.2	466.4	434.4	31.98	14.585	
8,600.0	8,570.9	8,586.6	8,570.9	20.0	17.2	-88.25	269.1	-102.2	466.4	434.3	32.13	14.516	
8,700.0	8,670.9	8,686.6	8,670.9	20.1	17.3	-88.25	269.1	-102.2	466.4	434.1	32.28	14.449	
8,800.0	8,770.9	8,786.6	8,770.9	20.1	17.4	-88.25	269.1	-102.2	466.4	434.0	32.43	14.382	
8,900.0	8,870.9	8,886.6	8,870.9	20.2	17.4	-88.25	269.1	-102.2	466.4	433.8	32.58	14.315	
9,000.0	8,970.9	8,986.6	8,970.9	20.3	17.5	-88.25	269.1	-102.2	466.4	433.7	32.73	14.250	
9,100.0	9,070.9	9,086.6	9,070.9	20.3	17.6	-88.25	269.1	-102.2	466.4	433.5	32.88	14.184	
9,200.0	9,170.9	9,186.6	9,170.9	20.4	17.7	-88.25	269.1	-102.2	466.4	433.4	33.03	14.119	
9,300.0	9,270.9	9,286.6	9,270.9	20.4	17.7	-88.25	269.1	-102.2	466.4	433.2	33.18	14.055	
9,400.0	9,370.9	9,386.6	9,370.9	20.5	17.8	-88.25	269.1	-102.2	466.4	433.1	33.33	13.992	
9,500.0	9,470.9	9,486.6	9,470.9	20.6	17.9	-88.25	269.1	-102.2	466.4	432.9	33.48	13.928	
9,600.0	9,570.9	9,586.6	9,570.9	20.6	18.0	-88.25	269.1	-102.2	466.4	432.8	33.64	13.866	
9,700.0	9,670.9	9,686.6	9,670.9	20.7	18.0	-88.25	269.1	-102.2	466.4	432.6	33.79	13.804	
9,800.0	9,770.9	9,786.6	9,770.9	20.8	18.1	-88.25	269.1	-102.2	466.4	432.5	33.94	13.742	
9,900.0	9,870.9	9,886.6	9,870.9	20.8	18.2	-88.25	269.1	-102.2	466.4	432.3	34.09	13.681	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,970.9	9,986.6	9,970.9	20.9	18.3	-88.25	269.1	-102.2	466.4	432.2	34.24	13.621	
10,100.0	10,070.9	10,086.6	10,070.9	20.9	18.3	-88.25	269.1	-102.2	466.4	432.0	34.39	13.561	
10,200.0	10,170.9	10,186.6	10,170.9	21.0	18.4	-88.25	269.1	-102.2	466.4	431.8	34.55	13.501	
10,300.0	10,270.9	10,286.6	10,270.9	21.1	18.5	-88.25	269.1	-102.2	466.4	431.7	34.70	13.442	
10,400.0	10,370.9	10,386.6	10,370.9	21.1	18.6	-88.25	269.1	-102.2	466.4	431.5	34.85	13.383	
10,500.0	10,470.9	10,486.6	10,470.9	21.2	18.7	-88.25	269.1	-102.2	466.4	431.4	35.00	13.325	
10,600.0	10,570.9	10,586.6	10,570.9	21.3	18.7	-88.25	269.1	-102.2	466.4	431.2	35.15	13.268	
10,700.0	10,670.9	10,686.6	10,670.9	21.3	18.8	-88.25	269.1	-102.2	466.4	431.1	35.30	13.210	
10,800.0	10,770.9	10,786.6	10,770.9	21.4	18.9	-88.25	269.1	-102.2	466.4	430.9	35.46	13.154	
10,900.0	10,870.9	10,886.6	10,870.9	21.4	19.0	-88.25	269.1	-102.2	466.4	430.8	35.61	13.098	
11,000.0	10,970.9	10,986.6	10,970.9	21.5	19.0	-88.25	269.1	-102.2	466.4	430.6	35.76	13.042	
11,100.0	11,070.9	11,086.6	11,070.9	21.6	19.1	-88.25	269.1	-102.2	466.4	430.5	35.91	12.986	
11,200.0	11,170.9	11,186.6	11,170.9	21.6	19.2	-88.25	269.1	-102.2	466.4	430.3	36.06	12.934	
11,299.7	11,270.6	11,287.1	11,270.6	21.7	19.0	-89.50	258.9	-102.3	466.3	430.1	36.19	12.884	
11,300.0	11,270.9	11,287.3	11,270.9	21.7	19.0	-89.51	258.9	-102.3	466.3	430.1	36.19	12.884	
11,371.6	11,342.5	11,354.9	11,335.7	21.7	18.8	-91.78	240.3	-102.5	466.7	430.3	36.35	12.838	
11,375.0	11,345.9	11,357.9	11,338.6	21.7	18.8	87.43	239.3	-102.5	466.8	430.4	36.36	12.837	
11,400.0	11,370.9	11,380.3	11,359.4	21.7	18.8	86.45	231.0	-102.6	467.2	430.8	36.41	12.833	
11,425.0	11,395.8	11,402.3	11,379.4	21.7	18.7	85.48	221.9	-102.6	467.8	431.4	36.44	12.837	
11,450.0	11,420.5	11,425.0	11,399.7	21.6	18.6	84.49	211.6	-102.7	468.5	432.0	36.48	12.845	
11,475.0	11,445.1	11,445.4	11,417.4	21.6	18.6	83.59	201.5	-102.8	469.4	432.9	36.50	12.860	
11,500.0	11,469.3	11,466.6	11,435.4	21.5	18.5	82.68	190.2	-102.9	470.3	433.8	36.52	12.878	
11,525.0	11,493.3	11,487.6	11,452.6	21.5	18.5	81.78	178.3	-103.0	471.3	434.8	36.54	12.900	
11,550.0	11,516.8	11,508.3	11,469.1	21.4	18.4	80.91	165.8	-103.1	472.5	435.9	36.56	12.925	
11,575.0	11,539.8	11,528.8	11,484.9	21.3	18.4	80.06	152.8	-103.2	473.7	437.1	36.57	12.951	
11,600.0	11,562.3	11,550.0	11,500.6	21.3	18.4	79.21	138.5	-103.4	474.9	438.3	36.59	12.979	
11,625.0	11,584.2	11,569.2	11,514.3	21.2	18.3	78.45	125.1	-103.5	476.2	439.6	36.61	13.008	
11,650.0	11,605.4	11,589.1	11,527.9	21.2	18.3	77.68	110.5	-103.6	477.6	440.9	36.63	13.037	
11,675.0	11,625.9	11,608.9	11,540.8	21.1	18.2	76.95	95.5	-103.7	478.9	442.3	36.65	13.065	
11,700.0	11,645.6	11,628.5	11,553.0	21.1	18.2	76.24	80.1	-103.9	480.3	443.6	36.68	13.093	
11,725.0	11,664.5	11,650.0	11,565.6	21.0	18.2	75.52	62.7	-104.0	481.6	444.9	36.71	13.120	
11,750.0	11,682.5	11,667.3	11,575.1	21.0	18.2	74.94	48.3	-104.1	483.0	446.2	36.75	13.143	
11,775.0	11,699.6	11,686.6	11,585.2	21.0	18.1	74.33	31.8	-104.3	484.3	447.5	36.79	13.165	
11,800.0	11,715.7	11,705.7	11,594.5	20.9	18.1	73.77	15.1	-104.4	485.6	448.8	36.83	13.184	
11,825.0	11,730.8	11,725.0	11,603.1	20.9	18.1	73.23	-2.1	-104.6	486.8	449.9	36.88	13.201	
11,850.0	11,744.8	11,743.7	11,610.9	20.9	18.1	72.74	-19.1	-104.7	488.0	451.1	36.93	13.215	
11,875.0	11,757.7	11,762.6	11,618.0	20.9	18.1	72.29	-36.6	-104.9	489.1	452.1	36.98	13.227	
11,900.0	11,769.4	11,781.4	11,624.4	20.8	18.0	71.87	-54.2	-105.0	490.2	453.1	37.03	13.235	
11,925.0	11,780.1	11,800.0	11,630.1	20.8	18.0	71.50	-72.0	-105.2	491.1	454.0	37.09	13.242	
11,950.0	11,789.5	11,818.7	11,635.1	20.8	18.0	71.16	-90.1	-105.4	492.0	454.8	37.14	13.245	
11,975.0	11,797.6	11,837.3	11,639.3	20.8	18.0	70.86	-108.2	-105.5	492.8	455.6	37.20	13.246	
12,000.0	11,804.6	11,855.9	11,642.9	20.8	18.0	70.60	-126.4	-105.7	493.4	456.2	37.25	13.245	
12,025.0	11,810.2	11,875.0	11,645.8	20.8	18.0	70.37	-145.3	-105.8	494.0	456.7	37.31	13.241	
12,050.0	11,814.6	11,892.9	11,647.8	20.8	18.0	70.20	-163.1	-106.0	494.5	457.1	37.36	13.235	
12,075.0	11,817.7	11,911.4	11,649.2	20.9	18.0	70.06	-181.5	-106.2	494.8	457.4	37.41	13.228	
12,100.0	11,819.5	11,929.8	11,649.9	20.9	18.0	69.96	-199.9	-106.3	495.0	457.6	37.45	13.219	
12,121.6	11,820.0	11,948.4	11,650.0	20.9	18.0	69.92	-218.5	-106.5	495.1	457.6	37.49	13.207	
12,200.0	11,820.0	12,026.8	11,650.0	21.0	18.0	69.91	-296.9	-107.2	494.9	457.2	37.69	13.132	
12,300.0	11,820.0	12,126.8	11,650.0	21.2	18.1	69.90	-396.9	-108.0	494.7	456.6	38.03	13.007	
12,400.0	11,820.0	12,226.8	11,650.0	21.4	18.2	69.89	-496.9	-108.9	494.4	456.0	38.46	12.855	
12,500.0	11,820.0	12,326.8	11,650.0	21.7	18.3	69.88	-596.9	-109.8	494.2	455.2	38.98	12.679	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	11,820.0	12,426.8	11,650.0	22.0	18.4	69.87	-696.9	-110.7	493.9	454.4	39.57	12.481	
12,700.0	11,820.0	12,526.8	11,650.0	22.3	18.7	69.86	-796.9	-111.5	493.7	453.4	40.25	12.267	
12,800.0	11,820.0	12,626.8	11,650.0	22.6	19.0	69.85	-896.9	-112.4	493.4	452.4	40.99	12.037	
12,900.0	11,820.0	12,726.8	11,650.0	23.0	19.4	69.84	-996.9	-113.3	493.2	451.4	41.81	11.797	
13,000.0	11,820.0	12,826.8	11,650.0	23.4	19.9	69.83	-1,096.9	-114.2	492.9	450.2	42.69	11.547	
13,100.0	11,820.0	12,926.8	11,650.0	23.9	20.5	69.82	-1,196.9	-115.0	492.7	449.1	43.63	11.292	
13,200.0	11,820.0	13,026.8	11,650.0	24.4	21.1	69.80	-1,296.9	-115.9	492.4	447.8	44.63	11.034	
13,300.0	11,820.0	13,126.8	11,650.0	24.9	21.7	69.79	-1,396.9	-116.8	492.2	446.5	45.68	10.774	
13,400.0	11,820.0	13,226.8	11,650.0	25.4	22.3	69.78	-1,496.9	-117.7	491.9	445.2	46.79	10.515	
13,500.0	11,820.0	13,326.8	11,650.0	26.0	23.0	69.77	-1,596.8	-118.5	491.7	443.8	47.94	10.257	
13,600.0	11,820.0	13,426.8	11,650.0	26.6	23.7	69.76	-1,696.8	-119.4	491.4	442.3	49.13	10.003	
13,700.0	11,820.0	13,526.8	11,650.0	27.2	24.4	69.75	-1,796.8	-120.3	491.2	440.8	50.36	9.753	
13,800.0	11,820.0	13,626.8	11,650.0	27.8	25.1	69.74	-1,896.8	-121.2	490.9	439.3	51.63	9.509	
13,900.0	11,820.0	13,726.8	11,650.0	28.5	25.9	69.73	-1,996.8	-122.0	490.7	437.8	52.93	9.270	
14,000.0	11,820.0	13,826.8	11,650.0	29.2	26.7	69.72	-2,096.8	-122.9	490.4	436.2	54.27	9.037	
14,100.0	11,820.0	13,926.8	11,650.0	29.9	27.4	69.71	-2,196.8	-123.8	490.2	434.6	55.64	8.811	
14,200.0	11,820.0	14,026.8	11,650.0	30.6	28.2	69.70	-2,296.8	-124.7	489.9	432.9	57.03	8.591	
14,300.0	11,820.0	14,126.8	11,650.0	31.3	29.0	69.69	-2,396.8	-125.5	489.7	431.2	58.45	8.378	
14,400.0	11,820.0	14,226.8	11,650.0	32.0	29.8	69.68	-2,496.8	-126.4	489.4	429.6	59.89	8.172	
14,500.0	11,820.0	14,326.8	11,650.0	32.8	30.6	69.67	-2,596.8	-127.3	489.2	427.8	61.36	7.973	
14,600.0	11,820.0	14,426.8	11,650.0	33.5	31.4	69.65	-2,696.8	-128.2	489.0	426.1	62.84	7.781	
14,700.0	11,820.0	14,526.8	11,650.0	34.3	32.3	69.64	-2,796.8	-129.0	488.7	424.4	64.34	7.595	
14,800.0	11,820.0	14,626.8	11,650.0	35.1	33.1	69.63	-2,896.8	-129.9	488.5	422.6	65.86	7.416	
14,900.0	11,820.0	14,726.8	11,650.0	35.8	34.0	69.62	-2,996.8	-130.8	488.2	420.8	67.40	7.243	
15,000.0	11,820.0	14,826.8	11,650.0	36.6	34.8	69.61	-3,096.8	-131.7	488.0	419.0	68.95	7.077	
15,100.0	11,820.0	14,926.8	11,650.0	37.4	35.7	69.60	-3,196.8	-132.5	487.7	417.2	70.52	6.916	
15,200.0	11,820.0	15,026.8	11,650.0	38.2	36.5	69.59	-3,296.8	-133.4	487.5	415.4	72.10	6.761	
15,300.0	11,820.0	15,126.8	11,650.0	39.1	37.4	69.58	-3,396.8	-134.3	487.2	413.5	73.69	6.611	
15,400.0	11,820.0	15,226.8	11,650.0	39.9	38.3	69.57	-3,496.8	-135.1	487.0	411.7	75.30	6.467	
15,500.0	11,820.0	15,326.8	11,650.0	40.7	39.1	69.56	-3,596.8	-136.0	486.7	409.8	76.91	6.328	
15,600.0	11,820.0	15,426.8	11,650.0	41.5	40.0	69.55	-3,696.8	-136.9	486.5	407.9	78.54	6.194	
15,700.0	11,820.0	15,526.8	11,650.0	42.4	40.9	69.53	-3,796.8	-137.8	486.2	406.0	80.18	6.064	
15,800.0	11,820.0	15,626.8	11,650.0	43.2	41.8	69.52	-3,896.8	-138.6	486.0	404.2	81.82	5.940	
15,900.0	11,820.0	15,726.8	11,650.0	44.1	42.7	69.51	-3,996.7	-139.5	485.7	402.3	83.47	5.819	
16,000.0	11,820.0	15,826.8	11,650.0	44.9	43.5	69.50	-4,096.7	-140.4	485.5	400.3	85.13	5.703	
16,100.0	11,820.0	15,926.8	11,650.0	45.8	44.4	69.49	-4,196.7	-141.3	485.2	398.4	86.80	5.590	
16,200.0	11,820.0	16,026.8	11,650.0	46.7	45.3	69.48	-4,296.7	-142.1	485.0	396.5	88.48	5.481	
16,300.0	11,820.0	16,126.8	11,650.0	47.5	46.2	69.47	-4,396.7	-143.0	484.7	394.6	90.16	5.376	
16,400.0	11,820.0	16,226.8	11,650.0	48.4	47.1	69.46	-4,496.7	-143.9	484.5	392.6	91.85	5.275	
16,500.0	11,820.0	16,326.8	11,650.0	49.3	48.0	69.45	-4,596.7	-144.8	484.2	390.7	93.54	5.177	
16,600.0	11,820.0	16,426.8	11,650.0	50.1	48.9	69.44	-4,696.7	-145.6	484.0	388.7	95.24	5.082	
16,700.0	11,820.0	16,526.8	11,650.0	51.0	49.8	69.43	-4,796.7	-146.5	483.7	386.8	96.95	4.990	
16,800.0	11,820.0	16,626.8	11,650.0	51.9	50.8	69.41	-4,896.7	-147.4	483.5	384.8	98.66	4.901	
16,900.0	11,820.0	16,726.8	11,650.0	52.8	51.7	69.40	-4,996.7	-148.3	483.2	382.9	100.37	4.814	
17,000.0	11,820.0	16,826.8	11,650.0	53.7	52.6	69.39	-5,096.7	-149.1	483.0	380.9	102.09	4.731	
17,100.0	11,820.0	16,926.8	11,650.0	54.6	53.5	69.38	-5,196.7	-150.0	482.7	378.9	103.82	4.650	
17,200.0	11,820.0	17,026.8	11,650.0	55.4	54.4	69.37	-5,296.7	-150.9	482.5	377.0	105.54	4.572	
17,300.0	11,820.0	17,126.8	11,650.0	56.3	55.3	69.36	-5,396.7	-151.8	482.3	375.0	107.28	4.495	
17,400.0	11,820.0	17,226.8	11,650.0	57.2	56.2	69.35	-5,496.7	-152.6	482.0	373.0	109.01	4.422	
17,500.0	11,820.0	17,326.8	11,650.0	58.1	57.2	69.34	-5,596.7	-153.5	481.8	371.0	110.75	4.350	
17,600.0	11,820.0	17,426.8	11,650.0	59.0	58.1	69.33	-5,696.7	-154.4	481.5	369.0	112.49	4.280	

Rule Assigned:

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	11,820.0	17,526.8	11,650.0	59.9	59.0	69.31	-5,796.7	-155.3	481.3	367.0	114.24	4.213	
17,800.0	11,820.0	17,626.8	11,650.0	60.8	59.9	69.30	-5,896.7	-156.1	481.0	365.0	115.99	4.147	
17,900.0	11,820.0	17,726.8	11,650.0	61.7	60.9	69.29	-5,996.7	-157.0	480.8	363.0	117.74	4.083	
18,000.0	11,820.0	17,826.8	11,650.0	62.7	61.8	69.28	-6,096.7	-157.9	480.5	361.0	119.49	4.021	
18,100.0	11,820.0	17,926.8	11,650.0	63.6	62.7	69.27	-6,196.7	-158.8	480.3	359.0	121.25	3.961	
18,200.0	11,820.0	18,026.8	11,650.0	64.5	63.6	69.26	-6,296.7	-159.6	480.0	357.0	123.01	3.902	
18,300.0	11,820.0	18,126.8	11,650.0	65.4	64.6	69.25	-6,396.6	-160.5	479.8	355.0	124.77	3.845	
18,400.0	11,820.0	18,226.8	11,650.0	66.3	65.5	69.24	-6,496.6	-161.4	479.5	353.0	126.54	3.790	
18,500.0	11,820.0	18,326.8	11,650.0	67.2	66.4	69.22	-6,596.6	-162.3	479.3	351.0	128.30	3.736	
18,600.0	11,820.0	18,426.8	11,650.0	68.1	67.3	69.21	-6,696.6	-163.1	479.0	349.0	130.07	3.683	
18,700.0	11,820.0	18,526.8	11,650.0	69.0	68.3	69.20	-6,796.6	-164.0	478.8	346.9	131.84	3.631	
18,800.0	11,820.0	18,626.8	11,650.0	70.0	69.2	69.19	-6,896.6	-164.9	478.5	344.9	133.61	3.581	
18,900.0	11,820.0	18,726.8	11,650.0	70.9	70.1	69.18	-6,996.6	-165.8	478.3	342.9	135.39	3.533	
19,000.0	11,820.0	18,826.8	11,650.0	71.8	71.1	69.17	-7,096.6	-166.6	478.0	340.9	137.16	3.485	
19,100.0	11,820.0	18,926.8	11,650.0	72.7	72.0	69.16	-7,196.6	-167.5	477.8	338.8	138.94	3.439	
19,200.0	11,820.0	19,026.8	11,650.0	73.6	72.9	69.15	-7,296.6	-168.4	477.5	336.8	140.72	3.394	
19,300.0	11,820.0	19,126.8	11,650.0	74.6	73.9	69.13	-7,396.6	-169.3	477.3	334.8	142.50	3.349	
19,315.5	11,820.0	19,142.3	11,650.0	74.7	74.0	69.13	-7,412.1	-169.4	477.3	334.5	142.78	3.343	
19,316.0	11,820.0	19,142.8	11,650.0	74.7	74.0	69.13	-7,412.6	-169.4	477.3	334.5	142.79	3.342	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 708H - OWB - PWP0 — **Offset Site Error:** 0.0 usft

Survey Program: 0-r.5 MWD+IFR1 — **Offset Well Error:** 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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, ES, SF
1,100.0	1,100.0	1,099.0	1,099.0	5.1	5.2	88.29	0.9	31.6	31.7	21.0	10.62	2.981	
1,200.0	1,200.0	1,197.7	1,197.5	5.2	5.4	86.04	2.5	36.5	36.7	25.6	11.01	3.330	
1,300.0	1,300.0	1,296.1	1,295.6	5.5	5.7	29.43	5.1	44.5	43.5	32.1	11.46	3.798	
1,400.0	1,399.8	1,394.3	1,393.0	5.7	6.0	29.33	8.8	55.8	50.7	38.8	11.92	4.256	
1,500.0	1,499.5	1,492.2	1,489.8	6.0	6.3	30.18	13.5	70.1	58.2	45.8	12.39	4.699	
1,600.0	1,598.7	1,590.7	1,586.6	6.3	6.5	31.72	19.1	87.4	65.8	53.0	12.78	5.148	
1,700.0	1,697.7	1,690.4	1,684.5	6.5	6.8	33.64	25.0	105.5	72.5	59.3	13.22	5.486	
1,800.0	1,796.8	1,790.2	1,782.4	6.7	7.1	35.23	30.8	123.6	79.3	65.6	13.69	5.793	
1,900.0	1,895.8	1,889.9	1,880.3	7.0	7.4	36.57	36.7	141.7	86.2	72.0	14.19	6.073	
2,000.0	1,994.8	1,989.7	1,978.2	7.3	7.7	37.71	42.6	159.8	93.0	78.3	14.71	6.327	
2,100.0	2,093.8	2,089.4	2,076.1	7.6	8.0	38.70	48.5	177.9	100.0	84.7	15.24	6.560	
2,200.0	2,192.9	2,189.2	2,174.1	7.9	8.4	39.55	54.4	196.0	106.9	91.1	15.79	6.771	
2,300.0	2,291.9	2,288.9	2,272.0	8.2	8.7	40.30	60.3	214.1	113.9	97.5	16.35	6.964	
2,400.0	2,390.9	2,388.7	2,369.9	8.5	9.1	40.97	66.1	232.2	120.8	103.9	16.92	7.141	
2,500.0	2,489.9	2,488.4	2,467.8	8.8	9.5	41.56	72.0	250.3	127.8	110.3	17.51	7.303	
2,600.0	2,589.0	2,588.2	2,565.7	9.2	9.9	42.09	77.9	268.5	134.8	116.7	18.10	7.451	
2,700.0	2,688.0	2,687.9	2,663.6	9.5	10.3	42.57	83.8	286.6	141.9	123.2	18.70	7.587	
2,800.0	2,787.0	2,787.7	2,761.5	9.9	10.7	43.01	89.7	304.7	148.9	129.6	19.30	7.713	
2,900.0	2,886.1	2,887.4	2,859.5	10.3	11.1	43.40	95.5	322.8	155.9	136.0	19.92	7.828	
3,000.0	2,985.1	2,987.2	2,957.4	10.6	11.5	43.76	101.4	340.9	163.0	142.4	20.54	7.935	
3,100.0	3,084.1	3,086.9	3,055.3	11.0	11.9	44.09	107.3	359.0	170.0	148.8	21.16	8.034	
3,200.0	3,183.1	3,186.6	3,153.2	11.4	12.3	44.39	113.2	377.1	177.1	155.3	21.79	8.126	
3,300.0	3,282.2	3,286.4	3,251.1	11.8	12.7	44.68	119.1	395.2	184.1	161.7	22.42	8.212	
3,400.0	3,381.2	3,386.1	3,349.0	12.1	13.2	44.94	124.9	413.3	191.2	168.1	23.06	8.292	
3,500.0	3,480.2	3,485.9	3,446.9	12.5	13.6	45.18	130.8	431.4	198.2	174.5	23.69	8.366	
3,600.0	3,579.2	3,585.6	3,544.9	12.9	14.0	45.40	136.7	449.5	205.3	181.0	24.34	8.435	
3,700.0	3,678.3	3,685.4	3,642.8	13.3	14.5	45.61	142.6	467.6	212.4	187.4	24.98	8.500	
3,800.0	3,777.3	3,785.1	3,740.7	13.7	14.9	45.81	148.5	485.7	219.4	193.8	25.63	8.561	
3,900.0	3,876.3	3,884.9	3,838.6	14.1	15.3	45.99	154.4	503.8	226.5	200.2	26.28	8.619	
4,000.0	3,975.3	3,984.6	3,936.5	14.5	15.8	46.17	160.2	521.9	233.6	206.7	26.93	8.673	
4,100.0	4,074.4	4,084.4	4,034.4	14.9	16.2	46.33	166.1	540.0	240.7	213.1	27.59	8.723	
4,191.5	4,165.0	4,175.7	4,124.0	15.3	16.6	46.47	171.5	556.5	247.1	219.0	28.18	8.769	
4,200.0	4,173.4	4,184.1	4,132.3	15.3	16.6	46.49	172.0	558.1	247.7	219.5	28.24	8.774	
4,300.0	4,272.6	4,283.8	4,230.2	15.7	17.1	46.52	177.9	576.2	255.5	226.6	28.96	8.823	
4,400.0	4,371.9	4,383.4	4,328.0	16.1	17.5	46.29	183.7	594.2	264.5	234.8	29.69	8.908	
4,500.0	4,471.5	4,482.8	4,425.6	16.5	18.0	45.82	189.6	612.3	274.7	244.2	30.47	9.015	
4,600.0	4,571.2	4,582.1	4,523.0	16.9	18.4	45.16	195.5	630.3	286.2	254.9	31.29	9.145	
4,700.0	4,671.0	4,681.2	4,620.3	17.2	18.8	44.32	201.3	648.3	298.9	266.7	32.14	9.299	
4,800.0	4,770.9	4,780.0	4,717.3	17.5	19.3	43.34	207.1	666.2	312.9	279.9	33.02	9.478	
4,900.0	4,870.9	4,878.6	4,814.1	17.8	19.7	42.26	212.9	684.1	328.4	294.5	33.90	9.686	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 708H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,991.5	4,962.4	4,968.6	4,902.4	18.0	20.1	96.21	218.3	700.4	343.7	309.1	34.66	9.918	
5,000.0	4,970.9	4,976.9	4,910.6	18.0	20.2	96.10	218.7	701.9	345.2	310.5	34.72	9.942	
5,100.0	5,070.9	5,075.1	5,006.9	18.0	20.6	94.87	224.5	719.7	362.8	327.2	35.52	10.214	
5,200.0	5,170.9	5,176.1	5,106.2	18.1	21.1	93.74	230.4	737.9	380.3	344.0	36.26	10.488	
5,300.0	5,270.9	5,281.3	5,209.7	18.2	21.5	92.75	236.1	755.3	396.5	359.5	37.00	10.718	
5,400.0	5,370.9	5,387.1	5,314.2	18.2	22.0	91.93	241.2	770.9	411.1	373.4	37.69	10.909	
5,500.0	5,470.9	5,493.4	5,419.6	18.3	22.4	91.25	245.7	784.8	424.1	385.7	38.33	11.064	
5,600.0	5,570.9	5,600.3	5,525.7	18.3	22.9	90.69	249.6	796.9	435.3	396.4	38.93	11.183	
5,700.0	5,670.9	5,707.6	5,632.5	18.4	23.3	90.25	252.9	807.1	444.8	405.3	39.48	11.267	
5,800.0	5,770.9	5,815.3	5,739.8	18.4	23.7	89.90	255.6	815.5	452.6	412.6	39.99	11.318	
5,900.0	5,870.9	5,923.3	5,847.6	18.5	24.1	89.64	257.7	821.9	458.6	418.1	40.44	11.339	
6,000.0	5,970.9	6,031.5	5,955.7	18.5	24.4	89.46	259.2	826.4	462.7	421.9	40.84	11.331	
6,100.0	6,070.9	6,139.8	6,064.0	18.6	24.7	89.36	260.0	829.0	465.1	424.0	41.16	11.300	
6,200.0	6,170.9	6,246.8	6,170.9	18.6	24.9	89.34	260.2	829.7	465.8	424.4	41.34	11.266	
6,300.0	6,270.9	6,346.8	6,270.9	18.7	25.0	89.34	260.2	829.7	465.8	424.3	41.43	11.243	
6,400.0	6,370.9	6,446.8	6,370.9	18.8	25.0	89.34	260.2	829.7	465.8	424.2	41.52	11.218	
6,500.0	6,470.9	6,546.8	6,470.9	18.8	25.0	89.34	260.2	829.7	465.8	424.1	41.61	11.193	
6,600.0	6,570.9	6,646.8	6,570.9	18.9	25.1	89.34	260.2	829.7	465.8	424.0	41.70	11.169	
6,700.0	6,670.9	6,746.8	6,670.9	18.9	25.1	89.34	260.2	829.7	465.8	424.0	41.79	11.144	
6,800.0	6,770.9	6,846.8	6,770.9	19.0	25.1	89.34	260.2	829.7	465.8	423.9	41.89	11.119	
6,900.0	6,870.9	6,946.8	6,870.9	19.0	25.2	89.34	260.2	829.7	465.8	423.8	41.98	11.094	
7,000.0	6,970.9	7,046.8	6,970.9	19.1	25.2	89.34	260.2	829.7	465.8	423.7	42.08	11.069	
7,100.0	7,070.9	7,146.8	7,070.9	19.2	25.3	89.34	260.2	829.7	465.8	423.6	42.17	11.044	
7,200.0	7,170.9	7,246.8	7,170.9	19.2	25.3	89.34	260.2	829.7	465.8	423.5	42.27	11.020	
7,300.0	7,270.9	7,346.8	7,270.9	19.3	25.3	89.34	260.2	829.7	465.8	423.4	42.36	10.995	
7,400.0	7,370.9	7,446.8	7,370.9	19.3	25.4	89.34	260.2	829.7	465.8	423.3	42.46	10.970	
7,500.0	7,470.9	7,546.8	7,470.9	19.4	25.4	89.34	260.2	829.7	465.8	423.2	42.55	10.945	
7,600.0	7,570.9	7,646.8	7,570.9	19.4	25.4	89.34	260.2	829.7	465.8	423.1	42.65	10.920	
7,700.0	7,670.9	7,746.8	7,670.9	19.5	25.5	89.34	260.2	829.7	465.8	423.0	42.75	10.895	
7,800.0	7,770.9	7,846.8	7,770.9	19.6	25.5	89.34	260.2	829.7	465.8	422.9	42.84	10.871	
7,900.0	7,870.9	7,946.8	7,870.9	19.6	25.6	89.34	260.2	829.7	465.8	422.8	42.94	10.846	
8,000.0	7,970.9	8,046.8	7,970.9	19.7	25.6	89.34	260.2	829.7	465.8	422.7	43.04	10.821	
8,100.0	8,070.9	8,146.8	8,070.9	19.7	25.6	89.34	260.2	829.7	465.8	422.6	43.14	10.796	
8,200.0	8,170.9	8,246.8	8,170.9	19.8	25.7	89.34	260.2	829.7	465.8	422.5	43.24	10.772	
8,300.0	8,270.9	8,346.8	8,270.9	19.8	25.7	89.34	260.2	829.7	465.8	422.4	43.34	10.747	
8,400.0	8,370.9	8,446.8	8,370.9	19.9	25.8	89.34	260.2	829.7	465.8	422.3	43.44	10.722	
8,500.0	8,470.9	8,546.8	8,470.9	20.0	25.8	89.34	260.2	829.7	465.8	422.2	43.54	10.698	
8,600.0	8,570.9	8,646.8	8,570.9	20.0	25.8	89.34	260.2	829.7	465.8	422.1	43.64	10.673	
8,700.0	8,670.9	8,746.8	8,670.9	20.1	25.9	89.34	260.2	829.7	465.8	422.0	43.74	10.649	
8,800.0	8,770.9	8,846.8	8,770.9	20.1	25.9	89.34	260.2	829.7	465.8	421.9	43.84	10.624	
8,900.0	8,870.9	8,946.8	8,870.9	20.2	26.0	89.34	260.2	829.7	465.8	421.8	43.94	10.599	
9,000.0	8,970.9	9,046.8	8,970.9	20.3	26.0	89.34	260.2	829.7	465.8	421.7	44.04	10.575	
9,100.0	9,070.9	9,146.8	9,070.9	20.3	26.1	89.34	260.2	829.7	465.8	421.6	44.15	10.550	
9,200.0	9,170.9	9,246.8	9,170.9	20.4	26.1	89.34	260.2	829.7	465.8	421.5	44.25	10.526	
9,300.0	9,270.9	9,346.8	9,270.9	20.4	26.1	89.34	260.2	829.7	465.8	421.4	44.35	10.501	
9,400.0	9,370.9	9,446.8	9,370.9	20.5	26.2	89.34	260.2	829.7	465.8	421.3	44.45	10.477	
9,500.0	9,470.9	9,546.8	9,470.9	20.6	26.2	89.34	260.2	829.7	465.8	421.2	44.56	10.453	
9,600.0	9,570.9	9,646.8	9,570.9	20.6	26.3	89.34	260.2	829.7	465.8	421.1	44.66	10.428	
9,700.0	9,670.9	9,746.8	9,670.9	20.7	26.3	89.34	260.2	829.7	465.8	421.0	44.77	10.404	
9,800.0	9,770.9	9,846.8	9,770.9	20.8	26.4	89.34	260.2	829.7	465.8	420.9	44.87	10.380	
9,900.0	9,870.9	9,946.8	9,870.9	20.8	26.4	89.34	260.2	829.7	465.8	420.8	44.98	10.356	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 708H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,970.9	10,046.8	9,970.9	20.9	26.4	89.34	260.2	829.7	465.8	420.7	45.08	10.331	
10,100.0	10,070.9	10,146.8	10,070.9	20.9	26.5	89.34	260.2	829.7	465.8	420.6	45.19	10.307	
10,200.0	10,170.9	10,246.8	10,170.9	21.0	26.5	89.34	260.2	829.7	465.8	420.5	45.29	10.283	
10,300.0	10,270.9	10,346.8	10,270.9	21.1	26.6	89.34	260.2	829.7	465.8	420.4	45.40	10.259	
10,400.0	10,370.9	10,446.8	10,370.9	21.1	26.6	89.34	260.2	829.7	465.8	420.2	45.51	10.235	
10,500.0	10,470.9	10,546.8	10,470.9	21.2	26.7	89.34	260.2	829.7	465.8	420.1	45.61	10.211	
10,600.0	10,570.9	10,646.8	10,570.9	21.3	26.7	89.34	260.2	829.7	465.8	420.0	45.72	10.187	
10,700.0	10,670.9	10,746.8	10,670.9	21.3	26.8	89.34	260.2	829.7	465.8	419.9	45.83	10.163	
10,800.0	10,770.9	10,846.8	10,770.9	21.4	26.8	89.34	260.2	829.7	465.8	419.8	45.94	10.139	
10,900.0	10,870.9	10,946.8	10,870.9	21.4	26.8	89.34	260.2	829.7	465.8	419.7	46.04	10.115	
11,000.0	10,970.9	11,046.8	10,970.9	21.5	26.9	89.34	260.2	829.7	465.8	419.6	46.15	10.092	
11,100.0	11,070.9	11,146.8	11,070.9	21.6	26.9	89.34	260.2	829.7	465.8	419.5	46.26	10.068	
11,200.0	11,170.9	11,246.8	11,170.9	21.6	27.0	89.34	260.2	829.7	465.8	419.4	46.36	10.046	
11,300.0	11,270.9	11,347.8	11,271.2	21.7	26.9	90.60	249.9	829.5	465.6	419.4	46.18	10.082	
11,307.6	11,278.5	11,355.2	11,278.5	21.7	26.9	90.80	248.3	829.5	465.6	419.4	46.15	10.088	
11,371.6	11,342.5	11,415.5	11,336.3	21.7	26.8	92.90	231.3	829.3	466.0	420.1	45.85	10.163	
11,375.0	11,345.9	11,418.6	11,339.1	21.7	26.8	-87.62	230.2	829.3	466.0	420.2	45.83	10.168	
11,400.0	11,370.9	11,441.0	11,359.9	21.7	26.7	-86.63	221.9	829.1	466.4	420.7	45.69	10.208	
11,425.0	11,395.8	11,463.1	11,380.0	21.7	26.7	-85.66	212.8	829.0	467.0	421.4	45.57	10.248	
11,450.0	11,420.5	11,484.9	11,399.4	21.6	26.7	-84.70	202.9	828.9	467.7	422.2	45.47	10.287	
11,475.0	11,445.1	11,506.4	11,418.1	21.6	26.6	-83.76	192.2	828.7	468.5	423.1	45.38	10.324	
11,500.0	11,469.3	11,527.6	11,436.1	21.5	26.6	-82.84	180.9	828.6	469.4	424.1	45.32	10.359	
11,525.0	11,493.3	11,550.0	11,454.5	21.5	26.6	-81.89	168.1	828.4	470.5	425.2	45.25	10.398	
11,550.0	11,516.8	11,569.3	11,469.8	21.4	26.6	-81.06	156.4	828.2	471.6	426.3	45.26	10.420	
11,575.0	11,539.8	11,589.8	11,485.6	21.3	26.5	-80.21	143.3	828.0	472.8	427.5	45.27	10.444	
11,600.0	11,562.3	11,610.2	11,500.6	21.3	26.5	-79.38	129.6	827.9	474.0	428.7	45.30	10.465	
11,625.0	11,584.2	11,630.3	11,515.0	21.2	26.5	-78.58	115.5	827.7	475.3	430.0	45.35	10.481	
11,650.0	11,605.4	11,650.0	11,528.4	21.2	26.5	-77.81	101.1	827.5	476.7	431.2	45.43	10.491	
11,675.0	11,625.9	11,670.1	11,541.5	21.1	26.5	-77.06	85.8	827.2	478.0	432.5	45.53	10.499	
11,700.0	11,645.6	11,689.7	11,553.6	21.1	26.4	-76.35	70.4	827.0	479.4	433.7	45.65	10.501	
11,725.0	11,664.5	11,709.2	11,565.1	21.0	26.4	-75.67	54.6	826.8	480.7	434.9	45.79	10.498	
11,750.0	11,682.5	11,728.6	11,575.8	21.0	26.4	-75.03	38.4	826.6	482.1	436.1	45.96	10.490	
11,775.0	11,699.6	11,750.0	11,586.8	21.0	26.4	-74.37	20.1	826.3	483.4	437.3	46.09	10.490	
11,800.0	11,715.7	11,767.0	11,595.0	20.9	26.4	-73.84	5.2	826.1	484.7	438.4	46.33	10.461	
11,825.0	11,730.8	11,786.1	11,603.5	20.9	26.4	-73.31	-11.8	825.9	486.0	439.4	46.55	10.441	
11,850.0	11,744.8	11,805.0	11,611.3	20.9	26.4	-72.81	-29.1	825.6	487.2	440.4	46.77	10.416	
11,875.0	11,757.7	11,825.0	11,618.8	20.9	26.4	-72.32	-47.6	825.4	488.3	441.3	46.98	10.393	
11,900.0	11,769.4	11,842.7	11,624.8	20.8	26.4	-71.92	-64.3	825.1	489.4	442.1	47.25	10.357	
11,925.0	11,780.1	11,861.4	11,630.5	20.8	26.4	-71.53	-82.1	824.9	490.3	442.8	47.50	10.323	
11,950.0	11,789.5	11,880.1	11,635.4	20.8	26.4	-71.18	-100.1	824.6	491.2	443.5	47.75	10.287	
11,975.0	11,797.6	11,900.0	11,639.9	20.8	26.4	-70.86	-119.5	824.4	492.0	444.0	47.99	10.254	
12,000.0	11,804.6	11,917.3	11,643.1	20.8	26.4	-70.61	-136.5	824.1	492.7	444.4	48.27	10.208	
12,025.0	11,810.2	11,935.8	11,645.9	20.8	26.4	-70.38	-154.8	823.9	493.3	444.8	48.52	10.167	
12,050.0	11,814.6	11,954.3	11,647.9	20.8	26.5	-70.19	-173.2	823.6	493.8	445.0	48.77	10.124	
12,075.0	11,817.7	11,975.0	11,649.4	20.9	26.5	-70.04	-193.8	823.3	494.2	445.2	48.99	10.087	
12,100.0	11,819.5	11,991.2	11,649.9	20.9	26.5	-69.94	-210.0	823.1	494.4	445.2	49.26	10.037	
12,121.6	11,820.0	12,010.3	11,650.0	20.9	26.5	-69.89	-229.1	822.8	494.5	445.1	49.42	10.006	
12,200.0	11,820.0	12,088.7	11,650.0	21.0	26.6	-69.89	-307.4	821.8	494.3	444.4	49.89	9.908	
12,300.0	11,820.0	12,188.7	11,650.0	21.2	26.8	-69.87	-407.4	820.4	494.1	443.5	50.55	9.774	
12,400.0	11,820.0	12,288.7	11,650.0	21.4	27.0	-69.86	-507.4	819.0	493.8	442.6	51.27	9.632	
12,500.0	11,820.0	12,388.7	11,650.0	21.7	27.3	-69.85	-607.4	817.6	493.6	441.6	52.05	9.484	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 708H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Offset Well Error: 3.0 usft

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,600.0	11,820.0	12,488.7	11,650.0	22.0	27.5	-69.84	-707.4	816.2	493.4	440.5	52.88	9.330	
12,700.0	11,820.0	12,588.7	11,650.0	22.3	27.8	-69.83	-807.4	814.8	493.1	439.4	53.76	9.173	
12,800.0	11,820.0	12,688.7	11,650.0	22.6	28.2	-69.82	-907.4	813.4	492.9	438.2	54.69	9.012	
12,900.0	11,820.0	12,788.7	11,650.0	23.0	28.5	-69.81	-1,007.4	812.0	492.6	437.0	55.67	8.850	
13,000.0	11,820.0	12,888.7	11,650.0	23.4	28.9	-69.80	-1,107.4	810.6	492.4	435.7	56.69	8.686	
13,100.0	11,820.0	12,988.7	11,650.0	23.9	29.3	-69.79	-1,207.4	809.2	492.2	434.4	57.75	8.522	
13,200.0	11,820.0	13,088.7	11,650.0	24.4	29.7	-69.78	-1,307.3	807.8	491.9	433.1	58.85	8.358	
13,300.0	11,820.0	13,188.7	11,650.0	24.9	30.2	-69.77	-1,407.3	806.4	491.7	431.7	59.99	8.195	
13,400.0	11,820.0	13,288.7	11,650.0	25.4	30.6	-69.76	-1,507.3	805.0	491.4	430.3	61.17	8.034	
13,500.0	11,820.0	13,388.7	11,650.0	26.0	31.1	-69.75	-1,607.3	803.6	491.2	428.8	62.38	7.874	
13,600.0	11,820.0	13,488.7	11,650.0	26.6	31.6	-69.74	-1,707.3	802.2	491.0	427.3	63.62	7.717	
13,700.0	11,820.0	13,588.7	11,650.0	27.2	32.2	-69.73	-1,807.3	800.8	490.7	425.8	64.89	7.563	
13,800.0	11,820.0	13,688.7	11,650.0	27.8	32.7	-69.72	-1,907.3	799.4	490.5	424.3	66.18	7.411	
13,900.0	11,820.0	13,788.7	11,650.0	28.5	33.3	-69.71	-2,007.3	798.0	490.2	422.7	67.51	7.262	
14,000.0	11,820.0	13,888.7	11,650.0	29.2	33.9	-69.70	-2,107.3	796.6	490.0	421.1	68.86	7.116	
14,100.0	11,820.0	13,988.7	11,650.0	29.9	34.5	-69.69	-2,207.3	795.2	489.7	419.5	70.23	6.974	
14,200.0	11,820.0	14,088.7	11,650.0	30.6	35.1	-69.68	-2,307.2	793.8	489.5	417.9	71.62	6.835	
14,300.0	11,820.0	14,188.7	11,650.0	31.3	35.7	-69.67	-2,407.2	792.4	489.3	416.2	73.03	6.699	
14,400.0	11,820.0	14,288.7	11,650.0	32.0	36.4	-69.66	-2,507.2	791.0	489.0	414.6	74.47	6.567	
14,500.0	11,820.0	14,388.7	11,650.0	32.8	37.0	-69.65	-2,607.2	789.6	488.8	412.9	75.92	6.438	
14,600.0	11,820.0	14,488.7	11,650.0	33.5	37.7	-69.64	-2,707.2	788.2	488.5	411.2	77.38	6.313	
14,700.0	11,820.0	14,588.7	11,650.0	34.3	38.4	-69.63	-2,807.2	786.8	488.3	409.4	78.87	6.191	
14,800.0	11,820.0	14,688.7	11,650.0	35.1	39.1	-69.62	-2,907.2	785.5	488.1	407.7	80.37	6.073	
14,900.0	11,820.0	14,788.7	11,650.0	35.8	39.8	-69.61	-3,007.2	784.1	487.8	405.9	81.88	5.957	
15,000.0	11,820.0	14,888.7	11,650.0	36.6	40.5	-69.59	-3,107.2	782.7	487.6	404.2	83.41	5.845	
15,100.0	11,820.0	14,988.7	11,650.0	37.4	41.3	-69.58	-3,207.2	781.3	487.3	402.4	84.95	5.737	
15,200.0	11,820.0	15,088.7	11,650.0	38.2	42.0	-69.57	-3,307.1	779.9	487.1	400.6	86.51	5.631	
15,300.0	11,820.0	15,188.7	11,650.0	39.1	42.7	-69.56	-3,407.1	778.5	486.9	398.8	88.07	5.528	
15,400.0	11,820.0	15,288.7	11,650.0	39.9	43.5	-69.55	-3,507.1	777.1	486.6	397.0	89.65	5.428	
15,500.0	11,820.0	15,388.7	11,650.0	40.7	44.2	-69.54	-3,607.1	775.7	486.4	395.1	91.23	5.331	
15,600.0	11,820.0	15,488.7	11,650.0	41.5	45.0	-69.53	-3,707.1	774.3	486.1	393.3	92.83	5.237	
15,700.0	11,820.0	15,588.7	11,650.0	42.4	45.8	-69.52	-3,807.1	772.9	485.9	391.5	94.44	5.145	
15,800.0	11,820.0	15,688.7	11,650.0	43.2	46.6	-69.51	-3,907.1	771.5	485.7	389.6	96.05	5.056	
15,900.0	11,820.0	15,788.7	11,650.0	44.1	47.4	-69.50	-4,007.1	770.1	485.4	387.7	97.67	4.970	
16,000.0	11,820.0	15,888.7	11,650.0	44.9	48.2	-69.49	-4,107.1	768.7	485.2	385.9	99.30	4.886	
16,100.0	11,820.0	15,988.7	11,650.0	45.8	49.0	-69.48	-4,207.1	767.3	484.9	384.0	100.94	4.804	
16,200.0	11,820.0	16,088.7	11,650.0	46.7	49.8	-69.47	-4,307.0	765.9	484.7	382.1	102.59	4.725	
16,300.0	11,820.0	16,188.7	11,650.0	47.5	50.6	-69.46	-4,407.0	764.5	484.5	380.2	104.24	4.647	
16,400.0	11,820.0	16,288.6	11,650.0	48.4	51.4	-69.45	-4,507.0	763.1	484.2	378.3	105.90	4.572	
16,500.0	11,820.0	16,388.6	11,650.0	49.3	52.2	-69.44	-4,607.0	761.7	484.0	376.4	107.57	4.499	
16,600.0	11,820.0	16,488.6	11,650.0	50.1	53.1	-69.43	-4,707.0	760.3	483.7	374.5	109.24	4.428	
16,700.0	11,820.0	16,588.6	11,650.0	51.0	53.9	-69.41	-4,807.0	758.9	483.5	372.6	110.91	4.359	
16,800.0	11,820.0	16,688.6	11,650.0	51.9	54.7	-69.40	-4,907.0	757.5	483.3	370.7	112.60	4.292	
16,900.0	11,820.0	16,788.6	11,650.0	52.8	55.6	-69.39	-5,007.0	756.1	483.0	368.7	114.28	4.226	
17,000.0	11,820.0	16,888.6	11,650.0	53.7	56.4	-69.38	-5,107.0	754.7	482.8	366.8	115.98	4.163	
17,100.0	11,820.0	16,988.6	11,650.0	54.6	57.2	-69.37	-5,207.0	753.3	482.5	364.9	117.67	4.101	
17,200.0	11,820.0	17,088.6	11,650.0	55.4	58.1	-69.36	-5,306.9	751.9	482.3	362.9	119.38	4.040	
17,300.0	11,820.0	17,188.6	11,650.0	56.3	58.9	-69.35	-5,406.9	750.6	482.1	361.0	121.08	3.981	
17,400.0	11,820.0	17,288.6	11,650.0	57.2	59.8	-69.34	-5,506.9	749.2	481.8	359.0	122.79	3.924	
17,500.0	11,820.0	17,388.6	11,650.0	58.1	60.7	-69.33	-5,606.9	747.8	481.6	357.1	124.51	3.868	
17,600.0	11,820.0	17,488.6	11,650.0	59.0	61.5	-69.32	-5,706.9	746.4	481.3	355.1	126.23	3.813	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 708H - OWB - PWP0

Offset Site Error: 0.0 usft

Survey Program: 0-r.5 MWD+IFR1

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,700.0	11,820.0	17,588.6	11,650.0	59.9	62.4	-69.31	-5,806.9	745.0	481.1	353.1	127.95	3.760	
17,800.0	11,820.0	17,688.6	11,650.0	60.8	63.3	-69.30	-5,906.9	743.6	480.9	351.2	129.67	3.708	
17,900.0	11,820.0	17,788.6	11,650.0	61.7	64.1	-69.29	-6,006.9	742.2	480.6	349.2	131.40	3.658	
18,000.0	11,820.0	17,888.6	11,650.0	62.7	65.0	-69.27	-6,106.9	740.8	480.4	347.2	133.13	3.608	
18,100.0	11,820.0	17,988.6	11,650.0	63.6	65.9	-69.26	-6,206.9	739.4	480.1	345.3	134.87	3.560	
18,200.0	11,820.0	18,088.6	11,650.0	64.5	66.8	-69.25	-6,306.8	738.0	479.9	343.3	136.61	3.513	
18,300.0	11,820.0	18,188.6	11,650.0	65.4	67.6	-69.24	-6,406.8	736.6	479.7	341.3	138.35	3.467	
18,400.0	11,820.0	18,288.6	11,650.0	66.3	68.5	-69.23	-6,506.8	735.2	479.4	339.3	140.09	3.422	
18,500.0	11,820.0	18,388.6	11,650.0	67.2	69.4	-69.22	-6,606.8	733.8	479.2	337.3	141.84	3.378	
18,600.0	11,820.0	18,488.6	11,650.0	68.1	70.3	-69.21	-6,706.8	732.4	478.9	335.3	143.59	3.336	
18,700.0	11,820.0	18,588.6	11,650.0	69.0	71.2	-69.20	-6,806.8	731.0	478.7	333.4	145.34	3.294	
18,800.0	11,820.0	18,688.6	11,650.0	70.0	72.1	-69.19	-6,906.8	729.6	478.5	331.4	147.09	3.253	
18,900.0	11,820.0	18,788.6	11,650.0	70.9	72.9	-69.18	-7,006.8	728.2	478.2	329.4	148.85	3.213	
19,000.0	11,820.0	18,888.6	11,650.0	71.8	73.8	-69.17	-7,106.8	726.8	478.0	327.4	150.60	3.174	
19,100.0	11,820.0	18,988.6	11,650.0	72.7	74.7	-69.15	-7,206.8	725.4	477.7	325.4	152.37	3.135	
19,200.0	11,820.0	19,088.6	11,650.0	73.6	75.6	-69.14	-7,306.7	724.0	477.5	323.4	154.13	3.098	
19,300.0	11,820.0	19,188.6	11,650.0	74.6	76.5	-69.13	-7,406.7	722.6	477.3	321.4	155.89	3.061	
19,308.6	11,820.0	19,196.1	11,650.0	74.6	76.6	-69.13	-7,414.2	722.5	477.2	321.2	156.05	3.058	
19,315.5	11,820.0	19,196.1	11,650.0	74.7	76.6	-69.13	-7,414.2	722.5	477.3	321.0	156.25	3.055	
19,316.0	11,820.0	19,196.1	11,650.0	74.7	76.6	-69.13	-7,414.2	722.5	477.3	321.1	156.24	3.055	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	89.20	0.8	60.0	60.0	53.6	6.43	9.333	
100.0	100.0	100.0	100.0	3.2	3.2	89.20	0.8	60.0	60.0	53.1	6.89	8.705	
200.0	200.0	200.0	200.0	3.5	3.5	89.20	0.8	60.0	60.0	52.7	7.33	8.188	
300.0	300.0	300.0	300.0	3.7	3.7	89.20	0.8	60.0	60.0	52.3	7.74	7.751	
400.0	400.0	400.0	400.0	3.9	3.9	89.20	0.8	60.0	60.0	51.9	8.14	7.375	
500.0	500.0	500.0	500.0	4.1	4.1	89.20	0.8	60.0	60.0	51.5	8.51	7.048	
600.0	600.0	600.0	600.0	4.2	4.2	89.20	0.8	60.0	60.0	51.1	8.88	6.759	
700.0	700.0	700.0	700.0	4.4	4.4	89.20	0.8	60.0	60.0	50.8	9.23	6.501	
800.0	800.0	800.0	800.0	4.6	4.6	89.20	0.8	60.0	60.0	50.4	9.57	6.269	
900.0	900.0	900.0	900.0	4.8	4.8	89.20	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	89.20	0.8	60.0	60.0	49.8	10.22	5.868	CC, ES
1,100.0	1,100.0	1,098.0	1,097.9	5.1	5.2	88.85	1.2	61.6	61.7	51.0	10.62	5.807	SF
1,200.0	1,200.0	1,195.7	1,195.5	5.2	5.4	87.89	2.5	66.5	66.7	55.7	11.00	6.059	
1,300.0	1,300.0	1,293.1	1,292.6	5.5	5.7	32.20	4.5	74.5	73.6	62.1	11.45	6.424	
1,400.0	1,399.8	1,390.3	1,389.1	5.7	6.0	32.45	7.3	85.8	80.8	68.9	11.90	6.791	
1,500.0	1,499.5	1,487.2	1,484.8	6.0	6.3	33.39	10.8	100.1	88.5	76.1	12.37	7.154	
1,600.0	1,598.7	1,583.8	1,579.8	6.3	6.6	34.84	15.2	117.5	96.6	83.7	12.84	7.519	
1,700.0	1,697.7	1,680.2	1,673.8	6.5	6.9	36.22	20.3	138.0	106.5	93.3	13.22	8.056	
1,800.0	1,796.8	1,779.5	1,770.4	6.7	7.1	37.19	25.9	160.5	118.0	104.3	13.70	8.612	
1,900.0	1,895.8	1,878.8	1,866.9	7.0	7.4	37.98	31.5	183.0	129.5	115.2	14.21	9.107	
2,000.0	1,994.8	1,978.1	1,963.5	7.3	7.8	38.65	37.1	205.5	141.0	126.2	14.76	9.553	
2,100.0	2,093.8	2,077.4	2,060.1	7.6	8.1	39.22	42.7	228.0	152.5	137.2	15.32	9.954	
2,200.0	2,192.9	2,176.8	2,156.7	7.9	8.5	39.70	48.3	250.5	164.0	148.1	15.90	10.314	
2,300.0	2,291.9	2,276.1	2,253.3	8.2	8.9	40.12	53.9	273.0	175.6	159.1	16.50	10.638	
2,400.0	2,390.9	2,375.4	2,349.8	8.5	9.2	40.50	59.5	295.4	187.1	170.0	17.12	10.931	
2,500.0	2,489.9	2,474.7	2,446.4	8.8	9.6	40.82	65.1	317.9	198.7	180.9	17.75	11.194	
2,600.0	2,589.0	2,574.1	2,543.0	9.2	10.0	41.11	70.8	340.4	210.2	191.8	18.39	11.433	
2,700.0	2,688.0	2,673.4	2,639.6	9.5	10.4	41.37	76.4	362.9	221.8	202.8	19.04	11.649	
2,800.0	2,787.0	2,772.7	2,736.2	9.9	10.8	41.61	82.0	385.4	233.4	213.7	19.70	11.845	
2,900.0	2,886.1	2,872.0	2,832.7	10.3	11.3	41.82	87.6	407.9	244.9	224.6	20.37	12.023	
3,000.0	2,985.1	2,971.4	2,929.3	10.6	11.7	42.02	93.2	430.4	256.5	235.5	21.05	12.186	
3,100.0	3,084.1	3,070.7	3,025.9	11.0	12.1	42.19	98.8	452.9	268.1	246.4	21.74	12.335	
3,200.0	3,183.1	3,170.0	3,122.5	11.4	12.5	42.36	104.4	475.4	279.7	257.3	22.43	12.471	
3,300.0	3,282.2	3,269.3	3,219.1	11.8	13.0	42.50	110.0	497.9	291.3	268.2	23.12	12.597	
3,400.0	3,381.2	3,368.7	3,315.6	12.1	13.4	42.64	115.6	520.4	302.9	279.0	23.83	12.712	
3,500.0	3,480.2	3,468.0	3,412.2	12.5	13.9	42.77	121.2	542.9	314.5	289.9	24.53	12.818	
3,600.0	3,579.2	3,567.3	3,508.8	12.9	14.3	42.89	126.9	565.4	326.0	300.8	25.24	12.916	
3,700.0	3,678.3	3,666.6	3,605.4	13.3	14.7	43.00	132.5	587.9	337.6	311.7	25.96	13.007	
3,800.0	3,777.3	3,766.0	3,702.0	13.7	15.2	43.10	138.1	610.4	349.2	322.6	26.68	13.091	
3,900.0	3,876.3	3,865.3	3,798.5	14.1	15.6	43.20	143.7	632.9	360.8	333.4	27.40	13.169	
4,000.0	3,975.3	3,964.6	3,895.1	14.5	16.1	43.29	149.3	655.4	372.4	344.3	28.12	13.242	
4,100.0	4,074.4	4,063.9	3,991.7	14.9	16.6	43.38	154.9	677.9	384.0	355.2	28.85	13.310	
4,191.5	4,165.0	4,154.8	4,080.1	15.3	17.0	43.45	160.0	698.5	394.6	365.1	29.51	13.371	
4,200.0	4,173.4	4,163.2	4,088.3	15.3	17.0	43.46	160.5	700.4	395.6	366.0	29.57	13.377	
4,300.0	4,272.6	4,262.5	4,184.8	15.7	17.5	43.52	166.1	722.9	407.9	377.6	30.36	13.439	
4,400.0	4,371.9	4,361.5	4,281.1	16.1	17.9	43.43	171.7	745.3	421.5	390.4	31.12	13.545	
4,500.0	4,471.5	4,460.4	4,377.2	16.5	18.4	43.20	177.3	767.7	436.4	404.5	31.91	13.678	
4,600.0	4,571.2	4,559.0	4,473.1	16.9	18.8	42.85	182.9	790.1	452.5	419.8	32.71	13.836	
4,700.0	4,671.0	4,657.4	4,568.8	17.2	19.3	42.39	188.4	812.3	470.0	436.4	33.52	14.020	
4,800.0	4,770.9	4,755.5	4,664.1	17.5	19.8	41.84	194.0	834.6	488.7	454.4	34.34	14.230	
4,900.0	4,870.9	4,853.2	4,759.2	17.8	20.2	41.22	199.5	856.7	508.8	473.6	35.16	14.470	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,991.5	4,962.4	4,942.3	4,845.8	18.0	20.6	95.60	204.5	876.9	528.4	492.6	35.85	14.738	
5,000.0	4,970.9	4,950.6	4,853.9	18.0	20.7	95.53	205.0	878.8	530.3	494.4	35.91	14.766	
5,100.0	5,070.9	5,047.8	4,948.4	18.0	21.1	94.73	210.5	900.8	552.4	515.8	36.64	15.076	
5,200.0	5,170.9	5,145.1	5,043.0	18.1	21.6	93.98	216.0	922.8	574.6	537.3	37.33	15.392	
5,300.0	5,270.9	5,242.3	5,137.5	18.2	22.0	93.29	221.4	944.8	596.9	558.9	38.02	15.702	
5,400.0	5,370.9	5,339.5	5,232.1	18.2	22.5	92.65	226.9	966.9	619.3	580.6	38.69	16.005	
5,500.0	5,470.9	5,436.8	5,326.6	18.3	23.0	92.05	232.4	988.9	641.8	602.4	39.37	16.302	
5,600.0	5,570.9	5,534.0	5,421.2	18.3	23.4	91.50	237.9	1,010.9	664.3	624.2	40.03	16.593	
5,700.0	5,670.9	5,631.3	5,515.7	18.4	23.9	90.98	243.4	1,032.9	686.8	646.1	40.70	16.877	
5,800.0	5,770.9	5,728.5	5,610.3	18.4	24.3	90.49	248.9	1,055.0	709.4	668.1	41.36	17.154	
5,900.0	5,870.9	5,825.7	5,704.8	18.5	24.8	90.04	254.4	1,077.0	732.1	690.1	42.02	17.424	
6,000.0	5,970.9	5,923.0	5,799.4	18.5	25.3	89.61	259.9	1,099.0	754.8	712.1	42.67	17.688	
6,100.0	6,070.9	6,020.2	5,893.9	18.6	25.7	89.20	265.4	1,121.0	777.6	734.2	43.33	17.947	
6,200.0	6,170.9	6,123.7	5,994.6	18.6	26.2	88.80	271.2	1,144.3	800.2	756.2	44.01	18.180	
6,300.0	6,270.9	6,237.0	6,105.2	18.7	26.8	88.41	277.1	1,168.0	821.3	776.5	44.76	18.349	
6,400.0	6,370.9	6,351.2	6,217.2	18.8	27.3	88.08	282.5	1,189.8	840.5	795.0	45.48	18.483	
6,500.0	6,470.9	6,466.4	6,330.5	18.8	27.8	87.79	287.5	1,209.6	857.8	811.7	46.16	18.584	
6,600.0	6,570.9	6,582.3	6,445.0	18.9	28.3	87.54	291.9	1,227.3	873.2	826.4	46.81	18.654	
6,700.0	6,670.9	6,698.9	6,560.5	18.9	28.8	87.34	295.7	1,242.8	886.7	839.2	47.43	18.695	
6,800.0	6,770.9	6,816.1	6,677.0	19.0	29.3	87.16	299.0	1,256.0	898.1	850.1	48.00	18.709	
6,900.0	6,870.9	6,933.9	6,794.2	19.0	29.8	87.02	301.8	1,267.1	907.6	859.0	48.53	18.699	
7,000.0	6,970.9	7,052.1	6,912.0	19.1	30.2	86.92	304.0	1,275.7	915.0	866.0	49.02	18.667	
7,100.0	7,070.9	7,170.5	7,030.3	19.2	30.6	86.84	305.5	1,282.1	920.4	871.0	49.45	18.615	
7,200.0	7,170.9	7,289.3	7,148.9	19.2	31.0	86.79	306.5	1,286.1	923.8	874.0	49.80	18.549	
7,300.0	7,270.9	7,408.1	7,267.7	19.3	31.3	86.77	306.9	1,287.7	925.2	875.1	50.04	18.488	
7,400.0	7,370.9	7,511.2	7,370.9	19.3	31.3	86.77	306.9	1,287.7	925.2	875.1	50.10	18.466	
7,500.0	7,470.9	7,611.2	7,470.9	19.4	31.3	86.77	306.9	1,287.7	925.2	875.0	50.18	18.437	
7,600.0	7,570.9	7,711.2	7,570.9	19.4	31.4	86.77	306.9	1,287.7	925.2	875.0	50.26	18.408	
7,700.0	7,670.9	7,811.2	7,670.9	19.5	31.4	86.77	306.9	1,287.7	925.2	874.9	50.34	18.379	
7,800.0	7,770.9	7,911.2	7,770.9	19.6	31.4	86.77	306.9	1,287.7	925.2	874.8	50.42	18.350	
7,900.0	7,870.9	8,011.2	7,870.9	19.6	31.4	86.77	306.9	1,287.7	925.2	874.7	50.50	18.321	
8,000.0	7,970.9	8,111.2	7,970.9	19.7	31.5	86.77	306.9	1,287.7	925.2	874.6	50.58	18.292	
8,100.0	8,070.9	8,211.2	8,070.9	19.7	31.5	86.77	306.9	1,287.7	925.2	874.6	50.66	18.263	
8,200.0	8,170.9	8,311.2	8,170.9	19.8	31.5	86.77	306.9	1,287.7	925.2	874.5	50.74	18.234	
8,300.0	8,270.9	8,411.2	8,270.9	19.8	31.6	86.77	306.9	1,287.7	925.2	874.4	50.82	18.204	
8,400.0	8,370.9	8,511.2	8,370.9	19.9	31.6	86.77	306.9	1,287.7	925.2	874.3	50.91	18.175	
8,500.0	8,470.9	8,611.2	8,470.9	20.0	31.6	86.77	306.9	1,287.7	925.2	874.2	50.99	18.146	
8,600.0	8,570.9	8,711.2	8,570.9	20.0	31.7	86.77	306.9	1,287.7	925.2	874.1	51.07	18.116	
8,700.0	8,670.9	8,811.2	8,670.9	20.1	31.7	86.77	306.9	1,287.7	925.2	874.1	51.15	18.087	
8,800.0	8,770.9	8,911.2	8,770.9	20.1	31.7	86.77	306.9	1,287.7	925.2	874.0	51.24	18.058	
8,900.0	8,870.9	9,011.2	8,870.9	20.2	31.8	86.77	306.9	1,287.7	925.2	873.9	51.32	18.028	
9,000.0	8,970.9	9,111.2	8,970.9	20.3	31.8	86.77	306.9	1,287.7	925.2	873.8	51.40	17.999	
9,100.0	9,070.9	9,211.2	9,070.9	20.3	31.8	86.77	306.9	1,287.7	925.2	873.7	51.49	17.969	
9,200.0	9,170.9	9,311.2	9,170.9	20.4	31.8	86.77	306.9	1,287.7	925.2	873.6	51.57	17.939	
9,300.0	9,270.9	9,411.2	9,270.9	20.4	31.9	86.77	306.9	1,287.7	925.2	873.6	51.66	17.910	
9,400.0	9,370.9	9,511.2	9,370.9	20.5	31.9	86.77	306.9	1,287.7	925.2	873.5	51.74	17.880	
9,500.0	9,470.9	9,611.2	9,470.9	20.6	31.9	86.77	306.9	1,287.7	925.2	873.4	51.83	17.851	
9,600.0	9,570.9	9,711.2	9,570.9	20.6	32.0	86.77	306.9	1,287.7	925.2	873.3	51.92	17.821	
9,700.0	9,670.9	9,811.2	9,670.9	20.7	32.0	86.77	306.9	1,287.7	925.2	873.2	52.00	17.791	
9,800.0	9,770.9	9,911.2	9,770.9	20.8	32.0	86.77	306.9	1,287.7	925.2	873.1	52.09	17.762	
9,900.0	9,870.9	10,011.2	9,870.9	20.8	32.1	86.77	306.9	1,287.7	925.2	873.0	52.18	17.732	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,000.0	9,970.9	10,111.2	9,970.9	20.9	32.1	86.77	306.9	1,287.7	925.2	872.9	52.27	17.702	
10,100.0	10,070.9	10,211.2	10,070.9	20.9	32.1	86.77	306.9	1,287.7	925.2	872.9	52.35	17.672	
10,200.0	10,170.9	10,311.2	10,170.9	21.0	32.2	86.77	306.9	1,287.7	925.2	872.8	52.44	17.642	
10,300.0	10,270.9	10,411.2	10,270.9	21.1	32.2	86.77	306.9	1,287.7	925.2	872.7	52.53	17.613	
10,400.0	10,370.9	10,511.2	10,370.9	21.1	32.2	86.77	306.9	1,287.7	925.2	872.6	52.62	17.583	
10,500.0	10,470.9	10,611.2	10,470.9	21.2	32.3	86.77	306.9	1,287.7	925.2	872.5	52.71	17.553	
10,600.0	10,570.9	10,711.2	10,570.9	21.3	32.3	86.77	306.9	1,287.7	925.2	872.4	52.80	17.523	
10,700.0	10,670.9	10,811.2	10,670.9	21.3	32.4	86.77	306.9	1,287.7	925.2	872.3	52.89	17.493	
10,800.0	10,770.9	10,911.2	10,770.9	21.4	32.4	86.77	306.9	1,287.7	925.2	872.2	52.98	17.463	
10,900.0	10,870.9	11,011.2	10,870.9	21.4	32.4	86.77	306.9	1,287.7	925.2	872.1	53.07	17.434	
11,000.0	10,970.9	11,111.2	10,970.9	21.5	32.5	86.77	306.9	1,287.7	925.2	872.1	53.16	17.404	
11,100.0	11,070.9	11,211.2	11,070.9	21.6	32.5	86.77	306.9	1,287.7	925.2	872.0	53.25	17.374	
11,200.0	11,170.9	11,311.2	11,170.9	21.6	32.5	86.77	306.9	1,287.7	925.2	871.9	53.35	17.344	
11,300.0	11,270.9	11,411.2	11,270.9	21.7	32.6	86.77	306.9	1,287.7	925.2	871.8	53.44	17.314	
11,371.6	11,342.5	11,482.8	11,342.5	21.7	32.6	86.77	306.9	1,287.7	925.2	871.7	53.49	17.297	
11,375.0	11,345.9	11,486.5	11,346.2	21.7	32.6	-93.88	306.9	1,287.7	925.2	871.7	53.49	17.297	
11,400.0	11,370.9	11,513.8	11,373.4	21.7	32.6	-93.87	305.9	1,287.7	925.2	871.8	53.47	17.305	
11,425.0	11,395.8	11,541.0	11,400.5	21.7	32.5	-93.85	303.4	1,287.8	925.3	871.8	53.43	17.317	
11,450.0	11,420.5	11,568.2	11,427.4	21.6	32.5	-93.82	299.3	1,287.8	925.4	872.0	53.39	17.331	
11,475.0	11,445.1	11,595.4	11,454.0	21.6	32.5	-93.78	293.7	1,287.9	925.5	872.1	53.35	17.347	
11,500.0	11,469.3	11,622.5	11,480.2	21.5	32.5	-93.73	286.7	1,288.0	925.6	872.3	53.30	17.364	
11,525.0	11,493.3	11,649.6	11,505.9	21.5	32.4	-93.67	278.1	1,288.1	925.7	872.5	53.26	17.383	
11,550.0	11,516.8	11,676.7	11,531.1	21.4	32.4	-93.59	268.1	1,288.2	925.9	872.7	53.21	17.402	
11,575.0	11,539.8	11,703.7	11,555.6	21.3	32.4	-93.51	256.8	1,288.4	926.1	873.0	53.16	17.422	
11,600.0	11,562.3	11,730.7	11,579.3	21.3	32.3	-93.42	244.1	1,288.6	926.4	873.3	53.11	17.443	
11,625.0	11,584.2	11,757.5	11,602.3	21.2	32.3	-93.31	230.1	1,288.8	926.6	873.6	53.06	17.464	
11,650.0	11,605.4	11,784.4	11,624.4	21.2	32.3	-93.20	214.9	1,289.0	926.9	873.9	53.02	17.484	
11,675.0	11,625.9	11,811.1	11,645.5	21.1	32.3	-93.08	198.5	1,289.2	927.3	874.3	52.97	17.505	
11,700.0	11,645.6	11,837.7	11,665.6	21.1	32.2	-92.95	181.0	1,289.5	927.6	874.7	52.93	17.525	
11,725.0	11,664.5	11,864.3	11,684.7	21.0	32.2	-92.81	162.5	1,289.7	928.0	875.1	52.89	17.544	
11,750.0	11,682.5	11,890.8	11,702.6	21.0	32.2	-92.66	143.0	1,290.0	928.4	875.5	52.86	17.563	
11,775.0	11,699.6	11,917.1	11,719.3	21.0	32.2	-92.51	122.7	1,290.3	928.8	876.0	52.83	17.579	
11,800.0	11,715.7	11,943.4	11,734.9	20.9	32.2	-92.35	101.5	1,290.6	929.2	876.4	52.81	17.595	
11,825.0	11,730.8	11,969.6	11,749.2	20.9	32.2	-92.18	79.6	1,290.9	929.7	876.9	52.80	17.609	
11,850.0	11,744.8	11,995.6	11,762.2	20.9	32.2	-92.00	57.1	1,291.2	930.2	877.4	52.79	17.620	
11,875.0	11,757.7	12,021.6	11,774.0	20.9	32.2	-91.83	33.9	1,291.5	930.7	877.9	52.79	17.630	
11,900.0	11,769.4	12,047.5	11,784.4	20.8	32.2	-91.64	10.3	1,291.8	931.2	878.4	52.80	17.638	
11,925.0	11,780.1	12,073.2	11,793.5	20.8	32.2	-91.46	-13.8	1,292.2	931.8	878.9	52.81	17.643	
11,950.0	11,789.5	12,098.8	11,801.3	20.8	32.2	-91.27	-38.2	1,292.5	932.3	879.5	52.84	17.646	
11,975.0	11,797.6	12,124.3	11,807.7	20.8	32.2	-91.07	-62.9	1,292.9	932.9	880.0	52.87	17.646	
12,000.0	11,804.6	12,149.7	11,812.8	20.8	32.2	-90.88	-87.8	1,293.2	933.5	880.6	52.91	17.644	
12,025.0	11,810.2	12,175.0	11,816.5	20.8	32.2	-90.68	-112.8	1,293.6	934.1	881.1	52.96	17.639	
12,050.0	11,814.6	12,200.2	11,818.9	20.8	32.2	-90.48	-137.9	1,293.9	934.7	881.7	53.01	17.632	
12,075.0	11,817.7	12,225.3	11,819.9	20.9	32.3	-90.28	-163.0	1,294.3	935.3	882.2	53.08	17.622	
12,100.0	11,819.5	12,258.7	11,820.0	20.9	32.3	-90.07	-196.4	1,294.6	935.9	882.8	53.10	17.626	
12,121.6	11,820.0	12,290.8	11,820.0	20.9	32.3	-90.00	-228.5	1,294.6	936.1	883.0	53.08	17.635	
12,200.0	11,820.0	12,379.8	11,820.0	21.0	32.5	-90.00	-317.4	1,293.2	935.7	882.5	53.22	17.584	
12,300.0	11,820.0	12,479.8	11,820.0	21.2	32.6	-90.00	-417.4	1,291.5	935.1	881.6	53.54	17.465	
12,400.0	11,820.0	12,579.8	11,820.0	21.4	32.8	-90.00	-517.4	1,289.7	934.5	880.6	53.93	17.326	
12,500.0	11,820.0	12,679.8	11,820.0	21.7	33.0	-90.00	-617.4	1,287.9	933.9	879.5	54.39	17.170	
12,600.0	11,820.0	12,779.8	11,820.0	22.0	33.3	-90.00	-717.3	1,286.2	933.3	878.4	54.91	16.997	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,700.0	11,820.0	12,879.8	11,820.0	22.3	33.6	-90.00	-817.3	1,284.4	932.6	877.2	55.48	16.809	
12,800.0	11,820.0	12,979.8	11,820.0	22.6	33.8	-90.00	-917.3	1,282.7	932.0	875.9	56.12	16.608	
12,900.0	11,820.0	13,079.8	11,820.0	23.0	34.2	-90.00	-1,017.3	1,280.9	931.4	874.6	56.81	16.395	
13,000.0	11,820.0	13,179.8	11,820.0	23.4	34.5	-90.00	-1,117.3	1,279.2	930.8	873.2	57.55	16.172	
13,100.0	11,820.0	13,279.8	11,820.0	23.9	34.9	-90.00	-1,217.3	1,277.4	930.2	871.8	58.35	15.941	
13,200.0	11,820.0	13,379.8	11,820.0	24.4	35.2	-90.00	-1,317.2	1,275.6	929.6	870.4	59.20	15.702	
13,300.0	11,820.0	13,479.8	11,820.0	24.9	35.6	-90.00	-1,417.2	1,273.9	928.9	868.8	60.09	15.459	
13,400.0	11,820.0	13,579.8	11,820.0	25.4	36.1	-90.00	-1,517.2	1,272.1	928.3	867.3	61.03	15.210	
13,500.0	11,820.0	13,679.8	11,820.0	26.0	36.5	-90.00	-1,617.2	1,270.4	927.7	865.7	62.01	14.959	
13,600.0	11,820.0	13,779.8	11,820.0	26.6	36.9	-90.00	-1,717.2	1,268.6	927.1	864.0	63.04	14.706	
13,700.0	11,820.0	13,879.8	11,820.0	27.2	37.4	-90.00	-1,817.2	1,266.9	926.5	862.4	64.10	14.453	
13,800.0	11,820.0	13,979.7	11,820.0	27.8	37.9	-90.00	-1,917.1	1,265.1	925.8	860.6	65.21	14.199	
13,900.0	11,820.0	14,079.7	11,820.0	28.5	38.4	-90.00	-2,017.1	1,263.3	925.2	858.9	66.34	13.946	
14,000.0	11,820.0	14,179.7	11,820.0	29.2	39.0	-90.00	-2,117.1	1,261.6	924.6	857.1	67.51	13.695	
14,100.0	11,820.0	14,279.7	11,820.0	29.9	39.5	-90.00	-2,217.1	1,259.8	924.0	855.3	68.72	13.446	
14,200.0	11,820.0	14,379.7	11,820.0	30.6	40.0	-90.00	-2,317.1	1,258.1	923.4	853.4	69.95	13.201	
14,300.0	11,820.0	14,479.7	11,820.0	31.3	40.6	-90.00	-2,417.0	1,256.3	922.8	851.5	71.21	12.958	
14,400.0	11,820.0	14,579.7	11,820.0	32.0	41.2	-90.00	-2,517.0	1,254.5	922.1	849.6	72.50	12.719	
14,500.0	11,820.0	14,679.7	11,820.0	32.8	41.8	-90.00	-2,617.0	1,252.8	921.5	847.7	73.82	12.484	
14,600.0	11,820.0	14,779.7	11,820.0	33.5	42.4	-90.00	-2,717.0	1,251.0	920.9	845.7	75.16	12.253	
14,700.0	11,820.0	14,879.7	11,820.0	34.3	43.0	-90.00	-2,817.0	1,249.3	920.3	843.8	76.52	12.027	
14,800.0	11,820.0	14,979.7	11,820.0	35.1	43.7	-90.00	-2,917.0	1,247.5	919.7	841.8	77.90	11.805	
14,900.0	11,820.0	15,079.7	11,820.0	35.8	44.3	-90.00	-3,016.9	1,245.8	919.0	839.7	79.31	11.588	
15,000.0	11,820.0	15,179.7	11,820.0	36.6	45.0	-90.00	-3,116.9	1,244.0	918.4	837.7	80.73	11.376	
15,100.0	11,820.0	15,279.7	11,820.0	37.4	45.6	-90.00	-3,216.9	1,242.2	917.8	835.6	82.18	11.168	
15,200.0	11,820.0	15,379.7	11,820.0	38.2	46.3	-90.00	-3,316.9	1,240.5	917.2	833.6	83.64	10.966	
15,300.0	11,820.0	15,479.7	11,820.0	39.1	47.0	-90.00	-3,416.9	1,238.7	916.6	831.5	85.12	10.768	
15,400.0	11,820.0	15,579.7	11,820.0	39.9	47.7	-90.00	-3,516.9	1,237.0	916.0	829.3	86.61	10.575	
15,500.0	11,820.0	15,679.7	11,820.0	40.7	48.4	-90.00	-3,616.8	1,235.2	915.3	827.2	88.12	10.387	
15,600.0	11,820.0	15,779.7	11,820.0	41.5	49.1	-90.00	-3,716.8	1,233.5	914.7	825.1	89.65	10.204	
15,700.0	11,820.0	15,879.7	11,820.0	42.4	49.8	-90.00	-3,816.8	1,231.7	914.1	822.9	91.18	10.025	
15,800.0	11,820.0	15,979.7	11,820.0	43.2	50.6	-90.00	-3,916.8	1,229.9	913.5	820.7	92.73	9.851	
15,900.0	11,820.0	16,079.7	11,820.0	44.1	51.3	-90.00	-4,016.8	1,228.2	912.9	818.6	94.30	9.681	
16,000.0	11,820.0	16,179.7	11,820.0	44.9	52.0	-90.00	-4,116.8	1,226.4	912.2	816.4	95.87	9.515	
16,100.0	11,820.0	16,279.7	11,820.0	45.8	52.8	-90.00	-4,216.7	1,224.7	911.6	814.2	97.46	9.354	
16,200.0	11,820.0	16,379.7	11,820.0	46.7	53.5	-90.00	-4,316.7	1,222.9	911.0	812.0	99.05	9.197	
16,300.0	11,820.0	16,479.7	11,820.0	47.5	54.3	-90.00	-4,416.7	1,221.2	910.4	809.7	100.66	9.044	
16,400.0	11,820.0	16,579.7	11,820.0	48.4	55.1	-90.00	-4,516.7	1,219.4	909.8	807.5	102.27	8.895	
16,500.0	11,820.0	16,679.7	11,820.0	49.3	55.8	-90.00	-4,616.7	1,217.6	909.2	805.3	103.90	8.750	
16,600.0	11,820.0	16,779.7	11,820.0	50.1	56.6	-90.00	-4,716.6	1,215.9	908.5	803.0	105.53	8.609	
16,700.0	11,820.0	16,879.7	11,820.0	51.0	57.4	-90.00	-4,816.6	1,214.1	907.9	800.7	107.17	8.471	
16,800.0	11,820.0	16,979.7	11,820.0	51.9	58.2	-90.00	-4,916.6	1,212.4	907.3	798.5	108.82	8.337	
16,900.0	11,820.0	17,079.7	11,820.0	52.8	59.0	-90.00	-5,016.6	1,210.6	906.7	796.2	110.48	8.207	
17,000.0	11,820.0	17,179.7	11,820.0	53.7	59.8	-90.00	-5,116.6	1,208.9	906.1	793.9	112.15	8.079	
17,100.0	11,820.0	17,279.7	11,820.0	54.6	60.6	-90.00	-5,216.6	1,207.1	905.4	791.6	113.82	7.955	
17,200.0	11,820.0	17,379.7	11,820.0	55.4	61.4	-90.00	-5,316.5	1,205.3	904.8	789.3	115.50	7.834	
17,300.0	11,820.0	17,479.7	11,820.0	56.3	62.2	-90.00	-5,416.5	1,203.6	904.2	787.0	117.18	7.716	
17,400.0	11,820.0	17,579.7	11,820.0	57.2	63.0	-90.00	-5,516.5	1,201.8	903.6	784.7	118.87	7.601	
17,500.0	11,820.0	17,679.7	11,820.0	58.1	63.8	-90.00	-5,616.5	1,200.1	903.0	782.4	120.57	7.489	
17,600.0	11,820.0	17,779.7	11,820.0	59.0	64.7	-90.00	-5,716.5	1,198.3	902.4	780.1	122.27	7.380	
17,700.0	11,820.0	17,879.7	11,820.0	59.9	65.5	-90.00	-5,816.5	1,196.6	901.7	777.8	123.98	7.273	

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,800.0	11,820.0	17,979.7	11,820.0	60.8	66.3	-90.00	-5,916.4	1,194.8	901.1	775.4	125.69	7.169	
17,900.0	11,820.0	18,079.7	11,820.0	61.7	67.2	-90.00	-6,016.4	1,193.0	900.5	773.1	127.41	7.068	
18,000.0	11,820.0	18,179.7	11,820.0	62.7	68.0	-90.00	-6,116.4	1,191.3	899.9	770.8	129.13	6.969	
18,100.0	11,820.0	18,279.7	11,820.0	63.6	68.8	-90.00	-6,216.4	1,189.5	899.3	768.4	130.85	6.872	
18,200.0	11,820.0	18,379.7	11,820.0	64.5	69.7	-90.00	-6,316.4	1,187.8	898.6	766.1	132.59	6.778	
18,300.0	11,820.0	18,479.7	11,820.0	65.4	70.5	-90.00	-6,416.4	1,186.0	898.0	763.7	134.32	6.686	
18,400.0	11,820.0	18,579.7	11,820.0	66.3	71.4	-90.00	-6,516.3	1,184.3	897.4	761.4	136.06	6.596	
18,500.0	11,820.0	18,679.7	11,820.0	67.2	72.2	-90.00	-6,616.3	1,182.5	896.8	759.0	137.80	6.508	
18,600.0	11,820.0	18,779.7	11,820.0	68.1	73.1	-90.00	-6,716.3	1,180.7	896.2	756.6	139.55	6.422	
18,700.0	11,820.0	18,879.7	11,820.0	69.0	73.9	-90.00	-6,816.3	1,179.0	895.6	754.3	141.30	6.338	
18,800.0	11,820.0	18,979.7	11,820.0	70.0	74.8	-90.00	-6,916.3	1,177.2	894.9	751.9	143.05	6.256	
18,900.0	11,820.0	19,079.7	11,820.0	70.9	75.7	-90.00	-7,016.2	1,175.5	894.3	749.5	144.81	6.176	
19,000.0	11,820.0	19,179.7	11,820.0	71.8	76.5	-90.00	-7,116.2	1,173.7	893.7	747.1	146.57	6.097	
19,100.0	11,820.0	19,279.6	11,820.0	72.7	77.4	-90.00	-7,216.2	1,172.0	893.1	744.8	148.33	6.021	
19,200.0	11,820.0	19,379.6	11,820.0	73.6	78.2	-90.00	-7,316.2	1,170.2	892.5	742.4	150.10	5.946	
19,300.0	11,820.0	19,474.3	11,820.0	74.6	79.1	-90.00	-7,410.9	1,168.5	891.9	740.0	151.87	5.873	
19,300.7	11,820.0	19,474.3	11,820.0	74.6	79.1	-90.00	-7,410.9	1,168.5	891.9	740.0	151.88	5.872	
19,315.5	11,820.0	19,474.3	11,820.0	74.7	79.1	-90.00	-7,410.9	1,168.5	892.0	739.9	152.11	5.864	
19,316.0	11,820.0	19,474.3	11,820.0	74.7	79.1	-90.00	-7,410.9	1,168.5	892.0	739.9	152.12	5.864	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	30.8	3.0	3.0	103.62	-226.8	936.1	963.7	957.2	6.56	146.995	
100.0	100.0	69.2	100.0	3.2	3.3	103.62	-226.8	936.1	963.2	956.2	7.05	136.641	
181.0	181.0	150.2	181.0	3.4	4.5	103.61	-226.6	936.1	963.2	954.7	8.49	113.451	
200.0	200.0	168.4	199.3	3.5	4.9	103.61	-226.6	936.1	963.2	954.2	8.99	107.143	
280.8	280.8	250.0	280.7	3.6	7.0	103.58	-226.1	936.1	963.1	951.5	11.58	83.191	
300.0	300.0	267.2	298.0	3.7	7.4	103.59	-226.2	936.1	963.1	950.9	12.18	79.045	
400.0	400.0	368.6	399.3	3.9	10.3	103.61	-226.6	936.1	963.2	947.2	15.94	60.442	
480.6	480.6	450.0	480.6	4.0	12.6	103.58	-226.1	936.1	963.1	944.0	19.10	50.418	
500.0	500.0	467.3	497.9	4.1	13.1	103.59	-226.2	936.1	963.1	943.3	19.79	48.666	
600.0	600.0	568.7	599.3	4.2	16.1	103.61	-226.6	936.1	963.2	939.3	23.84	40.398	
680.5	680.5	650.0	680.5	4.4	18.5	103.58	-226.1	936.1	963.1	935.9	27.13	35.493	
700.0	700.0	667.5	697.9	4.4	19.0	103.59	-226.2	936.1	963.1	935.2	27.85	34.585	
800.0	800.0	768.8	799.3	4.6	22.0	103.61	-226.6	936.1	963.2	931.2	31.99	30.109	
880.4	880.4	850.0	880.4	4.7	24.4	103.58	-226.1	936.1	963.1	927.7	35.32	27.264	
900.0	900.0	867.6	897.9	4.8	24.9	103.59	-226.2	936.1	963.1	927.0	36.05	26.717	
1,000.0	1,000.0	968.9	999.2	4.9	27.9	103.61	-226.6	936.1	963.2	923.1	40.10	24.021	
1,080.2	1,080.2	1,050.0	1,080.2	5.1	30.4	103.58	-226.1	936.1	963.1	919.6	43.45	22.166	
1,100.0	1,100.0	1,067.7	1,097.9	5.1	30.9	103.59	-226.2	936.1	963.1	918.9	44.18	21.798	
1,200.0	1,200.0	1,169.1	1,199.2	5.2	33.9	103.61	-226.6	936.1	963.2	914.8	48.38	19.908	
1,300.0	1,300.0	1,267.8	1,297.9	5.5	36.9	48.68	-226.2	936.1	961.9	909.4	52.48	18.328	
1,400.0	1,399.8	1,369.0	1,399.1	5.7	39.9	48.99	-226.6	936.1	958.6	901.9	56.70	16.907	
1,500.0	1,499.5	1,467.4	1,497.3	6.0	42.8	49.44	-226.2	936.1	952.8	892.0	60.79	15.672	
1,600.0	1,598.7	1,568.0	1,597.9	6.3	45.8	50.15	-226.6	936.1	945.0	880.0	64.99	14.540	
1,700.0	1,697.7	1,665.8	1,695.7	6.5	48.8	50.76	-226.2	936.1	936.0	866.9	69.07	13.552	
1,800.0	1,796.8	1,766.2	1,796.0	6.7	51.8	51.46	-226.6	936.1	927.3	854.0	73.25	12.659	
1,900.0	1,895.8	1,864.1	1,893.8	7.0	54.7	52.10	-226.2	936.1	918.5	841.2	77.34	11.877	
2,000.0	1,994.8	1,964.5	1,994.1	7.3	57.7	52.82	-226.6	936.1	910.1	828.6	81.53	11.163	
2,100.0	2,093.8	2,062.4	2,092.0	7.6	60.6	53.49	-226.2	936.1	901.6	815.9	85.62	10.530	
2,200.0	2,192.9	2,162.7	2,192.2	7.9	63.6	54.23	-226.6	936.1	893.4	803.6	89.81	9.948	
2,300.0	2,291.9	2,260.8	2,290.2	8.2	66.6	54.93	-226.2	936.1	885.2	791.3	93.91	9.426	
2,400.0	2,390.9	2,361.0	2,390.3	8.5	69.6	55.70	-226.6	936.1	877.4	779.3	98.09	8.944	
2,500.0	2,489.9	2,459.1	2,488.4	8.8	72.5	56.42	-226.2	936.1	869.4	767.2	102.20	8.507	
2,600.0	2,589.0	2,559.2	2,588.4	9.2	75.5	57.22	-226.6	936.1	861.9	755.5	106.38	8.102	
2,700.0	2,688.0	2,657.5	2,686.7	9.5	78.4	57.96	-226.2	936.1	854.2	743.7	110.49	7.731	
2,800.0	2,787.0	2,757.5	2,786.6	9.9	81.4	58.79	-226.6	936.1	847.0	732.3	114.67	7.387	
2,900.0	2,886.1	2,855.9	2,885.0	10.3	84.4	59.56	-226.1	936.1	839.7	720.9	118.79	7.069	
3,000.0	2,985.1	2,955.7	2,984.7	10.6	87.4	60.42	-226.6	936.1	832.8	709.9	122.96	6.773	
3,100.0	3,084.1	3,054.4	3,083.3	11.0	90.3	61.22	-226.1	936.1	825.8	698.7	127.08	6.498	
3,200.0	3,183.1	3,154.0	3,182.9	11.4	93.3	62.10	-226.6	936.1	819.3	688.1	131.25	6.243	
3,300.0	3,282.2	3,252.8	3,281.6	11.8	96.3	62.93	-226.1	936.1	812.7	677.3	135.38	6.003	
3,400.0	3,381.2	3,352.3	3,381.0	12.1	99.2	63.83	-226.6	936.1	806.6	667.1	139.53	5.781	
3,500.0	3,480.2	3,451.3	3,479.9	12.5	102.2	64.69	-226.1	936.1	800.3	656.6	143.67	5.570	
3,600.0	3,579.2	3,550.6	3,579.2	12.9	105.2	65.62	-226.6	936.1	794.6	646.8	147.82	5.375	
3,700.0	3,678.3	3,649.7	3,678.3	13.3	108.1	66.55	-226.8	936.1	789.0	637.1	151.96	5.192	
3,800.0	3,777.3	3,748.8	3,777.3	13.7	111.1	67.47	-226.8	936.1	783.6	627.4	156.10	5.019	
3,900.0	3,876.3	3,847.9	3,876.3	14.1	114.1	68.41	-226.8	936.1	778.3	618.0	160.24	4.857	
4,000.0	3,975.3	3,947.0	3,975.3	14.5	117.0	69.36	-226.8	936.1	773.2	608.8	164.38	4.704	
4,100.0	4,074.4	4,046.1	4,074.4	14.9	120.0	70.33	-226.8	936.1	768.4	599.9	168.52	4.560	
4,191.5	4,165.0	4,136.8	4,165.0	15.3	122.7	71.22	-226.8	936.1	764.2	591.8	172.31	4.435	
4,200.0	4,173.4	4,145.2	4,173.4	15.3	123.0	71.30	-226.8	936.1	763.8	591.1	172.66	4.424	
4,300.0	4,272.6	4,228.0	4,256.1	15.7	125.5	72.03	-226.8	936.1	759.9	583.8	176.09	4.315	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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

Rule Assigned:

Offset Well Error: 3.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,311.4	4,283.9	4,228.0	4,256.1	15.8	125.5	72.03	-226.8	936.1	759.8	583.8	176.01	4.317	CC, ES
4,400.0	4,371.9	4,228.0	4,256.1	16.1	125.5	72.08	-226.8	936.1	765.1	591.0	174.15	4.394	
4,500.0	4,471.5	4,228.0	4,256.1	16.5	125.5	72.26	-226.8	936.1	783.8	614.3	169.50	4.624	
4,600.0	4,571.2	4,228.0	4,256.1	16.9	125.5	72.57	-226.8	936.1	814.8	652.1	162.72	5.008	
4,700.0	4,671.0	4,228.0	4,256.1	17.2	125.5	73.02	-226.8	936.1	857.0	702.4	154.57	5.544	
4,800.0	4,770.9	4,228.0	4,256.1	17.5	125.5	73.60	-226.8	936.1	908.6	762.9	145.79	6.233	
4,900.0	4,870.9	4,228.0	4,256.1	17.8	125.5	74.31	-226.8	936.1	968.3	831.4	136.93	7.071	

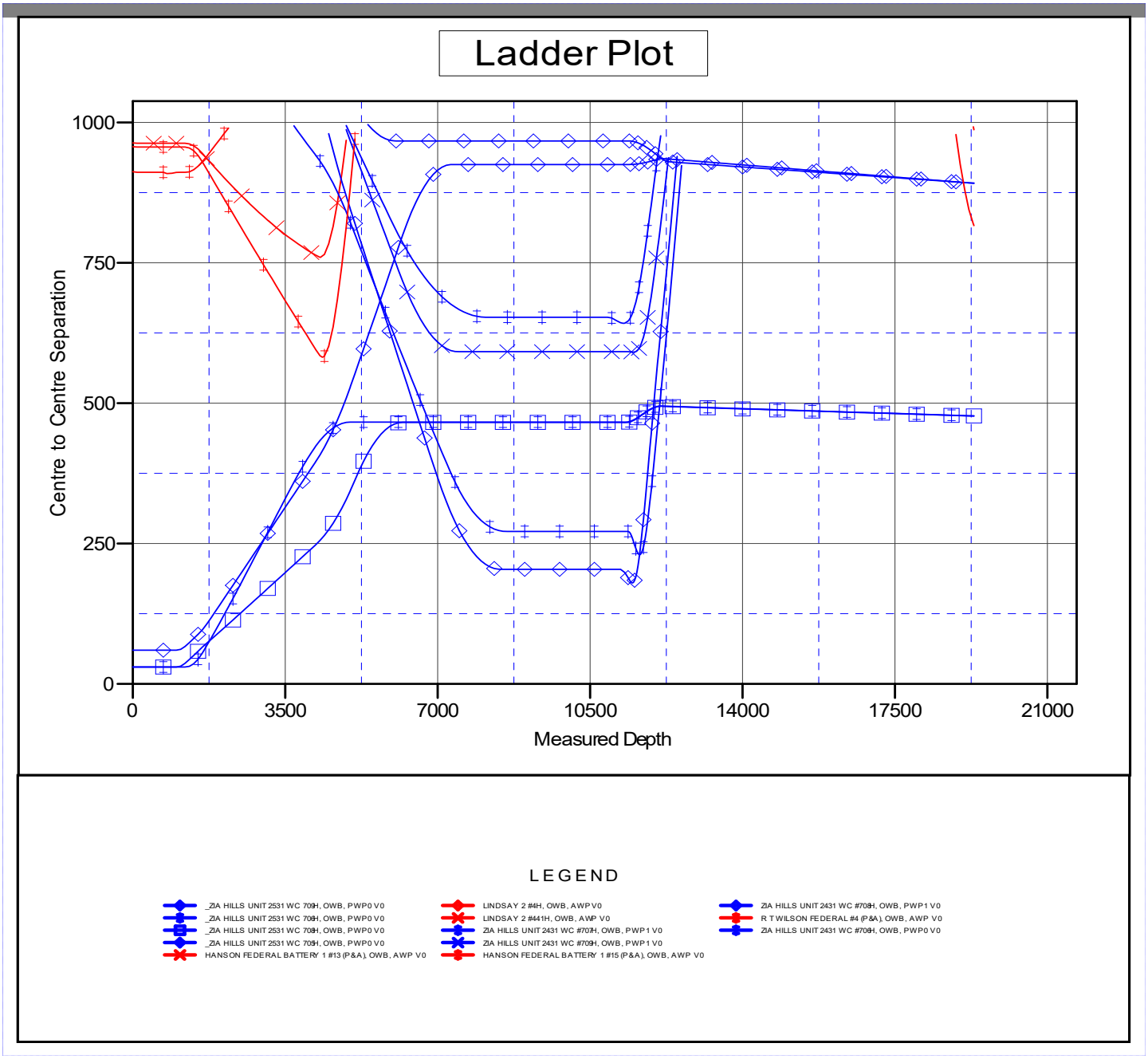
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 707H - 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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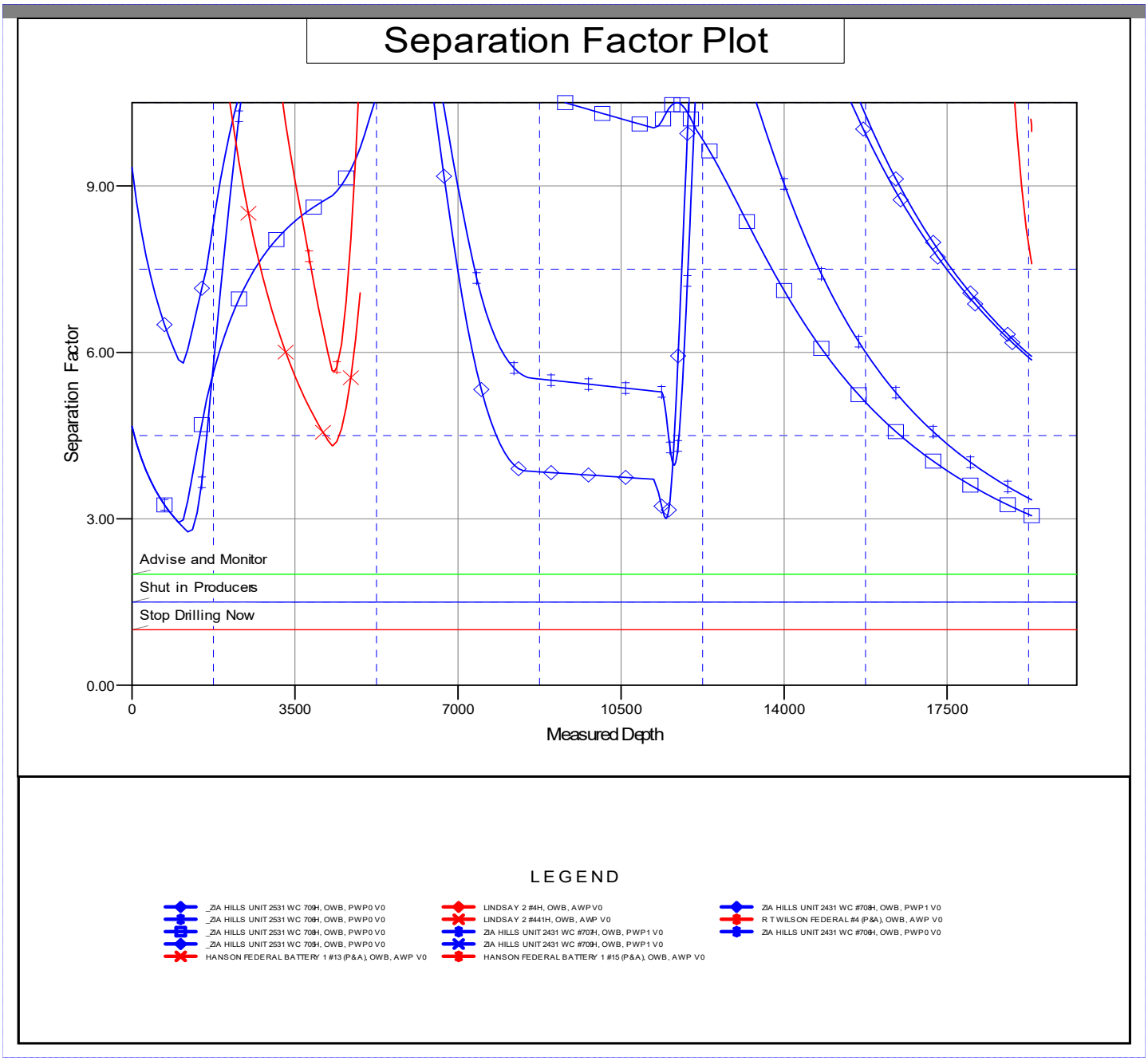
Anticollision Report

Company:	DELAWARE BASIN EAST	**Local Co-ordinate Reference:**	Well _ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H
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 707H	**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 707H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA
ZIA HILLS UNIT 2531 PROJECT
_ZIA HILLS UNIT 2531 WC 707H - Slot ZHU 2531 WC #707H

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 707H - Slot ZHU 2531 WC #707H
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 707H	**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	47,300.79521141

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	177.86

Plan Survey Tool Program **Date** 12/11/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,315.5	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	8.00	55.00	1,598.7	16.0	22.8	2.00	2.00	0.00	55.00	
4,191.5	8.00	55.00	4,165.0	222.9	318.3	0.00	0.00	0.00	0.00	
4,991.5	0.00	0.00	4,962.4	254.8	364.0	1.00	-1.00	0.00	180.00	
11,371.6	0.00	0.00	11,342.5	254.8	364.0	0.00	0.00	0.00	0.00	
12,121.6	90.00	180.65	11,820.0	-222.6	358.5	12.00	12.00	-23.91	180.65	
19,315.5	90.00	180.65	11,820.0	-7,416.0	276.5	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 707H - Slot ZHU 2531 WC #707H
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 707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	2.00	55.00	1,300.0	1.0	1.4	-0.9	2.00	2.00	0.00
1,400.0	4.00	55.00	1,399.8	4.0	5.7	-3.8	2.00	2.00	0.00
1,500.0	6.00	55.00	1,499.5	9.0	12.9	-8.5	2.00	2.00	0.00
1,600.0	8.00	55.00	1,598.7	16.0	22.8	-15.1	2.00	2.00	0.00
1,700.0	8.00	55.00	1,697.7	24.0	34.2	-22.7	0.00	0.00	0.00
1,800.0	8.00	55.00	1,796.8	32.0	45.6	-30.2	0.00	0.00	0.00
1,900.0	8.00	55.00	1,895.8	39.9	57.0	-37.8	0.00	0.00	0.00
2,000.0	8.00	55.00	1,994.8	47.9	68.4	-45.3	0.00	0.00	0.00
2,100.0	8.00	55.00	2,093.8	55.9	79.8	-52.9	0.00	0.00	0.00
2,200.0	8.00	55.00	2,192.9	63.9	91.2	-60.4	0.00	0.00	0.00
2,300.0	8.00	55.00	2,291.9	71.9	102.6	-68.0	0.00	0.00	0.00
2,400.0	8.00	55.00	2,390.9	79.9	114.0	-75.5	0.00	0.00	0.00
2,500.0	8.00	55.00	2,489.9	87.8	125.4	-83.1	0.00	0.00	0.00
2,600.0	8.00	55.00	2,589.0	95.8	136.8	-90.7	0.00	0.00	0.00
2,700.0	8.00	55.00	2,688.0	103.8	148.2	-98.2	0.00	0.00	0.00
2,800.0	8.00	55.00	2,787.0	111.8	159.6	-105.8	0.00	0.00	0.00
2,900.0	8.00	55.00	2,886.1	119.8	171.0	-113.3	0.00	0.00	0.00
3,000.0	8.00	55.00	2,985.1	127.7	182.4	-120.9	0.00	0.00	0.00
3,100.0	8.00	55.00	3,084.1	135.7	193.8	-128.4	0.00	0.00	0.00
3,200.0	8.00	55.00	3,183.1	143.7	205.2	-136.0	0.00	0.00	0.00
3,300.0	8.00	55.00	3,282.2	151.7	216.6	-143.5	0.00	0.00	0.00
3,400.0	8.00	55.00	3,381.2	159.7	228.0	-151.1	0.00	0.00	0.00
3,500.0	8.00	55.00	3,480.2	167.7	239.4	-158.6	0.00	0.00	0.00
3,600.0	8.00	55.00	3,579.2	175.6	250.8	-166.2	0.00	0.00	0.00
3,700.0	8.00	55.00	3,678.3	183.6	262.2	-173.7	0.00	0.00	0.00
3,800.0	8.00	55.00	3,777.3	191.6	273.6	-181.3	0.00	0.00	0.00
3,900.0	8.00	55.00	3,876.3	199.6	285.0	-188.8	0.00	0.00	0.00
4,000.0	8.00	55.00	3,975.3	207.6	296.4	-196.4	0.00	0.00	0.00
4,100.0	8.00	55.00	4,074.4	215.6	307.8	-203.9	0.00	0.00	0.00
4,191.5	8.00	55.00	4,165.0	222.9	318.3	-210.8	0.00	0.00	0.00
4,200.0	7.92	55.00	4,173.4	223.5	319.2	-211.5	1.00	-1.00	0.00
4,300.0	6.92	55.00	4,272.6	230.9	329.8	-218.5	1.00	-1.00	0.00
4,400.0	5.92	55.00	4,371.9	237.3	339.0	-224.6	1.00	-1.00	0.00
4,500.0	4.92	55.00	4,471.5	242.8	346.7	-229.7	1.00	-1.00	0.00
4,600.0	3.92	55.00	4,571.2	247.2	353.0	-233.9	1.00	-1.00	0.00
4,700.0	2.92	55.00	4,671.0	250.6	357.9	-237.1	1.00	-1.00	0.00
4,800.0	1.92	55.00	4,770.9	253.0	361.3	-239.4	1.00	-1.00	0.00
4,900.0	0.92	55.00	4,870.9	254.4	363.4	-240.7	1.00	-1.00	0.00
4,991.5	0.00	0.00	4,962.4	254.8	364.0	-241.1	1.00	-1.00	0.00
5,000.0	0.00	0.00	4,970.9	254.8	364.0	-241.1	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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)
5,100.0	0.00	0.00	5,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,270.9	254.8	364.0	-241.1	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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)
10,400.0	0.00	0.00	10,370.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,500.0	0.00	0.00	10,470.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,570.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,700.0	0.00	0.00	10,670.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,770.9	254.8	364.0	-241.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,870.9	254.8	364.0	-241.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,970.9	254.8	364.0	-241.1	0.00	0.00	0.00
11,100.0	0.00	0.00	11,070.9	254.8	364.0	-241.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,170.9	254.8	364.0	-241.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,270.9	254.8	364.0	-241.1	0.00	0.00	0.00
11,371.6	0.00	0.00	11,342.5	254.8	364.0	-241.1	0.00	0.00	0.00
11,375.0	0.41	180.65	11,345.9	254.8	364.0	-241.1	12.00	12.00	0.00
11,400.0	3.41	180.65	11,370.9	254.0	363.9	-240.3	12.00	12.00	0.00
11,425.0	6.41	180.65	11,395.8	251.9	363.9	-238.1	12.00	12.00	0.00
11,450.0	9.41	180.65	11,420.5	248.4	363.9	-234.7	12.00	12.00	0.00
11,475.0	12.41	180.65	11,445.1	243.7	363.8	-230.0	12.00	12.00	0.00
11,500.0	15.41	180.65	11,469.3	237.7	363.8	-224.0	12.00	12.00	0.00
11,525.0	18.41	180.65	11,493.3	230.4	363.7	-216.7	12.00	12.00	0.00
11,550.0	21.41	180.65	11,516.8	221.9	363.6	-208.2	12.00	12.00	0.00
11,575.0	24.41	180.65	11,539.8	212.2	363.5	-198.5	12.00	12.00	0.00
11,600.0	27.41	180.65	11,562.3	201.3	363.3	-187.6	12.00	12.00	0.00
11,625.0	30.41	180.65	11,584.2	189.2	363.2	-175.5	12.00	12.00	0.00
11,650.0	33.41	180.65	11,605.4	176.0	363.1	-162.3	12.00	12.00	0.00
11,675.0	36.41	180.65	11,625.9	161.7	362.9	-148.0	12.00	12.00	0.00
11,700.0	39.41	180.65	11,645.6	146.3	362.7	-132.7	12.00	12.00	0.00
11,725.0	42.41	180.65	11,664.5	129.9	362.5	-116.3	12.00	12.00	0.00
11,750.0	45.41	180.65	11,682.5	112.6	362.3	-99.0	12.00	12.00	0.00
11,775.0	48.41	180.65	11,699.6	94.4	362.1	-80.8	12.00	12.00	0.00
11,800.0	51.41	180.65	11,715.7	75.2	361.9	-61.7	12.00	12.00	0.00
11,825.0	54.41	180.65	11,730.8	55.3	361.7	-41.8	12.00	12.00	0.00
11,850.0	57.41	180.65	11,744.8	34.6	361.4	-21.1	12.00	12.00	0.00
11,875.0	60.41	180.65	11,757.7	13.2	361.2	0.3	12.00	12.00	0.00
11,900.0	63.41	180.65	11,769.4	-8.9	361.0	22.3	12.00	12.00	0.00
11,925.0	66.41	180.65	11,780.1	-31.5	360.7	44.9	12.00	12.00	0.00
11,950.0	69.41	180.65	11,789.5	-54.7	360.4	68.0	12.00	12.00	0.00
11,975.0	72.41	180.65	11,797.6	-78.3	360.2	91.6	12.00	12.00	0.00
12,000.0	75.41	180.65	11,804.6	-102.3	359.9	115.6	12.00	12.00	0.00
12,025.0	78.41	180.65	11,810.2	-126.6	359.6	139.9	12.00	12.00	0.00
12,050.0	81.41	180.65	11,814.6	-151.2	359.3	164.5	12.00	12.00	0.00
12,075.0	84.41	180.65	11,817.7	-176.0	359.0	189.3	12.00	12.00	0.00
12,100.0	87.41	180.65	11,819.5	-201.0	358.8	214.2	12.00	12.00	0.00
12,121.6	90.00	180.65	11,820.0	-222.6	358.5	235.8	12.00	12.00	0.00
12,200.0	90.00	180.65	11,820.0	-301.0	357.6	314.1	0.00	0.00	0.00
12,300.0	90.00	180.65	11,820.0	-401.0	356.5	414.0	0.00	0.00	0.00
12,400.0	90.00	180.65	11,820.0	-501.0	355.3	513.8	0.00	0.00	0.00
12,500.0	90.00	180.65	11,820.0	-600.9	354.2	613.7	0.00	0.00	0.00
12,600.0	90.00	180.65	11,820.0	-700.9	353.1	713.6	0.00	0.00	0.00
12,700.0	90.00	180.65	11,820.0	-800.9	351.9	813.5	0.00	0.00	0.00
12,800.0	90.00	180.65	11,820.0	-900.9	350.8	913.4	0.00	0.00	0.00
12,900.0	90.00	180.65	11,820.0	-1,000.9	349.6	1,013.3	0.00	0.00	0.00
13,000.0	90.00	180.65	11,820.0	-1,100.9	348.5	1,113.1	0.00	0.00	0.00
13,100.0	90.00	180.65	11,820.0	-1,200.9	347.4	1,213.0	0.00	0.00	0.00
13,200.0	90.00	180.65	11,820.0	-1,300.9	346.2	1,312.9	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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)
13,300.0	90.00	180.65	11,820.0	-1,400.9	345.1	1,412.8	0.00	0.00	0.00
13,400.0	90.00	180.65	11,820.0	-1,500.9	344.0	1,512.7	0.00	0.00	0.00
13,500.0	90.00	180.65	11,820.0	-1,600.9	342.8	1,612.5	0.00	0.00	0.00
13,600.0	90.00	180.65	11,820.0	-1,700.9	341.7	1,712.4	0.00	0.00	0.00
13,700.0	90.00	180.65	11,820.0	-1,800.9	340.5	1,812.3	0.00	0.00	0.00
13,800.0	90.00	180.65	11,820.0	-1,900.9	339.4	1,912.2	0.00	0.00	0.00
13,900.0	90.00	180.65	11,820.0	-2,000.9	338.3	2,012.1	0.00	0.00	0.00
14,000.0	90.00	180.65	11,820.0	-2,100.9	337.1	2,112.0	0.00	0.00	0.00
14,100.0	90.00	180.65	11,820.0	-2,200.8	336.0	2,211.8	0.00	0.00	0.00
14,200.0	90.00	180.65	11,820.0	-2,300.8	334.8	2,311.7	0.00	0.00	0.00
14,300.0	90.00	180.65	11,820.0	-2,400.8	333.7	2,411.6	0.00	0.00	0.00
14,400.0	90.00	180.65	11,820.0	-2,500.8	332.6	2,511.5	0.00	0.00	0.00
14,500.0	90.00	180.65	11,820.0	-2,600.8	331.4	2,611.4	0.00	0.00	0.00
14,600.0	90.00	180.65	11,820.0	-2,700.8	330.3	2,711.2	0.00	0.00	0.00
14,700.0	90.00	180.65	11,820.0	-2,800.8	329.1	2,811.1	0.00	0.00	0.00
14,800.0	90.00	180.65	11,820.0	-2,900.8	328.0	2,911.0	0.00	0.00	0.00
14,900.0	90.00	180.65	11,820.0	-3,000.8	326.9	3,010.9	0.00	0.00	0.00
15,000.0	90.00	180.65	11,820.0	-3,100.8	325.7	3,110.8	0.00	0.00	0.00
15,100.0	90.00	180.65	11,820.0	-3,200.8	324.6	3,210.7	0.00	0.00	0.00
15,200.0	90.00	180.65	11,820.0	-3,300.8	323.4	3,310.5	0.00	0.00	0.00
15,300.0	90.00	180.65	11,820.0	-3,400.8	322.3	3,410.4	0.00	0.00	0.00
15,400.0	90.00	180.65	11,820.0	-3,500.8	321.2	3,510.3	0.00	0.00	0.00
15,500.0	90.00	180.65	11,820.0	-3,600.8	320.0	3,610.2	0.00	0.00	0.00
15,600.0	90.00	180.65	11,820.0	-3,700.7	318.9	3,710.1	0.00	0.00	0.00
15,700.0	90.00	180.65	11,820.0	-3,800.7	317.7	3,809.9	0.00	0.00	0.00
15,800.0	90.00	180.65	11,820.0	-3,900.7	316.6	3,909.8	0.00	0.00	0.00
15,900.0	90.00	180.65	11,820.0	-4,000.7	315.5	4,009.7	0.00	0.00	0.00
16,000.0	90.00	180.65	11,820.0	-4,100.7	314.3	4,109.6	0.00	0.00	0.00
16,100.0	90.00	180.65	11,820.0	-4,200.7	313.2	4,209.5	0.00	0.00	0.00
16,200.0	90.00	180.65	11,820.0	-4,300.7	312.0	4,309.3	0.00	0.00	0.00
16,300.0	90.00	180.65	11,820.0	-4,400.7	310.9	4,409.2	0.00	0.00	0.00
16,400.0	90.00	180.65	11,820.0	-4,500.7	309.8	4,509.1	0.00	0.00	0.00
16,500.0	90.00	180.65	11,820.0	-4,600.7	308.6	4,609.0	0.00	0.00	0.00
16,600.0	90.00	180.65	11,820.0	-4,700.7	307.5	4,708.9	0.00	0.00	0.00
16,700.0	90.00	180.65	11,820.0	-4,800.7	306.3	4,808.8	0.00	0.00	0.00
16,800.0	90.00	180.65	11,820.0	-4,900.7	305.2	4,908.6	0.00	0.00	0.00
16,900.0	90.00	180.65	11,820.0	-5,000.7	304.1	5,008.5	0.00	0.00	0.00
17,000.0	90.00	180.65	11,820.0	-5,100.7	302.9	5,108.4	0.00	0.00	0.00
17,100.0	90.00	180.65	11,820.0	-5,200.6	301.8	5,208.3	0.00	0.00	0.00
17,200.0	90.00	180.65	11,820.0	-5,300.6	300.7	5,308.2	0.00	0.00	0.00
17,300.0	90.00	180.65	11,820.0	-5,400.6	299.5	5,408.0	0.00	0.00	0.00
17,400.0	90.00	180.65	11,820.0	-5,500.6	298.4	5,507.9	0.00	0.00	0.00
17,500.0	90.00	180.65	11,820.0	-5,600.6	297.2	5,607.8	0.00	0.00	0.00
17,600.0	90.00	180.65	11,820.0	-5,700.6	296.1	5,707.7	0.00	0.00	0.00
17,700.0	90.00	180.65	11,820.0	-5,800.6	295.0	5,807.6	0.00	0.00	0.00
17,800.0	90.00	180.65	11,820.0	-5,900.6	293.8	5,907.5	0.00	0.00	0.00
17,900.0	90.00	180.65	11,820.0	-6,000.6	292.7	6,007.3	0.00	0.00	0.00
18,000.0	90.00	180.65	11,820.0	-6,100.6	291.5	6,107.2	0.00	0.00	0.00
18,100.0	90.00	180.65	11,820.0	-6,200.6	290.4	6,207.1	0.00	0.00	0.00
18,200.0	90.00	180.65	11,820.0	-6,300.6	289.3	6,307.0	0.00	0.00	0.00
18,300.0	90.00	180.65	11,820.0	-6,400.6	288.1	6,406.9	0.00	0.00	0.00
18,400.0	90.00	180.65	11,820.0	-6,500.6	287.0	6,506.7	0.00	0.00	0.00
18,500.0	90.00	180.65	11,820.0	-6,600.6	285.8	6,606.6	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 707H - Slot ZHU 2531 WC #707H
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 707H	**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)
18,600.0	90.00	180.65	11,820.0	-6,700.6	284.7	6,706.5	0.00	0.00	0.00
18,700.0	90.00	180.65	11,820.0	-6,800.5	283.6	6,806.4	0.00	0.00	0.00
18,800.0	90.00	180.65	11,820.0	-6,900.5	282.4	6,906.3	0.00	0.00	0.00
18,900.0	90.00	180.65	11,820.0	-7,000.5	281.3	7,006.2	0.00	0.00	0.00
19,000.0	90.00	180.65	11,820.0	-7,100.5	280.1	7,106.0	0.00	0.00	0.00
19,100.0	90.00	180.65	11,820.0	-7,200.5	279.0	7,205.9	0.00	0.00	0.00
19,200.0	90.00	180.65	11,820.0	-7,300.5	277.9	7,305.8	0.00	0.00	0.00
19,300.0	90.00	180.65	11,820.0	-7,400.5	276.7	7,405.7	0.00	0.00	0.00
19,315.5	90.00	180.65	11,820.0	-7,416.0	276.5	7,421.2	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (ZHU 2531 WC #7(	0.00	0.00	11,820.0	-22.8	360.6	371,721.36	687,057.24	32° 1' 13.944 N	103° 43' 47.218 W
- plan misses target center by 40.1usft at 11932.0usft MD (11782.8 TVD, -37.9 N, 360.6 E)									
- Circle (radius 50.0)									
LTP (ZHU 2531 WC #70	90.00	179.74	11,820.0	-7,366.0	276.2	364,378.16	686,972.85	32° 0' 1.279 N	103° 43' 48.674 W
- plan misses target center by 0.9usft at 19265.5usft MD (11820.0 TVD, -7366.1 N, 277.1 E)									
- Circle (radius 50.0)									
PBHL (ZHU 2531 WC #7	0.00	0.65	11,820.0	-7,416.0	276.5	364,328.16	686,973.16	32° 0' 0.784 N	103° 43' 48.674 W
- plan hits target center									
- Rectangle (sides W100.0 H7,389.5 D20.0)									

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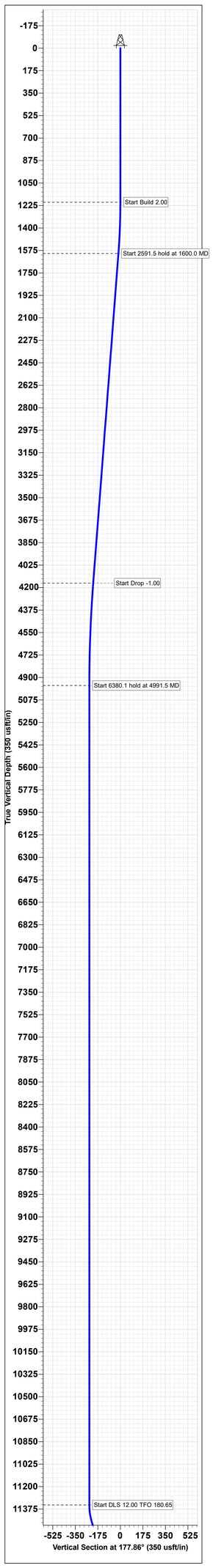
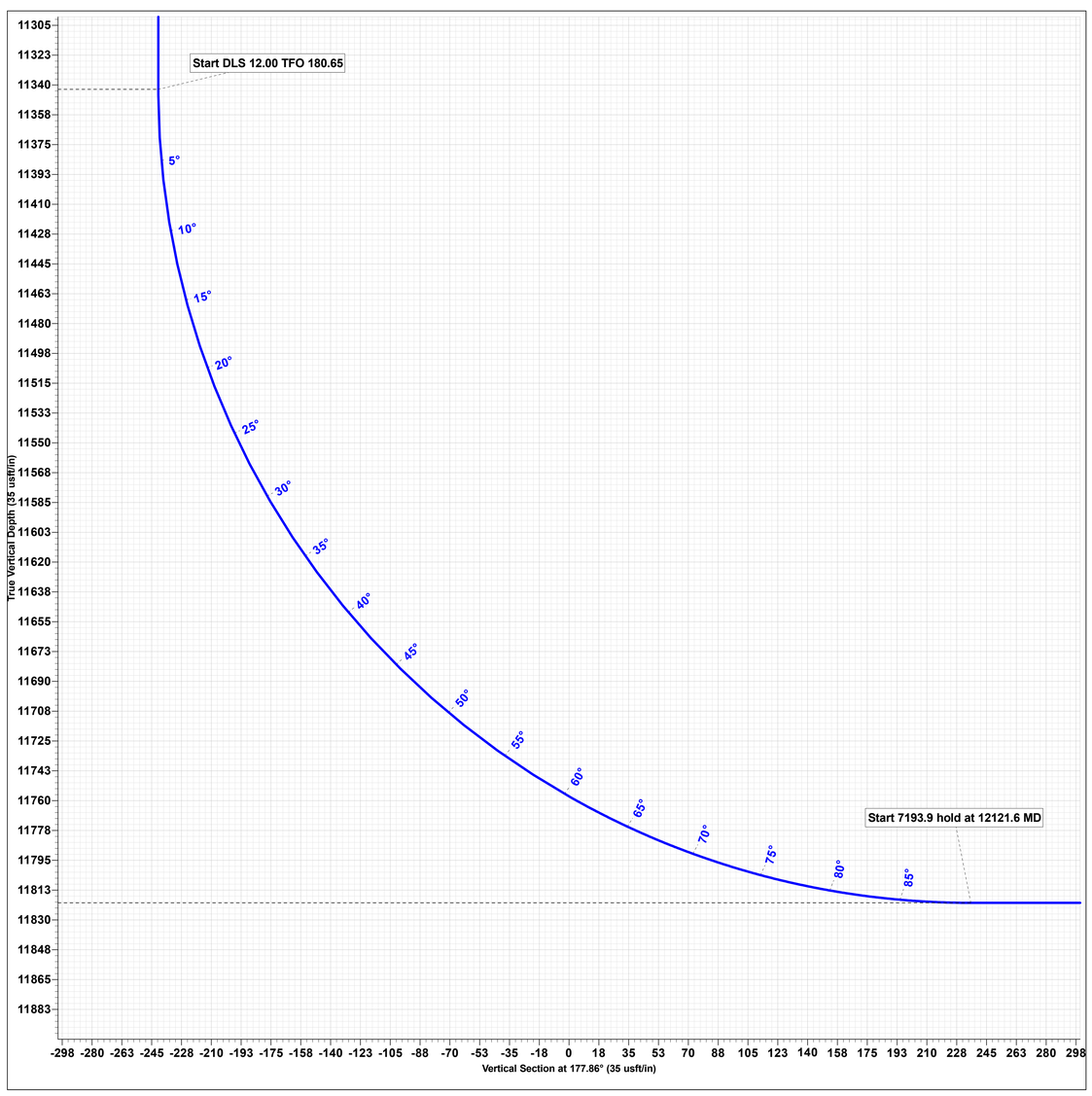
ConocoPhillips

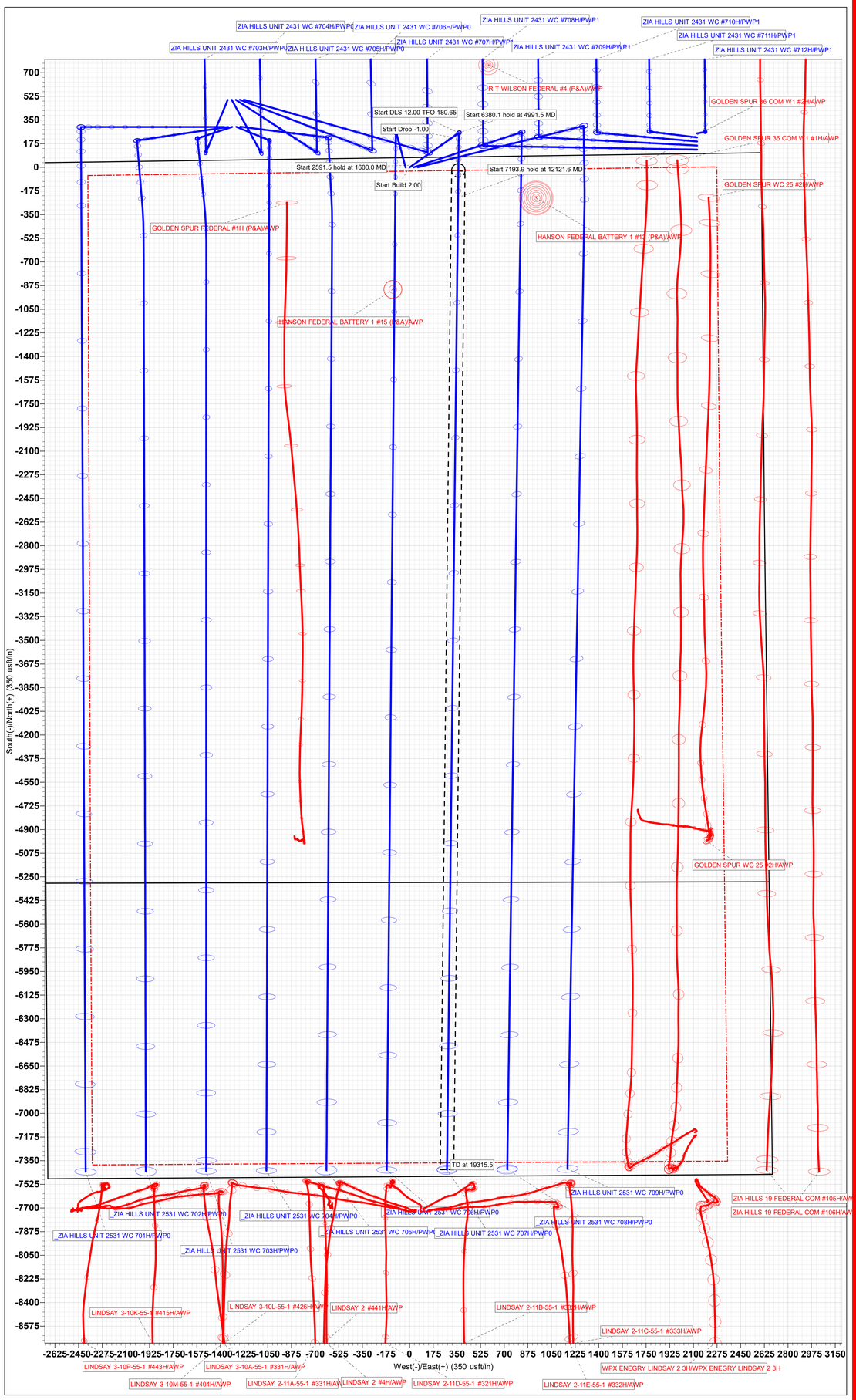
Project:	ZIA HILLS UNIT AREA
Site:	ZIA HILLS UNIT 2531 PROJECT
Well:	_ZIA HILLS UNIT 2531 WC 707H
Wellbore:	OWB
Design:	PWP0

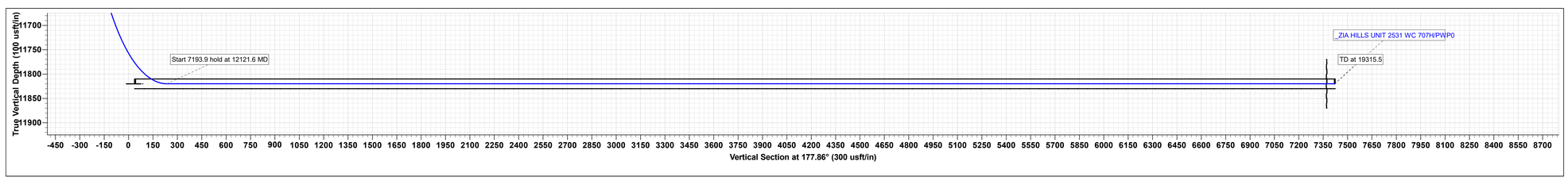
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0
1600.0	8.00	55.00	1598.7	16.0	22.8	2.00	55.00	-15.1
4191.5	8.00	55.00	4165.0	222.9	318.3	0.00	0.00	-210.8
4991.5	0.00	0.00	4962.4	254.8	364.0	1.00	180.00	-241.1
11371.6	0.00	0.00	11342.5	254.8	364.0	0.00	0.00	-241.1
12121.6	90.00	180.65	11820.0	-222.6	358.5	12.00	180.65	235.8
19315.5	90.00	180.65	11820.0	-7416.0	276.5	0.00	0.00	7421.2









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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 (H_2S).
b. The proper use and maintenance of personal protective equipment and life support systems.
c. The proper use of H_2S 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 H_2S 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. H_2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S 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

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

EMERGENCY RESPONSE NUMBERS

	OFFICE
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 707H
SURFACE HOLE FOOTAGE:	69'/N & 2605'/E
BOTTOM HOLE FOOTAGE	50'/S & 2405'/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	[x] Fluid Filled	[ ] Pilot Hole	[ ] Open Annulus
Cementing	[ ] Contingency Cement Squeeze	[ ] EchoMeter	[ ] Primary Cement Squeeze
Special Requirements	[ ] Water Disposal	[ ] COM	[x] Unit
Special Requirements	[ ] Batch Sundry		
Special Requirements Variance	[x] Break Testing	[ ] Offline Cementing	[x] 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.

 Approval Date: 10/10/2024

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/ocd/contact-us

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

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 408805
	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