

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-55891
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NWNE / 69 FNL / 2545 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0207442 / LONG: -103.7312284 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 100 FNL / 1315 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206867 / LONG: -103.7272588 (TVD: 11794 feet, MD: 12077 feet)

BHL: LOT 2 / 50 FSL / 1515 FEL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.000344 / LONG: -103.7277791 (TVD: 11820 feet, MD: 19474 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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

WELL LOCATION INFORMATION

API Number 30-015- 55891	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 709H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,162.00'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	31E		69' FNL	2,545' FEL	32.020744°	-103.731228°	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	1,515' FEL	32.000344°	-103.727779°	EDDY

Dedicated Acres 900	Infill or Defining Well Defining	Defining Well API Pending 709H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	25	26S	31E		69' FNL	2,545' FEL	32.020744°	-103.731228°	EDDY

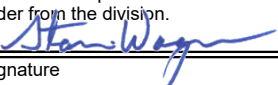
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	25	26S	31E		100' FNL	1,315' FEL	32.020687°	-103.727259°	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	1,515' FEL	32.000481°	-103.727780°	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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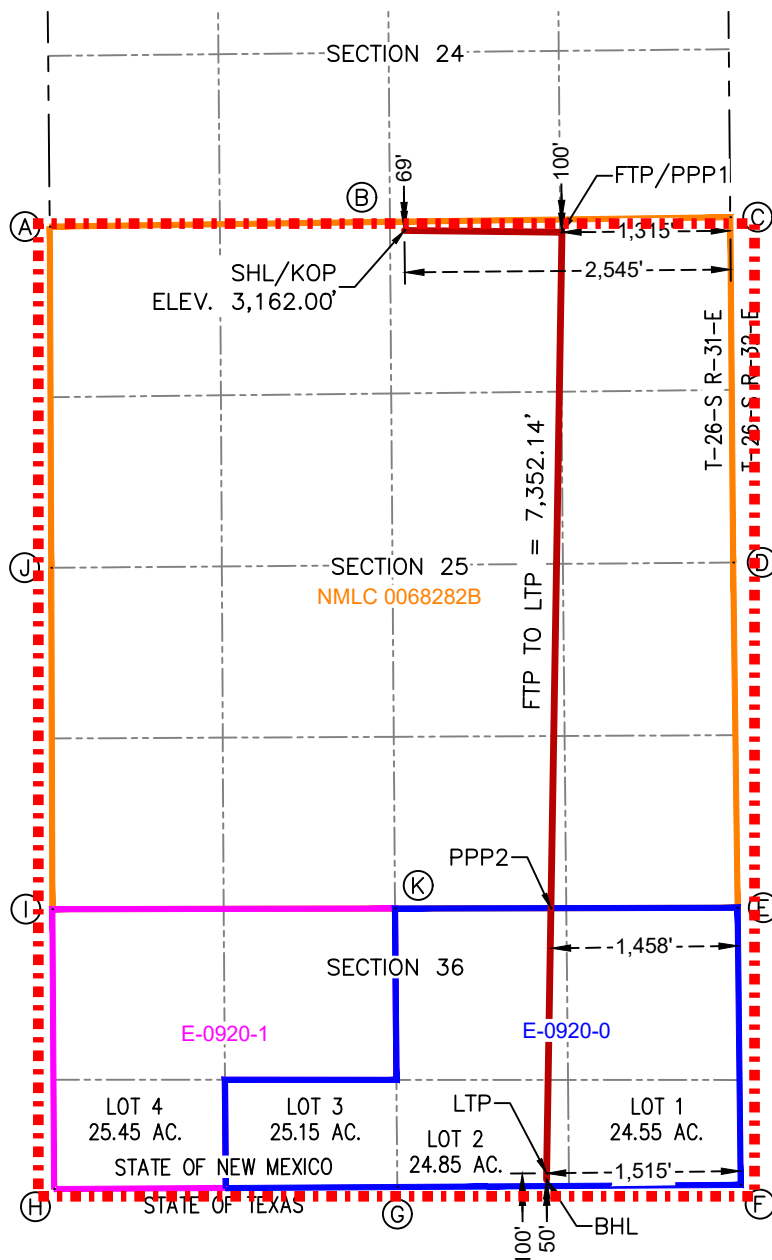
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Stan Wagner Signature 3/19/24 Date		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.  Mark S. Murray Signature and Seal of Professional Surveyor Date: 11/21/2024	
Printed Name Email Address		Certificate Number 12177	Date of Survey 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 & 2,545' FEL
ELEV.=3,162.00'

NAD 83 X = 727,942.30'
NAD 83 Y = 371,805.53'
NAD 83 LAT = 32.020744°
NAD 83 LONG = -103.731228°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 1,315' FEL
NAD 83 X = 729,172.71'
NAD 83 Y = 371,791.51'
NAD 83 LAT = 32.020687°
NAD 83 LONG = -103.727259°

PENETRATION POINT 2
0' FNL & 1,458' FEL
NAD 83 X = 729,086.27'
NAD 83 Y = 366,511.48'
NAD 83 LAT = 32.006174°
NAD 83 LONG = -103.727633°

LAST TAKE POINT
100' FSL & 1,515' FEL
NAD 83 X = 729,052.37'
NAD 83 Y = 364,440.35'
NAD 83 LAT = 32.000481°
NAD 83 LONG = -103.727780°

BOTTOM HOLE LOCATION
50' FSL & 1,515' FEL
NAD 83 X = 729,052.93'
NAD 83 Y = 364,390.35'
NAD 83 LAT = 32.000344°
NAD 83 LONG = -103.727779°

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 03/12/2024

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2531 WC 706H	30-015-	B-25-26S-31E	69 FNL & 2635 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 707H	30-015-	B-25-26S-31E	69 FNL & 2605 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 708H	30-015-	B-25-26S-31E	69 FNL & 2575 FEL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 709H	30-015-	B-25-26S-31E	69 FNL & 1515 FEL	± 818	± 3209	± 1907

IV. Central Delivery Point Name: Zia Hills Unit CF2 Facility NESW 24-26S-31E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2531 WC	Pending	± 4/1/2025	± 25 days from spud	TBD	TBD	TBD
706H, 707H, 708H, 709H						

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Stan Wagner
Title: Regulatory Advisor
E-mail Address: stan.s.wagner@conocophillips.com
Date: 03/12/2024
Phone: 432-253-9685
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

All ConocoPhillips production facility equipment will be sized per industry standards (API 12J) with adequate retention time to effectively separate all phases of production. Each project will take into consideration the number of wells and type curves for each formation pool to ensure adequate facility capacity. Design considerations will also include review of all piping, tanks, VRU's and associated equipment to ensure optimized gas capture minimized risk of release.

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

- During drilling, flare stacks will be located a minimum of 100 feet from the nearest surface hole location. All gas is captured or combusted. If an emergency or malfunction occurs, gas will be flared or vented for public health, safety, and the environment and be properly reported to the NMOCD pursuant to 19.15.27.8.G.
- Measure or estimate the volume of natural gas that is vented, flared or beneficially used during drilling, completion and production operations, regardless of the reason or authorization for such venting or flaring.

C. Completion Operations

- During completion operations, operator does not produce oil or gas but maintains adequate well control through completion operations.
- Individual well test separators will be set to properly separate gas and liquids. A temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline.

D. Venting and flaring during production operations

- During each phase of well life (drilling, completion and production) of a ConocoPhillips well, COP personnel will follow all necessary procedures to ensure both the operation and the equipment are within the NMAC 19.15.27.8 Subsection D guidelines.
- During well operations that require unloading of the well to atmospheric pressure, all reasonable actions will be taken to minimize vented gas
- Through the life of the well all flaring shall be measured, and venting events quantified using the data available and industry best practice.

E. Performance standards for separation, storage tank and flare equipment

- All storage tanks and separation equipment are designed minimize risk of liquid or vapor release and optimize gas capture. This includes automation for automatic gauging and pressure monitoring.

- All flare stacks are equipped with auto ignition devices and/or continuous pilots and are designed to operate at maximum combustion efficiency pursuant NMAC 19.15.27.8 Subsection E. Flares will follow COP spacing guidelines to ensure they are a safe distance from combustibles and operations equipment.
- COP personnel will conduct routine AVO inspections on a regular basis per NMAC 19.15.27.8 Subsection E guidelines.

F. Measurement of vented and flared natural gas.

- Measurement equipment will be installed to quantify gas flared during drilling, completion and production of the well.
- All measurement devices installed will meet accuracy ratings per AGA and API standards.
- Measurement devices will be installed without manifolds that allow diversion of gas around the metering element, except for the sole purpose of inspection of servicing the measurement device.

VIII. Best Management Practices

- Operator will curtail or shut in production, within reasonable limits, during upset conditions to minimize venting and flaring.
- When feasible, Operator will use equipment to capture gas that would otherwise be vented or flared.
- During completions and production operations Operator will minimize blowdowns to atmosphere
- When feasible, Operator will use electric or air actuated equipment to reduce bleed emissions

ConocoPhillips Company - Zia Hills Unit 2531 WC 709H

1. Geologic Formations

TVD of target	11,527' EOL	Pilot hole depth	NA
MD at TD:	19,474'	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	11300	7.625"	29.7	P110-ICY	W513	1.25	1.60	3.18	1.91
6.75"	0	11100	5.5"	23	P110-CY	BTC	1.87	2.17	2.86	2.86
6.75"	11100	19,474	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. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1480	13.375"	54.5	J55	BTC	1.67	1.60	10.58	11.27
12.25"	0	4060	9.625"	40	L80-IC	BTC	1.83	1.30	5.64	5.83
8.75"	3860	11300	7.625"	29.7	P110-ICY	W513	1.25	1.60	3.18	1.91
6.75"	0	11100	5.5"	23	P110-CY	BTC	1.87	2.17	2.86	2.86
6.75"	11100	19,474	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.

March 18, 2024

1

ConocoPhillips Company - Zia Hills Unit 2531 WC 709H

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 709H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	710	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	820	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	700	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	10,800'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	890	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	600	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	770	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	3,860'	20%
Production	11,050'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 709H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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 Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per 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 709H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 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 709H

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

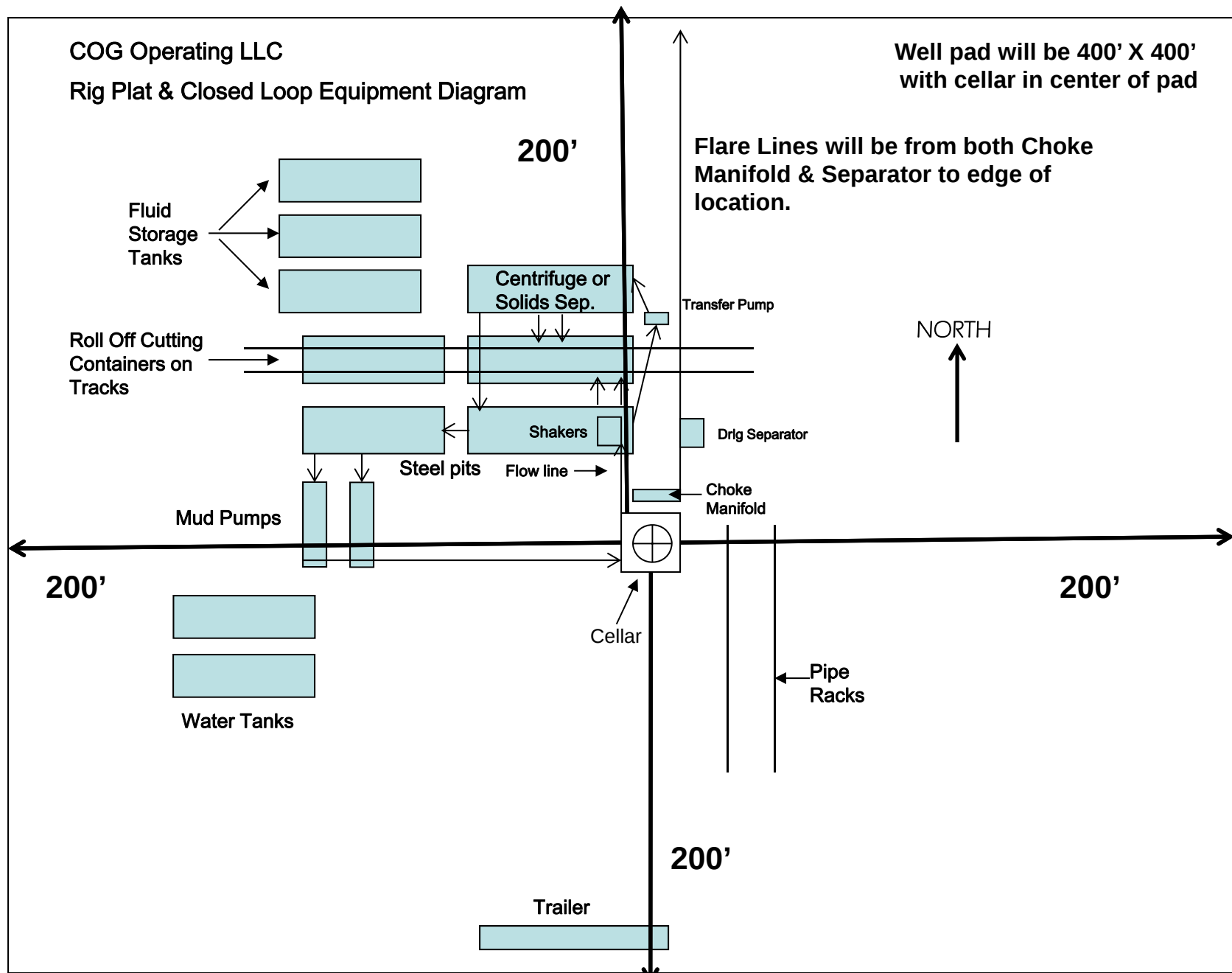


Exhibit 1

"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 709H

OWB

PWP0

Anticollision Report

11 December, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	783.3	740.2	920.1	899.1	43.829	CC
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	1,100.0	1,057.3	923.1	893.5	31.142	ES
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	2,000.0	1,938.2	998.8	957.4	24.140	SF
R T WILSON FEDERAL #2 (P&A) - OWB - AWP						Out of range
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,294.9	4,181.8	608.0	507.9	6.076	CC
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,304.4	4,191.1	608.0	507.5	6.052	ES
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,400.0	4,236.0	610.4	508.3	5.980	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	5,731.0	5,735.7	99.6	69.7	3.328	CC, ES
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	5,800.0	5,797.0	104.5	72.3	3.247	SF
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	6,000.0	5,976.3	66.0	29.4	1.800	Advise and Monitor, SF
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	6,077.9	6,046.8	56.0	25.5	1.834	Advise and Monitor, ES
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	6,082.3	6,050.8	56.0	25.5	1.835	Advise and Monitor, CC
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	11,523.4	11,433.7	98.7	39.0	1.654	Advise and Monitor, CC
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	11,525.0	11,435.1	98.7	39.0	1.653	Advise and Monitor, ES, SF
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,636.5	11,506.0	488.3	435.0	9.168	CC
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,650.0	11,516.6	488.4	435.0	9.154	ES
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	11,700.0	11,550.0	490.2	436.5	9.135	SF
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	11,525.0	11,387.2	899.7	850.0	18.118	CC
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	11,550.0	11,407.5	899.8	850.0	18.074	ES
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	11,675.0	11,480.2	906.0	855.5	17.941	SF
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802	CC, ES
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	1,100.0	1,100.0	91.7	81.1	8.628	SF
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	1,100.0	1,100.0	61.7	51.1	5.805	SF
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	1,500.0	1,505.0	30.5	17.8	2.405	ES
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	1,600.0	1,605.4	31.4	18.2	2.386	SF
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	11,990.5	18,785.0	690.7	566.9	5.578	CC, ES
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	12,000.0	18,785.0	690.8	567.0	5.578	SF
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	13,598.7	17,419.0	411.2	309.9	4.057	CC
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	13,600.0	17,419.0	411.2	309.9	4.056	ES
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,200.0	11,824.0	444.7	324.0	3.685	SF
GOLDEN SPUR WC 25 #2H - OWB - AWP						Out of range
GOLDEN SPUR WC 25 #2H - ST01 - AWP	12,283.9	16,325.0	921.8	803.5	7.792	CC, ES, SF
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	4,358.0	4,228.0	442.5	266.4	2.513	CC, ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,474.3	11,667.0				Out of Range @TD
LINDSAY 2 #4H - OWB - AWP	19,474.3	11,589.9				Out of Range @TD
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,474.3	10,813.0				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,474.3	10,713.0				Out of Range @TD
LINDSAY 2-11C-55-1 #333H - OWB - AWP	19,474.3	10,948.3				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,474.3	10,002.2				Out of Range @TD
LINDSAY 2-11E-55-1 #332H - OWB - AWP	19,474.3	10,238.0				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,474.3	10,761.2				Out of Range @TD
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,474.3	11,885.2				Out of Range @TD
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,474.3	11,492.7				Out of Range @TD
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA	19,474.3	11,438.6				Out of Range @TD
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP	19,474.3	21,910.0				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #106H - OWB - AWP	19,474.3	21,960.2				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #107H - OWB - AWP	19,474.3	21,864.7				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #108H - OWB - AWP	19,474.3	21,676.4				Out of Range @TD
ZIA HILLS 19 FEDERAL COM #113H - OWB - AWP	19,474.3	21,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	19,474.3	4,283.0				Out of Range @TD
R T WILSON FEDERAL #2 (P&A) - OWB - AWP	19,474.3	4,251.0				Out of Range @TD
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	19,474.3	4,236.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,474.3	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,474.3	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,474.3	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,474.3	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	19,474.3	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	19,474.3	11,250.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	19,474.3	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #712H - OWB - PWP1	19,474.3	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0	19,474.3	19,262.0				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0	19,474.3	19,066.9				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0	19,474.3	19,283.1				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0	19,474.3	19,129.4				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	19,474.3	19,300.2	891.9	740.0	5.873	
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	19,474.3	19,186.5	477.2	339.0	3.453	
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	19,474.3	11,492.1	894.5	766.0	6.963	
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,474.3	11,681.6	506.9	384.5	4.140	
GOLDEN SPUR WC 25 #2H - OWB - AWP	19,474.3	11,883.0				Out of Range @TD
GOLDEN SPUR WC 25 #2H - ST01 - AWP	19,474.3	11,350.0				Out of Range @TD
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	19,474.3	4,228.0				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 501-INC-ONLY, 1475-INC-ONLY												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	43.0	3.0	3.0	-168.48	-903.8	-184.1	923.4	916.8	6.55	140.916	
100.0	100.0	57.0	100.0	3.2	3.1	-168.48	-903.8	-184.1	922.4	915.5	6.92	133.251	
200.0	200.0	157.0	200.0	3.5	3.9	-168.48	-903.8	-184.1	922.4	914.5	7.90	116.734	
300.0	300.0	257.0	300.0	3.7	5.0	-168.48	-903.8	-184.1	922.4	913.0	9.34	98.734	
400.0	400.0	357.0	400.0	3.9	6.4	-168.48	-903.8	-184.1	922.4	911.3	11.05	83.442	
500.0	500.0	457.0	500.0	4.1	7.8	-168.48	-903.8	-184.1	922.4	909.5	12.92	71.366	
600.0	600.0	557.2	600.0	4.2	9.7	-168.48	-903.8	-184.1	922.4	907.1	15.31	60.230	
700.0	700.0	657.2	700.0	4.4	12.0	-168.48	-903.8	-184.1	922.4	904.0	18.38	50.181	
783.3	783.3	740.2	783.0	4.6	14.0	-168.46	-901.5	-184.1	920.1	899.1	20.99	43.829 CC	
800.0	800.0	755.8	798.5	4.6	14.3	-168.46	-901.5	-184.1	920.1	898.6	21.49	42.823	
900.0	900.0	848.9	891.6	4.8	16.5	-168.46	-902.0	-184.1	920.7	896.2	24.47	37.628	
1,000.0	1,000.0	942.0	984.7	4.9	18.7	-168.48	-903.2	-184.1	921.9	894.5	27.48	33.555	
1,100.0	1,100.0	1,057.3	1,100.0	5.2	20.3	115.60	-903.8	-184.1	923.1	893.5	29.64	31.142 ES	
1,200.0	1,199.8	1,157.2	1,199.8	5.4	21.2	115.85	-903.8	-184.1	925.4	894.4	31.03	29.828	
1,300.0	1,299.5	1,256.3	1,298.9	5.7	22.2	116.27	-903.3	-184.1	928.7	896.3	32.40	28.664	
1,400.0	1,398.7	1,354.0	1,396.6	6.0	23.2	116.82	-903.4	-184.1	934.3	900.6	33.76	27.675	
1,500.0	1,497.5	1,451.2	1,493.9	6.3	24.1	117.51	-903.7	-184.1	941.9	906.7	35.12	26.819	
1,600.0	1,595.6	1,553.0	1,595.6	6.6	25.0	118.39	-903.8	-184.1	951.0	914.7	36.35	26.166	
1,675.0	1,668.8	1,624.0	1,666.6	6.8	25.5	119.09	-903.0	-184.1	958.4	921.2	37.15	25.794	
1,700.0	1,693.1	1,646.2	1,688.8	6.9	25.7	119.36	-903.1	-184.1	961.4	924.0	37.40	25.702	
1,800.0	1,790.3	1,747.8	1,790.3	7.2	26.6	120.57	-903.8	-184.1	974.0	935.3	38.63	25.212	
1,900.0	1,887.6	1,845.0	1,887.6	7.5	27.5	121.71	-903.8	-184.1	986.3	946.3	40.03	24.640	
2,000.0	1,984.8	1,938.2	1,980.7	7.9	28.5	122.79	-903.6	-184.1	998.8	957.4	41.37	24.140 SF	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	35.0	3.0	3.0	34.65	757.0	523.2	920.9	914.3	6.55	140.490	
100.0	100.0	65.0	100.0	3.2	3.0	34.65	757.0	523.2	920.2	913.4	6.84	134.570	
200.0	200.0	166.1	201.1	3.5	3.6	34.64	757.1	523.2	920.3	912.7	7.60	121.017	
300.0	300.0	265.5	300.5	3.7	4.8	34.64	757.1	523.2	920.3	911.2	9.10	101.113	
400.0	400.0	365.0	400.0	3.9	6.4	34.65	757.0	523.2	920.2	909.2	11.03	83.466	
500.0	500.0	465.0	500.0	4.1	8.0	34.65	757.0	523.2	920.2	907.0	13.20	69.713	
600.0	600.0	566.9	601.8	4.2	9.8	34.64	757.2	523.2	920.3	904.8	15.55	59.193	
700.0	700.0	665.0	700.0	4.4	11.5	34.65	757.0	523.2	920.2	902.3	17.89	51.437	
800.0	800.0	767.2	802.2	4.6	13.4	34.64	757.2	523.2	920.3	899.9	20.38	45.165	
900.0	900.0	865.0	900.0	4.8	15.1	34.65	757.0	523.2	920.2	897.5	22.71	40.513	
1,000.0	1,000.0	967.7	1,002.7	4.9	16.9	34.64	757.1	523.2	920.3	895.1	25.15	36.597	
1,100.0	1,100.0	1,065.0	1,100.0	5.2	17.9	-41.44	757.0	523.2	918.9	892.4	26.49	34.691	
1,200.0	1,199.8	1,164.9	1,199.8	5.4	18.4	-41.71	757.0	523.2	915.0	887.7	27.29	33.532	
1,300.0	1,299.5	1,264.5	1,299.5	5.7	18.8	-42.16	757.0	523.2	908.5	880.6	27.87	32.594	
1,400.0	1,398.7	1,367.4	1,402.4	6.0	19.5	-42.84	757.3	523.2	899.7	870.8	28.86	31.169	
1,500.0	1,497.5	1,462.5	1,497.5	6.3	20.3	-43.65	757.0	523.2	888.0	858.0	30.05	29.552	
1,600.0	1,595.6	1,560.7	1,595.6	6.6	21.3	-44.70	757.0	523.2	874.2	842.8	31.45	27.797	
1,675.0	1,668.8	1,634.8	1,669.7	6.8	22.2	-45.66	757.4	523.2	862.7	830.0	32.71	26.374	
1,700.0	1,693.1	1,661.7	1,696.6	6.9	22.5	-45.96	757.3	523.2	858.5	825.3	33.16	25.889	
1,800.0	1,790.3	1,755.4	1,790.3	7.2	23.7	-47.03	757.0	523.2	841.9	807.1	34.87	24.143	
1,900.0	1,887.6	1,857.8	1,892.6	7.5	25.1	-48.27	757.2	523.2	826.1	789.3	36.81	22.444	
2,000.0	1,984.8	1,949.9	1,984.8	7.9	26.4	-49.41	757.0	523.2	810.4	771.7	38.66	20.959	
2,100.0	2,082.0	2,050.7	2,085.6	8.2	27.9	-50.72	757.2	523.2	795.2	754.5	40.71	19.534	
2,200.0	2,179.3	2,144.4	2,179.3	8.6	29.3	-51.97	757.0	523.2	780.3	737.5	42.73	18.262	
2,300.0	2,276.5	2,246.0	2,280.9	8.9	30.9	-53.38	757.1	523.2	765.9	721.0	44.94	17.042	
2,400.0	2,373.7	2,339.8	2,374.6	9.3	32.4	-54.74	757.3	523.2	752.1	705.0	47.08	15.976	
2,500.0	2,471.0	2,436.1	2,471.0	9.7	33.9	-56.17	757.0	523.2	738.4	689.2	49.21	15.005	
2,600.0	2,568.2	2,537.1	2,571.9	10.1	35.4	-57.73	757.1	523.2	725.5	674.2	51.33	14.135	
2,700.0	2,665.5	2,630.6	2,665.5	10.5	36.9	-59.23	757.0	523.2	712.9	659.5	53.40	13.350	
2,800.0	2,762.7	2,727.9	2,762.7	11.0	38.5	-60.83	757.0	523.2	701.0	645.4	55.59	12.611	
2,900.0	2,859.9	2,826.0	2,860.8	11.4	40.3	-62.51	757.4	523.2	690.1	631.9	58.15	11.866	
3,000.0	2,957.2	2,922.4	2,957.2	11.8	42.1	-64.20	757.0	523.2	679.0	618.3	60.69	11.188	
3,100.0	3,054.4	3,019.6	3,054.4	12.2	44.0	-65.96	757.0	523.2	668.9	605.6	63.31	10.567	
3,200.0	3,151.6	3,117.8	3,152.6	12.7	45.9	-67.79	757.8	523.2	660.3	594.4	65.94	10.014	
3,300.0	3,248.9	3,218.0	3,252.8	13.1	47.9	-69.70	757.5	523.2	651.3	582.6	68.63	9.489	
3,400.0	3,346.1	3,311.4	3,346.1	13.5	49.6	-71.52	757.0	523.2	642.9	571.8	71.10	9.042	
3,500.0	3,443.3	3,413.3	3,448.0	14.0	51.5	-73.57	757.1	523.2	635.8	562.1	73.70	8.627	
3,600.0	3,540.6	3,506.1	3,540.8	14.4	53.1	-75.46	757.2	523.2	629.4	553.5	75.94	8.289	
3,700.0	3,637.8	3,603.1	3,637.8	14.9	54.9	-77.48	757.0	523.2	623.7	545.3	78.39	7.956	
3,800.0	3,735.1	3,700.4	3,735.1	15.3	56.9	-79.53	757.0	523.2	618.9	537.7	81.18	7.623	
3,900.0	3,832.3	3,797.6	3,832.3	15.8	59.5	-81.61	757.0	523.2	614.9	530.1	84.81	7.251	
4,000.0	3,929.5	3,897.8	3,932.5	16.3	62.2	-83.77	758.1	523.2	612.9	524.4	88.55	6.922	
4,100.0	4,026.8	4,001.5	4,036.1	16.7	65.0	-86.04	757.0	523.2	609.7	517.3	92.41	6.598	
4,200.0	4,124.0	4,089.5	4,124.0	17.2	67.7	-87.97	757.0	523.2	608.4	512.2	96.16	6.327	
4,294.9	4,216.3	4,181.8	4,216.3	17.6	70.5	-90.00	757.0	523.2	608.0	507.9	100.06	6.076 CC	
4,300.0	4,221.2	4,186.8	4,221.2	17.6	70.6	-90.11	757.0	523.2	608.0	507.7	100.27	6.063	
4,304.4	4,225.6	4,191.1	4,225.6	17.7	70.8	-90.20	757.0	523.2	608.0	507.5	100.46	6.052 ES	
4,400.0	4,318.5	4,236.0	4,270.3	18.1	72.1	-91.19	757.0	523.2	610.4	508.3	102.07	5.980 SF	
4,500.0	4,415.7	4,236.0	4,270.3	18.6	72.1	-91.19	757.0	523.2	627.0	527.2	99.75	6.285	
4,600.0	4,513.0	4,236.0	4,270.3	19.0	72.1	-91.19	757.0	523.2	658.5	562.9	95.58	6.889	
4,700.0	4,610.2	4,236.0	4,270.3	19.5	72.1	-91.19	757.0	523.2	703.0	612.6	90.33	7.782	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	ZIA HILLS UNIT 2431 PROJECT - R T WILSON FEDERAL #4 (P&A) - OWB - AWP										Offset Site Error:	0.0 usft
Survey Program:	100-INC-ONLY, 1100-INC-ONLY										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,800.0	4,707.4	4,236.0	4,270.3	20.0	72.1	-91.19	757.0	523.2	758.1	673.4	84.71	8.949
4,900.0	4,804.7	4,236.0	4,270.3	20.4	72.1	-91.19	757.0	523.2	821.7	742.5	79.21	10.374
5,000.0	4,901.9	4,236.0	4,270.3	20.9	72.1	-91.19	757.0	523.2	892.0	817.9	74.11	12.037
5,100.0	4,999.1	4,236.0	4,270.3	21.4	72.1	-91.19	757.0	523.2	967.6	898.1	69.52	13.918

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Minimum Separation	Separation Factor	Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,600.0	3,540.6	3,841.4	3,777.8	14.4	15.3	14.41	141.3	1,464.8	981.1	952.1	29.08	33.745	
3,700.0	3,637.8	3,930.3	3,864.1	14.9	15.7	14.73	141.6	1,443.3	935.6	905.7	29.89	31.305	
3,800.0	3,735.1	4,019.2	3,950.3	15.3	16.1	15.08	142.0	1,421.8	890.1	859.4	30.70	28.994	
3,900.0	3,832.3	4,108.1	4,036.6	15.8	16.6	15.47	142.4	1,400.3	844.6	813.0	31.51	26.803	
4,000.0	3,929.5	4,197.0	4,122.8	16.3	17.0	15.90	142.8	1,378.8	799.1	766.8	32.32	24.722	
4,100.0	4,026.8	4,285.9	4,209.1	16.7	17.4	16.39	143.1	1,357.3	753.7	720.5	33.13	22.746	
4,200.0	4,124.0	4,374.7	4,295.4	17.2	17.8	16.94	143.5	1,335.8	708.3	674.3	33.94	20.867	
4,300.0	4,221.2	4,463.6	4,381.6	17.6	18.2	17.56	143.9	1,314.3	663.0	628.2	34.75	19.079	
4,400.0	4,318.5	4,552.5	4,467.9	18.1	18.7	18.27	144.3	1,292.8	617.7	582.2	35.55	17.377	
4,500.0	4,415.7	4,641.4	4,554.1	18.6	19.1	19.10	144.6	1,271.3	572.6	536.2	36.34	15.756	
4,600.0	4,513.0	4,730.3	4,640.4	19.0	19.5	20.06	145.0	1,249.7	527.5	490.4	37.12	14.211	
4,700.0	4,610.2	4,819.2	4,726.6	19.5	19.9	21.21	145.4	1,228.2	482.6	444.7	37.88	12.741	
4,800.0	4,707.4	4,908.1	4,812.9	20.0	20.4	22.58	145.8	1,206.7	437.9	399.3	38.61	11.341	
4,900.0	4,804.7	4,997.0	4,899.1	20.4	20.8	24.26	146.1	1,185.2	393.5	354.1	39.31	10.010	
5,000.0	4,901.9	5,085.9	4,985.4	20.9	21.2	26.36	146.5	1,163.7	349.3	309.4	39.93	8.748	
5,100.0	4,999.1	5,174.8	5,071.6	21.4	21.6	29.05	146.9	1,142.2	305.7	265.3	40.46	7.556	
5,200.0	5,096.4	5,263.7	5,157.9	21.8	22.1	32.60	147.3	1,120.7	262.8	222.0	40.80	6.442	
5,300.0	5,193.6	5,352.6	5,244.1	22.3	22.5	37.44	147.6	1,099.2	221.1	180.3	40.83	5.416	
5,400.0	5,290.8	5,441.5	5,330.4	22.8	22.9	44.33	148.0	1,077.7	181.4	141.2	40.24	4.508	
5,500.0	5,388.1	5,530.4	5,416.6	23.3	23.3	54.50	148.4	1,056.2	145.3	106.9	38.46	3.779	
5,600.0	5,485.3	5,619.3	5,502.9	23.7	23.8	69.69	148.8	1,034.7	116.3	81.6	34.66	3.356	
5,700.0	5,582.6	5,708.1	5,589.1	24.2	24.2	90.63	149.1	1,013.2	100.6	70.4	30.26	3.326	
5,731.0	5,612.7	5,735.7	5,615.9	24.4	24.3	97.86	149.2	1,006.6	99.6	69.7	29.93	3.328 CC, ES	
5,800.0	5,679.8	5,797.0	5,675.4	24.7	24.6	113.60	149.5	991.7	104.5	72.3	32.19	3.247 SF	
5,900.0	5,777.0	5,885.9	5,761.7	25.2	25.0	132.49	149.9	970.2	126.2	87.8	38.35	3.290	
6,000.0	5,874.3	5,974.8	5,847.9	25.6	25.5	145.57	150.3	948.7	158.4	115.4	43.08	3.678	
6,077.9	5,950.0	6,044.1	5,915.1	26.0	25.8	152.66	150.6	932.0	187.5	142.0	45.56	4.116	
6,100.0	5,971.5	6,063.7	5,934.2	26.1	25.9	154.34	150.6	927.2	196.2	150.0	46.14	4.252	
6,200.0	6,069.0	6,153.2	6,021.0	26.6	26.3	160.40	151.0	905.6	235.7	187.4	48.25	4.884	
6,300.0	6,166.9	6,243.4	6,108.5	27.0	26.8	164.67	151.4	883.8	275.2	225.4	49.87	5.519	
6,400.0	6,265.2	6,334.4	6,196.8	27.5	27.2	167.81	151.8	861.8	314.2	263.0	51.22	6.134	
6,500.0	6,363.7	6,426.0	6,285.7	27.9	27.7	170.22	152.2	839.6	352.1	299.7	52.41	6.719	
6,600.0	6,462.5	6,518.3	6,375.3	28.4	28.1	172.12	152.6	817.3	388.9	335.4	53.50	7.268	
6,700.0	6,561.6	6,611.3	6,465.5	28.8	28.6	173.67	152.9	794.8	424.3	369.8	54.53	7.781	
6,800.0	6,660.9	6,704.9	6,556.3	29.2	29.0	174.95	153.3	772.1	458.4	402.8	55.51	8.257	
6,900.0	6,760.4	6,799.1	6,647.7	29.6	29.5	176.04	153.7	749.3	490.9	434.5	56.46	8.695	
7,000.0	6,860.1	6,893.8	6,739.6	30.0	29.9	176.98	154.1	726.4	521.9	464.6	57.37	9.098	
7,100.0	6,959.8	6,989.1	6,832.1	30.4	30.4	177.81	154.5	703.4	551.4	493.2	58.25	9.466	
7,200.0	7,059.7	7,084.9	6,925.0	30.7	30.9	178.54	154.9	680.2	579.3	520.2	59.11	9.801	
7,300.0	7,159.7	7,181.1	7,018.4	31.0	31.3	179.20	155.4	656.9	605.6	545.7	59.93	10.106	
7,400.0	7,259.7	7,288.2	7,122.4	31.3	31.9	179.84	155.8	631.8	629.6	568.7	60.93	10.334	
7,427.9	7,287.5	7,318.6	7,152.1	31.3	32.0	-103.99	155.9	625.1	635.7	574.5	61.17	10.393	
7,500.0	7,359.7	7,397.6	7,229.3	31.3	32.4	-103.60	156.2	608.2	650.6	588.9	61.73	10.540	
7,600.0	7,459.7	7,508.0	7,337.5	31.3	32.9	-103.12	156.6	586.4	669.7	607.2	62.49	10.718	
7,700.0	7,559.7	7,619.2	7,446.9	31.4	33.4	-102.71	156.9	566.6	687.1	623.9	63.21	10.869	
7,800.0	7,659.7	7,731.1	7,557.4	31.4	33.9	-102.37	157.2	548.8	702.6	638.6	63.90	10.994	
7,900.0	7,759.7	7,843.7	7,668.9	31.4	34.4	-102.07	157.5	533.0	716.2	651.6	64.56	11.093	
8,000.0	7,859.7	7,956.9	7,781.2	31.4	34.9	-101.83	157.8	519.4	727.9	662.7	65.18	11.168	
8,100.0	7,959.7	8,070.6	7,894.3	31.5	35.3	-101.63	158.0	508.0	737.7	672.0	65.75	11.220	
8,200.0	8,059.7	8,184.7	8,008.1	31.5	35.7	-101.48	158.1	498.8	745.6	679.3	66.28	11.250	
8,300.0	8,159.7	8,299.1	8,122.3	31.5	36.2	-101.36	158.2	491.8	751.5	684.8	66.75	11.259	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)					
8,400.0	8,259.7	8,413.7	8,236.8	31.6	36.5	-101.29	158.3	487.1	755.5	688.4	67.16	11.250	
8,500.0	8,359.7	8,528.5	8,351.6	31.6	36.8	-101.25	158.4	484.7	757.6	690.1	67.46	11.230	
8,600.0	8,459.7	8,636.6	8,459.7	31.6	36.9	-101.24	158.4	484.4	757.9	690.3	67.57	11.216	
8,700.0	8,559.7	8,736.6	8,559.7	31.7	36.9	-101.24	158.4	484.4	757.9	690.2	67.63	11.206	
8,800.0	8,659.7	8,836.6	8,659.7	31.7	37.0	-101.24	158.4	484.4	757.9	690.2	67.68	11.197	
8,900.0	8,759.7	8,936.6	8,759.7	31.7	37.0	-101.24	158.4	484.4	757.9	690.1	67.73	11.189	
9,000.0	8,859.7	9,036.6	8,859.7	31.7	37.0	-101.24	158.4	484.4	757.9	690.1	67.79	11.181	
9,100.0	8,959.7	9,136.6	8,959.7	31.8	37.0	-101.24	158.4	484.4	757.9	690.0	67.84	11.172	
9,200.0	9,059.7	9,236.6	9,059.7	31.8	37.0	-101.24	158.4	484.4	757.9	690.0	67.89	11.163	
9,300.0	9,159.7	9,336.6	9,159.7	31.8	37.1	-101.24	158.4	484.4	757.9	689.9	67.94	11.155	
9,400.0	9,259.7	9,436.6	9,259.7	31.9	37.1	-101.24	158.4	484.4	757.9	689.9	67.99	11.146	
9,500.0	9,359.7	9,536.6	9,359.7	31.9	37.1	-101.24	158.4	484.4	757.9	689.8	68.05	11.137	
9,600.0	9,459.7	9,636.6	9,459.7	31.9	37.1	-101.24	158.4	484.4	757.9	689.8	68.10	11.129	
9,700.0	9,559.7	9,736.6	9,559.7	32.0	37.1	-101.24	158.4	484.4	757.9	689.7	68.15	11.120	
9,800.0	9,659.7	9,836.6	9,659.7	32.0	37.2	-101.24	158.4	484.4	757.9	689.7	68.21	11.111	
9,900.0	9,759.7	9,936.6	9,759.7	32.0	37.2	-101.24	158.4	484.4	757.9	689.6	68.26	11.102	
10,000.0	9,859.7	10,036.6	9,859.7	32.1	37.2	-101.24	158.4	484.4	757.9	689.6	68.32	11.093	
10,100.0	9,959.7	10,136.6	9,959.7	32.1	37.2	-101.24	158.4	484.4	757.9	689.5	68.37	11.084	
10,200.0	10,059.7	10,236.6	10,059.7	32.1	37.3	-101.24	158.4	484.4	757.9	689.5	68.43	11.075	
10,300.0	10,159.7	10,336.6	10,159.7	32.2	37.3	-101.24	158.4	484.4	757.9	689.4	68.48	11.066	
10,400.0	10,259.7	10,436.6	10,259.7	32.2	37.3	-101.24	158.4	484.4	757.9	689.3	68.54	11.057	
10,500.0	10,359.7	10,536.6	10,359.7	32.2	37.3	-101.24	158.4	484.4	757.9	689.3	68.60	11.048	
10,600.0	10,459.7	10,636.6	10,459.7	32.3	37.4	-101.24	158.4	484.4	757.9	689.2	68.65	11.039	
10,700.0	10,559.7	10,736.6	10,559.7	32.3	37.4	-101.24	158.4	484.4	757.9	689.2	68.71	11.030	
10,800.0	10,659.7	10,836.6	10,659.7	32.3	37.4	-101.24	158.4	484.4	757.9	689.1	68.77	11.021	
10,900.0	10,759.7	10,936.6	10,759.7	32.4	37.4	-101.24	158.4	484.4	757.9	689.1	68.83	11.011	
11,000.0	10,859.7	11,036.6	10,859.7	32.4	37.4	-101.24	158.4	484.4	757.9	689.0	68.88	11.002	
11,100.0	10,959.7	11,136.6	10,959.7	32.5	37.5	-101.24	158.4	484.4	757.9	688.9	68.94	10.993	
11,200.0	11,059.7	11,236.6	11,059.7	32.5	37.5	-101.24	158.4	484.4	757.9	688.9	69.00	10.983	
11,300.0	11,159.7	11,336.6	11,159.7	32.5	37.5	-101.24	158.4	484.4	757.9	688.8	69.06	10.975	
11,400.0	11,259.7	11,471.6	11,293.3	32.6	37.5	-100.04	174.4	484.3	755.8	686.7	69.03	10.948	
11,482.8	11,342.5	11,573.9	11,388.6	32.6	37.5	-97.28	211.1	484.0	751.2	682.1	69.11	10.869	
11,500.0	11,359.7	11,592.7	11,405.1	32.6	37.5	84.34	220.0	483.9	750.1	681.0	69.13	10.851	
11,525.0	11,384.6	11,617.8	11,426.6	32.6	37.5	85.62	232.9	483.8	748.5	679.3	69.16	10.823	
11,550.0	11,409.4	11,640.1	11,445.2	32.5	37.5	86.91	245.3	483.8	747.0	677.8	69.18	10.797	
11,575.0	11,434.1	11,659.7	11,461.0	32.5	37.5	88.13	256.9	483.7	745.7	676.5	69.21	10.775	
11,600.0	11,458.5	11,676.7	11,474.2	32.5	37.5	89.25	267.4	483.6	744.9	675.7	69.22	10.761	
11,625.0	11,482.6	11,691.1	11,485.3	32.5	37.5	90.21	276.8	483.5	744.5	675.3	69.22	10.756	
11,627.7	11,485.1	11,692.5	11,486.3	32.5	37.5	90.30	277.7	483.5	744.5	675.3	69.22	10.756	
11,650.0	11,506.3	11,703.2	11,494.3	32.4	37.5	90.99	284.9	483.5	744.8	675.6	69.20	10.763	
11,675.0	11,529.5	11,713.2	11,501.6	32.4	37.5	91.58	291.7	483.4	745.7	676.6	69.14	10.785	
11,700.0	11,552.3	11,721.3	11,507.3	32.4	37.5	91.95	297.4	483.4	747.4	678.4	69.06	10.822	
11,725.0	11,574.4	11,727.7	11,511.8	32.3	37.5	92.12	301.9	483.4	749.9	681.0	68.95	10.876	
11,750.0	11,595.9	11,732.6	11,515.2	32.3	37.5	92.08	305.4	483.3	753.2	684.4	68.80	10.948	
11,775.0	11,616.8	11,736.0	11,517.6	32.3	37.6	91.84	307.9	483.3	757.4	688.7	68.61	11.038	
11,800.0	11,636.8	11,738.2	11,519.1	32.3	37.6	91.40	309.5	483.3	762.3	693.9	68.40	11.146	
11,825.0	11,656.1	11,739.3	11,519.9	32.3	37.6	90.78	310.3	483.3	768.1	700.0	68.14	11.272	
11,850.0	11,674.5	11,739.5	11,520.0	32.2	37.6	89.97	310.4	483.3	774.6	706.8	67.86	11.416	
11,875.0	11,692.0	11,738.7	11,519.4	32.2	37.6	89.00	309.9	483.3	781.9	714.4	67.54	11.577	
11,900.0	11,708.6	11,737.2	11,518.4	32.2	37.6	87.87	308.7	483.3	789.9	722.7	67.20	11.754	
11,925.0	11,724.1	11,734.9	11,516.8	32.2	37.5	86.59	307.1	483.3	798.6	731.7	66.84	11.948	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:		ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:			Distance		Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		(usft)	(usft)	(usft)				
11,950.0	11,738.6	11,732.0	11,514.8	32.2	37.5	85.18	305.0	483.3		807.8	741.4	66.46	12.155			
11,975.0	11,752.0	11,725.0	11,509.9	32.2	37.5	83.40	300.0	483.4		817.6	751.5	66.08	12.373			
12,000.0	11,764.3	11,725.0	11,509.9	32.2	37.5	82.06	300.0	483.4		827.9	762.2	65.64	12.612			
12,025.0	11,775.4	11,725.0	11,509.9	32.2	37.5	80.65	300.0	483.4		838.6	773.4	65.19	12.864			
12,050.0	11,785.4	11,715.1	11,502.9	32.2	37.5	78.51	293.1	483.4		849.6	784.8	64.79	13.112			
12,075.0	11,794.1	11,709.8	11,499.1	32.2	37.5	76.67	289.4	483.4		860.9	796.6	64.36	13.377			
12,100.0	11,801.6	11,700.0	11,491.9	32.2	37.5	74.51	282.7	483.5		872.5	808.6	63.95	13.644			
12,125.0	11,807.8	11,700.0	11,491.9	32.2	37.5	72.98	282.7	483.5		884.2	820.8	63.47	13.932			
12,150.0	11,812.8	11,692.0	11,485.9	32.2	37.5	70.96	277.3	483.5		896.1	833.1	63.05	14.214			
12,175.0	11,816.5	11,685.5	11,481.0	32.2	37.5	69.05	273.1	483.6		908.1	845.5	62.61	14.503			
12,200.0	11,818.8	11,675.0	11,473.0	32.2	37.5	66.97	266.4	483.6		920.1	857.9	62.21	14.790			
12,225.0	11,819.9	11,675.0	11,473.0	32.3	37.5	65.48	266.4	483.6		932.0	870.3	61.73	15.097			
12,232.8	11,820.0	11,675.0	11,473.0	32.3	37.5	65.01	266.4	483.6		935.7	874.2	61.59	15.194			
12,300.0	11,820.0	11,650.0	11,453.2	32.4	37.5	64.10	251.0	483.7		968.4	907.9	60.50	16.006			
12,323.2	11,820.0	11,650.0	11,453.2	32.4	37.5	64.22	251.0	483.7		980.1	920.0	60.07	16.316			

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 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation	Factor		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
3,800.0	3,735.1	3,986.0	3,936.5	15.3	15.7	11.84	190.0	1,509.7	973.9	943.6	30.31	32.132	
3,900.0	3,832.3	4,076.5	4,025.0	15.8	16.1	12.01	190.9	1,490.9	931.4	900.3	31.13	29.919	
4,000.0	3,929.5	4,166.9	4,113.5	16.3	16.5	12.19	191.9	1,472.1	888.9	856.9	31.95	27.818	
4,100.0	4,026.8	4,257.4	4,201.9	16.7	16.9	12.39	192.9	1,453.3	846.4	813.6	32.78	25.822	
4,200.0	4,124.0	4,347.9	4,290.4	17.2	17.3	12.61	193.9	1,434.5	803.8	770.2	33.60	23.922	
4,300.0	4,221.2	4,438.3	4,378.9	17.6	17.7	12.86	194.9	1,415.7	761.4	726.9	34.43	22.113	
4,400.0	4,318.5	4,528.8	4,467.4	18.1	18.1	13.14	195.9	1,396.9	718.9	683.6	35.26	20.388	
4,500.0	4,415.7	4,619.3	4,555.9	18.6	18.6	13.45	196.9	1,378.2	676.4	640.3	36.09	18.743	
4,600.0	4,513.0	4,709.7	4,644.4	19.0	19.0	13.80	197.8	1,359.4	634.0	597.0	36.92	17.172	
4,700.0	4,610.2	4,800.2	4,732.9	19.5	19.4	14.20	198.8	1,340.6	591.5	553.8	37.75	15.672	
4,800.0	4,707.4	4,890.7	4,821.4	20.0	19.8	14.66	199.8	1,321.8	549.1	510.6	38.57	14.237	
4,900.0	4,804.7	4,981.2	4,909.9	20.4	20.2	15.20	200.8	1,303.0	506.8	467.4	39.40	12.864	
5,000.0	4,901.9	5,071.6	4,998.4	20.9	20.7	15.84	201.8	1,284.2	464.5	424.2	40.21	11.550	
5,100.0	4,999.1	5,162.1	5,086.9	21.4	21.1	16.61	202.8	1,265.5	422.2	381.2	41.02	10.292	
5,200.0	5,096.4	5,252.6	5,175.4	21.8	21.5	17.55	203.7	1,246.7	380.0	338.2	41.82	9.087	
5,300.0	5,193.6	5,343.0	5,263.9	22.3	21.9	18.72	204.7	1,227.9	337.9	295.3	42.60	7.933	
5,400.0	5,290.8	5,433.5	5,352.4	22.8	22.3	20.22	205.7	1,209.1	296.0	252.7	43.34	6.830	
5,500.0	5,388.1	5,524.0	5,440.9	23.3	22.8	22.20	206.7	1,190.3	254.3	210.3	44.02	5.777	
5,600.0	5,485.3	5,614.5	5,529.4	23.7	23.2	24.96	207.7	1,171.5	212.9	168.4	44.58	4.776	
5,700.0	5,582.6	5,704.9	5,617.8	24.2	23.6	29.00	208.7	1,152.8	172.2	127.3	44.91	3.835	
5,800.0	5,679.8	5,795.4	5,706.3	24.7	24.0	35.42	209.7	1,134.0	132.6	88.0	44.67	2.969	
5,900.0	5,777.0	5,885.9	5,794.8	25.2	24.4	46.75	210.6	1,115.2	95.7	52.8	42.87	2.232	
6,000.0	5,874.3	5,976.3	5,883.3	25.6	24.9	68.68	211.6	1,096.4	66.0	29.4	36.67	1.800 Advise and Monitor, SF	
6,077.9	5,950.0	6,046.8	5,952.2	26.0	25.2	96.49	212.4	1,081.8	56.0	25.5	30.53	1.834 Advise and Monitor, ES	
6,082.3	5,954.3	6,050.8	5,956.1	26.0	25.2	98.21	212.4	1,080.9	56.0	25.5	30.50	1.835 Advise and Monitor, CC	
6,100.0	5,971.5	6,066.8	5,971.8	26.1	25.3	105.16	212.6	1,077.6	56.5	25.5	30.92	1.826 Advise and Monitor	
6,200.0	6,069.0	6,157.8	6,060.8	26.6	25.7	136.92	213.6	1,058.7	74.2	33.8	40.45	1.835 Advise and Monitor	
6,300.0	6,166.9	6,249.5	6,150.5	27.0	26.1	154.03	214.6	1,039.7	104.7	58.2	46.50	2.252	
6,400.0	6,265.2	6,341.9	6,240.9	27.5	26.6	163.17	215.6	1,020.5	138.5	89.0	49.48	2.798	
6,500.0	6,363.7	6,437.4	6,334.4	27.9	27.0	168.61	216.6	1,001.4	171.8	120.4	51.45	3.340	
6,600.0	6,462.5	6,534.7	6,430.1	28.4	27.4	172.03	217.5	983.6	203.0	150.1	52.96	3.834	
6,700.0	6,561.6	6,633.7	6,527.7	28.8	27.9	174.32	218.4	967.1	231.5	177.3	54.24	4.269	
6,800.0	6,660.9	6,734.2	6,627.0	29.2	28.3	175.94	219.2	952.1	257.0	201.6	55.38	4.640	
6,900.0	6,760.4	6,836.0	6,728.0	29.6	28.8	177.12	219.9	938.6	279.3	222.9	56.43	4.949	
7,000.0	6,860.1	6,939.0	6,830.3	30.0	29.2	178.00	220.5	926.8	298.3	240.9	57.41	5.196	
7,100.0	6,959.8	7,042.9	6,933.8	30.4	29.6	178.65	221.0	916.8	314.0	255.7	58.32	5.385	
7,200.0	7,059.7	7,147.7	7,038.2	30.7	30.0	179.13	221.5	908.6	326.3	267.1	59.15	5.516	
7,300.0	7,159.7	7,253.1	7,143.4	31.0	30.4	179.47	221.8	902.3	335.1	275.2	59.90	5.594	
7,400.0	7,259.7	7,358.9	7,249.1	31.3	30.7	179.70	222.0	897.9	340.4	279.9	60.54	5.623	
7,427.9	7,287.5	7,388.5	7,278.7	31.3	30.8	-104.26	222.1	897.0	341.3	280.6	60.67	5.625	
7,500.0	7,359.7	7,464.9	7,355.1	31.3	31.0	-104.18	222.2	895.5	342.7	281.8	60.91	5.627	
7,600.0	7,459.7	7,569.5	7,459.7	31.3	31.2	-104.15	222.2	894.9	343.2	282.1	61.09	5.619	
7,700.0	7,559.7	7,669.5	7,559.7	31.4	31.2	-104.15	222.2	894.9	343.2	282.1	61.14	5.614	
7,800.0	7,659.7	7,769.5	7,659.7	31.4	31.2	-104.15	222.2	894.9	343.2	282.0	61.19	5.609	
7,900.0	7,759.7	7,869.5	7,759.7	31.4	31.2	-104.15	222.2	894.9	343.2	282.0	61.25	5.604	
8,000.0	7,859.7	7,969.5	7,859.7	31.4	31.2	-104.15	222.2	894.9	343.2	281.9	61.30	5.599	
8,100.0	7,959.7	8,069.5	7,959.7	31.5	31.3	-104.15	222.2	894.9	343.2	281.9	61.36	5.594	
8,200.0	8,059.7	8,169.5	8,059.7	31.5	31.3	-104.15	222.2	894.9	343.2	281.8	61.41	5.589	
8,300.0	8,159.7	8,269.5	8,159.7	31.5	31.3	-104.15	222.2	894.9	343.2	281.7	61.47	5.584	
8,400.0	8,259.7	8,369.5	8,259.7	31.6	31.3	-104.15	222.2	894.9	343.2	281.7	61.53	5.578	
8,500.0	8,359.7	8,469.5	8,359.7	31.6	31.4	-104.15	222.2	894.9	343.2	281.6	61.58	5.573	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.0	8,459.7	8,569.5	8,459.7	31.6	31.4	-104.15	222.2	894.9	343.2	281.6	61.64	5.568	
8,700.0	8,559.7	8,669.5	8,559.7	31.7	31.4	-104.15	222.2	894.9	343.2	281.5	61.70	5.563	
8,800.0	8,659.7	8,769.5	8,659.7	31.7	31.5	-104.15	222.2	894.9	343.2	281.5	61.76	5.558	
8,900.0	8,759.7	8,869.5	8,759.7	31.7	31.5	-104.15	222.2	894.9	343.2	281.4	61.81	5.552	
9,000.0	8,859.7	8,969.5	8,859.7	31.7	31.5	-104.15	222.2	894.9	343.2	281.3	61.87	5.547	
9,100.0	8,959.7	9,069.5	8,959.7	31.8	31.5	-104.15	222.2	894.9	343.2	281.3	61.93	5.542	
9,200.0	9,059.7	9,169.5	9,059.7	31.8	31.6	-104.15	222.2	894.9	343.2	281.2	61.99	5.536	
9,300.0	9,159.7	9,269.5	9,159.7	31.8	31.6	-104.15	222.2	894.9	343.2	281.2	62.05	5.531	
9,400.0	9,259.7	9,369.5	9,259.7	31.9	31.6	-104.15	222.2	894.9	343.2	281.1	62.11	5.526	
9,500.0	9,359.7	9,469.5	9,359.7	31.9	31.6	-104.15	222.2	894.9	343.2	281.0	62.17	5.520	
9,600.0	9,459.7	9,569.5	9,459.7	31.9	31.7	-104.15	222.2	894.9	343.2	281.0	62.23	5.515	
9,700.0	9,559.7	9,669.5	9,559.7	32.0	31.7	-104.15	222.2	894.9	343.2	280.9	62.30	5.509	
9,800.0	9,659.7	9,769.5	9,659.7	32.0	31.7	-104.15	222.2	894.9	343.2	280.9	62.36	5.504	
9,900.0	9,759.7	9,869.5	9,759.7	32.0	31.8	-104.15	222.2	894.9	343.2	280.8	62.42	5.498	
10,000.0	9,859.7	9,969.5	9,859.7	32.1	31.8	-104.15	222.2	894.9	343.2	280.7	62.48	5.493	
10,100.0	9,959.7	10,069.5	9,959.7	32.1	31.8	-104.15	222.2	894.9	343.2	280.7	62.55	5.487	
10,200.0	10,059.7	10,169.5	10,059.7	32.1	31.8	-104.15	222.2	894.9	343.2	280.6	62.61	5.482	
10,300.0	10,159.7	10,269.5	10,159.7	32.2	31.9	-104.15	222.2	894.9	343.2	280.5	62.67	5.476	
10,400.0	10,259.7	10,369.5	10,259.7	32.2	31.9	-104.15	222.2	894.9	343.2	280.5	62.74	5.471	
10,500.0	10,359.7	10,469.5	10,359.7	32.2	31.9	-104.15	222.2	894.9	343.2	280.4	62.80	5.465	
10,600.0	10,459.7	10,569.5	10,459.7	32.3	32.0	-104.15	222.2	894.9	343.2	280.3	62.86	5.460	
10,700.0	10,559.7	10,669.5	10,559.7	32.3	32.0	-104.15	222.2	894.9	343.2	280.3	62.93	5.454	
10,800.0	10,659.7	10,769.5	10,659.7	32.3	32.0	-104.15	222.2	894.9	343.2	280.2	63.00	5.448	
10,900.0	10,759.7	10,869.5	10,759.7	32.4	32.1	-104.15	222.2	894.9	343.2	280.2	63.06	5.443	
11,000.0	10,859.7	10,969.5	10,859.7	32.4	32.1	-104.15	222.2	894.9	343.2	280.1	63.13	5.437	
11,100.0	10,959.7	11,069.5	10,959.7	32.5	32.1	-104.15	222.2	894.9	343.2	280.0	63.19	5.431	
11,200.0	11,059.7	11,169.5	11,059.7	32.5	32.1	-104.15	222.2	894.9	343.2	280.0	63.26	5.425	
11,300.0	11,159.7	11,269.5	11,159.7	32.5	32.2	-104.15	222.2	894.9	343.2	279.9	63.33	5.420	
11,400.0	11,259.7	11,369.5	11,259.7	32.6	32.2	-104.15	222.2	894.9	343.2	279.8	63.39	5.414	
11,482.8	11,342.5	11,452.3	11,342.5	32.6	32.2	-104.15	222.2	894.9	343.2	279.8	63.44	5.410	
11,500.0	11,359.7	11,472.4	11,362.5	32.6	32.2	76.77	222.5	894.9	343.1	279.6	63.45	5.407	
11,525.0	11,384.6	11,502.1	11,392.2	32.6	32.2	77.48	224.5	894.9	342.3	278.9	63.49	5.392	
11,550.0	11,409.4	11,530.9	11,420.7	32.5	32.2	78.76	228.1	894.9	341.1	277.5	63.56	5.366	
11,575.0	11,434.1	11,558.2	11,447.6	32.5	32.2	80.53	233.2	894.8	339.4	275.7	63.65	5.332	
11,600.0	11,458.5	11,583.6	11,472.3	32.5	32.2	82.65	239.3	894.8	337.5	273.8	63.74	5.295	
11,625.0	11,482.6	11,607.0	11,494.6	32.5	32.2	84.98	246.1	894.7	335.8	271.9	63.81	5.262	
11,650.0	11,506.3	11,628.0	11,514.5	32.4	32.2	87.35	253.1	894.7	334.4	270.6	63.82	5.239	
11,675.0	11,529.5	11,646.8	11,531.9	32.4	32.2	89.64	260.0	894.6	333.7	269.9	63.75	5.234	
11,681.5	11,535.5	11,651.3	11,536.0	32.4	32.2	90.21	261.8	894.6	333.7	269.9	63.72	5.236	
11,700.0	11,552.3	11,663.2	11,546.9	32.4	32.2	91.73	266.7	894.6	334.0	270.4	63.58	5.252	
11,725.0	11,574.4	11,677.5	11,559.7	32.3	32.2	93.51	272.9	894.6	335.4	272.1	63.29	5.299	
11,750.0	11,595.9	11,689.6	11,570.5	32.3	32.2	94.93	278.5	894.5	338.2	275.3	62.87	5.379	
11,775.0	11,616.8	11,700.0	11,579.6	32.3	32.2	95.97	283.5	894.5	342.5	280.2	62.32	5.496	
11,800.0	11,636.8	11,708.3	11,586.8	32.3	32.2	96.54	287.6	894.5	348.4	286.8	61.66	5.651	
11,825.0	11,656.1	11,715.1	11,592.7	32.3	32.2	96.69	291.1	894.4	355.9	295.0	60.89	5.845	
11,850.0	11,674.5	11,720.5	11,597.3	32.2	32.2	96.40	293.9	894.4	365.0	305.0	60.05	6.078	
11,875.0	11,692.0	11,725.0	11,601.1	32.2	32.2	95.76	296.3	894.4	375.6	316.4	59.16	6.349	
11,900.0	11,708.6	11,725.0	11,601.1	32.2	32.2	94.12	296.3	894.4	387.6	329.3	58.28	6.650	
11,925.0	11,724.1	11,729.1	11,604.5	32.2	32.2	92.94	298.5	894.4	400.8	343.5	57.33	6.991	
11,950.0	11,738.6	11,729.8	11,605.1	32.2	32.2	90.96	298.9	894.4	415.2	358.8	56.43	7.358	
11,975.0	11,752.0	11,729.7	11,605.0	32.2	32.2	88.60	298.8	894.4	430.6	375.0	55.55	7.751	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1													Offset Site Error:		0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11455-r.5 MWD+IFR1+MS													Offset Well Error:		3.0 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Distance			Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
12,000.0	11,764.3	11,725.0	11,601.1	32.2	32.2	85.25	296.3	894.4	446.8	392.0	54.76	8.159				
12,025.0	11,775.4	11,725.0	11,601.1	32.2	32.2	82.51	296.3	894.4	463.7	409.8	53.94	8.596				
12,050.0	11,785.4	11,725.0	11,601.1	32.2	32.2	79.61	296.3	894.4	481.2	428.0	53.15	9.053				
12,075.0	11,794.1	11,725.0	11,601.1	32.2	32.2	76.58	296.3	894.4	499.2	446.8	52.40	9.526				
12,100.0	11,801.6	11,718.4	11,595.5	32.2	32.2	72.45	292.8	894.4	517.4	465.6	51.78	9.993				
12,125.0	11,807.8	11,714.5	11,592.1	32.2	32.2	68.76	290.8	894.4	536.0	484.8	51.15	10.477				
12,150.0	11,812.8	11,710.1	11,588.4	32.2	32.2	65.06	288.6	894.4	554.6	504.1	50.57	10.968				
12,175.0	11,816.5	11,700.0	11,579.6	32.2	32.2	60.78	283.5	894.5	573.4	523.3	50.09	11.447				
12,200.0	11,818.8	11,700.0	11,579.6	32.2	32.2	57.89	283.5	894.5	592.1	542.6	49.50	11.960				
12,225.0	11,819.9	11,700.0	11,579.6	32.3	32.2	55.08	283.5	894.5	610.7	561.8	48.94	12.480				
12,232.8	11,820.0	11,692.9	11,573.4	32.3	32.2	53.53	280.1	894.5	616.5	567.6	48.86	12.617				
12,300.0	11,820.0	11,675.0	11,557.5	32.4	32.2	52.72	271.8	894.6	667.0	619.2	47.74	13.972				
12,323.2	11,820.0	11,675.0	11,557.5	32.4	32.2	53.06	271.8	894.6	684.7	637.4	47.31	14.474				
12,400.0	11,820.0	11,659.6	11,543.6	32.5	32.2	51.61	265.2	894.6	745.1	698.9	46.24	16.114				
12,500.0	11,820.0	11,650.0	11,534.8	32.7	32.2	50.73	261.3	894.6	827.1	782.1	45.05	18.361				
12,600.0	11,820.0	11,625.0	11,511.6	32.9	32.2	48.50	252.0	894.7	912.1	867.7	44.32	20.581				
12,700.0	11,820.0	11,625.0	11,511.6	33.1	32.2	48.50	252.0	894.7	999.4	955.8	43.53	22.959				

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
4,300.0	4,221.2	4,377.5	4,354.2	17.6	16.4	10.94	229.3	1,626.7	966.5	933.2	33.30	29.026	
4,400.0	4,318.5	4,470.7	4,446.5	18.1	16.8	11.09	230.4	1,613.8	930.4	896.3	34.11	27.274	
4,500.0	4,415.7	4,563.9	4,538.9	18.6	17.2	11.25	231.5	1,600.9	894.3	859.3	34.93	25.601	
4,600.0	4,513.0	4,657.2	4,631.2	19.0	17.6	11.42	232.7	1,588.0	858.2	822.4	35.75	24.005	
4,700.0	4,610.2	4,750.4	4,723.5	19.5	18.0	11.60	233.8	1,575.0	822.1	785.5	36.57	22.479	
4,800.0	4,707.4	4,843.6	4,815.8	20.0	18.4	11.81	234.9	1,562.1	786.0	748.6	37.39	21.020	
4,900.0	4,804.7	4,936.8	4,908.1	20.4	18.8	12.03	236.1	1,549.2	749.9	711.7	38.21	19.624	
5,000.0	4,901.9	5,030.0	5,000.4	20.9	19.1	12.27	237.2	1,536.3	713.8	674.7	39.03	18.286	
5,100.0	4,999.1	5,123.3	5,092.7	21.4	19.5	12.54	238.3	1,523.3	677.7	637.9	39.86	17.004	
5,200.0	5,096.4	5,216.5	5,185.0	21.8	19.9	12.85	239.4	1,510.4	641.7	601.0	40.68	15.774	
5,300.0	5,193.6	5,309.7	5,277.4	22.3	20.3	13.18	240.6	1,497.5	605.6	564.1	41.50	14.594	
5,400.0	5,290.8	5,402.9	5,369.7	22.8	20.7	13.56	241.7	1,484.6	569.6	527.3	42.32	13.460	
5,500.0	5,388.1	5,496.1	5,462.0	23.3	21.1	13.99	242.8	1,471.6	533.6	490.5	43.14	12.370	
5,600.0	5,485.3	5,589.4	5,554.3	23.7	21.5	14.49	244.0	1,458.7	497.7	453.7	43.95	11.323	
5,700.0	5,582.6	5,682.6	5,646.6	24.2	21.9	15.06	245.1	1,445.8	461.7	417.0	44.76	10.316	
5,800.0	5,679.8	5,775.8	5,738.9	24.7	22.3	15.72	246.2	1,432.9	425.9	380.3	45.56	9.347	
5,900.0	5,777.0	5,869.0	5,831.2	25.2	22.7	16.51	247.4	1,419.9	390.0	343.7	46.35	8.415	
6,000.0	5,874.3	5,962.2	5,923.5	25.6	23.1	17.45	248.5	1,407.0	354.3	307.2	47.13	7.518	
6,077.9	5,950.0	6,034.8	5,995.4	26.0	23.4	18.33	249.4	1,396.9	326.5	278.8	47.71	6.844	
6,100.0	5,971.5	6,055.5	6,015.9	26.1	23.5	18.58	249.6	1,394.1	318.7	270.8	47.87	6.658	
6,200.0	6,069.0	6,148.7	6,108.2	26.6	23.9	19.81	250.8	1,381.2	284.3	235.7	48.59	5.852	
6,300.0	6,166.9	6,239.0	6,197.7	27.0	24.3	21.18	251.8	1,369.5	252.6	203.2	49.35	5.118	
6,400.0	6,265.2	6,330.8	6,288.9	27.5	24.6	22.79	252.7	1,359.1	224.0	174.0	50.04	4.477	
6,500.0	6,363.7	6,423.8	6,381.5	27.9	25.0	24.66	253.5	1,350.0	198.8	148.2	50.63	3.927	
6,600.0	6,462.5	6,518.1	6,475.4	28.4	25.4	26.78	254.2	1,342.3	177.0	126.0	51.10	3.465	
6,700.0	6,561.6	6,613.4	6,570.5	28.8	25.7	29.11	254.7	1,336.1	158.7	107.3	51.42	3.086	
6,800.0	6,660.9	6,709.5	6,666.6	29.2	26.0	31.57	255.1	1,331.5	143.7	92.1	51.58	2.786	
6,900.0	6,760.4	6,806.4	6,763.4	29.6	26.3	34.02	255.4	1,328.4	132.2	80.6	51.62	2.561	
7,000.0	6,860.1	6,903.8	6,860.8	30.0	26.6	36.25	255.5	1,327.0	124.0	72.4	51.56	2.404	
7,100.0	6,959.8	7,002.9	6,959.8	30.4	26.6	38.10	255.5	1,326.9	118.6	67.3	51.33	2.310	
7,200.0	7,059.7	7,102.7	7,059.7	30.7	26.7	39.57	255.5	1,326.9	114.8	63.7	51.15	2.245	
7,300.0	7,159.7	7,202.7	7,159.7	31.0	26.7	40.56	255.5	1,326.9	112.4	61.4	51.07	2.201	
7,400.0	7,259.7	7,302.7	7,259.7	31.3	26.7	41.00	255.5	1,326.9	111.4	60.3	51.13	2.179	
7,427.9	7,287.5	7,330.6	7,287.5	31.3	26.7	117.03	255.5	1,326.9	111.4	60.2	51.16	2.177	
7,500.0	7,359.7	7,402.7	7,359.7	31.3	26.7	117.03	255.5	1,326.9	111.4	60.2	51.20	2.175	
7,600.0	7,459.7	7,502.7	7,459.7	31.3	26.8	117.03	255.5	1,326.9	111.4	60.1	51.27	2.172	
7,700.0	7,559.7	7,602.7	7,559.7	31.4	26.8	117.03	255.5	1,326.9	111.4	60.0	51.34	2.169	
7,800.0	7,659.7	7,702.7	7,659.7	31.4	26.8	117.03	255.5	1,326.9	111.4	59.9	51.41	2.166	
7,900.0	7,759.7	7,802.7	7,759.7	31.4	26.9	117.03	255.5	1,326.9	111.4	59.9	51.48	2.163	
8,000.0	7,859.7	7,902.7	7,859.7	31.4	26.9	117.03	255.5	1,326.9	111.4	59.8	51.55	2.160	
8,100.0	7,959.7	8,002.7	7,959.7	31.5	26.9	117.03	255.5	1,326.9	111.4	59.7	51.62	2.157	
8,200.0	8,059.7	8,102.7	8,059.7	31.5	27.0	117.03	255.5	1,326.9	111.4	59.7	51.69	2.154	
8,300.0	8,159.7	8,202.7	8,159.7	31.5	27.0	117.03	255.5	1,326.9	111.4	59.6	51.77	2.151	
8,400.0	8,259.7	8,302.7	8,259.7	31.6	27.0	117.03	255.5	1,326.9	111.4	59.5	51.84	2.148	
8,500.0	8,359.7	8,402.7	8,359.7	31.6	27.1	117.03	255.5	1,326.9	111.4	59.4	51.91	2.145	
8,600.0	8,459.7	8,502.7	8,459.7	31.6	27.1	117.03	255.5	1,326.9	111.4	59.4	51.99	2.142	
8,700.0	8,559.7	8,602.7	8,559.7	31.7	27.1	117.03	255.5	1,326.9	111.4	59.3	52.06	2.139	
8,800.0	8,659.7	8,702.7	8,659.7	31.7	27.2	117.03	255.5	1,326.9	111.4	59.2	52.13	2.136	
8,900.0	8,759.7	8,802.7	8,759.7	31.7	27.2	117.03	255.5	1,326.9	111.4	59.1	52.21	2.133	
9,000.0	8,859.7	8,902.7	8,859.7	31.7	27.2	117.03	255.5	1,326.9	111.4	59.1	52.28	2.130	
9,100.0	8,959.7	9,002.7	8,959.7	31.8	27.3	117.03	255.5	1,326.9	111.4	59.0	52.36	2.127	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-r.5 MWD+IFR1+MS				Offset		Rule Assigned:			Offset Well Error:		3.0 usft			
Reference		Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,200.0	9,059.7	9,102.7	9,059.7	31.8	27.3	117.03	255.5	1,326.9	111.4	58.9	52.44	2.124		
9,300.0	9,159.7	9,202.7	9,159.7	31.8	27.3	117.03	255.5	1,326.9	111.4	58.8	52.51	2.120		
9,400.0	9,259.7	9,302.7	9,259.7	31.9	27.4	117.03	255.5	1,326.9	111.4	58.8	52.59	2.117		
9,500.0	9,359.7	9,402.7	9,359.7	31.9	27.4	117.03	255.5	1,326.9	111.4	58.7	52.67	2.114		
9,600.0	9,459.7	9,502.7	9,459.7	31.9	27.4	117.03	255.5	1,326.9	111.4	58.6	52.74	2.111		
9,700.0	9,559.7	9,602.7	9,559.7	32.0	27.5	117.03	255.5	1,326.9	111.4	58.5	52.82	2.108		
9,800.0	9,659.7	9,702.7	9,659.7	32.0	27.5	117.03	255.5	1,326.9	111.4	58.5	52.90	2.105		
9,900.0	9,759.7	9,802.7	9,759.7	32.0	27.5	117.03	255.5	1,326.9	111.4	58.4	52.98	2.102		
10,000.0	9,859.7	9,902.7	9,859.7	32.1	27.6	117.03	255.5	1,326.9	111.4	58.3	53.06	2.099		
10,100.0	9,959.7	10,002.7	9,959.7	32.1	27.6	117.03	255.5	1,326.9	111.4	58.2	53.14	2.096		
10,200.0	10,059.7	10,102.7	10,059.7	32.1	27.6	117.03	255.5	1,326.9	111.4	58.1	53.22	2.092		
10,300.0	10,159.7	10,202.7	10,159.7	32.2	27.7	117.03	255.5	1,326.9	111.4	58.1	53.30	2.089		
10,400.0	10,259.7	10,302.7	10,259.7	32.2	27.7	117.03	255.5	1,326.9	111.4	58.0	53.38	2.086		
10,500.0	10,359.7	10,402.7	10,359.7	32.2	27.7	117.03	255.5	1,326.9	111.4	57.9	53.46	2.083		
10,600.0	10,459.7	10,502.7	10,459.7	32.3	27.8	117.03	255.5	1,326.9	111.4	57.8	53.54	2.080		
10,700.0	10,559.7	10,602.7	10,559.7	32.3	27.8	117.03	255.5	1,326.9	111.4	57.7	53.62	2.077		
10,800.0	10,659.7	10,702.7	10,659.7	32.3	27.9	117.03	255.5	1,326.9	111.4	57.6	53.70	2.074		
10,900.0	10,759.7	10,802.7	10,759.7	32.4	27.9	117.03	255.5	1,326.9	111.4	57.6	53.78	2.070		
11,000.0	10,859.7	10,902.7	10,859.7	32.4	27.9	117.03	255.5	1,326.9	111.4	57.5	53.87	2.067		
11,100.0	10,959.7	11,002.7	10,959.7	32.5	28.0	117.03	255.5	1,326.9	111.4	57.4	53.95	2.064		
11,200.0	11,059.7	11,102.7	11,059.7	32.5	28.0	117.03	255.5	1,326.9	111.4	57.3	54.03	2.061		
11,300.0	11,159.7	11,202.7	11,159.7	32.5	28.0	117.03	255.5	1,326.9	111.4	57.2	54.12	2.058		
11,400.0	11,259.7	11,312.0	11,268.3	32.6	28.1	112.22	265.6	1,326.8	107.4	52.0	55.44	1.937	Advise and Monitor	
11,482.8	11,342.5	11,396.8	11,349.3	32.6	28.1	99.13	290.2	1,326.6	100.4	41.9	58.42	1.718	Advise and Monitor	
11,500.0	11,359.7	11,412.9	11,364.2	32.6	28.1	-83.94	296.5	1,326.5	99.3	40.3	59.03	1.683	Advise and Monitor	
11,523.4	11,383.0	11,433.7	11,383.0	32.6	28.1	-89.76	305.4	1,326.4	98.7	39.0	59.68	1.654	Advise and Monitor, CC	
11,525.0	11,384.6	11,435.1	11,384.2	32.6	28.1	-90.18	306.0	1,326.4	98.7	39.0	59.72	1.653	Advise and Monitor, ES, SF	
11,550.0	11,409.4	11,455.4	11,402.1	32.5	28.1	-96.66	315.4	1,326.4	99.8	39.9	59.91	1.666	Advise and Monitor	
11,575.0	11,434.1	11,473.7	11,418.0	32.5	28.1	-102.81	324.6	1,326.3	103.4	44.0	59.42	1.741	Advise and Monitor	
11,600.0	11,458.5	11,490.1	11,431.9	32.5	28.1	-108.22	333.4	1,326.2	110.0	51.7	58.25	1.888	Advise and Monitor	
11,625.0	11,482.6	11,504.5	11,443.8	32.5	28.1	-112.62	341.5	1,326.1	119.6	62.9	56.65	2.111		
11,650.0	11,506.3	11,517.1	11,454.1	32.4	28.1	-115.93	348.8	1,326.0	132.1	77.2	54.91	2.406		
11,675.0	11,529.5	11,527.9	11,462.7	32.4	28.1	-118.13	355.3	1,326.0	147.1	93.9	53.29	2.761		
11,700.0	11,552.3	11,537.0	11,469.8	32.4	28.1	-119.24	360.9	1,325.9	164.3	112.4	51.88	3.167		
11,725.0	11,574.4	11,544.6	11,475.7	32.3	28.1	-119.27	365.7	1,325.9	183.2	132.5	50.73	3.611		
11,750.0	11,595.9	11,550.0	11,479.8	32.3	28.1	-117.88	369.2	1,325.9	203.5	153.6	49.85	4.081		
11,775.0	11,616.8	11,555.6	11,484.0	32.3	28.1	-115.94	372.8	1,325.8	224.8	175.7	49.09	4.579		
11,800.0	11,636.8	11,559.2	11,486.8	32.3	28.1	-112.37	375.2	1,325.8	247.0	198.4	48.52	5.090		
11,825.0	11,656.1	11,561.8	11,488.7	32.3	28.1	-107.35	376.9	1,325.8	269.8	221.7	48.07	5.612		
11,850.0	11,674.5	11,563.3	11,489.8	32.2	28.1	-100.73	378.0	1,325.8	293.1	245.4	47.70	6.143		
11,875.0	11,692.0	11,564.0	11,490.3	32.2	28.1	-92.52	378.4	1,325.8	316.7	269.3	47.40	6.680		
11,900.0	11,708.6	11,563.8	11,490.2	32.2	28.1	-82.98	378.3	1,325.8	340.5	293.4	47.15	7.221		
11,925.0	11,724.1	11,562.9	11,489.5	32.2	28.1	-72.74	377.7	1,325.8	364.5	317.5	46.94	7.765		
11,950.0	11,738.6	11,561.3	11,488.4	32.2	28.1	-62.65	376.7	1,325.8	388.4	341.7	46.75	8.309		
11,975.0	11,752.0	11,559.1	11,486.7	32.2	28.1	-53.44	375.2	1,325.8	412.3	365.8	46.57	8.853		
12,000.0	11,764.3	11,556.4	11,484.7	32.2	28.1	-45.51	373.4	1,325.8	436.1	389.7	46.41	9.396		
12,025.0	11,775.4	11,550.0	11,479.8	32.2	28.1	-38.26	369.2	1,325.9	459.7	413.4	46.35	9.918		
12,050.0	11,785.4	11,550.0	11,479.8	32.2	28.1	-33.67	369.2	1,325.9	483.1	437.0	46.11	10.477		
12,075.0	11,794.1	11,550.0	11,479.8	32.2	28.1	-29.85	369.2	1,325.9	506.2	460.3	45.86	11.038		
12,100.0	11,801.6	11,540.7	11,472.7	32.2	28.1	-25.68	363.2	1,325.9	528.9	483.0	45.84	11.538		
12,125.0	11,807.8	11,535.8	11,468.8	32.2	28.1	-22.79	360.1	1,325.9	551.2	505.5	45.70	12.062		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11214-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Rule Assigned:														
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
12,150.0	11,812.8	11,525.0	11,460.4	32.2	28.1	-20.06	353.5	1,326.0	573.2	527.5	45.68	12.547		
12,175.0	11,816.5	11,525.0	11,460.4	32.2	28.1	-18.41	353.5	1,326.0	594.6	549.2	45.41	13.095		
12,200.0	11,818.8	11,525.0	11,460.4	32.2	28.1	-16.99	353.5	1,326.0	615.7	570.6	45.13	13.643		
12,225.0	11,819.9	11,513.1	11,450.8	32.3	28.1	-15.34	346.4	1,326.1	636.1	591.0	45.11	14.102		
12,232.8	11,820.0	11,511.1	11,449.2	32.3	28.1	-14.94	345.3	1,326.1	642.4	597.4	45.06	14.258		
12,300.0	11,820.0	11,500.0	11,440.1	32.4	28.1	-12.78	338.9	1,326.1	697.2	652.6	44.59	15.634		
12,323.2	11,820.0	11,489.9	11,431.7	32.4	28.1	-11.86	333.3	1,326.2	716.3	671.8	44.58	16.069		
12,400.0	11,820.0	11,475.0	11,419.1	32.5	28.1	-11.52	325.3	1,326.3	781.0	736.8	44.22	17.661		
12,500.0	11,820.0	11,450.0	11,397.4	32.7	28.1	-10.99	312.9	1,326.4	867.2	823.3	43.96	19.726		
12,600.0	11,820.0	11,439.2	11,387.9	32.9	28.1	-10.77	307.8	1,326.4	955.1	911.6	43.55	21.930		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11357-r.5 MWD+IFR1+MS		Reference Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,600.0	4,513.0	4,567.6	4,557.0	19.0	16.3	9.79	263.0	1,722.4	987.2	952.3	34.89	28.294		
4,700.0	4,610.2	4,650.2	4,639.5	19.5	16.5	9.95	263.4	1,719.2	960.5	924.8	35.66	26.937		
4,800.0	4,707.4	4,733.4	4,722.7	20.0	16.8	10.14	263.7	1,717.3	935.2	898.8	36.40	25.692		
4,900.0	4,804.7	4,817.1	4,806.5	20.4	17.0	10.35	263.8	1,716.5	911.3	874.2	37.10	24.566		
5,000.0	4,901.9	4,912.6	4,901.9	20.9	17.0	10.62	263.8	1,716.5	888.4	850.7	37.63	23.605		
5,100.0	4,999.1	5,009.8	4,999.1	21.4	17.0	10.90	263.8	1,716.5	865.4	827.2	38.17	22.671		
5,200.0	5,096.4	5,107.1	5,096.4	21.8	17.1	11.20	263.8	1,716.5	842.5	803.7	38.71	21.762		
5,300.0	5,193.6	5,204.3	5,193.6	22.3	17.1	11.52	263.8	1,716.5	819.5	780.3	39.25	20.878		
5,400.0	5,290.8	5,301.5	5,290.8	22.8	17.2	11.86	263.8	1,716.5	796.7	756.9	39.80	20.018		
5,500.0	5,388.1	5,398.8	5,388.1	23.3	17.2	12.21	263.8	1,716.5	773.8	733.5	40.34	19.181		
5,600.0	5,485.3	5,496.0	5,485.3	23.7	17.3	12.59	263.8	1,716.5	751.0	710.1	40.89	18.367		
5,700.0	5,582.6	5,593.2	5,582.6	24.2	17.3	12.99	263.8	1,716.5	728.2	686.7	41.43	17.575		
5,800.0	5,679.8	5,690.5	5,679.8	24.7	17.4	13.41	263.8	1,716.5	705.4	663.4	41.98	16.806		
5,900.0	5,777.0	5,787.7	5,777.0	25.2	17.4	13.87	263.8	1,716.5	682.7	640.2	42.52	16.057		
6,000.0	5,874.3	5,885.0	5,874.3	25.6	17.4	14.35	263.8	1,716.5	660.0	617.0	43.06	15.329		
6,077.9	5,950.0	5,960.7	5,950.0	26.0	17.5	14.75	263.8	1,716.5	642.4	598.9	43.47	14.779		
6,100.0	5,971.5	5,982.2	5,971.5	26.1	17.5	14.86	263.8	1,716.5	637.4	593.9	43.58	14.627		
6,200.0	6,069.0	6,079.7	6,069.0	26.6	17.5	15.32	263.8	1,716.5	616.0	571.9	44.11	13.966		
6,300.0	6,166.9	6,177.6	6,166.9	27.0	17.6	15.79	263.8	1,716.5	596.3	551.7	44.63	13.363		
6,400.0	6,265.2	6,275.9	6,265.2	27.5	17.6	16.24	263.8	1,716.5	578.3	533.2	45.13	12.814		
6,500.0	6,363.7	6,374.4	6,363.7	27.9	17.7	16.67	263.8	1,716.5	562.0	516.4	45.63	12.318		
6,600.0	6,462.5	6,473.2	6,462.5	28.4	17.7	17.09	263.8	1,716.5	547.4	501.3	46.11	11.872		
6,700.0	6,561.6	6,572.3	6,561.6	28.8	17.8	17.48	263.8	1,716.5	534.5	487.9	46.58	11.474		
6,800.0	6,660.9	6,671.6	6,660.9	29.2	17.8	17.83	263.8	1,716.5	523.2	476.2	47.04	11.124		
6,900.0	6,760.4	6,771.1	6,760.4	29.6	17.9	18.14	263.8	1,716.5	513.6	466.2	47.48	10.818		
7,000.0	6,860.1	6,870.7	6,860.1	30.0	17.9	18.41	263.8	1,716.5	505.7	457.8	47.91	10.556		
7,100.0	6,959.8	6,970.5	6,959.8	30.4	18.0	18.63	263.8	1,716.5	499.5	451.2	48.32	10.337		
7,200.0	7,059.7	7,070.4	7,059.7	30.7	18.0	18.79	263.8	1,716.5	494.9	446.2	48.71	10.160		
7,300.0	7,159.7	7,170.4	7,159.7	31.0	18.1	18.90	263.8	1,716.5	492.0	442.9	49.07	10.025		
7,400.0	7,259.7	7,270.4	7,259.7	31.3	18.1	18.95	263.8	1,716.5	490.7	441.3	49.38	9.937		
7,427.9	7,287.5	7,298.2	7,287.5	31.3	18.1	94.95	263.8	1,716.5	490.6	441.2	49.42	9.927		
7,500.0	7,359.7	7,370.4	7,359.7	31.3	18.2	94.95	263.8	1,716.5	490.6	441.1	49.46	9.918		
7,600.0	7,459.7	7,470.4	7,459.7	31.3	18.2	94.95	263.8	1,716.5	490.6	441.1	49.54	9.904		
7,700.0	7,559.7	7,570.4	7,559.7	31.4	18.3	94.95	263.8	1,716.5	490.6	441.0	49.61	9.889		
7,800.0	7,659.7	7,670.4	7,659.7	31.4	18.3	94.95	263.8	1,716.5	490.6	440.9	49.68	9.875		
7,900.0	7,759.7	7,770.4	7,759.7	31.4	18.4	94.95	263.8	1,716.5	490.6	440.8	49.76	9.860		
8,000.0	7,859.7	7,870.4	7,859.7	31.4	18.4	94.95	263.8	1,716.5	490.6	440.8	49.83	9.845		
8,100.0	7,959.7	7,970.4	7,959.7	31.5	18.5	94.95	263.8	1,716.5	490.6	440.7	49.91	9.831		
8,200.0	8,059.7	8,070.4	8,059.7	31.5	18.5	94.95	263.8	1,716.5	490.6	440.6	49.98	9.816		
8,300.0	8,159.7	8,170.4	8,159.7	31.5	18.6	94.95	263.8	1,716.5	490.6	440.5	50.06	9.801		
8,400.0	8,259.7	8,270.4	8,259.7	31.6	18.7	94.95	263.8	1,716.5	490.6	440.5	50.13	9.786		
8,500.0	8,359.7	8,370.4	8,359.7	31.6	18.7	94.95	263.8	1,716.5	490.6	440.4	50.21	9.771		
8,600.0	8,459.7	8,470.4	8,459.7	31.6	18.8	94.95	263.8	1,716.5	490.6	440.3	50.29	9.756		
8,700.0	8,559.7	8,570.4	8,559.7	31.7	18.8	94.95	263.8	1,716.5	490.6	440.2	50.36	9.741		
8,800.0	8,659.7	8,670.4	8,659.7	31.7	18.9	94.95	263.8	1,716.5	490.6	440.2	50.44	9.726		
8,900.0	8,759.7	8,770.4	8,759.7	31.7	18.9	94.95	263.8	1,716.5	490.6	440.1	50.52	9.711		
9,000.0	8,859.7	8,870.4	8,859.7	31.7	19.0	94.95	263.8	1,716.5	490.6	440.0	50.60	9.696		
9,100.0	8,959.7	8,970.4	8,959.7	31.8	19.0	94.95	263.8	1,716.5	490.6	439.9	50.68	9.681		
9,200.0	9,059.7	9,070.4	9,059.7	31.8	19.1	94.95	263.8	1,716.5	490.6	439.8	50.75	9.666		
9,300.0	9,159.7	9,170.4	9,159.7	31.8	19.1	94.95	263.8	1,716.5	490.6	439.8	50.83	9.651		
9,400.0	9,259.7	9,270.4	9,259.7	31.9	19.2	94.95	263.8	1,716.5	490.6	439.7	50.91	9.636		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11357-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
9,500.0	9,359.7	9,370.4	9,359.7	31.9	19.2	94.95	263.8	1,716.5	490.6	439.6	50.99	9.621			
9,600.0	9,459.7	9,470.4	9,459.7	31.9	19.3	94.95	263.8	1,716.5	490.6	439.5	51.08	9.605			
9,700.0	9,559.7	9,570.4	9,559.7	32.0	19.4	94.95	263.8	1,716.5	490.6	439.4	51.16	9.590			
9,800.0	9,659.7	9,670.4	9,659.7	32.0	19.4	94.95	263.8	1,716.5	490.6	439.4	51.24	9.575			
9,900.0	9,759.7	9,770.4	9,759.7	32.0	19.5	94.95	263.8	1,716.5	490.6	439.3	51.32	9.560			
10,000.0	9,859.7	9,870.4	9,859.7	32.1	19.5	94.95	263.8	1,716.5	490.6	439.2	51.40	9.544			
10,100.0	9,959.7	9,970.4	9,959.7	32.1	19.6	94.95	263.8	1,716.5	490.6	439.1	51.48	9.529			
10,200.0	10,059.7	10,070.4	10,059.7	32.1	19.6	94.95	263.8	1,716.5	490.6	439.0	51.57	9.514			
10,300.0	10,159.7	10,170.4	10,159.7	32.2	19.7	94.95	263.8	1,716.5	490.6	439.0	51.65	9.498			
10,400.0	10,259.7	10,270.4	10,259.7	32.2	19.8	94.95	263.8	1,716.5	490.6	438.9	51.73	9.483			
10,500.0	10,359.7	10,370.4	10,359.7	32.2	19.8	94.95	263.8	1,716.5	490.6	438.8	51.82	9.468			
10,600.0	10,459.7	10,470.4	10,459.7	32.3	19.9	94.95	263.8	1,716.5	490.6	438.7	51.90	9.452			
10,700.0	10,559.7	10,570.4	10,559.7	32.3	19.9	94.95	263.8	1,716.5	490.6	438.6	51.99	9.437			
10,800.0	10,659.7	10,670.4	10,659.7	32.3	20.0	94.95	263.8	1,716.5	490.6	438.5	52.07	9.421			
10,900.0	10,759.7	10,770.4	10,759.7	32.4	20.0	94.95	263.8	1,716.5	490.6	438.4	52.16	9.406			
11,000.0	10,859.7	10,870.4	10,859.7	32.4	20.1	94.95	263.8	1,716.5	490.6	438.4	52.24	9.390			
11,100.0	10,959.7	10,970.4	10,959.7	32.5	20.2	94.95	263.8	1,716.5	490.6	438.3	52.33	9.375			
11,200.0	11,059.7	11,070.4	11,059.7	32.5	20.2	94.95	263.8	1,716.5	490.6	438.2	52.42	9.360			
11,300.0	11,159.7	11,170.4	11,159.7	32.5	20.3	94.95	263.8	1,716.5	490.6	438.1	52.50	9.344			
11,400.0	11,259.7	11,270.4	11,259.7	32.6	20.3	94.95	263.8	1,716.5	490.6	438.0	52.59	9.328			
11,482.8	11,342.5	11,353.2	11,342.5	32.6	20.4	94.95	263.8	1,716.5	490.6	438.0	52.65	9.319			
11,500.0	11,359.7	11,371.7	11,361.0	32.6	20.4	-84.32	264.0	1,716.5	490.6	437.9	52.65	9.318			
11,525.0	11,384.6	11,399.0	11,388.3	32.6	20.4	-84.74	265.6	1,716.5	490.3	437.6	52.68	9.306			
11,550.0	11,409.4	11,425.6	11,414.7	32.5	20.4	-85.50	268.6	1,716.4	489.8	437.0	52.76	9.284			
11,575.0	11,434.1	11,450.9	11,439.6	32.5	20.4	-86.54	272.9	1,716.4	489.2	436.3	52.88	9.252			
11,600.0	11,458.5	11,474.7	11,462.8	32.5	20.4	-87.79	278.1	1,716.4	488.7	435.7	53.02	9.217			
11,625.0	11,482.6	11,496.6	11,484.0	32.5	20.4	-89.16	284.0	1,716.3	488.3	435.2	53.18	9.182			
11,636.5	11,493.5	11,506.0	11,492.9	32.4	20.4	-89.80	286.8	1,716.3	488.3	435.0	53.26	9.168 CC			
11,650.0	11,506.3	11,516.6	11,503.0	32.4	20.4	-90.55	290.1	1,716.3	488.4	435.0	53.35	9.154 ES			
11,675.0	11,529.5	11,534.6	11,519.8	32.4	20.4	-91.88	296.3	1,716.3	488.9	435.4	53.51	9.137			
11,700.0	11,552.3	11,550.0	11,534.1	32.4	20.4	-93.04	302.2	1,716.2	490.2	436.5	53.66	9.135 SF			
11,725.0	11,574.4	11,564.4	11,547.3	32.3	20.4	-94.11	308.0	1,716.2	492.3	438.5	53.77	9.155			
11,750.0	11,595.9	11,575.0	11,556.8	32.3	20.4	-94.76	312.6	1,716.1	495.4	441.5	53.87	9.196			
11,775.0	11,616.8	11,586.7	11,567.3	32.3	20.4	-95.44	317.8	1,716.1	499.5	445.6	53.90	9.266			
11,800.0	11,636.8	11,595.3	11,574.9	32.3	20.4	-95.70	321.9	1,716.1	504.7	450.8	53.91	9.362			
11,825.0	11,656.1	11,600.0	11,579.0	32.3	20.4	-95.42	324.2	1,716.1	511.1	457.2	53.90	9.481			
11,850.0	11,674.5	11,608.0	11,585.9	32.2	20.4	-95.36	328.1	1,716.0	518.6	464.8	53.80	9.638			
11,875.0	11,692.0	11,612.3	11,589.7	32.2	20.4	-94.75	330.3	1,716.0	527.2	473.5	53.69	9.819			
11,900.0	11,708.6	11,615.5	11,592.4	32.2	20.4	-93.85	331.9	1,716.0	536.9	483.4	53.55	10.026			
11,925.0	11,724.1	11,617.7	11,594.2	32.2	20.4	-92.67	333.0	1,716.0	547.7	494.3	53.38	10.260			
11,950.0	11,738.6	11,618.8	11,595.2	32.2	20.4	-91.22	333.6	1,716.0	559.4	506.2	53.19	10.518			
11,975.0	11,752.0	11,619.1	11,595.5	32.2	20.4	-89.50	333.8	1,716.0	572.0	519.0	52.97	10.798			
12,000.0	11,764.3	11,618.6	11,595.0	32.2	20.4	-87.54	333.5	1,716.0	585.4	532.6	52.74	11.099			
12,025.0	11,775.4	11,617.3	11,594.0	32.2	20.4	-85.36	332.9	1,716.0	599.4	546.9	52.50	11.419			
12,050.0	11,785.4	11,615.5	11,592.4	32.2	20.4	-82.98	331.9	1,716.0	614.1	561.9	52.24	11.755			
12,075.0	11,794.1	11,613.0	11,590.2	32.2	20.4	-80.42	330.6	1,716.0	629.3	577.3	51.99	12.105			
12,100.0	11,801.6	11,609.9	11,587.6	32.2	20.4	-77.74	329.1	1,716.0	644.9	593.2	51.72	12.469			
12,125.0	11,807.8	11,606.4	11,584.6	32.2	20.4	-74.95	327.3	1,716.0	660.9	609.4	51.46	12.842			
12,150.0	11,812.8	11,600.0	11,579.0	32.2	20.4	-71.85	324.2	1,716.1	677.1	625.8	51.24	13.215			
12,175.0	11,816.5	11,600.0	11,579.0	32.2	20.4	-69.40	324.2	1,716.1	693.4	642.5	50.90	13.625			
12,200.0	11,818.8	11,593.2	11,573.1	32.2	20.4	-66.34	320.9	1,716.1	709.9	659.2	50.67	14.011			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:		ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1											Offset Site Error:		0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11357-r.5 MWD+IFR1+MS											Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance						
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
12,225.0	11,819.9	11,588.1	11,568.5	32.3	20.4	-63.50	318.5	1,716.1	726.4	676.0	50.41	14.410				
12,232.8	11,820.0	11,586.5	11,567.1	32.3	20.4	-62.63	317.7	1,716.1	731.6	681.2	50.33	14.537				
12,300.0	11,820.0	11,575.0	11,556.8	32.4	20.4	-61.09	312.6	1,716.1	777.7	728.1	49.62	15.673				
12,323.2	11,820.0	11,575.0	11,556.8	32.4	20.4	-60.85	312.6	1,716.1	794.5	745.2	49.33	16.106				
12,400.0	11,820.0	11,550.0	11,534.1	32.5	20.4	-58.80	302.2	1,716.2	851.9	803.1	48.84	17.443				
12,500.0	11,820.0	11,539.9	11,524.8	32.7	20.4	-57.99	298.3	1,716.2	930.2	882.3	47.94	19.404				

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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 #712H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11167-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,400.0	6,265.2	6,260.4	6,265.2	27.5	10.3	15.53	261.5	2,127.7	989.5	949.0	40.54	24.408		
6,500.0	6,363.7	6,358.9	6,363.7	27.9	10.4	15.76	261.5	2,127.7	973.1	932.0	41.12	23.665		
6,600.0	6,462.5	6,457.8	6,462.5	28.4	10.5	15.96	261.5	2,127.7	958.4	916.7	41.69	22.990		
6,700.0	6,561.6	6,556.8	6,561.6	28.8	10.6	16.15	261.5	2,127.7	945.4	903.2	42.24	22.380		
6,800.0	6,660.9	6,656.1	6,660.9	29.2	10.7	16.32	261.5	2,127.7	934.1	891.3	42.78	21.833		
6,900.0	6,760.4	6,755.6	6,760.4	29.6	10.8	16.47	261.5	2,127.7	924.4	881.1	43.31	21.345		
7,000.0	6,860.1	6,855.3	6,860.1	30.0	10.9	16.59	261.5	2,127.7	916.4	872.6	43.81	20.917		
7,100.0	6,959.8	6,955.1	6,959.8	30.4	11.0	16.69	261.5	2,127.7	910.1	865.8	44.30	20.546		
7,200.0	7,059.7	7,054.9	7,059.7	30.7	11.1	16.77	261.5	2,127.7	905.5	860.7	44.75	20.234		
7,300.0	7,159.7	7,154.9	7,159.7	31.0	11.2	16.82	261.5	2,127.7	902.5	857.3	45.17	19.981		
7,400.0	7,259.7	7,254.9	7,259.7	31.3	11.3	16.84	261.5	2,127.7	901.2	855.7	45.52	19.799		
7,427.9	7,287.5	7,282.8	7,287.5	31.3	11.3	92.84	261.5	2,127.7	901.1	855.6	45.56	19.777		
7,500.0	7,359.7	7,354.9	7,359.7	31.3	11.4	92.84	261.5	2,127.7	901.1	855.5	45.62	19.754		
7,600.0	7,459.7	7,454.9	7,459.7	31.3	11.5	92.84	261.5	2,127.7	901.1	855.4	45.70	19.717		
7,700.0	7,559.7	7,554.9	7,559.7	31.4	11.6	92.84	261.5	2,127.7	901.1	855.3	45.79	19.680		
7,800.0	7,659.7	7,654.9	7,659.7	31.4	11.7	92.84	261.5	2,127.7	901.1	855.2	45.88	19.643		
7,900.0	7,759.7	7,754.9	7,759.7	31.4	11.8	92.84	261.5	2,127.7	901.1	855.2	45.96	19.606		
8,000.0	7,859.7	7,854.9	7,859.7	31.4	11.9	92.84	261.5	2,127.7	901.1	855.1	46.05	19.569		
8,100.0	7,959.7	7,954.9	7,959.7	31.5	12.0	92.84	261.5	2,127.7	901.1	855.0	46.14	19.531		
8,200.0	8,059.7	8,054.9	8,059.7	31.5	12.1	92.84	261.5	2,127.7	901.1	854.9	46.23	19.494		
8,300.0	8,159.7	8,154.9	8,159.7	31.5	12.1	92.84	261.5	2,127.7	901.1	854.8	46.31	19.457		
8,400.0	8,259.7	8,254.9	8,259.7	31.6	12.2	92.84	261.5	2,127.7	901.1	854.7	46.40	19.420		
8,500.0	8,359.7	8,354.9	8,359.7	31.6	12.3	92.84	261.5	2,127.7	901.1	854.6	46.49	19.382		
8,600.0	8,459.7	8,454.9	8,459.7	31.6	12.4	92.84	261.5	2,127.7	901.1	854.5	46.58	19.345		
8,700.0	8,559.7	8,554.9	8,559.7	31.7	12.5	92.84	261.5	2,127.7	901.1	854.5	46.67	19.308		
8,800.0	8,659.7	8,654.9	8,659.7	31.7	12.6	92.84	261.5	2,127.7	901.1	854.4	46.76	19.270		
8,900.0	8,759.7	8,754.9	8,759.7	31.7	12.7	92.84	261.5	2,127.7	901.1	854.3	46.85	19.233		
9,000.0	8,859.7	8,854.9	8,859.7	31.7	12.8	92.84	261.5	2,127.7	901.1	854.2	46.94	19.196		
9,100.0	8,959.7	8,954.9	8,959.7	31.8	12.9	92.84	261.5	2,127.7	901.1	854.1	47.04	19.158		
9,200.0	9,059.7	9,054.9	9,059.7	31.8	13.0	92.84	261.5	2,127.7	901.1	854.0	47.13	19.121		
9,300.0	9,159.7	9,154.9	9,159.7	31.8	13.1	92.84	261.5	2,127.7	901.1	853.9	47.22	19.084		
9,400.0	9,259.7	9,254.9	9,259.7	31.9	13.2	92.84	261.5	2,127.7	901.1	853.8	47.31	19.046		
9,500.0	9,359.7	9,354.9	9,359.7	31.9	13.3	92.84	261.5	2,127.7	901.1	853.7	47.41	19.009		
9,600.0	9,459.7	9,454.9	9,459.7	31.9	13.4	92.84	261.5	2,127.7	901.1	853.6	47.50	18.971		
9,700.0	9,559.7	9,554.9	9,559.7	32.0	13.4	92.84	261.5	2,127.7	901.1	853.5	47.59	18.934		
9,800.0	9,659.7	9,654.9	9,659.7	32.0	13.5	92.84	261.5	2,127.7	901.1	853.4	47.69	18.897		
9,900.0	9,759.7	9,754.9	9,759.7	32.0	13.6	92.84	261.5	2,127.7	901.1	853.3	47.78	18.859		
10,000.0	9,859.7	9,854.9	9,859.7	32.1	13.7	92.84	261.5	2,127.7	901.1	853.2	47.88	18.822		
10,100.0	9,959.7	9,954.9	9,959.7	32.1	13.8	92.84	261.5	2,127.7	901.1	853.2	47.97	18.784		
10,200.0	10,059.7	10,054.9	10,059.7	32.1	13.9	92.84	261.5	2,127.7	901.1	853.1	48.07	18.747		
10,300.0	10,159.7	10,154.9	10,159.7	32.2	14.0	92.84	261.5	2,127.7	901.1	853.0	48.16	18.710		
10,400.0	10,259.7	10,254.9	10,259.7	32.2	14.1	92.84	261.5	2,127.7	901.1	852.9	48.26	18.672		
10,500.0	10,359.7	10,354.9	10,359.7	32.2	14.2	92.84	261.5	2,127.7	901.1	852.8	48.36	18.635		
10,600.0	10,459.7	10,454.9	10,459.7	32.3	14.3	92.84	261.5	2,127.7	901.1	852.7	48.45	18.598		
10,700.0	10,559.7	10,554.9	10,559.7	32.3	14.4	92.84	261.5	2,127.7	901.1	852.6	48.55	18.561		
10,800.0	10,659.7	10,654.9	10,659.7	32.3	14.5	92.84	261.5	2,127.7	901.1	852.5	48.65	18.523		
10,900.0	10,759.7	10,754.9	10,759.7	32.4	14.5	92.84	261.5	2,127.7	901.1	852.4	48.75	18.486		
11,000.0	10,859.7	10,854.9	10,859.7	32.4	14.6	92.84	261.5	2,127.7	901.1	852.3	48.84	18.449		
11,100.0	10,959.7	10,954.9	10,959.7	32.5	14.7	92.84	261.5	2,127.7	901.1	852.2	48.94	18.412		
11,200.0	11,059.7	11,054.9	11,059.7	32.5	14.8	92.84	261.5	2,127.7	901.1	852.1	49.04	18.374		
11,300.0	11,159.7	11,154.9	11,159.7	32.5	14.9	92.84	261.5	2,127.7	901.1	852.0	49.13	18.340		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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 #712H - OWB - PWP1												Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11167-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,400.0	11,259.7	11,264.1	11,268.2	32.6	14.9	92.21	271.3	2,127.7	900.7	851.4	49.23	18.297		
11,482.8	11,342.5	11,348.8	11,349.2	32.6	14.9	90.66	295.7	2,127.5	899.9	850.4	49.48	18.188		
11,500.0	11,359.7	11,365.0	11,364.1	32.6	15.0	-88.97	302.0	2,127.4	899.7	850.2	49.54	18.161		
11,525.0	11,384.6	11,387.2	11,384.2	32.6	15.0	-89.66	311.4	2,127.4	899.7	850.0	49.66	18.118	CC	
11,526.1	11,385.7	11,388.1	11,385.1	32.6	15.0	-89.69	311.9	2,127.4	899.7	850.0	49.66	18.116		
11,550.0	11,409.4	11,407.5	11,402.2	32.5	15.0	-90.37	320.9	2,127.3	899.8	850.0	49.78	18.074	ES	
11,575.0	11,434.1	11,425.9	11,418.1	32.5	15.0	-91.07	330.1	2,127.2	900.1	850.2	49.92	18.032		
11,600.0	11,458.5	11,442.3	11,432.1	32.5	15.0	-91.72	338.8	2,127.2	900.9	850.8	50.06	17.995		
11,625.0	11,482.6	11,456.8	11,444.1	32.5	15.0	-92.28	346.9	2,127.1	902.1	851.9	50.21	17.966		
11,650.0	11,506.3	11,469.4	11,454.3	32.4	15.0	-92.72	354.2	2,127.1	903.7	853.4	50.36	17.947		
11,675.0	11,529.5	11,480.2	11,463.0	32.4	15.0	-93.04	360.7	2,127.0	906.0	855.5	50.50	17.941	SF	
11,700.0	11,552.3	11,489.4	11,470.2	32.4	15.0	-93.20	366.4	2,127.0	908.9	858.2	50.64	17.948		
11,725.0	11,574.4	11,500.0	11,478.4	32.3	15.1	-93.40	373.1	2,126.9	912.4	861.6	50.76	17.974		
11,750.0	11,595.9	11,500.0	11,478.4	32.3	15.1	-92.89	373.1	2,126.9	916.6	865.7	50.91	18.005		
11,775.0	11,616.8	11,508.0	11,484.5	32.3	15.1	-92.78	378.3	2,126.9	921.5	870.4	51.02	18.062		
11,800.0	11,636.8	11,511.7	11,487.2	32.3	15.1	-92.33	380.7	2,126.9	927.0	875.9	51.13	18.131		
11,825.0	11,656.1	11,514.3	11,489.2	32.3	15.1	-91.72	382.4	2,126.9	933.3	882.0	51.23	18.216		
11,850.0	11,674.5	11,515.8	11,490.3	32.2	15.1	-90.96	383.5	2,126.9	940.1	888.8	51.33	18.317		
11,875.0	11,692.0	11,516.5	11,490.9	32.2	15.1	-90.06	383.9	2,126.9	947.6	896.2	51.41	18.433		
11,900.0	11,708.6	11,516.4	11,490.7	32.2	15.1	-89.02	383.8	2,126.9	955.8	904.3	51.49	18.563		
11,925.0	11,724.1	11,515.5	11,490.1	32.2	15.1	-87.85	383.3	2,126.9	964.4	912.9	51.56	18.706		
11,950.0	11,738.6	11,513.9	11,488.9	32.2	15.1	-86.57	382.2	2,126.9	973.6	922.0	51.62	18.862		
11,975.0	11,752.0	11,511.8	11,487.3	32.2	15.1	-85.18	380.8	2,126.9	983.3	931.6	51.67	19.030		
12,000.0	11,764.3	11,509.0	11,485.2	32.2	15.1	-83.70	379.0	2,126.9	993.3	941.6	51.71	19.209		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-90.80	-1.3	-90.0	90.0	83.6	6.43	13.999	
100.0	100.0	100.0	100.0	3.2	3.2	-90.80	-1.3	-90.0	90.0	83.1	6.89	13.058	
200.0	200.0	200.0	200.0	3.5	3.5	-90.80	-1.3	-90.0	90.0	82.7	7.33	12.281	
300.0	300.0	300.0	300.0	3.7	3.7	-90.80	-1.3	-90.0	90.0	82.3	7.74	11.626	
400.0	400.0	400.0	400.0	3.9	3.9	-90.80	-1.3	-90.0	90.0	81.9	8.14	11.063	
500.0	500.0	500.0	500.0	4.1	4.1	-90.80	-1.3	-90.0	90.0	81.5	8.51	10.571	
600.0	600.0	600.0	600.0	4.2	4.2	-90.80	-1.3	-90.0	90.0	81.1	8.88	10.138	
700.0	700.0	700.0	700.0	4.4	4.4	-90.80	-1.3	-90.0	90.0	80.8	9.23	9.751	
800.0	800.0	800.0	800.0	4.6	4.6	-90.80	-1.3	-90.0	90.0	80.4	9.57	9.404	
900.0	900.0	900.0	900.0	4.8	4.8	-90.80	-1.3	-90.0	90.0	80.1	9.90	9.089	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.80	-1.3	-90.0	90.0	79.8	10.22	8.802 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	5.2	5.1	-167.04	-1.3	-90.0	91.7	81.1	10.63	8.628 SF	
1,200.0	1,199.8	1,199.8	1,199.8	5.4	5.2	-167.71	-1.3	-90.0	96.8	85.8	11.03	8.776	
1,300.0	1,299.5	1,299.5	1,299.5	5.7	5.4	-168.69	-1.3	-90.0	105.3	93.9	11.45	9.201	
1,400.0	1,398.7	1,398.7	1,398.7	6.0	5.5	-169.81	-1.3	-90.0	117.3	105.4	11.88	9.873	
1,500.0	1,497.5	1,497.5	1,497.5	6.3	5.7	-170.96	-1.3	-90.0	132.7	120.4	12.34	10.760	
1,600.0	1,595.6	1,594.8	1,594.8	6.6	5.9	-171.43	0.3	-90.4	151.9	139.1	12.81	11.858	
1,675.0	1,668.8	1,667.2	1,667.1	6.8	6.1	-171.07	3.5	-91.3	168.8	155.7	13.11	12.872	
1,700.0	1,693.1	1,691.2	1,691.1	6.9	6.1	-170.86	4.9	-91.6	174.8	161.6	13.20	13.244	
1,800.0	1,790.3	1,786.9	1,786.5	7.2	6.4	-169.58	12.6	-93.7	199.3	185.7	13.63	14.624	
1,900.0	1,887.6	1,882.6	1,881.5	7.5	6.5	-167.80	23.2	-96.5	224.6	210.5	14.01	16.024	
2,000.0	1,984.8	1,979.0	1,977.2	7.9	6.7	-166.21	34.6	-99.6	250.1	235.7	14.46	17.300	
2,100.0	2,082.0	2,075.5	2,072.9	8.2	6.9	-164.91	45.9	-102.6	275.9	260.9	14.93	18.474	
2,200.0	2,179.3	2,172.0	2,168.7	8.6	7.2	-163.83	57.3	-105.7	301.7	286.3	15.42	19.564	
2,300.0	2,276.5	2,268.4	2,264.4	8.9	7.4	-162.93	68.6	-108.7	327.6	311.7	15.92	20.574	
2,400.0	2,373.7	2,364.9	2,360.2	9.3	7.7	-162.15	80.0	-111.8	353.6	337.2	16.44	21.509	
2,500.0	2,471.0	2,461.3	2,455.9	9.7	8.0	-161.48	91.3	-114.8	379.6	362.7	16.97	22.373	
2,600.0	2,568.2	2,557.8	2,551.7	10.1	8.3	-160.90	102.7	-117.8	405.7	388.2	17.51	23.174	
2,700.0	2,665.5	2,654.3	2,647.4	10.5	8.6	-160.39	114.0	-120.9	431.8	413.8	18.06	23.915	
2,800.0	2,762.7	2,750.7	2,743.1	11.0	8.9	-159.93	125.4	-123.9	458.0	439.4	18.61	24.603	
2,900.0	2,859.9	2,847.2	2,838.9	11.4	9.2	-159.53	136.8	-127.0	484.1	465.0	19.18	25.240	
3,000.0	2,957.2	2,943.7	2,934.6	11.8	9.5	-159.17	148.1	-130.0	510.3	490.6	19.76	25.832	
3,100.0	3,054.4	3,040.1	3,030.4	12.2	9.8	-158.84	159.5	-133.1	536.5	516.2	20.34	26.382	
3,200.0	3,151.6	3,136.6	3,126.1	12.7	10.2	-158.54	170.8	-136.1	562.7	541.8	20.92	26.894	
3,300.0	3,248.9	3,233.0	3,221.9	13.1	10.5	-158.27	182.2	-139.1	589.0	567.5	21.52	27.371	
3,400.0	3,346.1	3,329.5	3,317.6	13.5	10.8	-158.02	193.5	-142.2	615.2	593.1	22.12	27.816	
3,500.0	3,443.3	3,426.0	3,413.3	14.0	11.2	-157.79	204.9	-145.2	641.5	618.7	22.72	28.232	
3,600.0	3,540.6	3,522.4	3,509.1	14.4	11.5	-157.58	216.2	-148.3	667.7	644.4	23.33	28.621	
3,700.0	3,637.8	3,619.1	3,605.1	14.9	11.9	-157.39	227.6	-151.3	694.0	670.1	23.94	28.992	
3,800.0	3,735.1	3,720.6	3,705.9	15.3	12.3	-157.28	238.6	-154.3	719.9	695.3	24.59	29.275	
3,900.0	3,832.3	3,822.5	3,807.3	15.8	12.6	-157.30	247.9	-156.8	745.1	719.9	25.24	29.518	
4,000.0	3,929.5	3,924.7	3,909.2	16.3	13.0	-157.45	255.5	-158.8	769.7	743.8	25.90	29.718	
4,100.0	4,026.8	4,027.1	4,011.5	16.7	13.3	-157.72	261.3	-160.4	793.6	767.0	26.56	29.880	
4,200.0	4,124.0	4,129.8	4,114.0	17.2	13.6	-158.10	265.4	-161.4	816.9	789.6	27.22	30.008	
4,300.0	4,221.2	4,232.6	4,216.8	17.6	13.9	-158.57	267.7	-162.1	839.5	811.6	27.88	30.108	
4,400.0	4,318.5	4,334.2	4,318.5	18.1	14.1	-159.12	268.3	-162.2	861.5	833.0	28.53	30.201	
4,500.0	4,415.7	4,431.5	4,415.7	18.6	14.2	-159.66	268.3	-162.2	883.5	854.3	29.15	30.308	
4,600.0	4,513.0	4,528.7	4,513.0	19.0	14.2	-160.17	268.3	-162.2	905.5	875.7	29.77	30.413	
4,700.0	4,610.2	4,625.9	4,610.2	19.5	14.3	-160.66	268.3	-162.2	927.5	897.1	30.40	30.510	
4,800.0	4,707.4	4,723.2	4,707.4	20.0	14.4	-161.13	268.3	-162.2	949.6	918.6	31.03	30.602	
4,900.0	4,804.7	4,820.4	4,804.7	20.4	14.4	-161.57	268.3	-162.2	971.8	940.2	31.67	30.688	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 706H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Rule Assigned:								Offset Well Error: 3.0 usft			
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,901.9	4,917.7	4,901.9	20.9	14.5	-162.00	268.3	-162.2	994.1	961.8	32.31	30.769	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.80	-0.8	-60.0	60.0	53.6	6.43	9.333	
100.0	100.0	100.0	100.0	3.2	3.2	-90.80	-0.8	-60.0	60.0	53.1	6.89	8.705	
200.0	200.0	200.0	200.0	3.5	3.5	-90.80	-0.8	-60.0	60.0	52.7	7.33	8.188	
300.0	300.0	300.0	300.0	3.7	3.7	-90.80	-0.8	-60.0	60.0	52.3	7.74	7.751	
400.0	400.0	400.0	400.0	3.9	3.9	-90.80	-0.8	-60.0	60.0	51.9	8.14	7.375	
500.0	500.0	500.0	500.0	4.1	4.1	-90.80	-0.8	-60.0	60.0	51.5	8.51	7.048	
600.0	600.0	600.0	600.0	4.2	4.2	-90.80	-0.8	-60.0	60.0	51.1	8.88	6.759	
700.0	700.0	700.0	700.0	4.4	4.4	-90.80	-0.8	-60.0	60.0	50.8	9.23	6.501	
800.0	800.0	800.0	800.0	4.6	4.6	-90.80	-0.8	-60.0	60.0	50.4	9.57	6.269	
900.0	900.0	900.0	900.0	4.8	4.8	-90.80	-0.8	-60.0	60.0	50.1	9.90	6.059	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.80	-0.8	-60.0	60.0	49.8	10.22	5.868 CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	5.2	5.1	-167.16	-0.8	-60.0	61.7	51.1	10.63	5.805 SF	
1,200.0	1,199.8	1,199.8	1,199.8	5.4	5.2	-168.14	-0.8	-60.0	66.8	55.8	11.03	6.056	
1,300.0	1,299.5	1,301.7	1,301.7	5.7	5.5	-168.77	0.2	-58.5	73.9	62.4	11.51	6.417	
1,400.0	1,398.7	1,403.7	1,403.6	6.0	5.7	-168.40	3.3	-54.1	81.3	69.3	12.00	6.778	
1,500.0	1,497.5	1,506.0	1,505.4	6.3	6.0	-167.30	8.5	-46.6	89.2	76.7	12.50	7.136	
1,600.0	1,595.6	1,608.1	1,606.7	6.6	6.3	-165.65	15.8	-36.2	97.6	84.6	13.02	7.495	
1,675.0	1,668.8	1,682.7	1,680.6	6.8	6.5	-164.57	21.8	-27.7	105.2	91.9	13.35	7.880	
1,700.0	1,693.1	1,707.5	1,705.2	6.9	6.5	-164.30	23.7	-24.9	108.1	94.6	13.45	8.036	
1,800.0	1,790.3	1,806.9	1,803.5	7.2	6.8	-163.36	31.7	-13.6	119.6	105.6	13.94	8.574	
1,900.0	1,887.6	1,906.2	1,901.9	7.5	7.0	-162.58	39.6	-2.3	131.0	116.6	14.46	9.064	
2,000.0	1,984.8	2,005.5	2,000.3	7.9	7.3	-161.93	47.5	9.1	142.5	127.5	15.00	9.506	
2,100.0	2,082.0	2,104.8	2,098.6	8.2	7.6	-161.38	55.5	20.4	154.1	138.5	15.56	9.903	
2,200.0	2,179.3	2,204.1	2,197.0	8.6	7.9	-160.90	63.4	31.7	165.6	149.5	16.14	10.262	
2,300.0	2,276.5	2,303.5	2,295.3	8.9	8.2	-160.48	71.3	43.0	177.1	160.4	16.74	10.585	
2,400.0	2,373.7	2,402.8	2,393.7	9.3	8.5	-160.12	79.2	54.4	188.7	171.3	17.35	10.876	
2,500.0	2,471.0	2,502.1	2,492.0	9.7	8.9	-159.80	87.2	65.7	200.3	182.3	17.98	11.140	
2,600.0	2,568.2	2,601.4	2,590.4	10.1	9.2	-159.51	95.1	77.0	211.8	193.2	18.62	11.379	
2,700.0	2,665.5	2,700.8	2,688.8	10.5	9.5	-159.25	103.0	88.3	223.4	204.1	19.26	11.596	
2,800.0	2,762.7	2,800.1	2,787.1	11.0	9.9	-159.02	111.0	99.7	235.0	215.0	19.92	11.793	
2,900.0	2,859.9	2,899.4	2,885.5	11.4	10.3	-158.81	118.9	111.0	246.5	225.9	20.59	11.972	
3,000.0	2,957.2	2,998.7	2,983.8	11.8	10.6	-158.62	126.8	122.3	258.1	236.8	21.27	12.136	
3,100.0	3,054.4	3,098.1	3,082.2	12.2	11.0	-158.45	134.7	133.6	269.7	247.7	21.95	12.286	
3,200.0	3,151.6	3,197.4	3,180.5	12.7	11.4	-158.29	142.7	145.0	281.3	258.6	22.64	12.424	
3,300.0	3,248.9	3,296.7	3,278.9	13.1	11.8	-158.14	150.6	156.3	292.9	269.5	23.34	12.550	
3,400.0	3,346.1	3,396.0	3,377.3	13.5	12.1	-158.00	158.5	167.6	304.5	280.4	24.04	12.667	
3,500.0	3,443.3	3,495.4	3,475.6	14.0	12.5	-157.88	166.5	178.9	316.0	291.3	24.74	12.774	
3,600.0	3,540.6	3,594.7	3,574.0	14.4	12.9	-157.76	174.4	190.2	327.6	302.2	25.45	12.874	
3,700.0	3,637.8	3,694.0	3,672.3	14.9	13.3	-157.65	182.3	201.6	339.2	313.1	26.16	12.966	
3,800.0	3,735.1	3,793.3	3,770.7	15.3	13.7	-157.55	190.2	212.9	350.8	323.9	26.88	13.051	
3,900.0	3,832.3	3,892.7	3,869.0	15.8	14.1	-157.45	198.2	224.2	362.4	334.8	27.60	13.131	
4,000.0	3,929.5	3,992.0	3,967.4	16.3	14.5	-157.36	206.1	235.5	374.0	345.7	28.32	13.204	
4,100.0	4,026.8	4,091.3	4,065.8	16.7	14.9	-157.28	214.0	246.9	385.6	356.6	29.05	13.273	
4,200.0	4,124.0	4,190.6	4,164.1	17.2	15.3	-157.20	222.0	258.2	397.2	367.4	29.77	13.340	
4,300.0	4,221.2	4,285.1	4,257.8	17.6	15.7	-157.20	229.1	268.3	409.4	378.9	30.52	13.415	
4,400.0	4,318.5	4,379.2	4,351.3	18.1	16.1	-157.35	235.3	277.2	422.7	391.5	31.25	13.529	
4,500.0	4,415.7	4,473.0	4,444.6	18.6	16.4	-157.63	240.6	284.8	437.3	405.3	31.99	13.671	
4,600.0	4,513.0	4,566.4	4,537.7	19.0	16.8	-158.02	245.0	291.0	453.1	420.3	32.74	13.839	
4,700.0	4,610.2	4,659.3	4,630.4	19.5	17.1	-158.51	248.5	296.1	470.0	436.5	33.49	14.034	
4,800.0	4,707.4	4,751.8	4,722.7	20.0	17.4	-159.09	251.1	299.9	488.2	454.0	34.25	14.255	
4,900.0	4,804.7	4,843.7	4,814.6	20.4	17.7	-159.74	252.9	302.4	507.6	472.6	35.00	14.505	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,901.9	4,935.0	4,905.9	20.9	17.9	-160.44	253.9	303.7	528.3	492.6	35.72	14.792	
5,100.0	4,999.1	5,028.3	4,999.1	21.4	18.0	-161.20	254.0	304.0	550.2	513.8	36.40	15.113	
5,200.0	5,096.4	5,125.5	5,096.4	21.8	18.1	-161.95	254.0	304.0	572.4	535.3	37.12	15.422	
5,300.0	5,193.6	5,222.7	5,193.6	22.3	18.1	-162.64	254.0	304.0	594.7	556.9	37.80	15.734	
5,400.0	5,290.8	5,320.0	5,290.8	22.8	18.2	-163.29	254.0	304.0	617.1	578.6	38.47	16.039	
5,500.0	5,388.1	5,417.2	5,388.1	23.3	18.2	-163.89	254.0	304.0	639.5	600.4	39.14	16.337	
5,600.0	5,485.3	5,514.4	5,485.3	23.7	18.3	-164.45	254.0	304.0	662.0	622.2	39.81	16.629	
5,700.0	5,582.6	5,611.7	5,582.6	24.2	18.3	-164.97	254.0	304.0	684.6	644.1	40.47	16.914	
5,800.0	5,679.8	5,708.9	5,679.8	24.7	18.4	-165.46	254.0	304.0	707.2	666.1	41.13	17.193	
5,900.0	5,777.0	5,806.2	5,777.0	25.2	18.4	-165.92	254.0	304.0	729.9	688.1	41.79	17.465	
6,000.0	5,874.3	5,903.4	5,874.3	25.6	18.5	-166.35	254.0	304.0	752.6	710.1	42.45	17.730	
6,077.9	5,950.0	5,979.1	5,950.0	26.0	18.5	-166.67	254.0	304.0	770.3	727.3	42.95	17.935	
6,100.0	5,971.5	6,000.6	5,971.5	26.1	18.5	-166.77	254.0	304.0	775.3	732.2	43.09	17.993	
6,200.0	6,069.0	6,098.2	6,069.0	26.6	18.6	-167.18	254.0	304.0	796.8	753.1	43.73	18.221	
6,300.0	6,166.9	6,196.0	6,166.9	27.0	18.6	-167.54	254.0	304.0	816.8	772.4	44.36	18.412	
6,400.0	6,265.2	6,294.3	6,265.2	27.5	18.7	-167.86	254.0	304.0	835.1	790.1	44.98	18.566	
6,500.0	6,363.7	6,392.8	6,363.7	27.9	18.8	-168.13	254.0	304.0	851.7	806.1	45.58	18.686	
6,600.0	6,462.5	6,491.7	6,462.5	28.4	18.8	-168.37	254.0	304.0	866.6	820.5	46.16	18.773	
6,700.0	6,561.6	6,590.7	6,561.6	28.8	18.9	-168.58	254.0	304.0	879.9	833.2	46.73	18.828	
6,800.0	6,660.9	6,690.0	6,660.9	29.2	18.9	-168.75	254.0	304.0	891.5	844.2	47.28	18.853	
6,900.0	6,760.4	6,789.5	6,760.4	29.6	19.0	-168.89	254.0	304.0	901.4	853.5	47.82	18.850	
7,000.0	6,860.1	6,889.2	6,860.1	30.0	19.0	-169.01	254.0	304.0	909.5	861.2	48.33	18.821	
7,100.0	6,959.8	6,989.0	6,959.8	30.4	19.1	-169.10	254.0	304.0	916.0	867.2	48.81	18.768	
7,200.0	7,059.7	7,088.8	7,059.7	30.7	19.1	-169.17	254.0	304.0	920.8	871.5	49.26	18.693	
7,300.0	7,159.7	7,188.8	7,159.7	31.0	19.2	-169.21	254.0	304.0	923.8	874.1	49.67	18.600	
7,400.0	7,259.7	7,288.8	7,259.7	31.3	19.3	-169.23	254.0	304.0	925.1	875.1	50.00	18.502	
7,427.9	7,287.5	7,316.7	7,287.5	31.3	19.3	-93.23	254.0	304.0	925.2	875.2	50.05	18.487	
7,500.0	7,359.7	7,388.8	7,359.7	31.3	19.3	-93.23	254.0	304.0	925.2	875.1	50.10	18.469	
7,600.0	7,459.7	7,488.8	7,459.7	31.3	19.4	-93.23	254.0	304.0	925.2	875.0	50.17	18.440	
7,700.0	7,559.7	7,588.8	7,559.7	31.4	19.4	-93.23	254.0	304.0	925.2	875.0	50.25	18.411	
7,800.0	7,659.7	7,688.8	7,659.7	31.4	19.5	-93.23	254.0	304.0	925.2	874.9	50.33	18.382	
7,900.0	7,759.7	7,788.8	7,759.7	31.4	19.5	-93.23	254.0	304.0	925.2	874.8	50.41	18.353	
8,000.0	7,859.7	7,888.8	7,859.7	31.4	19.6	-93.23	254.0	304.0	925.2	874.7	50.49	18.324	
8,100.0	7,959.7	7,988.8	7,959.7	31.5	19.7	-93.23	254.0	304.0	925.2	874.6	50.57	18.295	
8,200.0	8,059.7	8,088.8	8,059.7	31.5	19.7	-93.23	254.0	304.0	925.2	874.6	50.65	18.266	
8,300.0	8,159.7	8,188.8	8,159.7	31.5	19.8	-93.23	254.0	304.0	925.2	874.5	50.73	18.237	
8,400.0	8,259.7	8,288.8	8,259.7	31.6	19.8	-93.23	254.0	304.0	925.2	874.4	50.81	18.208	
8,500.0	8,359.7	8,388.8	8,359.7	31.6	19.9	-93.23	254.0	304.0	925.2	874.3	50.90	18.178	
8,600.0	8,459.7	8,488.8	8,459.7	31.6	20.0	-93.23	254.0	304.0	925.2	874.2	50.98	18.149	
8,700.0	8,559.7	8,588.8	8,559.7	31.7	20.0	-93.23	254.0	304.0	925.2	874.2	51.06	18.120	
8,800.0	8,659.7	8,688.8	8,659.7	31.7	20.1	-93.23	254.0	304.0	925.2	874.1	51.14	18.090	
8,900.0	8,759.7	8,788.8	8,759.7	31.7	20.1	-93.23	254.0	304.0	925.2	874.0	51.23	18.061	
9,000.0	8,859.7	8,888.8	8,859.7	31.7	20.2	-93.23	254.0	304.0	925.2	873.9	51.31	18.031	
9,100.0	8,959.7	8,988.8	8,959.7	31.8	20.3	-93.23	254.0	304.0	925.2	873.8	51.40	18.002	
9,200.0	9,059.7	9,088.8	9,059.7	31.8	20.3	-93.23	254.0	304.0	925.2	873.7	51.48	17.972	
9,300.0	9,159.7	9,188.8	9,159.7	31.8	20.4	-93.23	254.0	304.0	925.2	873.7	51.56	17.943	
9,400.0	9,259.7	9,288.8	9,259.7	31.9	20.4	-93.23	254.0	304.0	925.2	873.6	51.65	17.913	
9,500.0	9,359.7	9,388.8	9,359.7	31.9	20.5	-93.23	254.0	304.0	925.2	873.5	51.74	17.884	
9,600.0	9,459.7	9,488.8	9,459.7	31.9	20.6	-93.23	254.0	304.0	925.2	873.4	51.82	17.854	
9,700.0	9,559.7	9,588.8	9,559.7	32.0	20.6	-93.23	254.0	304.0	925.2	873.3	51.91	17.824	
9,800.0	9,659.7	9,688.8	9,659.7	32.0	20.7	-93.23	254.0	304.0	925.2	873.2	51.99	17.795	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,759.7	9,788.8	9,759.7	32.0	20.7	-93.23	254.0	304.0	925.2	873.1	52.08	17.765	
10,000.0	9,859.7	9,888.8	9,859.7	32.1	20.8	-93.23	254.0	304.0	925.2	873.0	52.17	17.735	
10,100.0	9,959.7	9,988.8	9,959.7	32.1	20.9	-93.23	254.0	304.0	925.2	873.0	52.26	17.705	
10,200.0	10,059.7	10,088.8	10,059.7	32.1	20.9	-93.23	254.0	304.0	925.2	872.9	52.34	17.676	
10,300.0	10,159.7	10,188.8	10,159.7	32.2	21.0	-93.23	254.0	304.0	925.2	872.8	52.43	17.646	
10,400.0	10,259.7	10,288.8	10,259.7	32.2	21.1	-93.23	254.0	304.0	925.2	872.7	52.52	17.616	
10,500.0	10,359.7	10,388.8	10,359.7	32.2	21.1	-93.23	254.0	304.0	925.2	872.6	52.61	17.586	
10,600.0	10,459.7	10,488.8	10,459.7	32.3	21.2	-93.23	254.0	304.0	925.2	872.5	52.70	17.556	
10,700.0	10,559.7	10,588.8	10,559.7	32.3	21.2	-93.23	254.0	304.0	925.2	872.4	52.79	17.527	
10,800.0	10,659.7	10,688.8	10,659.7	32.3	21.3	-93.23	254.0	304.0	925.2	872.3	52.88	17.497	
10,900.0	10,759.7	10,788.8	10,759.7	32.4	21.4	-93.23	254.0	304.0	925.2	872.2	52.97	17.467	
11,000.0	10,859.7	10,888.8	10,859.7	32.4	21.4	-93.23	254.0	304.0	925.2	872.2	53.06	17.437	
11,100.0	10,959.7	10,988.8	10,959.7	32.5	21.5	-93.23	254.0	304.0	925.2	872.1	53.15	17.407	
11,200.0	11,059.7	11,088.8	11,059.7	32.5	21.6	-93.23	254.0	304.0	925.2	872.0	53.24	17.377	
11,300.0	11,159.7	11,188.8	11,159.7	32.5	21.6	-93.23	254.0	304.0	925.2	871.9	53.34	17.347	
11,400.0	11,259.7	11,288.8	11,259.7	32.6	21.7	-93.23	254.0	304.0	925.2	871.8	53.43	17.317	
11,482.8	11,342.5	11,371.6	11,342.5	32.6	21.7	-93.23	254.0	304.0	925.2	871.7	53.49	17.297	
11,500.0	11,359.7	11,386.8	11,357.7	32.6	21.7	87.57	253.8	304.0	925.2	871.7	53.48	17.302	
11,525.0	11,384.6	11,408.9	11,379.7	32.6	21.7	87.58	252.6	303.9	925.2	871.8	53.44	17.313	
11,550.0	11,409.4	11,431.0	11,401.7	32.5	21.6	87.59	250.3	303.9	925.3	871.9	53.40	17.327	
11,575.0	11,434.1	11,453.1	11,423.6	32.5	21.6	87.61	247.1	303.9	925.4	872.0	53.36	17.343	
11,600.0	11,458.5	11,475.0	11,445.1	32.5	21.6	87.63	242.9	303.8	925.5	872.2	53.31	17.361	
11,625.0	11,482.6	11,497.5	11,466.9	32.5	21.5	87.66	237.5	303.8	925.6	872.3	53.26	17.379	
11,650.0	11,506.3	11,519.7	11,488.2	32.4	21.5	87.70	231.2	303.7	925.7	872.5	53.21	17.399	
11,675.0	11,529.5	11,541.9	11,509.2	32.4	21.4	87.74	224.0	303.6	925.9	872.7	53.15	17.419	
11,700.0	11,552.3	11,564.2	11,529.9	32.4	21.4	87.78	215.7	303.5	926.1	873.0	53.10	17.441	
11,725.0	11,574.4	11,586.5	11,550.2	32.3	21.3	87.83	206.5	303.4	926.3	873.2	53.04	17.463	
11,750.0	11,595.9	11,608.9	11,570.1	32.3	21.3	87.89	196.3	303.3	926.5	873.5	52.99	17.486	
11,775.0	11,616.8	11,631.3	11,589.6	32.3	21.2	87.95	185.1	303.2	926.8	873.8	52.93	17.509	
11,800.0	11,636.8	11,653.8	11,608.6	32.3	21.2	88.01	173.0	303.0	927.1	874.2	52.88	17.531	
11,825.0	11,656.1	11,676.4	11,627.0	32.3	21.1	88.08	160.0	302.9	927.4	874.5	52.83	17.554	
11,850.0	11,674.5	11,700.0	11,645.6	32.2	21.1	88.16	145.5	302.7	927.7	874.9	52.79	17.572	
11,875.0	11,692.0	11,721.8	11,662.1	32.2	21.1	88.24	131.3	302.6	928.0	875.3	52.74	17.597	
11,900.0	11,708.6	11,744.6	11,678.7	32.2	21.0	88.32	115.6	302.4	928.4	875.7	52.70	17.617	
11,925.0	11,724.1	11,767.5	11,694.6	32.2	21.0	88.41	99.1	302.2	928.8	876.1	52.67	17.636	
11,950.0	11,738.6	11,790.5	11,709.7	32.2	20.9	88.50	81.8	302.0	929.2	876.6	52.64	17.653	
11,975.0	11,752.0	11,813.6	11,724.0	32.2	20.9	88.60	63.7	301.8	929.6	877.0	52.62	17.668	
12,000.0	11,764.3	11,836.8	11,737.5	32.2	20.9	88.70	44.8	301.6	930.1	877.5	52.60	17.682	
12,025.0	11,775.4	11,860.1	11,750.1	32.2	20.9	88.80	25.2	301.4	930.6	878.0	52.59	17.694	
12,050.0	11,785.4	11,883.6	11,761.8	32.2	20.8	88.90	4.9	301.1	931.1	878.5	52.59	17.703	
12,075.0	11,794.1	11,907.1	11,772.6	32.2	20.8	89.01	-16.1	300.9	931.6	879.0	52.60	17.709	
12,100.0	11,801.6	11,930.9	11,782.4	32.2	20.8	89.12	-37.7	300.6	932.1	879.5	52.62	17.713	
12,125.0	11,807.8	11,954.7	11,791.1	32.2	20.8	89.24	-59.9	300.4	932.7	880.0	52.65	17.715	
12,150.0	11,812.8	11,978.7	11,798.7	32.2	20.8	89.35	-82.6	300.1	933.2	880.5	52.69	17.713	
12,175.0	11,816.5	12,002.8	11,805.3	32.2	20.8	89.47	-105.8	299.9	933.8	881.1	52.73	17.708	
12,200.0	11,818.8	12,027.1	11,810.6	32.2	20.8	89.59	-129.5	299.6	934.4	881.6	52.79	17.701	
12,225.0	11,819.9	12,051.5	11,814.8	32.3	20.8	89.71	-153.6	299.3	935.0	882.2	52.86	17.690	
12,232.8	11,820.0	12,059.2	11,815.9	32.3	20.8	89.75	-161.2	299.2	935.2	882.3	52.88	17.686	
12,300.0	11,820.0	12,126.0	11,820.0	32.4	20.9	90.00	-227.8	298.5	936.1	883.1	53.06	17.642	
12,323.2	11,820.0	12,149.2	11,820.0	32.4	20.9	90.00	-251.0	298.2	936.1	882.9	53.12	17.622	
12,400.0	11,820.0	12,226.0	11,820.0	32.5	21.1	90.00	-327.8	297.3	935.6	882.3	53.33	17.543	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
12,500.0	11,820.0	12,326.0	11,820.0	32.7	21.3	90.00	-427.8	296.2	935.0	881.3	53.68	17.419	
12,600.0	11,820.0	12,426.0	11,820.0	32.9	21.5	90.00	-527.8	295.1	934.4	880.3	54.08	17.276	
12,700.0	11,820.0	12,526.0	11,820.0	33.1	21.7	90.00	-627.8	293.9	933.7	879.2	54.55	17.116	
12,800.0	11,820.0	12,626.0	11,820.0	33.3	22.0	90.00	-727.8	292.8	933.1	878.0	55.09	16.939	
12,900.0	11,820.0	12,726.0	11,820.0	33.6	22.4	90.00	-827.8	291.6	932.5	876.8	55.68	16.748	
13,000.0	11,820.0	12,826.0	11,820.0	33.9	22.7	90.00	-927.8	290.5	931.9	875.6	56.33	16.545	
13,100.0	11,820.0	12,926.0	11,820.0	34.2	23.1	90.00	-1,027.7	289.4	931.3	874.2	57.03	16.330	
13,200.0	11,820.0	13,026.0	11,820.0	34.6	23.6	90.00	-1,127.7	288.2	930.6	872.9	57.79	16.105	
13,300.0	11,820.0	13,126.0	11,820.0	34.9	24.0	90.00	-1,227.7	287.1	930.0	871.4	58.60	15.872	
13,400.0	11,820.0	13,226.0	11,820.0	35.3	24.5	90.00	-1,327.7	285.9	929.4	870.0	59.45	15.633	
13,500.0	11,820.0	13,326.0	11,820.0	35.7	25.0	90.00	-1,427.7	284.8	928.8	868.4	60.36	15.388	
13,600.0	11,820.0	13,426.0	11,820.0	36.1	25.6	90.00	-1,527.7	283.7	928.2	866.9	61.31	15.139	
13,700.0	11,820.0	13,526.0	11,820.0	36.6	26.2	90.00	-1,627.7	282.5	927.6	865.3	62.30	14.888	
13,800.0	11,820.0	13,626.0	11,820.0	37.0	26.8	90.00	-1,727.7	281.4	926.9	863.6	63.34	14.635	
13,900.0	11,820.0	13,726.0	11,820.0	37.5	27.4	90.00	-1,827.7	280.2	926.3	861.9	64.41	14.382	
14,000.0	11,820.0	13,826.0	11,820.0	38.0	28.0	90.00	-1,927.7	279.1	925.7	860.2	65.52	14.129	
14,100.0	11,820.0	13,926.0	11,820.0	38.5	28.7	90.00	-2,027.7	278.0	925.1	858.4	66.66	13.877	
14,200.0	11,820.0	14,026.0	11,820.0	39.1	29.4	90.00	-2,127.7	276.8	924.5	856.6	67.84	13.627	
14,300.0	11,820.0	14,126.0	11,820.0	39.6	30.0	90.00	-2,227.6	275.7	923.8	854.8	69.05	13.379	
14,400.0	11,820.0	14,226.0	11,820.0	40.2	30.8	90.00	-2,327.6	274.5	923.2	852.9	70.29	13.134	
14,500.0	11,820.0	14,326.0	11,820.0	40.7	31.5	90.00	-2,427.6	273.4	922.6	851.0	71.56	12.892	
14,600.0	11,820.0	14,426.0	11,820.0	41.3	32.2	90.00	-2,527.6	272.3	922.0	849.1	72.86	12.655	
14,700.0	11,820.0	14,526.0	11,820.0	41.9	33.0	90.00	-2,627.6	271.1	921.4	847.2	74.18	12.421	
14,800.0	11,820.0	14,626.0	11,820.0	42.5	33.7	90.00	-2,727.6	270.0	920.8	845.2	75.52	12.192	
14,900.0	11,820.0	14,726.0	11,820.0	43.2	34.5	90.00	-2,827.6	268.8	920.1	843.2	76.89	11.967	
15,000.0	11,820.0	14,826.0	11,820.0	43.8	35.3	90.00	-2,927.6	267.7	919.5	841.2	78.28	11.746	
15,100.0	11,820.0	14,926.0	11,820.0	44.4	36.0	90.00	-3,027.6	266.6	918.9	839.2	79.69	11.531	
15,200.0	11,820.0	15,025.9	11,820.0	45.1	36.8	90.00	-3,127.6	265.4	918.3	837.2	81.12	11.320	
15,300.0	11,820.0	15,125.9	11,820.0	45.8	37.6	90.00	-3,227.6	264.3	917.7	835.1	82.57	11.114	
15,400.0	11,820.0	15,225.9	11,820.0	46.4	38.5	90.00	-3,327.6	263.2	917.0	833.0	84.03	10.913	
15,500.0	11,820.0	15,325.9	11,820.0	47.1	39.3	90.00	-3,427.5	262.0	916.4	830.9	85.52	10.716	
15,600.0	11,820.0	15,425.9	11,820.0	47.8	40.1	90.00	-3,527.5	260.9	915.8	828.8	87.01	10.525	
15,700.0	11,820.0	15,525.9	11,820.0	48.5	40.9	90.00	-3,627.5	259.7	915.2	826.7	88.53	10.338	
15,800.0	11,820.0	15,625.9	11,820.0	49.2	41.8	90.00	-3,727.5	258.6	914.6	824.5	90.05	10.156	
15,900.0	11,820.0	15,725.9	11,820.0	50.0	42.6	90.00	-3,827.5	257.5	914.0	822.4	91.59	9.978	
16,000.0	11,820.0	15,825.9	11,820.0	50.7	43.4	90.00	-3,927.5	256.3	913.3	820.2	93.15	9.805	
16,100.0	11,820.0	15,925.9	11,820.0	51.4	44.3	90.00	-4,027.5	255.2	912.7	818.0	94.71	9.637	
16,200.0	11,820.0	16,025.9	11,820.0	52.2	45.2	90.00	-4,127.5	254.0	912.1	815.8	96.29	9.473	
16,300.0	11,820.0	16,125.9	11,820.0	52.9	46.0	90.00	-4,227.5	252.9	911.5	813.6	97.88	9.313	
16,400.0	11,820.0	16,225.9	11,820.0	53.7	46.9	90.00	-4,327.5	251.8	910.9	811.4	99.47	9.157	
16,500.0	11,820.0	16,325.9	11,820.0	54.4	47.7	90.00	-4,427.5	250.6	910.3	809.2	101.08	9.005	
16,600.0	11,820.0	16,425.9	11,820.0	55.2	48.6	90.00	-4,527.4	249.5	909.6	806.9	102.70	8.857	
16,700.0	11,820.0	16,525.9	11,820.0	56.0	49.5	90.00	-4,627.4	248.3	909.0	804.7	104.33	8.713	
16,800.0	11,820.0	16,625.9	11,820.0	56.8	50.4	90.00	-4,727.4	247.2	908.4	802.4	105.96	8.573	
16,900.0	11,820.0	16,725.9	11,820.0	57.6	51.2	90.00	-4,827.4	246.1	907.8	800.2	107.61	8.436	
17,000.0	11,820.0	16,825.9	11,820.0	58.3	52.1	90.00	-4,927.4	244.9	907.2	797.9	109.26	8.303	
17,100.0	11,820.0	16,925.9	11,820.0	59.1	53.0	90.00	-5,027.4	243.8	906.5	795.6	110.92	8.173	
17,200.0	11,820.0	17,025.9	11,820.0	59.9	53.9	90.00	-5,127.4	242.6	905.9	793.3	112.58	8.047	
17,300.0	11,820.0	17,125.9	11,820.0	60.7	54.8	90.00	-5,227.4	241.5	905.3	791.0	114.26	7.923	
17,400.0	11,820.0	17,225.9	11,820.0	61.6	55.7	90.00	-5,327.4	240.4	904.7	788.8	115.94	7.803	
17,500.0	11,820.0	17,325.9	11,820.0	62.4	56.6	90.00	-5,427.4	239.2	904.1	786.4	117.62	7.686	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,600.0	11,820.0	17,425.9	11,820.0	63.2	57.5	90.00	-5,527.4	238.1	903.5	784.1	119.31	7.572	
17,700.0	11,820.0	17,525.9	11,820.0	64.0	58.4	90.00	-5,627.4	236.9	902.8	781.8	121.01	7.461	
17,800.0	11,820.0	17,625.9	11,820.0	64.8	59.3	90.00	-5,727.3	235.8	902.2	779.5	122.71	7.352	
17,900.0	11,820.0	17,725.9	11,820.0	65.7	60.2	90.00	-5,827.3	234.7	901.6	777.2	124.42	7.246	
18,000.0	11,820.0	17,825.9	11,820.0	66.5	61.1	90.00	-5,927.3	233.5	901.0	774.8	126.14	7.143	
18,100.0	11,820.0	17,925.9	11,820.0	67.3	62.0	90.00	-6,027.3	232.4	900.4	772.5	127.85	7.042	
18,200.0	11,820.0	18,025.9	11,820.0	68.2	62.9	90.00	-6,127.3	231.2	899.7	770.2	129.58	6.944	
18,300.0	11,820.0	18,125.9	11,820.0	69.0	63.8	90.00	-6,227.3	230.1	899.1	767.8	131.30	6.848	
18,400.0	11,820.0	18,225.9	11,820.0	69.8	64.7	90.00	-6,327.3	229.0	898.5	765.5	133.04	6.754	
18,500.0	11,820.0	18,325.9	11,820.0	70.7	65.6	90.00	-6,427.3	227.8	897.9	763.1	134.77	6.662	
18,600.0	11,820.0	18,425.9	11,820.0	71.5	66.5	90.00	-6,527.3	226.7	897.3	760.8	136.51	6.573	
18,700.0	11,820.0	18,525.9	11,820.0	72.4	67.4	90.00	-6,627.3	225.5	896.7	758.4	138.26	6.485	
18,800.0	11,820.0	18,625.9	11,820.0	73.2	68.4	90.00	-6,727.3	224.4	896.0	756.0	140.00	6.400	
18,900.0	11,820.0	18,725.9	11,820.0	74.1	69.3	90.00	-6,827.3	223.3	895.4	753.7	141.75	6.317	
19,000.0	11,820.0	18,825.9	11,820.0	75.0	70.2	90.00	-6,927.2	222.1	894.8	751.3	143.51	6.235	
19,100.0	11,820.0	18,925.9	11,820.0	75.8	71.1	90.00	-7,027.2	221.0	894.2	748.9	145.27	6.155	
19,200.0	11,820.0	19,025.9	11,820.0	76.7	72.0	90.00	-7,127.2	219.9	893.6	746.5	147.03	6.078	
19,300.0	11,820.0	19,125.9	11,820.0	77.6	72.9	90.00	-7,227.2	218.7	892.9	744.2	148.79	6.001	
19,400.0	11,820.0	19,225.9	11,820.0	78.4	73.9	90.00	-7,327.2	217.6	892.3	741.8	150.56	5.927	
19,474.3	11,820.0	19,300.2	11,820.0	79.1	74.6	90.00	-7,401.5	216.7	891.9	740.0	151.87	5.873	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-90.80	-0.4	-30.0	30.0	23.6	6.43	4.666	
100.0	100.0	100.0	100.0	3.2	3.2	-90.80	-0.4	-30.0	30.0	23.1	6.89	4.353	
200.0	200.0	200.0	200.0	3.5	3.5	-90.80	-0.4	-30.0	30.0	22.7	7.33	4.094	
300.0	300.0	300.0	300.0	3.7	3.7	-90.80	-0.4	-30.0	30.0	22.3	7.74	3.875	
400.0	400.0	400.0	400.0	3.9	3.9	-90.80	-0.4	-30.0	30.0	21.9	8.14	3.688	
500.0	500.0	500.0	500.0	4.1	4.1	-90.80	-0.4	-30.0	30.0	21.5	8.51	3.524	
600.0	600.0	600.0	600.0	4.2	4.2	-90.80	-0.4	-30.0	30.0	21.1	8.88	3.379	
700.0	700.0	700.0	700.0	4.4	4.4	-90.80	-0.4	-30.0	30.0	20.8	9.23	3.250	
800.0	800.0	800.0	800.0	4.6	4.6	-90.80	-0.4	-30.0	30.0	20.4	9.57	3.135	
900.0	900.0	900.0	900.0	4.8	4.8	-90.80	-0.4	-30.0	30.0	20.1	9.90	3.030	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.80	-0.4	-30.0	30.0	19.8	10.22	2.934 CC	
1,100.0	1,100.0	1,101.0	1,101.0	5.2	5.2	-166.56	0.1	-28.3	30.0	19.3	10.71	2.803	
1,200.0	1,199.8	1,202.0	1,201.9	5.4	5.4	-165.85	1.8	-23.2	30.1	18.9	11.19	2.688	
1,300.0	1,299.5	1,303.0	1,302.5	5.7	5.7	-164.68	4.5	-14.8	30.2	18.5	11.67	2.583	
1,400.0	1,398.7	1,404.0	1,402.7	6.0	6.0	-163.05	8.4	-2.9	30.3	18.1	12.18	2.488	
1,500.0	1,497.5	1,505.0	1,502.4	6.3	6.3	-160.98	13.3	12.2	30.5	17.8	12.70	2.405 ES	
1,600.0	1,595.6	1,605.4	1,601.0	6.6	6.5	-158.94	19.1	30.1	31.4	18.2	13.14	2.386 SF	
1,675.0	1,668.8	1,680.4	1,674.6	6.8	6.7	-158.76	23.5	43.7	33.9	20.4	13.52	2.505	
1,700.0	1,693.1	1,705.4	1,699.1	6.9	6.8	-158.91	25.0	48.3	35.0	21.4	13.64	2.568	
1,800.0	1,790.3	1,805.3	1,797.2	7.2	7.1	-159.41	30.9	66.4	39.6	25.4	14.23	2.784	
1,900.0	1,887.6	1,905.2	1,895.3	7.5	7.4	-159.80	36.8	84.5	44.2	29.4	14.84	2.979	
2,000.0	1,984.8	2,005.0	1,993.3	7.9	7.7	-160.12	42.7	102.6	48.8	33.3	15.49	3.152	
2,100.0	2,082.0	2,104.9	2,091.4	8.2	8.1	-160.38	48.6	120.8	53.4	37.2	16.16	3.305	
2,200.0	2,179.3	2,204.8	2,189.4	8.6	8.4	-160.61	54.5	138.9	58.0	41.2	16.85	3.442	
2,300.0	2,276.5	2,304.7	2,287.5	8.9	8.8	-160.80	60.3	157.0	62.6	45.0	17.57	3.563	
2,400.0	2,373.7	2,404.6	2,385.5	9.3	9.2	-160.96	66.2	175.1	67.2	48.9	18.30	3.672	
2,500.0	2,471.0	2,504.5	2,483.6	9.7	9.6	-161.11	72.1	193.3	71.8	52.8	19.05	3.769	
2,600.0	2,568.2	2,604.4	2,581.7	10.1	10.0	-161.23	78.0	211.4	76.4	56.6	19.82	3.856	
2,700.0	2,665.5	2,704.3	2,679.7	10.5	10.3	-161.34	83.9	229.5	81.0	60.4	20.59	3.934	
2,800.0	2,762.7	2,804.2	2,777.8	11.0	10.7	-161.44	89.8	247.7	85.6	64.2	21.38	4.004	
2,900.0	2,859.9	2,904.1	2,875.8	11.4	11.2	-161.53	95.7	265.8	90.2	68.0	22.18	4.067	
3,000.0	2,957.2	3,004.0	2,973.9	11.8	11.6	-161.61	101.6	283.9	94.8	71.8	22.99	4.125	
3,100.0	3,054.4	3,103.9	3,072.0	12.2	12.0	-161.69	107.5	302.0	99.4	75.6	23.80	4.177	
3,200.0	3,151.6	3,203.8	3,170.0	12.7	12.4	-161.75	113.4	320.2	104.0	79.4	24.62	4.224	
3,300.0	3,248.9	3,303.7	3,268.1	13.1	12.8	-161.81	119.2	338.3	108.6	83.2	25.45	4.267	
3,400.0	3,346.1	3,403.6	3,366.1	13.5	13.2	-161.87	125.1	356.4	113.2	86.9	26.29	4.307	
3,500.0	3,443.3	3,503.5	3,464.2	14.0	13.7	-161.92	131.0	374.6	117.8	90.7	27.13	4.343	
3,600.0	3,540.6	3,603.4	3,562.3	14.4	14.1	-161.97	136.9	392.7	122.4	94.5	27.97	4.377	
3,700.0	3,637.8	3,703.2	3,660.3	14.9	14.5	-162.01	142.8	410.8	127.0	98.2	28.82	4.407	
3,800.0	3,735.1	3,803.1	3,758.4	15.3	15.0	-162.06	148.7	428.9	131.6	102.0	29.68	4.436	
3,900.0	3,832.3	3,903.0	3,856.4	15.8	15.4	-162.09	154.6	447.1	136.2	105.7	30.53	4.462	
4,000.0	3,929.5	4,002.9	3,954.5	16.3	15.8	-162.13	160.5	465.2	140.8	109.4	31.39	4.486	
4,100.0	4,026.8	4,102.8	4,052.5	16.7	16.3	-162.16	166.4	483.3	145.4	113.2	32.26	4.509	
4,200.0	4,124.0	4,202.7	4,150.6	17.2	16.7	-162.20	172.3	501.4	150.0	116.9	33.12	4.530	
4,300.0	4,221.2	4,302.6	4,248.7	17.6	17.2	-162.22	178.2	519.6	154.6	120.7	33.99	4.550	
4,400.0	4,318.5	4,402.5	4,346.7	18.1	17.6	-162.25	184.0	537.7	159.3	124.4	34.86	4.568	
4,500.0	4,415.7	4,502.4	4,444.8	18.6	18.1	-162.28	189.9	555.8	163.9	128.1	35.74	4.585	
4,600.0	4,513.0	4,602.3	4,542.8	19.0	18.5	-162.30	195.8	574.0	168.5	131.8	36.61	4.601	
4,700.0	4,610.2	4,702.2	4,640.9	19.5	18.9	-162.33	201.7	592.1	173.1	135.6	37.49	4.616	
4,800.0	4,707.4	4,802.1	4,739.0	20.0	19.4	-162.35	207.6	610.2	177.7	139.3	38.37	4.630	
4,900.0	4,804.7	4,902.0	4,837.0	20.4	19.8	-162.37	213.5	628.3	182.3	143.0	39.25	4.644	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.0	4,901.9	5,001.9	4,935.1	20.9	20.3	-162.39	219.4	646.5	186.9	146.7	40.13	4.656	
5,100.0	4,999.1	5,101.8	5,033.1	21.4	20.7	-162.41	225.3	664.6	191.5	150.5	41.02	4.668	
5,200.0	5,096.4	5,200.0	5,129.6	21.8	21.2	-162.48	230.9	682.0	196.5	154.6	41.89	4.691	
5,300.0	5,193.6	5,296.1	5,224.3	22.3	21.6	-162.70	236.0	697.6	203.0	160.3	42.77	4.747	
5,400.0	5,290.8	5,392.5	5,319.6	22.8	22.0	-163.07	240.6	711.7	211.1	167.5	43.66	4.836	
5,500.0	5,388.1	5,488.6	5,414.8	23.3	22.4	-163.55	244.6	724.2	220.8	176.3	44.55	4.956	
5,600.0	5,485.3	5,584.4	5,509.9	23.7	22.8	-164.13	248.2	735.2	232.1	186.6	45.44	5.107	
5,700.0	5,582.6	5,679.8	5,604.7	24.2	23.2	-164.79	251.3	744.7	244.9	198.6	46.31	5.288	
5,800.0	5,679.8	5,774.7	5,699.3	24.7	23.5	-165.48	253.8	752.6	259.3	212.2	47.17	5.498	
5,900.0	5,777.0	5,869.2	5,793.5	25.2	23.9	-166.21	255.9	758.9	275.4	227.4	48.00	5.737	
6,000.0	5,874.3	5,963.1	5,887.3	25.6	24.2	-166.94	257.5	763.8	293.0	244.2	48.80	6.004	
6,077.9	5,950.0	6,035.8	5,960.0	26.0	24.4	-167.51	258.4	766.6	307.8	258.4	49.39	6.233	
6,100.0	5,971.5	6,056.4	5,980.6	26.1	24.5	-167.68	258.6	767.2	312.2	262.6	49.55	6.300	
6,200.0	6,069.0	6,149.4	6,073.5	26.6	24.8	-168.39	259.2	769.2	331.8	281.5	50.24	6.603	
6,300.0	6,166.9	6,242.8	6,166.9	27.0	24.9	-169.04	259.4	769.7	351.2	300.4	50.84	6.909	
6,400.0	6,265.2	6,341.0	6,265.2	27.5	25.0	-169.63	259.4	769.7	369.6	318.2	51.41	7.190	
6,500.0	6,363.7	6,439.6	6,363.7	27.9	25.0	-170.11	259.4	769.7	386.3	334.4	51.96	7.436	
6,600.0	6,462.5	6,538.4	6,462.5	28.4	25.0	-170.51	259.4	769.7	401.4	348.9	52.49	7.647	
6,700.0	6,561.6	6,637.5	6,561.6	28.8	25.1	-170.84	259.4	769.7	414.8	361.7	53.01	7.824	
6,800.0	6,660.9	6,736.8	6,660.9	29.2	25.1	-171.11	259.4	769.7	426.4	372.9	53.51	7.969	
6,900.0	6,760.4	6,836.3	6,760.4	29.6	25.1	-171.33	259.4	769.7	436.4	382.4	53.99	8.083	
7,000.0	6,860.1	6,935.9	6,860.1	30.0	25.2	-171.50	259.4	769.7	444.6	390.2	54.44	8.166	
7,100.0	6,959.8	7,035.7	6,959.8	30.4	25.2	-171.64	259.4	769.7	451.1	396.2	54.88	8.220	
7,200.0	7,059.7	7,135.6	7,059.7	30.7	25.2	-171.73	259.4	769.7	455.9	400.6	55.28	8.247	
7,300.0	7,159.7	7,235.5	7,159.7	31.0	25.3	-171.79	259.4	769.7	459.0	403.3	55.65	8.248	
7,400.0	7,259.7	7,335.5	7,259.7	31.3	25.3	-171.82	259.4	769.7	460.3	404.4	55.95	8.228	
7,427.9	7,287.5	7,363.4	7,287.5	31.3	25.3	-95.82	259.4	769.7	460.4	404.4	55.99	8.224	
7,500.0	7,359.7	7,435.5	7,359.7	31.3	25.4	-95.82	259.4	769.7	460.4	404.4	56.03	8.218	
7,600.0	7,459.7	7,535.5	7,459.7	31.3	25.4	-95.82	259.4	769.7	460.4	404.3	56.09	8.208	
7,700.0	7,559.7	7,635.5	7,559.7	31.4	25.4	-95.82	259.4	769.7	460.4	404.2	56.16	8.198	
7,800.0	7,659.7	7,735.5	7,659.7	31.4	25.5	-95.82	259.4	769.7	460.4	404.2	56.22	8.189	
7,900.0	7,759.7	7,835.5	7,759.7	31.4	25.5	-95.82	259.4	769.7	460.4	404.1	56.29	8.179	
8,000.0	7,859.7	7,935.5	7,859.7	31.4	25.6	-95.82	259.4	769.7	460.4	404.0	56.36	8.169	
8,100.0	7,959.7	8,035.5	7,959.7	31.5	25.6	-95.82	259.4	769.7	460.4	404.0	56.43	8.159	
8,200.0	8,059.7	8,135.5	8,059.7	31.5	25.6	-95.82	259.4	769.7	460.4	403.9	56.49	8.149	
8,300.0	8,159.7	8,235.5	8,159.7	31.5	25.7	-95.82	259.4	769.7	460.4	403.8	56.56	8.140	
8,400.0	8,259.7	8,335.5	8,259.7	31.6	25.7	-95.82	259.4	769.7	460.4	403.8	56.63	8.130	
8,500.0	8,359.7	8,435.5	8,359.7	31.6	25.8	-95.82	259.4	769.7	460.4	403.7	56.70	8.120	
8,600.0	8,459.7	8,535.5	8,459.7	31.6	25.8	-95.82	259.4	769.7	460.4	403.6	56.77	8.110	
8,700.0	8,559.7	8,635.5	8,559.7	31.7	25.8	-95.82	259.4	769.7	460.4	403.6	56.84	8.100	
8,800.0	8,659.7	8,735.5	8,659.7	31.7	25.9	-95.82	259.4	769.7	460.4	403.5	56.91	8.090	
8,900.0	8,759.7	8,835.5	8,759.7	31.7	25.9	-95.82	259.4	769.7	460.4	403.4	56.98	8.080	
9,000.0	8,859.7	8,935.5	8,859.7	31.7	26.0	-95.82	259.4	769.7	460.4	403.3	57.05	8.070	
9,100.0	8,959.7	9,035.5	8,959.7	31.8	26.0	-95.82	259.4	769.7	460.4	403.3	57.12	8.060	
9,200.0	9,059.7	9,135.5	9,059.7	31.8	26.1	-95.82	259.4	769.7	460.4	403.2	57.20	8.050	
9,300.0	9,159.7	9,235.5	9,159.7	31.8	26.1	-95.82	259.4	769.7	460.4	403.1	57.27	8.039	
9,400.0	9,259.7	9,335.5	9,259.7	31.9	26.1	-95.82	259.4	769.7	460.4	403.1	57.34	8.029	
9,500.0	9,359.7	9,435.5	9,359.7	31.9	26.2	-95.82	259.4	769.7	460.4	403.0	57.41	8.019	
9,600.0	9,459.7	9,535.5	9,459.7	31.9	26.2	-95.82	259.4	769.7	460.4	402.9	57.49	8.009	
9,700.0	9,559.7	9,635.5	9,559.7	32.0	26.3	-95.82	259.4	769.7	460.4	402.8	57.56	7.999	
9,800.0	9,659.7	9,735.5	9,659.7	32.0	26.3	-95.82	259.4	769.7	460.4	402.8	57.63	7.988	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
9,900.0	9,759.7	9,835.5	9,759.7	32.0	26.4	-95.82	259.4	769.7	460.4	402.7	57.71	7.978	
10,000.0	9,859.7	9,935.5	9,859.7	32.1	26.4	-95.82	259.4	769.7	460.4	402.6	57.78	7.968	
10,100.0	9,959.7	10,035.5	9,959.7	32.1	26.4	-95.82	259.4	769.7	460.4	402.5	57.86	7.957	
10,200.0	10,059.7	10,135.5	10,059.7	32.1	26.5	-95.82	259.4	769.7	460.4	402.5	57.93	7.947	
10,300.0	10,159.7	10,235.5	10,159.7	32.2	26.5	-95.82	259.4	769.7	460.4	402.4	58.01	7.937	
10,400.0	10,259.7	10,335.5	10,259.7	32.2	26.6	-95.82	259.4	769.7	460.4	402.3	58.08	7.926	
10,500.0	10,359.7	10,435.5	10,359.7	32.2	26.6	-95.82	259.4	769.7	460.4	402.2	58.16	7.916	
10,600.0	10,459.7	10,535.5	10,459.7	32.3	26.7	-95.82	259.4	769.7	460.4	402.2	58.24	7.906	
10,700.0	10,559.7	10,635.5	10,559.7	32.3	26.7	-95.82	259.4	769.7	460.4	402.1	58.32	7.895	
10,800.0	10,659.7	10,735.5	10,659.7	32.3	26.7	-95.82	259.4	769.7	460.4	402.0	58.39	7.885	
10,900.0	10,759.7	10,835.5	10,759.7	32.4	26.8	-95.82	259.4	769.7	460.4	401.9	58.47	7.874	
11,000.0	10,859.7	10,935.5	10,859.7	32.4	26.8	-95.82	259.4	769.7	460.4	401.9	58.55	7.864	
11,100.0	10,959.7	11,035.5	10,959.7	32.5	26.9	-95.82	259.4	769.7	460.4	401.8	58.63	7.853	
11,200.0	11,059.7	11,135.5	11,059.7	32.5	26.9	-95.82	259.4	769.7	460.4	401.7	58.71	7.843	
11,300.0	11,159.7	11,235.5	11,159.7	32.5	27.0	-95.82	259.4	769.7	460.4	401.6	58.78	7.833	
11,400.0	11,259.7	11,325.0	11,248.8	32.6	26.9	-96.58	253.3	769.6	461.3	402.6	58.70	7.858	
11,482.8	11,342.5	11,396.4	11,318.2	32.6	26.8	-98.62	236.6	769.4	464.2	405.6	58.63	7.917	
11,500.0	11,359.7	11,410.4	11,331.4	32.6	26.8	81.56	232.2	769.3	465.1	406.6	58.58	7.940	
11,525.0	11,384.6	11,430.5	11,350.3	32.6	26.7	80.67	225.1	769.2	466.6	408.1	58.48	7.978	
11,550.0	11,409.4	11,450.0	11,368.2	32.5	26.7	79.83	217.5	769.1	468.1	409.8	58.35	8.023	
11,575.0	11,434.1	11,470.3	11,386.5	32.5	26.7	78.97	208.8	769.0	469.7	411.5	58.21	8.070	
11,600.0	11,458.5	11,489.9	11,403.9	32.5	26.7	78.16	199.6	768.8	471.4	413.4	58.03	8.123	
11,625.0	11,482.6	11,509.4	11,420.7	32.5	26.6	77.38	189.8	768.7	473.1	415.3	57.85	8.179	
11,650.0	11,506.3	11,528.7	11,437.0	32.4	26.6	76.64	179.5	768.6	474.9	417.3	57.64	8.239	
11,675.0	11,529.5	11,550.0	11,454.5	32.4	26.6	75.87	167.3	768.4	476.7	419.2	57.47	8.295	
11,700.0	11,552.3	11,567.0	11,468.0	32.4	26.6	75.24	157.0	768.3	478.5	421.3	57.20	8.365	
11,725.0	11,574.4	11,585.9	11,482.6	32.3	26.5	74.60	145.0	768.1	480.3	423.3	56.97	8.430	
11,750.0	11,595.9	11,604.8	11,496.7	32.3	26.5	73.99	132.5	767.9	482.0	425.3	56.73	8.496	
11,775.0	11,616.8	11,625.0	11,511.3	32.3	26.5	73.38	118.4	767.7	483.8	427.3	56.52	8.560	
11,800.0	11,636.8	11,642.2	11,523.2	32.3	26.5	72.88	106.0	767.5	485.5	429.2	56.26	8.630	
11,825.0	11,656.1	11,660.8	11,535.5	32.3	26.5	72.38	92.1	767.3	487.2	431.1	56.02	8.696	
11,850.0	11,674.5	11,679.3	11,547.3	32.2	26.4	71.92	77.8	767.1	488.7	433.0	55.78	8.762	
11,875.0	11,692.0	11,700.0	11,559.7	32.2	26.4	71.47	61.3	766.9	490.3	434.7	55.58	8.820	
11,900.0	11,708.6	11,716.2	11,569.0	32.2	26.4	71.12	48.0	766.7	491.7	436.4	55.33	8.888	
11,925.0	11,724.1	11,734.6	11,578.9	32.2	26.4	70.78	32.6	766.5	493.1	438.0	55.11	8.948	
11,950.0	11,738.6	11,750.0	11,586.8	32.2	26.4	70.51	19.3	766.3	494.4	439.5	54.86	9.012	
11,975.0	11,752.0	11,771.2	11,596.9	32.2	26.4	70.23	0.7	766.1	495.5	440.8	54.69	9.060	
12,000.0	11,764.3	11,789.4	11,605.0	32.2	26.4	70.01	-15.7	765.8	496.6	442.1	54.50	9.112	
12,025.0	11,775.4	11,807.7	11,612.4	32.2	26.4	69.84	-32.3	765.6	497.6	443.3	54.32	9.160	
12,050.0	11,785.4	11,825.0	11,618.8	32.2	26.4	69.70	-48.4	765.4	498.4	444.3	54.14	9.207	
12,075.0	11,794.1	11,844.1	11,625.2	32.2	26.4	69.61	-66.4	765.1	499.2	445.2	53.99	9.246	
12,100.0	11,801.6	11,862.3	11,630.7	32.2	26.4	69.56	-83.8	764.9	499.8	446.0	53.84	9.284	
12,125.0	11,807.8	11,880.5	11,635.5	32.2	26.4	69.55	-101.3	764.6	500.3	446.6	53.70	9.317	
12,150.0	11,812.8	11,900.0	11,639.9	32.2	26.4	69.59	-120.3	764.4	500.7	447.1	53.59	9.343	
12,175.0	11,816.5	11,916.9	11,643.0	32.2	26.4	69.65	-137.0	764.1	501.0	447.5	53.47	9.370	
12,200.0	11,818.8	11,935.2	11,645.8	32.2	26.4	69.77	-155.0	763.9	501.1	447.8	53.37	9.389	
12,225.0	11,819.9	11,953.4	11,647.9	32.3	26.5	69.92	-173.1	763.6	501.2	447.9	53.29	9.405	
12,232.8	11,820.0	11,959.2	11,648.4	32.3	26.5	69.98	-178.9	763.6	501.2	447.9	53.27	9.408	
12,242.1	11,820.0	11,966.0	11,648.9	32.3	26.5	70.04	-185.6	763.5	501.2	447.9	53.24	9.413	
12,300.0	11,820.0	12,012.3	11,650.0	32.4	26.5	70.18	-231.9	762.8	501.4	448.4	53.06	9.451	
12,323.2	11,820.0	12,035.4	11,650.0	32.4	26.6	70.18	-255.1	762.5	501.5	448.4	53.02	9.457	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,400.0	11,820.0	12,112.3	11,650.0	32.5	26.7	70.17	-331.9	761.4	501.2	448.3	52.93	9.469
12,500.0	11,820.0	12,212.3	11,650.0	32.7	26.9	70.16	-431.9	760.0	500.9	448.0	52.87	9.474
12,600.0	11,820.0	12,312.3	11,650.0	32.9	27.1	70.14	-531.9	758.6	500.5	447.6	52.87	9.467
12,700.0	11,820.0	12,412.3	11,650.0	33.1	27.3	70.13	-631.9	757.2	500.2	447.2	52.94	9.448
12,800.0	11,820.0	12,512.3	11,650.0	33.3	27.6	70.12	-731.8	755.8	499.8	446.8	53.07	9.418
12,900.0	11,820.0	12,612.3	11,650.0	33.6	27.9	70.10	-831.8	754.4	499.5	446.2	53.27	9.377
13,000.0	11,820.0	12,712.3	11,650.0	33.9	28.2	70.09	-931.8	753.1	499.2	445.6	53.53	9.325
13,100.0	11,820.0	12,812.3	11,650.0	34.2	28.6	70.07	-1,031.8	751.7	498.8	445.0	53.85	9.263
13,200.0	11,820.0	12,912.3	11,650.0	34.6	29.0	70.06	-1,131.8	750.3	498.5	444.2	54.23	9.192
13,300.0	11,820.0	13,012.3	11,650.0	34.9	29.4	70.05	-1,231.8	748.9	498.1	443.5	54.67	9.111
13,400.0	11,820.0	13,112.3	11,650.0	35.3	29.8	70.03	-1,331.8	747.5	497.8	442.6	55.18	9.022
13,500.0	11,820.0	13,212.3	11,650.0	35.7	30.3	70.02	-1,431.8	746.1	497.5	441.7	55.73	8.925
13,600.0	11,820.0	13,312.3	11,650.0	36.1	30.7	70.00	-1,531.8	744.7	497.1	440.8	56.35	8.822
13,700.0	11,820.0	13,412.3	11,650.0	36.6	31.2	69.99	-1,631.7	743.3	496.8	439.8	57.02	8.713
13,800.0	11,820.0	13,512.3	11,650.0	37.0	31.8	69.97	-1,731.7	741.9	496.4	438.7	57.73	8.599
13,900.0	11,820.0	13,612.3	11,650.0	37.5	32.3	69.96	-1,831.7	740.5	496.1	437.6	58.50	8.480
14,000.0	11,820.0	13,712.3	11,650.0	38.0	32.9	69.95	-1,931.7	739.1	495.8	436.4	59.32	8.358
14,100.0	11,820.0	13,812.3	11,650.0	38.5	33.4	69.93	-2,031.7	737.7	495.4	435.2	60.18	8.233
14,200.0	11,820.0	13,912.3	11,650.0	39.1	34.0	69.92	-2,131.7	736.3	495.1	434.0	61.08	8.105
14,300.0	11,820.0	14,012.3	11,650.0	39.6	34.6	69.90	-2,231.7	734.9	494.7	432.7	62.03	7.976
14,400.0	11,820.0	14,112.3	11,650.0	40.2	35.2	69.89	-2,331.7	733.5	494.4	431.4	63.02	7.846
14,500.0	11,820.0	14,212.3	11,650.0	40.7	35.9	69.87	-2,431.7	732.1	494.1	430.0	64.04	7.715
14,600.0	11,820.0	14,312.3	11,650.0	41.3	36.5	69.86	-2,531.7	730.7	493.7	428.6	65.10	7.584
14,700.0	11,820.0	14,412.3	11,650.0	41.9	37.2	69.84	-2,631.6	729.3	493.4	427.2	66.19	7.454
14,800.0	11,820.0	14,512.2	11,650.0	42.5	37.9	69.83	-2,731.6	727.9	493.0	425.7	67.32	7.324
14,900.0	11,820.0	14,612.2	11,650.0	43.2	38.6	69.82	-2,831.6	726.5	492.7	424.2	68.48	7.195
15,000.0	11,820.0	14,712.2	11,650.0	43.8	39.3	69.80	-2,931.6	725.1	492.4	422.7	69.67	7.067
15,100.0	11,820.0	14,812.2	11,650.0	44.4	40.0	69.79	-3,031.6	723.7	492.0	421.1	70.88	6.941
15,200.0	11,820.0	14,912.2	11,650.0	45.1	40.7	69.77	-3,131.6	722.3	491.7	419.6	72.13	6.817
15,300.0	11,820.0	15,012.2	11,650.0	45.8	41.4	69.76	-3,231.6	720.9	491.3	418.0	73.39	6.695
15,400.0	11,820.0	15,112.2	11,650.0	46.4	42.2	69.74	-3,331.6	719.5	491.0	416.3	74.68	6.574
15,500.0	11,820.0	15,212.2	11,650.0	47.1	42.9	69.73	-3,431.6	718.1	490.7	414.7	76.00	6.456
15,600.0	11,820.0	15,312.2	11,650.0	47.8	43.7	69.71	-3,531.5	716.8	490.3	413.0	77.33	6.340
15,700.0	11,820.0	15,412.2	11,650.0	48.5	44.4	69.70	-3,631.5	715.4	490.0	411.3	78.69	6.227
15,800.0	11,820.0	15,512.2	11,650.0	49.2	45.2	69.68	-3,731.5	714.0	489.7	409.6	80.06	6.116
15,900.0	11,820.0	15,612.2	11,650.0	50.0	46.0	69.67	-3,831.5	712.6	489.3	407.9	81.46	6.007
16,000.0	11,820.0	15,712.2	11,650.0	50.7	46.8	69.66	-3,931.5	711.2	489.0	406.1	82.87	5.901
16,100.0	11,820.0	15,812.2	11,650.0	51.4	47.6	69.64	-4,031.5	709.8	488.6	404.3	84.30	5.797
16,200.0	11,820.0	15,912.2	11,650.0	52.2	48.4	69.63	-4,131.5	708.4	488.3	402.6	85.74	5.695
16,300.0	11,820.0	16,012.2	11,650.0	52.9	49.2	69.61	-4,231.5	707.0	488.0	400.8	87.20	5.596
16,400.0	11,820.0	16,112.2	11,650.0	53.7	50.0	69.60	-4,331.5	705.6	487.6	398.9	88.67	5.499
16,500.0	11,820.0	16,212.2	11,650.0	54.4	50.8	69.58	-4,431.5	704.2	487.3	397.1	90.15	5.405
16,600.0	11,820.0	16,312.2	11,650.0	55.2	51.6	69.57	-4,531.4	702.8	486.9	395.3	91.65	5.313
16,700.0	11,820.0	16,412.2	11,650.0	56.0	52.4	69.55	-4,631.4	701.4	486.6	393.4	93.16	5.223
16,800.0	11,820.0	16,512.2	11,650.0	56.8	53.2	69.54	-4,731.4	700.0	486.3	391.6	94.68	5.136
16,900.0	11,820.0	16,612.2	11,650.0	57.6	54.1	69.52	-4,831.4	698.6	485.9	389.7	96.22	5.050
17,000.0	11,820.0	16,712.2	11,650.0	58.3	54.9	69.51	-4,931.4	697.2	485.6	387.8	97.76	4.967
17,100.0	11,820.0	16,812.2	11,650.0	59.1	55.8	69.49	-5,031.4	695.8	485.2	385.9	99.31	4.886
17,200.0	11,820.0	16,912.2	11,650.0	59.9	56.6	69.48	-5,131.4	694.4	484.9	384.0	100.88	4.807
17,300.0	11,820.0	17,012.2	11,650.0	60.7	57.4	69.46	-5,231.4	693.0	484.6	382.1	102.45	4.730
17,400.0	11,820.0	17,112.2	11,650.0	61.6	58.3	69.45	-5,331.4	691.6	484.2	380.2	104.03	4.655

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
17,500.0	11,820.0	17,212.2	11,650.0	62.4	59.1	69.43	-5,431.4	690.2	483.9	378.3	105.62	4.582
17,600.0	11,820.0	17,312.2	11,650.0	63.2	60.0	69.42	-5,531.3	688.8	483.6	376.3	107.21	4.510
17,700.0	11,820.0	17,412.2	11,650.0	64.0	60.9	69.40	-5,631.3	687.4	483.2	374.4	108.82	4.441
17,800.0	11,820.0	17,512.2	11,650.0	64.8	61.7	69.39	-5,731.3	686.0	482.9	372.5	110.43	4.373
17,900.0	11,820.0	17,612.2	11,650.0	65.7	62.6	69.37	-5,831.3	684.6	482.5	370.5	112.05	4.307
18,000.0	11,820.0	17,712.2	11,650.0	66.5	63.5	69.36	-5,931.3	683.2	482.2	368.5	113.67	4.242
18,100.0	11,820.0	17,812.2	11,650.0	67.3	64.3	69.34	-6,031.3	681.9	481.9	366.6	115.30	4.179
18,200.0	11,820.0	17,912.2	11,650.0	68.2	65.2	69.33	-6,131.3	680.5	481.5	364.6	116.94	4.118
18,300.0	11,820.0	18,012.2	11,650.0	69.0	66.1	69.31	-6,231.3	679.1	481.2	362.6	118.58	4.058
18,400.0	11,820.0	18,112.2	11,650.0	69.8	67.0	69.30	-6,331.3	677.7	480.9	360.6	120.23	3.999
18,500.0	11,820.0	18,212.2	11,650.0	70.7	67.8	69.28	-6,431.2	676.3	480.5	358.6	121.88	3.942
18,600.0	11,820.0	18,312.2	11,650.0	71.5	68.7	69.27	-6,531.2	674.9	480.2	356.6	123.54	3.887
18,700.0	11,820.0	18,412.2	11,650.0	72.4	69.6	69.25	-6,631.2	673.5	479.8	354.6	125.20	3.832
18,800.0	11,820.0	18,512.2	11,650.0	73.2	70.5	69.23	-6,731.2	672.1	479.5	352.6	126.87	3.779
18,900.0	11,820.0	18,612.2	11,650.0	74.1	71.4	69.22	-6,831.2	670.7	479.2	350.6	128.54	3.728
19,000.0	11,820.0	18,712.2	11,650.0	75.0	72.3	69.20	-6,931.2	669.3	478.8	348.6	130.22	3.677
19,100.0	11,820.0	18,812.2	11,650.0	75.8	73.2	69.19	-7,031.2	667.9	478.5	346.6	131.90	3.628
19,200.0	11,820.0	18,912.2	11,650.0	76.7	74.0	69.17	-7,131.2	666.5	478.1	344.6	133.59	3.579
19,300.0	11,820.0	19,012.2	11,650.0	77.6	74.9	69.16	-7,231.2	665.1	477.8	342.5	135.27	3.532
19,400.0	11,820.0	19,112.2	11,650.0	78.4	75.8	69.14	-7,331.2	663.7	477.5	340.5	136.97	3.486
19,474.3	11,820.0	19,186.5	11,650.0	79.1	76.5	69.13	-7,405.5	662.7	477.2	339.0	138.22	3.453

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #1H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 13-MWD+IFR1, 1162-MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,200.0	11,059.7	18,785.0	11,725.1	32.5	82.5	110.20	51.0	1,920.9	994.2	887.9	106.32	9.351	
11,300.0	11,159.7	18,785.0	11,725.1	32.5	82.5	110.20	51.0	1,920.9	930.2	821.9	108.29	8.590	
11,400.0	11,259.7	18,785.0	11,725.1	32.6	82.5	110.20	51.0	1,920.9	873.1	762.7	110.41	7.908	
11,482.8	11,342.5	18,785.0	11,725.1	32.6	82.5	110.20	51.0	1,920.9	831.9	719.7	112.19	7.415	
11,500.0	11,359.7	18,785.0	11,725.1	32.6	82.5	-69.99	51.0	1,920.9	824.0	711.5	112.57	7.320	
11,525.0	11,384.6	18,785.0	11,725.1	32.6	82.5	-71.42	51.0	1,920.9	812.8	699.6	113.15	7.183	
11,550.0	11,409.4	18,785.0	11,725.1	32.5	82.5	-72.82	51.0	1,920.9	801.7	688.0	113.77	7.047	
11,575.0	11,434.1	18,785.0	11,725.1	32.5	82.5	-74.19	51.0	1,920.9	791.0	676.6	114.42	6.913	
11,600.0	11,458.5	18,785.0	11,725.1	32.5	82.5	-75.52	51.0	1,920.9	780.6	665.5	115.10	6.782	
11,625.0	11,482.6	18,785.0	11,725.1	32.5	82.5	-76.79	51.0	1,920.9	770.6	654.8	115.80	6.654	
11,650.0	11,506.3	18,785.0	11,725.1	32.4	82.5	-78.02	51.0	1,920.9	760.9	644.4	116.52	6.531	
11,675.0	11,529.5	18,785.0	11,725.1	32.4	82.5	-79.18	51.0	1,920.9	751.8	634.5	117.25	6.411	
11,700.0	11,552.3	18,785.0	11,725.1	32.4	82.5	-80.27	51.0	1,920.9	743.1	625.1	117.99	6.298	
11,725.0	11,574.4	18,785.0	11,725.1	32.3	82.5	-81.29	51.0	1,920.9	734.9	616.2	118.73	6.190	
11,750.0	11,595.9	18,785.0	11,725.1	32.3	82.5	-82.23	51.0	1,920.9	727.4	607.9	119.45	6.089	
11,775.0	11,616.8	18,785.0	11,725.1	32.3	82.5	-83.09	51.0	1,920.9	720.4	600.3	120.16	5.996	
11,800.0	11,636.8	18,785.0	11,725.1	32.3	82.5	-83.87	51.0	1,920.9	714.1	593.3	120.83	5.910	
11,825.0	11,656.1	18,785.0	11,725.1	32.3	82.5	-84.55	51.0	1,920.9	708.5	587.1	121.46	5.833	
11,850.0	11,674.5	18,785.0	11,725.1	32.2	82.5	-85.15	51.0	1,920.9	703.6	581.6	122.04	5.766	
11,875.0	11,692.0	18,785.0	11,725.1	32.2	82.5	-85.65	51.0	1,920.9	699.5	577.0	122.55	5.708	
11,900.0	11,708.6	18,785.0	11,725.1	32.2	82.5	-86.06	51.0	1,920.9	696.2	573.2	122.99	5.660	
11,925.0	11,724.1	18,785.0	11,725.1	32.2	82.5	-86.37	51.0	1,920.9	693.6	570.2	123.35	5.623	
11,950.0	11,738.6	18,785.0	11,725.1	32.2	82.5	-86.58	51.0	1,920.9	691.8	568.2	123.61	5.597	
11,975.0	11,752.0	18,785.0	11,725.1	32.2	82.5	-86.69	51.0	1,920.9	690.9	567.1	123.78	5.582	
11,990.5	11,759.8	18,785.0	11,725.1	32.2	82.5	-86.71	51.0	1,920.9	690.7	566.9	123.84	5.578 CC, ES	
12,000.0	11,764.3	18,785.0	11,725.1	32.2	82.5	-86.70	51.0	1,920.9	690.8	567.0	123.85	5.578 SF	
12,025.0	11,775.4	18,785.0	11,725.1	32.2	82.5	-86.61	51.0	1,920.9	691.5	567.7	123.81	5.586	
12,050.0	11,785.4	18,783.0	11,725.1	32.2	82.5	-86.36	49.1	1,921.1	693.1	569.4	123.65	5.605	
12,075.0	11,794.1	18,759.8	11,724.7	32.2	82.3	-85.44	25.8	1,922.5	695.0	571.7	123.35	5.635	
12,100.0	11,801.6	18,736.0	11,724.4	32.2	82.1	-84.61	2.2	1,923.9	696.9	573.9	123.04	5.664	
12,125.0	11,807.8	18,722.0	11,724.2	32.2	81.9	-84.07	-11.8	1,924.7	698.8	576.1	122.77	5.692	
12,150.0	11,812.8	18,695.1	11,723.8	32.2	81.7	-83.37	-38.7	1,926.4	700.7	578.3	122.46	5.722	
12,175.0	11,816.5	18,675.9	11,723.4	32.2	81.5	-82.88	-57.8	1,927.9	702.7	580.5	122.17	5.752	
12,200.0	11,818.8	18,656.6	11,722.9	32.2	81.3	-82.46	-77.1	1,929.4	704.8	582.9	121.89	5.782	
12,225.0	11,819.9	18,632.9	11,722.3	32.3	81.1	-82.11	-100.7	1,931.5	706.8	585.2	121.62	5.812	
12,232.8	11,820.0	18,622.9	11,722.0	32.3	81.0	-82.02	-110.6	1,932.3	707.4	585.9	121.53	5.821	
12,300.0	11,820.0	18,539.7	11,720.0	32.4	80.3	-81.91	-193.6	1,938.2	712.2	591.4	120.75	5.898	
12,323.2	11,820.0	18,515.1	11,719.5	32.4	80.0	-81.88	-218.1	1,939.7	713.9	593.4	120.50	5.925	
12,400.0	11,820.0	18,436.9	11,718.1	32.5	79.3	-81.84	-296.2	1,944.1	719.7	600.0	119.69	6.013	
12,500.0	11,820.0	18,288.4	11,716.8	32.7	78.0	-81.85	-444.5	1,951.1	727.3	609.1	118.25	6.151	
12,600.0	11,820.0	18,149.4	11,717.5	32.9	76.8	-81.86	-583.3	1,945.5	724.8	608.1	116.72	6.210	
12,700.0	11,820.0	18,017.0	11,717.7	33.1	75.8	-81.78	-715.2	1,933.6	717.5	602.3	115.17	6.230	
12,800.0	11,820.0	17,930.6	11,717.4	33.3	75.1	-81.66	-801.1	1,924.5	708.9	594.3	114.63	6.184	
12,900.0	11,820.0	17,860.9	11,716.4	33.6	74.5	-81.53	-870.7	1,919.4	703.7	589.3	114.39	6.152	
12,955.0	11,820.0	17,825.9	11,716.1	33.8	74.2	-81.50	-905.6	1,918.2	702.9	588.7	114.25	6.152	
13,000.0	11,820.0	17,796.0	11,716.1	33.9	74.0	-81.51	-935.5	1,918.0	703.4	589.4	114.08	6.166	
13,100.0	11,820.0	17,720.5	11,715.5	34.2	73.3	-81.49	-1,011.0	1,919.7	707.4	593.9	113.49	6.233	
13,200.0	11,820.0	17,592.8	11,714.9	34.6	72.3	-81.51	-1,138.7	1,922.9	711.9	599.6	112.37	6.336	
13,299.4	11,820.0	17,481.3	11,715.9	34.9	71.3	-81.59	-1,250.1	1,921.0	711.7	600.3	111.44	6.386	
13,300.0	11,820.0	17,480.8	11,715.9	34.9	71.3	-81.59	-1,250.6	1,921.0	711.7	600.3	111.44	6.386	
13,400.0	11,820.0	17,400.0	11,716.6	35.3	70.6	-81.67	-1,331.3	1,921.1	713.4	602.4	110.95	6.430	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #1H - OWB - AWP												Offset Site Error: 0.0 usft	
Survey Program: 13-MWD+IFR1, 1162-MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,500.0	11,820.0	17,298.0	11,716.3	35.7	69.8	-81.67	-1,433.4	1,921.8	715.8	605.6	110.20	6.496	
13,600.0	11,820.0	17,195.0	11,716.7	36.1	68.9	-81.73	-1,536.4	1,922.7	718.4	609.0	109.46	6.563	
13,700.0	11,820.0	17,093.9	11,717.3	36.6	68.1	-81.79	-1,637.4	1,922.3	719.6	610.8	108.78	6.615	
13,800.0	11,820.0	17,012.6	11,716.7	37.0	67.4	-81.77	-1,718.7	1,923.4	722.8	614.4	108.36	6.670	
13,900.0	11,820.0	16,929.2	11,715.6	37.5	66.7	-81.74	-1,802.1	1,926.5	728.4	620.5	107.90	6.751	
14,000.0	11,820.0	16,839.3	11,714.4	38.0	66.0	-81.73	-1,891.9	1,931.7	736.1	628.7	107.37	6.855	
14,100.0	11,820.0	16,726.0	11,714.9	38.5	65.0	-81.85	-2,005.0	1,937.0	742.2	635.6	106.68	6.957	
14,200.0	11,820.0	16,646.3	11,715.1	39.1	64.4	-81.93	-2,084.5	1,941.8	749.9	643.6	106.29	7.055	
14,300.0	11,820.0	16,551.7	11,713.0	39.6	63.6	-81.87	-2,178.8	1,949.2	759.7	653.9	105.82	7.179	
14,400.0	11,820.0	16,399.5	11,715.7	40.2	62.4	-82.15	-2,330.8	1,954.8	764.2	659.4	104.84	7.289	
14,500.0	11,820.0	16,332.2	11,718.0	40.7	61.8	-82.35	-2,398.1	1,956.6	768.5	663.8	104.72	7.339	
14,600.0	11,820.0	16,257.2	11,717.3	41.3	61.2	-82.37	-2,472.8	1,962.7	778.0	673.6	104.48	7.447	
14,700.0	11,820.0	16,036.0	11,718.4	41.9	59.5	-82.50	-2,693.7	1,963.7	779.9	677.3	102.65	7.598	
14,800.0	11,820.0	15,941.8	11,717.0	42.5	58.8	-82.35	-2,787.6	1,956.4	774.2	671.7	102.50	7.553	
14,900.0	11,820.0	15,838.3	11,715.5	43.2	58.1	-82.19	-2,890.9	1,949.9	770.0	667.7	102.22	7.532	
15,000.0	11,820.0	15,767.3	11,715.4	43.8	57.6	-82.15	-2,961.8	1,945.7	766.0	663.5	102.50	7.473	
15,024.0	11,820.0	15,753.4	11,715.2	43.9	57.5	-82.13	-2,975.6	1,945.3	765.9	663.3	102.61	7.464	
15,100.0	11,820.0	15,703.5	11,713.7	44.4	57.1	-82.04	-3,025.5	1,945.3	767.4	664.6	102.81	7.464	
15,200.0	11,820.0	15,606.6	11,708.5	45.1	56.4	-81.68	-3,122.3	1,946.4	771.0	668.3	102.72	7.506	
15,300.0	11,820.0	15,506.1	11,702.0	45.8	55.6	-81.23	-3,222.5	1,947.2	774.6	671.9	102.65	7.545	
15,400.0	11,820.0	15,403.7	11,694.7	46.4	54.9	-80.74	-3,324.7	1,948.8	778.9	676.3	102.61	7.591	
15,500.0	11,820.0	15,295.1	11,692.2	47.1	54.1	-80.57	-3,433.2	1,948.3	780.5	678.0	102.48	7.616	
15,600.0	11,820.0	15,155.8	11,689.8	47.8	53.1	-80.42	-3,572.5	1,947.9	782.9	681.0	101.93	7.681	
15,700.0	11,820.0	15,059.0	11,693.4	48.5	52.5	-80.64	-3,669.0	1,942.6	778.7	676.8	101.98	7.636	
15,769.4	11,820.0	15,007.1	11,694.8	49.0	52.1	-80.73	-3,720.9	1,940.5	777.1	674.8	102.27	7.599	
15,800.0	11,820.0	14,990.5	11,694.9	49.2	52.0	-80.74	-3,737.4	1,940.3	777.3	674.9	102.47	7.586	
15,900.0	11,820.0	14,890.6	11,693.9	50.0	51.3	-80.70	-3,837.3	1,941.6	780.5	678.0	102.57	7.610	
16,000.0	11,820.0	14,769.5	11,693.0	50.7	50.5	-80.64	-3,958.4	1,939.8	780.8	678.4	102.43	7.623	
16,100.0	11,820.0	14,656.4	11,694.2	51.4	49.8	-80.70	-4,071.4	1,935.5	778.6	676.2	102.39	7.604	
16,200.0	11,820.0	14,572.6	11,694.5	52.2	49.3	-80.70	-4,155.1	1,932.6	776.9	674.1	102.84	7.554	
16,212.6	11,820.0	14,563.8	11,694.3	52.3	49.2	-80.69	-4,164.0	1,932.4	776.9	673.9	102.93	7.548	
16,300.0	11,820.0	14,493.0	11,691.2	52.9	48.8	-80.48	-4,234.7	1,932.0	778.4	675.0	103.40	7.528	
16,400.0	11,820.0	14,390.0	11,686.2	53.7	48.1	-80.14	-4,337.6	1,932.2	781.1	677.4	103.70	7.532	
16,500.0	11,820.0	14,303.1	11,681.8	54.4	47.6	-79.84	-4,424.4	1,932.2	783.8	679.5	104.23	7.520	
16,600.0	11,820.0	14,180.7	11,680.3	55.2	46.9	-79.76	-4,546.7	1,931.7	785.2	680.9	104.31	7.527	
16,700.0	11,820.0	14,086.9	11,679.9	56.0	46.3	-79.74	-4,640.4	1,931.0	786.2	681.5	104.77	7.504	
16,800.0	11,820.0	13,987.8	11,677.2	56.8	45.7	-79.56	-4,739.5	1,930.3	787.8	682.5	105.23	7.486	
16,900.0	11,820.0	13,882.4	11,673.9	57.6	45.2	-79.33	-4,844.9	1,929.1	789.0	683.4	105.67	7.467	
17,000.0	11,820.0	13,775.6	11,674.4	58.3	44.6	-79.37	-4,951.7	1,927.7	789.4	683.3	106.04	7.444	
17,100.0	11,820.0	13,671.6	11,674.9	59.1	44.1	-79.41	-5,055.7	1,925.7	789.0	682.6	106.49	7.410	
17,200.0	11,820.0	13,549.0	11,675.1	59.9	43.4	-79.39	-5,178.2	1,921.3	787.3	680.6	106.70	7.378	
17,300.0	11,820.0	13,472.0	11,675.2	60.7	43.1	-79.38	-5,255.1	1,918.3	785.2	677.6	107.63	7.296	
17,320.8	11,820.0	13,455.0	11,674.9	60.9	43.0	-79.35	-5,272.1	1,917.9	785.2	677.4	107.81	7.283	
17,400.0	11,820.0	13,385.7	11,673.1	61.6	42.7	-79.23	-5,341.4	1,916.9	785.8	677.3	108.45	7.246	
17,500.0	11,820.0	13,292.1	11,670.6	62.4	42.2	-79.06	-5,434.9	1,916.4	787.5	678.3	109.20	7.212	
17,600.0	11,820.0	13,186.4	11,671.3	63.2	41.8	-79.14	-5,540.6	1,916.7	789.4	679.6	109.77	7.192	
17,700.0	11,820.0	13,093.9	11,672.1	64.0	41.4	-79.22	-5,633.1	1,916.8	791.1	680.6	110.51	7.158	
17,800.0	11,820.0	12,984.0	11,671.4	64.8	40.9	-79.20	-5,743.0	1,916.5	792.6	681.5	111.12	7.133	
17,900.0	11,820.0	12,911.8	11,671.6	65.7	40.7	-79.23	-5,815.2	1,917.1	795.2	683.0	112.14	7.091	
18,000.0	11,820.0	12,824.3	11,671.0	66.5	40.3	-79.26	-5,902.7	1,920.6	800.9	687.9	112.98	7.089	
18,100.0	11,820.0	12,743.4	11,668.6	67.3	40.1	-79.16	-5,983.3	1,924.4	807.9	694.0	113.90	7.093	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #1H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 13-MWD+IFR1, 1162-MWD+IFR1											Offset Well Error:	3.0 usft
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Warning
18,200.0	11,820.0	12,577.2	11,665.0	68.2	39.5	-79.04	-6,149.3	1,930.6	814.7	700.4	114.22	7.132
18,294.5	11,820.0	12,480.3	11,668.3	69.0	39.2	-79.26	-6,246.1	1,928.8	813.9	699.0	114.93	7.082
18,300.0	11,820.0	12,476.4	11,668.4	69.0	39.2	-79.27	-6,250.0	1,928.8	813.9	699.0	114.99	7.078
18,400.0	11,820.0	12,401.9	11,667.7	69.8	39.0	-79.24	-6,324.5	1,928.9	815.9	699.8	116.14	7.026
18,500.0	11,820.0	12,289.7	11,663.7	70.7	38.7	-79.00	-6,436.6	1,929.8	819.2	702.2	116.99	7.002
18,600.0	11,820.0	12,149.2	11,666.2	71.5	38.4	-79.16	-6,577.1	1,926.3	818.0	700.6	117.36	6.969
18,700.0	11,820.0	12,064.4	11,666.1	72.4	38.2	-79.12	-6,661.8	1,922.6	815.5	696.9	118.53	6.880
18,790.6	11,820.0	11,983.8	11,657.6	73.2	38.1	-78.51	-6,741.7	1,919.0	815.0	695.2	119.72	6.807
18,800.0	11,820.0	11,977.0	11,656.5	73.2	38.1	-78.43	-6,748.5	1,918.7	815.0	695.1	119.87	6.799
18,900.0	11,820.0	11,914.0	11,643.7	74.1	37.9	-77.53	-6,810.1	1,916.7	817.7	696.3	121.45	6.733
19,000.0	11,820.0	11,831.4	11,619.1	75.0	37.8	-75.84	-6,888.9	1,914.6	824.1	701.0	123.02	6.699
19,100.0	11,820.0	11,734.9	11,580.5	75.8	37.5	-73.21	-6,977.1	1,910.1	832.4	707.7	124.70	6.675
19,200.0	11,820.0	11,647.5	11,536.4	76.7	37.3	-70.19	-7,052.1	1,902.0	842.4	716.1	126.34	6.668
19,300.0	11,820.0	11,572.7	11,492.7	77.6	37.1	-67.21	-7,112.1	1,892.8	856.2	728.5	127.69	6.705
19,400.0	11,820.0	11,521.1	11,460.3	78.4	37.0	-65.04	-7,151.7	1,886.2	875.5	747.1	128.41	6.818
19,474.3	11,820.0	11,492.1	11,441.1	79.1	36.9	-63.80	-7,173.2	1,882.9	894.5	766.0	128.46	6.963

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #2H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 13-MWD+IFR1, 4170-MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
11,200.0	11,059.7	19,013.0	11,895.0	32.5	78.2	119.04	47.0	1,694.3	991.3	894.5	96.86	10.235
11,300.0	11,159.7	19,013.0	11,895.0	32.5	78.2	119.04	47.0	1,694.3	908.6	811.0	97.62	9.308
11,400.0	11,259.7	19,013.0	11,895.0	32.6	78.2	119.04	47.0	1,694.3	829.8	731.3	98.54	8.421
11,482.8	11,342.5	19,013.0	11,895.0	32.6	78.2	119.04	47.0	1,694.3	768.2	668.8	99.43	7.726
11,500.0	11,359.7	19,013.0	11,895.0	32.6	78.2	-62.03	47.0	1,694.3	755.9	656.2	99.65	7.585
11,525.0	11,384.6	19,013.0	11,895.0	32.6	78.2	-64.82	47.0	1,694.3	737.8	637.8	100.02	7.377
11,550.0	11,409.4	19,013.0	11,895.0	32.5	78.2	-67.67	47.0	1,694.3	719.9	619.4	100.45	7.166
11,575.0	11,434.1	19,013.0	11,895.0	32.5	78.2	-70.55	47.0	1,694.3	701.9	601.0	100.96	6.953
11,600.0	11,458.5	19,013.0	11,895.0	32.5	78.2	-73.44	47.0	1,694.3	684.1	582.6	101.55	6.737
11,625.0	11,482.6	19,013.0	11,895.0	32.5	78.2	-76.31	47.0	1,694.3	666.5	564.3	102.21	6.521
11,650.0	11,506.3	19,013.0	11,895.0	32.4	78.2	-79.13	47.0	1,694.3	649.2	546.2	102.96	6.306
11,675.0	11,529.5	19,013.0	11,895.0	32.4	78.2	-81.88	47.0	1,694.3	632.2	528.4	103.79	6.091
11,700.0	11,552.3	19,013.0	11,895.0	32.4	78.2	-84.52	47.0	1,694.3	615.6	510.9	104.70	5.880
11,725.0	11,574.4	19,013.0	11,895.0	32.3	78.2	-87.05	47.0	1,694.3	599.5	493.8	105.69	5.672
11,750.0	11,595.9	19,013.0	11,895.0	32.3	78.2	-89.43	47.0	1,694.3	583.9	477.2	106.74	5.470
11,775.0	11,616.8	19,013.0	11,895.0	32.3	78.2	-91.65	47.0	1,694.3	569.0	461.2	107.86	5.276
11,800.0	11,636.8	19,013.0	11,895.0	32.3	78.2	-93.71	47.0	1,694.3	554.9	445.9	109.02	5.090
11,825.0	11,656.1	19,013.0	11,895.0	32.3	78.2	-95.58	47.0	1,694.3	541.6	431.4	110.20	4.915
11,850.0	11,674.5	19,013.0	11,895.0	32.2	78.2	-97.27	47.0	1,694.3	529.3	417.9	111.39	4.752
11,875.0	11,692.0	19,013.0	11,895.0	32.2	78.2	-98.76	47.0	1,694.3	518.1	405.5	112.54	4.603
11,900.0	11,708.6	19,013.0	11,895.0	32.2	78.2	-100.07	47.0	1,694.3	508.0	394.4	113.64	4.470
11,925.0	11,724.1	19,013.0	11,895.0	32.2	78.2	-101.18	47.0	1,694.3	499.2	384.5	114.63	4.355
11,950.0	11,738.6	19,013.0	11,895.0	32.2	78.2	-102.10	47.0	1,694.3	491.7	376.2	115.50	4.257
11,975.0	11,752.0	19,013.0	11,895.0	32.2	78.2	-102.82	47.0	1,694.3	485.7	369.5	116.19	4.180
12,000.0	11,764.3	19,013.0	11,895.0	32.2	78.2	-103.36	47.0	1,694.3	481.2	364.5	116.69	4.124
12,025.0	11,775.4	19,004.6	11,895.0	32.2	78.2	-103.29	38.6	1,694.5	478.2	361.3	116.86	4.092
12,050.0	11,785.4	18,981.7	11,894.9	32.2	78.0	-102.47	15.7	1,694.9	475.9	359.1	116.78	4.075
12,075.0	11,794.1	18,958.3	11,894.8	32.2	77.7	-101.71	-7.7	1,695.4	474.1	357.4	116.66	4.064
12,100.0	11,801.6	18,934.0	11,894.8	32.2	77.5	-101.00	-32.0	1,695.9	472.7	356.2	116.50	4.057
12,125.0	11,807.8	18,909.0	11,894.7	32.2	77.3	-100.37	-57.0	1,696.3	471.5	355.2	116.31	4.054
12,150.0	11,812.8	18,883.6	11,894.6	32.2	77.1	-99.87	-82.3	1,696.7	470.7	354.6	116.09	4.055
12,175.0	11,816.5	18,858.0	11,894.6	32.2	76.8	-99.48	-107.9	1,697.1	470.0	354.2	115.84	4.058
12,200.0	11,818.8	18,832.2	11,894.5	32.2	76.6	-99.24	-133.8	1,697.4	469.6	354.0	115.57	4.063
12,225.0	11,819.9	18,802.2	11,894.6	32.3	76.3	-99.15	-163.8	1,697.5	469.2	354.0	115.22	4.072
12,232.8	11,820.0	18,792.8	11,894.7	32.3	76.2	-99.17	-173.2	1,697.4	469.1	354.0	115.11	4.075
12,300.0	11,820.0	18,712.1	11,896.4	32.4	75.5	-99.41	-253.8	1,695.7	467.7	353.6	114.06	4.100
12,323.2	11,820.0	18,684.2	11,897.5	32.4	75.3	-99.55	-281.6	1,694.4	467.1	353.4	113.68	4.109
12,400.0	11,820.0	18,602.0	11,901.0	32.5	74.6	-100.05	-363.6	1,689.4	464.4	351.8	112.62	4.123
12,500.0	11,820.0	18,495.3	11,903.4	32.7	73.6	-100.45	-470.1	1,682.9	460.5	349.2	111.30	4.137
12,600.0	11,820.0	18,392.9	11,905.2	32.9	72.8	-100.83	-572.1	1,674.5	454.5	344.4	110.11	4.128
12,700.0	11,820.0	18,294.8	11,904.7	33.1	71.9	-100.89	-670.0	1,667.5	449.1	340.0	109.12	4.116
12,800.0	11,820.0	18,193.9	11,902.7	33.3	71.1	-100.76	-770.6	1,660.6	443.8	335.7	108.10	4.105
12,900.0	11,820.0	18,098.3	11,898.8	33.6	70.3	-100.37	-866.0	1,654.6	438.6	331.3	107.29	4.088
13,000.0	11,820.0	17,994.9	11,895.9	33.9	69.4	-100.09	-969.1	1,648.3	433.8	327.6	106.27	4.082
13,100.0	11,820.0	17,897.9	11,894.9	34.2	68.6	-100.08	-1,065.9	1,641.8	428.7	323.3	105.42	4.067
13,200.0	11,820.0	17,805.7	11,895.8	34.6	67.8	-100.28	-1,157.9	1,636.4	424.9	320.2	104.66	4.059
13,300.0	11,820.0	17,705.2	11,896.8	34.9	67.0	-100.50	-1,258.3	1,631.5	422.0	318.3	103.70	4.070
13,400.0	11,820.0	17,599.9	11,897.8	35.3	66.1	-100.73	-1,363.4	1,625.6	418.3	315.7	102.63	4.076
13,500.0	11,820.0	17,501.5	11,898.3	35.7	65.3	-100.91	-1,461.7	1,619.5	414.2	312.4	101.78	4.069
13,598.7	11,820.0	17,419.0	11,898.0	36.1	64.6	-100.94	-1,544.0	1,615.5	411.2	309.9	101.36	4.057 CC
13,600.0	11,820.0	17,419.0	11,898.0	36.1	64.6	-100.94	-1,544.0	1,615.5	411.2	309.9	101.38	4.056 ES

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #2H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 13-MWD+IFR1, 4170-MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
13,700.0	11,820.0	17,324.0	11,895.3	36.6	63.8	-100.54	-1,639.0	1,615.0	412.0	311.2	100.74	4.089	
13,800.0	11,820.0	17,236.6	11,893.4	37.0	63.0	-100.18	-1,726.3	1,617.6	416.0	315.8	100.22	4.151	
13,900.0	11,820.0	17,136.8	11,895.5	37.5	62.1	-100.36	-1,826.1	1,620.2	420.7	321.3	99.39	4.233	
14,000.0	11,820.0	17,033.9	11,899.0	38.0	61.2	-100.73	-1,928.9	1,622.2	425.0	326.5	98.49	4.315	
14,100.0	11,820.0	16,925.4	11,904.2	38.5	60.3	-101.36	-2,037.2	1,622.3	427.7	330.2	97.47	4.388	
14,200.0	11,820.0	16,825.3	11,908.3	39.1	59.5	-101.86	-2,137.3	1,621.8	429.8	333.1	96.65	4.447	
14,300.0	11,820.0	16,724.4	11,910.1	39.6	58.6	-102.07	-2,238.2	1,621.2	431.2	335.3	95.92	4.496	
14,400.0	11,820.0	16,628.9	11,909.1	40.2	57.8	-101.86	-2,333.6	1,622.2	433.7	338.3	95.43	4.545	
14,500.0	11,820.0	16,524.5	11,906.9	40.7	56.9	-101.50	-2,438.0	1,623.4	436.2	341.3	94.87	4.597	
14,600.0	11,820.0	16,425.3	11,905.2	41.3	56.1	-101.23	-2,537.1	1,623.4	437.6	343.1	94.42	4.634	
14,700.0	11,820.0	16,325.5	11,902.8	41.9	55.3	-100.85	-2,636.9	1,624.6	440.0	346.0	94.02	4.680	
14,800.0	11,820.0	16,218.0	11,898.8	42.5	54.4	-100.30	-2,744.4	1,624.7	441.1	347.5	93.58	4.714	
14,900.0	11,820.0	16,105.9	11,896.4	43.2	53.5	-100.00	-2,856.4	1,622.1	440.2	347.2	92.99	4.734	
15,000.0	11,820.0	16,002.6	11,893.6	43.8	52.7	-99.70	-2,959.6	1,617.7	437.3	344.6	92.64	4.720	
15,100.0	11,820.0	15,902.9	11,888.5	44.4	51.9	-99.09	-3,059.1	1,613.5	434.1	341.6	92.52	4.692	
15,200.0	11,820.0	15,808.9	11,884.1	45.1	51.2	-98.55	-3,152.9	1,610.4	431.8	339.2	92.55	4.665	
15,300.0	11,820.0	15,702.5	11,879.4	45.8	50.4	-97.97	-3,259.1	1,606.1	428.9	336.6	92.34	4.645	
15,400.0	11,820.0	15,611.7	11,876.2	46.4	49.7	-97.57	-3,349.8	1,603.3	427.1	334.6	92.49	4.618	
15,500.0	11,820.0	15,506.3	11,873.2	47.1	48.9	-97.20	-3,455.1	1,599.5	424.9	332.5	92.33	4.601	
15,600.0	11,820.0	15,415.5	11,871.6	47.8	48.2	-96.99	-3,545.9	1,597.4	424.0	331.5	92.49	4.584	
15,689.6	11,820.0	15,326.4	11,871.0	48.5	47.6	-96.91	-3,634.9	1,595.5	423.6	331.2	92.45	4.582	
15,700.0	11,820.0	15,317.6	11,870.9	48.5	47.5	-96.90	-3,643.7	1,595.4	423.6	331.2	92.48	4.581	
15,800.0	11,820.0	15,231.1	11,869.8	49.2	46.9	-96.72	-3,730.2	1,596.0	425.8	333.1	92.73	4.592	
15,900.0	11,820.0	15,133.7	11,869.4	50.0	46.1	-96.61	-3,827.6	1,598.0	429.6	336.8	92.79	4.630	
16,000.0	11,820.0	15,035.6	11,868.8	50.7	45.4	-96.46	-3,925.6	1,601.0	434.3	341.4	92.89	4.676	
16,100.0	11,820.0	14,925.7	11,866.8	51.4	44.6	-96.14	-4,035.5	1,603.0	437.7	344.8	92.91	4.711	
16,200.0	11,820.0	14,820.2	11,864.6	52.2	43.9	-95.83	-4,140.9	1,603.0	439.2	346.2	93.04	4.721	
16,300.0	11,820.0	14,714.1	11,862.7	52.9	43.2	-95.57	-4,247.0	1,601.9	439.7	346.5	93.18	4.719	
16,400.0	11,820.0	14,614.7	11,859.5	53.7	42.5	-95.16	-4,346.3	1,599.8	439.1	345.6	93.55	4.694	
16,500.0	11,820.0	14,508.0	11,854.3	54.4	41.8	-94.49	-4,452.9	1,597.8	438.6	344.6	93.92	4.670	
16,600.0	11,820.0	14,405.5	11,851.3	55.2	41.1	-94.11	-4,555.3	1,594.0	436.5	342.1	94.30	4.628	
16,700.0	11,820.0	14,295.9	11,852.2	56.0	40.4	-94.28	-4,664.7	1,588.3	433.1	338.7	94.33	4.591	
16,800.0	11,820.0	14,196.9	11,856.9	56.8	39.8	-94.95	-4,763.4	1,581.8	428.6	334.2	94.44	4.538	
16,900.0	11,820.0	14,105.2	11,862.1	57.6	39.3	-95.68	-4,854.8	1,576.6	425.2	330.5	94.72	4.489	
16,956.0	11,820.0	14,058.7	11,864.0	58.0	39.0	-95.96	-4,901.2	1,575.0	424.6	329.6	95.04	4.468	
17,000.0	11,820.0	14,021.0	11,865.0	58.3	38.8	-96.08	-4,938.9	1,574.6	425.0	329.7	95.28	4.460	
17,100.0	11,820.0	13,921.2	11,865.1	59.1	38.2	-96.07	-5,038.7	1,574.6	426.7	331.0	95.74	4.457	
17,200.0	11,820.0	13,817.2	11,864.0	59.9	37.6	-95.91	-5,142.7	1,573.6	427.4	331.2	96.23	4.442	
17,300.0	11,820.0	13,726.3	11,866.0	60.7	37.1	-96.15	-5,233.6	1,573.5	429.3	332.5	96.78	4.436	
17,400.0	11,820.0	13,624.8	11,869.2	61.6	36.5	-96.55	-5,335.0	1,573.5	431.3	334.2	97.12	4.441	
17,500.0	11,820.0	13,541.7	11,869.8	62.4	36.1	-96.57	-5,418.1	1,575.7	435.8	337.9	97.88	4.452	
17,600.0	11,820.0	13,440.3	11,869.3	63.2	35.6	-96.41	-5,519.4	1,580.4	442.0	343.5	98.56	4.485	
17,700.0	11,820.0	13,327.9	11,869.0	64.0	35.1	-96.31	-5,631.7	1,583.0	446.0	346.9	99.12	4.500	
17,800.0	11,820.0	13,228.8	11,864.1	64.8	34.6	-95.64	-5,730.7	1,584.9	449.2	349.1	100.14	4.486	
17,900.0	11,820.0	13,132.3	11,858.9	65.7	34.2	-94.94	-5,827.1	1,587.1	452.7	351.5	101.24	4.472	
18,000.0	11,820.0	13,029.5	11,853.7	66.5	33.7	-94.23	-5,929.7	1,590.3	457.1	354.8	102.31	4.468	
18,100.0	11,820.0	12,922.6	11,849.1	67.3	33.3	-93.64	-6,036.5	1,591.2	459.5	356.2	103.30	4.448	
18,200.0	11,820.0	12,815.9	11,844.7	68.2	32.9	-93.07	-6,143.0	1,591.2	461.0	356.7	104.30	4.420	
18,300.0	11,820.0	12,714.0	11,843.4	69.0	32.6	-92.91	-6,245.0	1,589.7	461.2	356.0	105.20	4.384	
18,400.0	11,820.0	12,611.7	11,842.0	69.8	32.3	-92.73	-6,347.2	1,587.9	461.1	355.0	106.14	4.344	
18,426.7	11,820.0	12,586.6	11,841.7	70.1	32.3	-92.69	-6,372.3	1,587.4	461.0	354.6	106.43	4.332	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR 36 COM W1 #2H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 13-MWD+IFR1, 4170-MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,500.0	11,820.0	12,519.2	11,841.1	70.7	32.1	-92.62	-6,439.7	1,586.7	461.5	354.3	107.22	4.304	
18,600.0	11,820.0	12,411.3	11,843.3	71.5	31.8	-92.90	-6,547.5	1,585.2	462.0	354.1	107.90	4.282	
18,700.0	11,820.0	12,311.2	11,847.1	72.4	31.6	-93.36	-6,647.5	1,582.9	461.7	353.1	108.62	4.250	
18,800.0	11,820.0	12,183.5	11,839.6	73.2	31.4	-92.45	-6,774.7	1,577.9	459.4	350.0	109.46	4.197	
18,900.0	11,820.0	12,071.0	11,818.2	74.1	31.2	-89.77	-6,884.7	1,567.6	451.4	340.0	111.41	4.052	
19,000.0	11,820.0	11,982.6	11,798.0	75.0	31.0	-87.15	-6,970.3	1,559.4	444.3	330.2	114.06	3.895	
19,094.5	11,820.0	11,909.4	11,775.3	75.8	30.9	-84.19	-7,039.7	1,554.0	441.2	324.2	116.96	3.772	
19,100.0	11,820.0	11,905.3	11,773.7	75.8	30.9	-83.98	-7,043.4	1,553.8	441.2	324.0	117.14	3.766	
19,200.0	11,820.0	11,824.0	11,732.5	76.7	30.7	-78.62	-7,113.1	1,548.7	444.7	324.0	120.68	3.685 SF	
19,300.0	11,820.0	11,760.0	11,693.6	77.6	30.6	-73.68	-7,163.8	1,544.7	457.1	333.9	123.22	3.709	
19,400.0	11,820.0	11,712.2	11,661.7	78.4	30.5	-69.81	-7,199.3	1,542.6	481.0	357.5	123.52	3.894	
19,474.3	11,820.0	11,681.6	11,639.8	79.1	30.5	-67.27	-7,220.6	1,542.1	506.9	384.5	122.45	4.140	

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 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR WC 25 #2H - ST01 - AWP												Offset Site Error: 0.0 usft	
Survey Program: Reference		75-MWD - OWSG R1, 1088-MWD - OWSG R1, 4779-MWD - OWSG R1, 8662-MWD - OWSG R1, 11225-MWD - OWSG R1						Rule Assigned:		Offset Well Error: 3.0 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,925.0	11,724.1	16,325.0	11,903.4	32.2	79.0	-85.66	-225.9	2,152.6	999.7	886.8	112.90	8.854	
11,950.0	11,738.6	16,325.0	11,903.4	32.2	79.0	-86.90	-225.9	2,152.6	990.1	876.5	113.65	8.712	
11,975.0	11,752.0	16,325.0	11,903.4	32.2	79.0	-88.06	-225.9	2,152.6	981.0	866.7	114.37	8.578	
12,000.0	11,764.3	16,325.0	11,903.4	32.2	79.0	-89.16	-225.9	2,152.6	972.5	857.4	115.05	8.452	
12,025.0	11,775.4	16,325.0	11,903.4	32.2	79.0	-90.17	-225.9	2,152.6	964.5	848.8	115.69	8.337	
12,050.0	11,785.4	16,325.0	11,903.4	32.2	79.0	-91.10	-225.9	2,152.6	957.1	840.8	116.27	8.231	
12,075.0	11,794.1	16,325.0	11,903.4	32.2	79.0	-91.95	-225.9	2,152.6	950.3	833.5	116.79	8.136	
12,100.0	11,801.6	16,325.0	11,903.4	32.2	79.0	-92.71	-225.9	2,152.6	944.1	826.9	117.26	8.052	
12,125.0	11,807.8	16,325.0	11,903.4	32.2	79.0	-93.38	-225.9	2,152.6	938.7	821.0	117.65	7.979	
12,150.0	11,812.8	16,325.0	11,903.4	32.2	79.0	-93.95	-225.9	2,152.6	934.0	816.0	117.97	7.917	
12,175.0	11,816.5	16,325.0	11,903.4	32.2	79.0	-94.44	-225.9	2,152.6	930.0	811.8	118.20	7.867	
12,200.0	11,818.8	16,325.0	11,903.4	32.2	79.0	-94.83	-225.9	2,152.6	926.7	808.4	118.36	7.830	
12,225.0	11,819.9	16,325.0	11,903.4	32.3	79.0	-95.12	-225.9	2,152.6	924.3	805.8	118.43	7.804	
12,232.8	11,820.0	16,325.0	11,903.4	32.3	79.0	-95.20	-225.9	2,152.6	923.6	805.2	118.44	7.799	
12,283.9	11,820.0	16,325.0	11,903.4	32.3	79.0	-95.19	-225.9	2,152.6	921.8	803.5	118.29	7.792	CC, ES, SF
12,300.0	11,820.0	16,325.0	11,903.4	32.4	79.0	-95.19	-225.9	2,152.6	922.0	803.8	118.18	7.801	
12,323.2	11,820.0	16,325.0	11,903.4	32.4	79.0	-95.20	-225.9	2,152.6	922.9	804.9	117.97	7.823	
12,400.0	11,820.0	16,270.3	11,901.9	32.5	78.1	-95.08	-280.4	2,156.4	929.0	812.4	116.63	7.965	
12,500.0	11,820.0	16,145.0	11,900.4	32.7	76.1	-94.94	-405.6	2,162.2	935.1	820.7	114.41	8.173	
12,600.0	11,820.0	16,040.6	11,901.3	32.9	74.4	-94.97	-510.0	2,165.6	940.2	827.8	112.38	8.366	
12,700.0	11,820.0	15,912.2	11,901.3	33.1	72.4	-94.95	-638.3	2,167.2	943.1	833.0	110.09	8.566	
12,800.0	11,820.0	15,801.5	11,901.3	33.3	70.7	-94.94	-749.1	2,166.6	944.3	836.3	108.04	8.741	
12,900.0	11,820.0	15,703.4	11,900.8	33.6	69.1	-94.91	-847.1	2,165.4	944.8	838.6	106.22	8.895	
13,000.0	11,820.0	15,593.3	11,898.6	33.9	67.4	-94.77	-957.1	2,164.4	945.5	841.3	104.27	9.069	
13,047.8	11,820.0	15,547.7	11,896.7	34.1	66.7	-94.66	-1,002.7	2,163.6	945.3	841.9	103.47	9.137	
13,100.0	11,820.0	15,507.0	11,895.8	34.2	66.1	-94.60	-1,043.4	2,163.2	945.7	842.9	102.73	9.206	
13,200.0	11,820.0	15,407.2	11,896.0	34.6	64.5	-94.60	-1,143.2	2,163.1	947.3	846.4	100.98	9.382	
13,300.0	11,820.0	15,298.6	11,897.2	34.9	62.8	-94.67	-1,251.8	2,161.9	948.1	848.9	99.12	9.565	
13,400.0	11,820.0	15,211.5	11,898.6	35.3	61.5	-94.76	-1,338.9	2,161.0	949.0	851.3	97.63	9.720	
13,500.0	11,820.0	15,106.0	11,897.5	35.7	59.9	-94.68	-1,444.3	2,161.0	950.6	854.7	95.94	9.908	
13,600.0	11,820.0	14,996.4	11,893.8	36.1	58.2	-94.45	-1,554.0	2,160.0	951.2	857.0	94.28	10.089	
13,700.0	11,820.0	14,876.5	11,890.9	36.6	56.4	-94.28	-1,673.7	2,157.0	950.3	857.8	92.49	10.275	
13,800.0	11,820.0	14,775.2	11,889.6	37.0	54.9	-94.21	-1,775.0	2,153.3	948.3	857.2	91.03	10.417	
13,900.0	11,820.0	14,663.1	11,888.7	37.5	53.2	-94.17	-1,886.9	2,148.2	945.5	856.1	89.44	10.572	
14,000.0	11,820.0	14,564.3	11,887.9	38.0	51.7	-94.14	-1,985.6	2,142.9	941.8	853.6	88.13	10.686	
14,100.0	11,820.0	14,476.7	11,887.8	38.5	50.4	-94.14	-2,073.2	2,139.4	939.5	852.4	87.07	10.790	
14,200.0	11,820.0	14,368.6	11,889.0	39.1	48.9	-94.23	-2,181.1	2,134.4	936.7	851.0	85.69	10.930	
14,300.0	11,820.0	14,271.8	11,888.6	39.6	47.4	-94.21	-2,277.9	2,130.4	934.3	849.7	84.60	11.043	
14,400.0	11,820.0	14,167.0	11,886.4	40.2	45.9	-94.09	-2,382.5	2,125.6	931.3	847.8	83.48	11.156	
14,500.0	11,820.0	14,074.4	11,884.3	40.7	44.6	-93.98	-2,475.0	2,121.6	928.6	846.0	82.64	11.237	
14,600.0	11,820.0	13,985.6	11,882.2	41.3	43.4	-93.85	-2,563.7	2,118.7	927.0	845.0	81.93	11.314	
14,700.0	11,820.0	13,866.7	11,880.4	41.9	41.7	-93.75	-2,682.5	2,115.4	926.0	845.2	80.79	11.461	
14,800.0	11,820.0	13,784.9	11,881.6	42.5	40.6	-93.83	-2,764.2	2,111.4	923.2	842.9	80.28	11.500	
14,829.0	11,820.0	13,765.8	11,881.6	42.7	40.3	-93.83	-2,783.3	2,111.0	923.0	842.8	80.22	11.506	
14,900.0	11,820.0	13,709.9	11,881.1	43.2	39.6	-93.79	-2,839.2	2,110.7	923.8	843.8	79.95	11.554	
15,000.0	11,820.0	13,617.1	11,878.7	43.8	38.3	-93.64	-2,931.9	2,111.2	925.9	846.4	79.47	11.651	
15,100.0	11,820.0	13,526.4	11,875.5	44.4	37.1	-93.43	-3,022.6	2,112.1	928.5	849.4	79.12	11.736	
15,200.0	11,820.0	13,446.6	11,873.5	45.1	36.1	-93.29	-3,102.4	2,114.7	933.2	854.3	78.93	11.823	
15,300.0	11,820.0	13,338.7	11,869.9	45.8	34.7	-93.06	-3,210.1	2,118.7	938.5	860.0	78.55	11.948	
15,400.0	11,820.0	13,216.4	11,865.6	46.4	33.2	-92.78	-3,332.3	2,121.2	942.2	864.0	78.12	12.060	
15,500.0	11,820.0	13,133.0	11,866.4	47.1	32.2	-92.82	-3,415.6	2,121.7	944.7	866.6	78.10	12.096	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - GOLDEN SPUR WC 25 #2H - ST01 - AWP												Offset Site Error:	0.0 usft
Survey Program: 75-MWD - OWSG R1, 1088-MWD - OWSG R1, 4779-MWD - OWSG R1, 8662-MWD - OWSG R1, 11225-MWD - OWSG												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
15,600.0	11,820.0	13,059.0	11,866.5	47.8	31.3	-92.81	-3,489.6	2,124.8	950.6	872.3	78.25	12.147	
15,700.0	11,820.0	12,952.0	11,863.2	48.5	30.2	-92.59	-3,596.5	2,130.1	957.1	878.8	78.26	12.230	
15,800.0	11,820.0	12,837.1	11,857.2	49.2	28.9	-92.22	-3,711.1	2,134.6	962.5	884.2	78.37	12.283	
15,900.0	11,820.0	12,621.7	11,848.5	50.0	26.9	-91.70	-3,925.9	2,126.6	959.8	882.4	77.37	12.406	
16,000.0	11,820.0	12,529.3	11,846.9	50.7	26.1	-91.63	-4,017.9	2,118.1	952.3	874.4	77.84	12.234	
16,100.0	11,820.0	12,393.4	11,845.1	51.4	25.1	-91.53	-4,153.0	2,103.1	942.7	865.0	77.74	12.126	
16,200.0	11,820.0	12,327.0	11,844.1	52.2	24.6	-91.49	-4,218.9	2,095.6	933.4	854.6	78.80	11.845	
16,300.0	11,820.0	12,272.8	11,844.2	52.9	24.3	-91.50	-4,272.9	2,091.8	928.4	848.4	79.98	11.608	
16,333.1	11,820.0	12,257.4	11,844.4	53.2	24.2	-91.51	-4,288.3	2,091.3	928.1	847.7	80.38	11.546	
16,400.0	11,820.0	12,223.0	11,845.1	53.7	24.1	-91.55	-4,322.8	2,091.4	929.2	848.2	81.09	11.460	
16,500.0	11,820.0	12,148.3	11,845.1	54.4	23.7	-91.55	-4,397.4	2,093.6	934.0	852.1	81.96	11.396	
16,600.0	11,820.0	12,070.3	11,834.8	55.2	23.5	-90.91	-4,474.4	2,098.4	941.6	858.4	83.16	11.323	
16,700.0	11,820.0	11,989.7	11,809.9	56.0	23.3	-89.39	-4,550.8	2,104.4	951.1	866.3	84.81	11.215	
16,800.0	11,820.0	11,935.1	11,786.8	56.8	23.2	-88.00	-4,599.9	2,109.5	964.4	878.0	86.40	11.163	
16,900.0	11,820.0	11,866.5	11,752.6	57.6	23.2	-85.99	-4,658.8	2,117.7	982.7	894.5	88.19	11.143	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 100-IN-C-ONLY											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.0	0.0	0.0	30.8	3.0	3.0	104.56	-227.6	876.1	905.8	899.2	6.56	138.163
100.0	100.0	69.2	100.0	3.2	3.3	104.56	-227.6	876.1	905.2	898.2	7.05	128.415
181.0	181.0	150.2	181.0	3.4	4.5	104.55	-227.4	876.1	905.2	896.7	8.49	106.620
200.0	200.0	168.4	199.3	3.5	4.9	104.55	-227.4	876.1	905.2	896.2	8.99	100.693
280.8	280.8	250.0	280.7	3.6	7.0	104.52	-227.0	876.1	905.1	893.5	11.58	78.180
300.0	300.0	267.2	298.0	3.7	7.4	104.53	-227.1	876.1	905.1	892.9	12.18	74.287
400.0	400.0	368.6	399.3	3.9	10.3	104.55	-227.4	876.1	905.2	889.2	15.94	56.803
480.6	480.6	450.0	480.6	4.0	12.6	104.52	-227.0	876.1	905.1	886.0	19.10	47.382
500.0	500.0	467.3	497.9	4.1	13.1	104.53	-227.1	876.1	905.1	885.3	19.79	45.736
600.0	600.0	568.7	599.3	4.2	16.1	104.55	-227.4	876.1	905.2	881.3	23.84	37.966
680.5	680.5	650.0	680.5	4.4	18.5	104.52	-227.0	876.1	905.1	877.9	27.13	33.356
700.0	700.0	667.4	697.9	4.4	19.0	104.53	-227.1	876.1	905.1	877.2	27.85	32.503
800.0	800.0	768.8	799.3	4.6	22.0	104.55	-227.4	876.1	905.2	873.2	31.99	28.297
880.4	880.4	850.0	880.4	4.7	24.4	104.52	-227.0	876.1	905.1	869.7	35.32	25.622
900.0	900.0	867.6	897.9	4.8	24.9	104.53	-227.1	876.1	905.1	869.0	36.05	25.108
1,000.0	1,000.0	968.9	999.2	4.9	27.9	104.55	-227.4	876.1	905.2	865.1	40.10	22.574
1,100.0	1,100.0	1,067.7	1,097.9	5.2	30.9	28.59	-227.1	876.1	903.6	859.4	44.20	20.444
1,200.0	1,199.8	1,168.9	1,199.1	5.4	33.9	28.82	-227.4	876.1	899.1	850.7	48.41	18.573
1,300.0	1,299.5	1,267.3	1,297.4	5.7	36.8	29.14	-227.1	876.1	891.3	838.8	52.50	16.976
1,400.0	1,398.7	1,367.9	1,398.0	6.0	39.9	29.66	-227.4	876.1	880.8	824.1	56.70	15.533
1,500.0	1,497.5	1,465.6	1,495.5	6.3	42.8	30.27	-227.0	876.1	867.1	806.3	60.78	14.265
1,600.0	1,595.6	1,565.1	1,595.0	6.6	45.7	31.12	-227.4	876.1	850.7	785.8	64.95	13.099
1,675.0	1,668.8	1,638.9	1,668.8	6.8	47.9	31.87	-227.6	876.1	836.6	768.5	68.03	12.297
1,700.0	1,693.1	1,661.7	1,691.6	6.9	48.6	32.03	-227.0	876.1	831.4	762.4	68.98	12.053
1,800.0	1,790.3	1,760.1	1,789.9	7.2	51.6	32.93	-227.4	876.1	811.7	738.6	73.09	11.104
1,900.0	1,887.6	1,856.9	1,886.6	7.5	54.5	33.81	-227.0	876.1	791.9	714.7	77.15	10.264
2,000.0	1,984.8	1,954.9	1,984.6	7.9	57.4	34.80	-227.4	876.1	772.6	691.3	81.25	9.508
2,100.0	2,082.0	2,052.1	2,081.7	8.2	60.3	35.77	-227.0	876.1	753.2	667.9	85.33	8.827
2,200.0	2,179.3	2,149.8	2,179.3	8.6	63.2	36.88	-227.6	876.1	734.4	645.0	89.42	8.214
2,300.0	2,276.5	2,247.1	2,276.5	8.9	66.1	37.99	-227.6	876.1	715.7	622.2	93.50	7.655
2,400.0	2,373.7	2,344.4	2,373.7	9.3	69.1	39.16	-227.6	876.1	697.3	599.7	97.57	7.146
2,500.0	2,471.0	2,441.7	2,471.0	9.7	72.0	40.38	-227.6	876.1	679.1	577.5	101.65	6.681
2,600.0	2,568.2	2,539.0	2,568.2	10.1	74.9	41.68	-227.6	876.1	661.3	555.5	105.73	6.254
2,700.0	2,665.5	2,636.3	2,665.5	10.5	77.8	43.04	-227.6	876.1	643.8	534.0	109.81	5.863
2,800.0	2,762.7	2,733.6	2,762.7	11.0	80.7	44.48	-227.6	876.1	626.7	512.8	113.89	5.503
2,900.0	2,859.9	2,830.9	2,859.9	11.4	83.6	45.99	-227.6	876.1	610.1	492.1	117.96	5.172
3,000.0	2,957.2	2,928.2	2,957.2	11.8	86.5	47.59	-227.6	876.1	593.8	471.8	122.04	4.866
3,100.0	3,054.4	3,025.5	3,054.4	12.2	89.4	49.27	-227.6	876.1	578.1	452.0	126.11	4.584
3,200.0	3,151.6	3,122.8	3,151.6	12.7	92.4	51.04	-227.6	876.1	562.9	432.7	130.18	4.324
3,300.0	3,248.9	3,220.1	3,248.9	13.1	95.3	52.91	-227.6	876.1	548.3	414.0	134.25	4.084
3,400.0	3,346.1	3,317.4	3,346.1	13.5	98.2	54.87	-227.6	876.1	534.3	395.9	138.31	3.863
3,500.0	3,443.3	3,414.7	3,443.3	14.0	101.1	56.93	-227.6	876.1	520.9	378.5	142.38	3.659
3,600.0	3,540.6	3,512.0	3,540.6	14.4	104.0	59.09	-227.6	876.1	508.3	361.9	146.44	3.471
3,700.0	3,637.8	3,609.3	3,637.8	14.9	106.9	61.35	-227.6	876.1	496.5	346.0	150.49	3.299
3,800.0	3,735.1	3,706.6	3,735.1	15.3	109.8	63.72	-227.6	876.1	485.4	330.9	154.55	3.141
3,900.0	3,832.3	3,803.9	3,832.3	15.8	112.8	66.18	-227.6	876.1	475.3	316.7	158.60	2.997
4,000.0	3,929.5	3,901.2	3,929.5	16.3	115.7	68.75	-227.6	876.1	466.2	303.5	162.66	2.866
4,100.0	4,026.8	3,995.4	4,023.7	16.7	118.5	71.31	-227.6	876.1	458.0	291.4	166.58	2.749
4,200.0	4,124.0	4,088.1	4,116.3	17.2	121.3	73.90	-227.4	876.1	450.7	280.3	170.42	2.645
4,300.0	4,221.2	4,190.3	4,218.5	17.6	124.3	76.87	-227.6	876.1	444.9	270.2	174.70	2.547
4,358.0	4,277.6	4,228.0	4,256.1	17.9	125.5	77.99	-227.6	876.1	442.5	266.4	176.08	2.513 CC, ES, SF

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	ZIA HILLS UNIT 2531 PROJECT - HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	100-INC-ONLY											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,400.0	4,318.5	4,228.0	4,256.1	18.1	125.5	77.99	-227.6	876.1	444.5	269.9	174.58	2.546	
4,500.0	4,415.7	4,228.0	4,256.1	18.6	125.5	77.99	-227.6	876.1	464.8	299.0	165.78	2.803	
4,600.0	4,513.0	4,228.0	4,256.1	19.0	125.5	77.99	-227.6	876.1	504.4	352.2	152.21	3.314	
4,700.0	4,610.2	4,228.0	4,256.1	19.5	125.5	77.99	-227.6	876.1	559.3	422.0	137.26	4.075	
4,800.0	4,707.4	4,228.0	4,256.1	20.0	125.5	77.99	-227.6	876.1	625.5	502.3	123.19	5.077	
4,900.0	4,804.7	4,228.0	4,256.1	20.4	125.5	77.99	-227.6	876.1	699.7	588.8	110.91	6.309	
5,000.0	4,901.9	4,228.0	4,256.1	20.9	125.5	77.99	-227.6	876.1	779.8	679.2	100.59	7.752	
5,100.0	4,999.1	4,228.0	4,256.1	21.4	125.5	77.99	-227.6	876.1	864.0	771.9	92.05	9.385	
5,200.0	5,096.4	4,228.0	4,256.1	21.8	125.5	77.99	-227.6	876.1	951.2	866.2	85.03	11.187	

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

ConocoPhillips

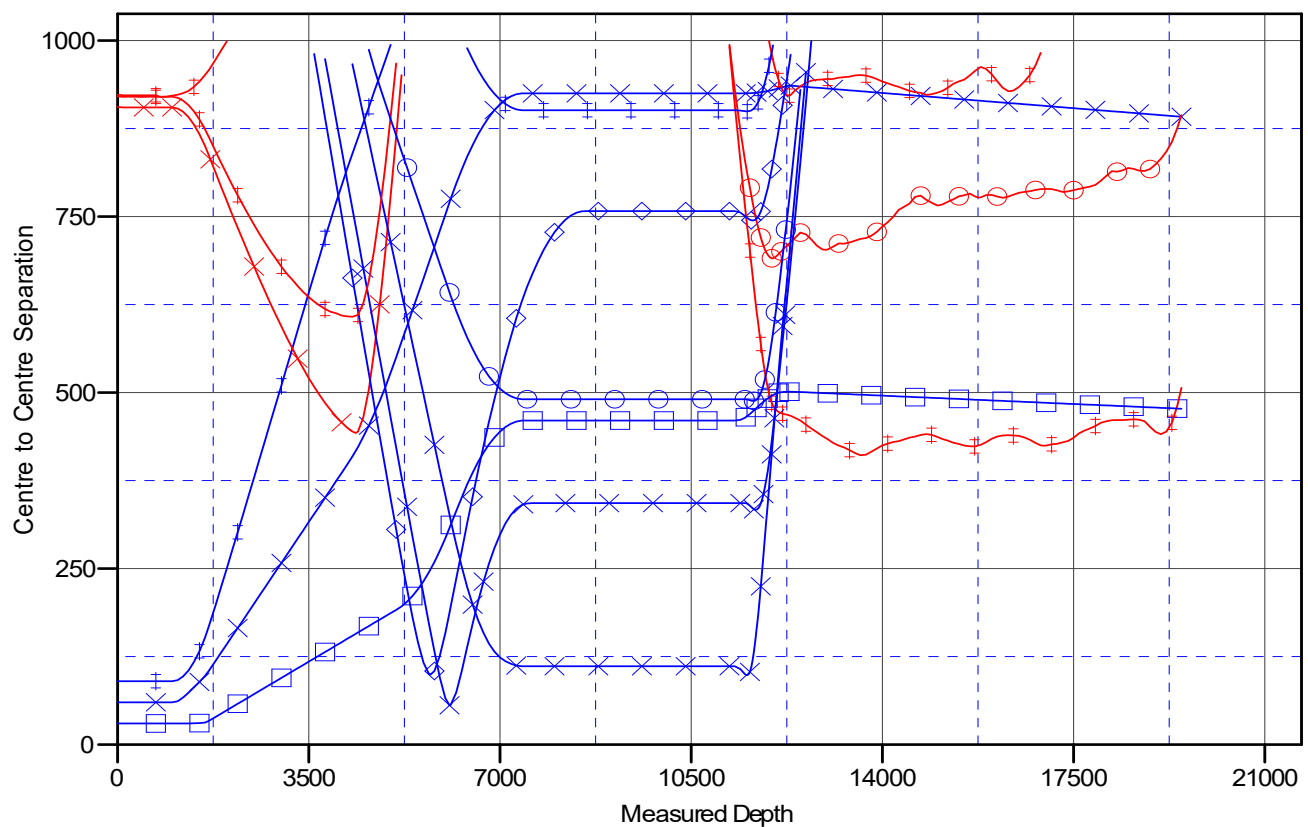
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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 709H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Ladder Plot



LEGEND

ZIA HILLS UNIT 2531 WC 709H, OWB, PWP0 V0	GOLDEN SPUR WC 25 #2H, ST01, AWP V0	ZIA HILLS UNIT 2431 WC #712H, OWB, PWP1 V0
GOLDEN SPUR 36 COM W1 #1H, OWB, AWP V0	GOLDEN SPUR 36 COM W1 #1H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #709H, OWB, PWP1 V0
ZIA HILLS UNIT 2531 WC 709H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #709H, OWB, PWP1 V0	R T WILSON FEDERAL #4 (P&A), OWB, AWP V0
ZIA HILLS UNIT 2531 WC 709H, OWB, PWP0 V0	HANSON FEDERAL BATTERY 1 #15 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #711H, OWB, PWP1 V0
HANSON FEDERAL BATTERY 1 #13 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #710H, OWB, PWP1 V0	

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

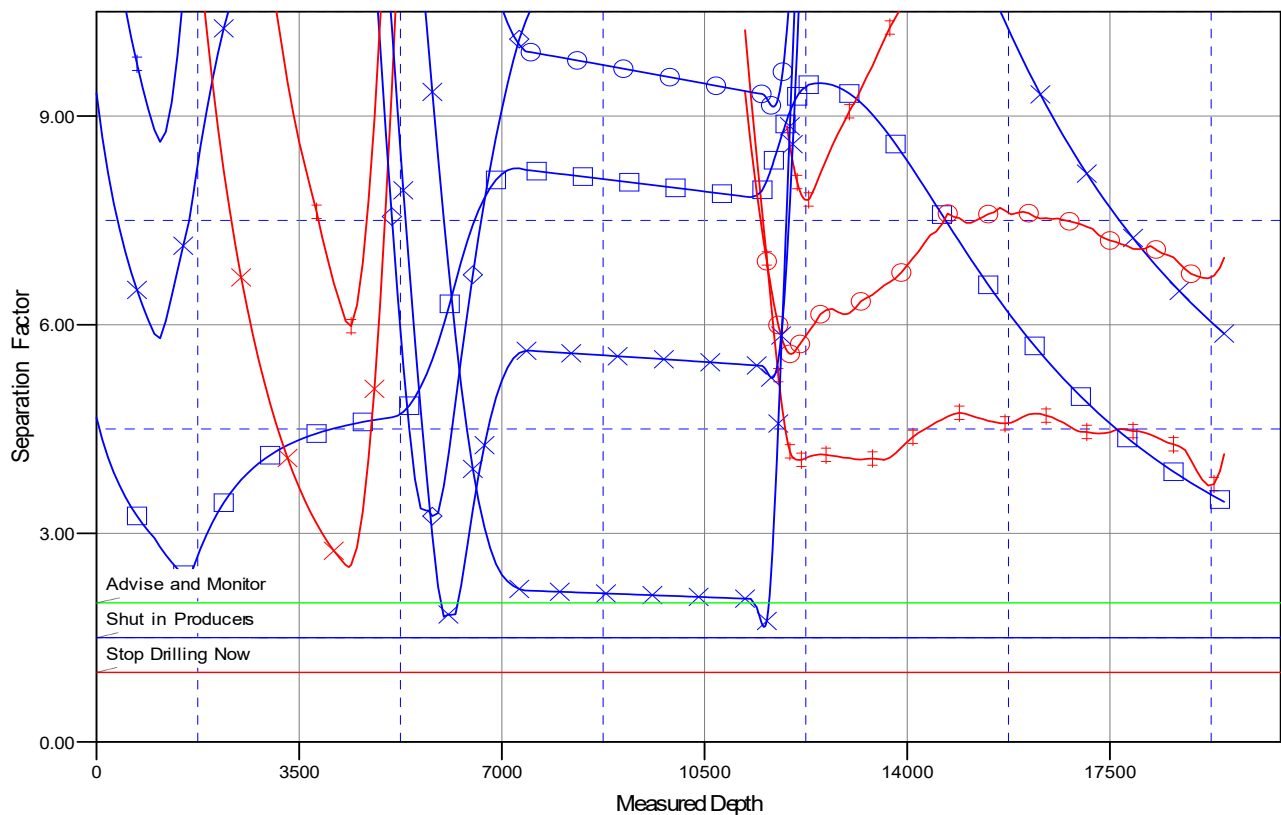
ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	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 709H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 2531 WC 709H, OWB, PWP0 V0	GOLDEN SPUR 36 COM W1 #21, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #712H, OWB, PWP1 V0
ZIA HILLS UNIT 2531 WC 709H, OWB, PWP1 V0	GOLDEN SPUR 36 COM W1 #21, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #709H, OWB, PWP1 V0
ZIA HILLS UNIT 2531 WC 709H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #709H, OWB, PWP1 V0	R T WILSON FEDERAL #4 (P&A), OWB, AWP V0
HANSON FEDERAL BATTERY 1 #13 (P&A), OWB, AWP V0	HANSON FEDERAL BATTERY 1 #15 (P&A), OWB, AWP V0	ZIA HILLS UNIT 2431 WC #711H, OWB, PWP1 V0
	ZIA HILLS UNIT 2431 WC #719H, OWB, PWP1 V0	

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2531 PROJECT

_ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H

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 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/9/2023	6.37	59.54	47,301.04645767

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	171.49	

Plan Survey Tool Program	Date	12/11/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	19,474.3 PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,675.0	13.50	76.00	1,668.8	19.1	76.8	2.00	2.00	0.00	76.00	
6,077.9	13.50	76.00	5,950.0	267.8	1,074.1	0.00	0.00	0.00	0.00	
7,427.9	0.00	0.00	7,287.5	306.1	1,227.7	1.00	-1.00	0.00	180.00	
11,482.8	0.00	0.00	11,342.5	306.1	1,227.7	0.00	0.00	0.00	0.00	
12,232.8	90.00	179.20	11,820.0	-171.3	1,234.4	12.00	12.00	0.00	179.20	
12,323.2	90.00	181.01	11,820.0	-261.7	1,234.2	2.00	0.00	2.00	90.01	
19,474.3	90.00	181.01	11,820.0	-7,411.7	1,108.5	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 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	2.00	76.00	1,100.0	0.4	1.7	-0.2	2.00	2.00	0.00	
1,200.0	4.00	76.00	1,199.8	1.7	6.8	-0.7	2.00	2.00	0.00	
1,300.0	6.00	76.00	1,299.5	3.8	15.2	-1.5	2.00	2.00	0.00	
1,400.0	8.00	76.00	1,398.7	6.7	27.1	-2.7	2.00	2.00	0.00	
1,500.0	10.00	76.00	1,497.5	10.5	42.2	-4.2	2.00	2.00	0.00	
1,600.0	12.00	76.00	1,595.6	15.1	60.7	-6.0	2.00	2.00	0.00	
1,675.0	13.50	76.00	1,668.8	19.1	76.8	-7.6	2.00	2.00	0.00	
1,700.0	13.50	76.00	1,693.1	20.6	82.5	-8.1	0.00	0.00	0.00	
1,800.0	13.50	76.00	1,790.3	26.2	105.1	-10.4	0.00	0.00	0.00	
1,900.0	13.50	76.00	1,887.6	31.9	127.8	-12.6	0.00	0.00	0.00	
2,000.0	13.50	76.00	1,984.8	37.5	150.4	-14.8	0.00	0.00	0.00	
2,100.0	13.50	76.00	2,082.0	43.2	173.1	-17.1	0.00	0.00	0.00	
2,200.0	13.50	76.00	2,179.3	48.8	195.7	-19.3	0.00	0.00	0.00	
2,300.0	13.50	76.00	2,276.5	54.4	218.4	-21.5	0.00	0.00	0.00	
2,400.0	13.50	76.00	2,373.7	60.1	241.0	-23.8	0.00	0.00	0.00	
2,500.0	13.50	76.00	2,471.0	65.7	263.7	-26.0	0.00	0.00	0.00	
2,600.0	13.50	76.00	2,568.2	71.4	286.3	-28.3	0.00	0.00	0.00	
2,700.0	13.50	76.00	2,665.5	77.0	309.0	-30.5	0.00	0.00	0.00	
2,800.0	13.50	76.00	2,762.7	82.7	331.6	-32.7	0.00	0.00	0.00	
2,900.0	13.50	76.00	2,859.9	88.3	354.3	-35.0	0.00	0.00	0.00	
3,000.0	13.50	76.00	2,957.2	94.0	376.9	-37.2	0.00	0.00	0.00	
3,100.0	13.50	76.00	3,054.4	99.6	399.6	-39.4	0.00	0.00	0.00	
3,200.0	13.50	76.00	3,151.6	105.3	422.2	-41.7	0.00	0.00	0.00	
3,300.0	13.50	76.00	3,248.9	110.9	444.9	-43.9	0.00	0.00	0.00	
3,400.0	13.50	76.00	3,346.1	116.6	467.5	-46.1	0.00	0.00	0.00	
3,500.0	13.50	76.00	3,443.3	122.2	490.2	-48.4	0.00	0.00	0.00	
3,600.0	13.50	76.00	3,540.6	127.9	512.8	-50.6	0.00	0.00	0.00	
3,700.0	13.50	76.00	3,637.8	133.5	535.5	-52.8	0.00	0.00	0.00	
3,800.0	13.50	76.00	3,735.1	139.2	558.1	-55.1	0.00	0.00	0.00	
3,900.0	13.50	76.00	3,832.3	144.8	580.8	-57.3	0.00	0.00	0.00	
4,000.0	13.50	76.00	3,929.5	150.5	603.4	-59.5	0.00	0.00	0.00	
4,100.0	13.50	76.00	4,026.8	156.1	626.1	-61.8	0.00	0.00	0.00	
4,200.0	13.50	76.00	4,124.0	161.7	648.7	-64.0	0.00	0.00	0.00	
4,300.0	13.50	76.00	4,221.2	167.4	671.4	-66.2	0.00	0.00	0.00	
4,400.0	13.50	76.00	4,318.5	173.0	694.0	-68.5	0.00	0.00	0.00	
4,500.0	13.50	76.00	4,415.7	178.7	716.7	-70.7	0.00	0.00	0.00	
4,600.0	13.50	76.00	4,513.0	184.3	739.3	-72.9	0.00	0.00	0.00	
4,700.0	13.50	76.00	4,610.2	190.0	762.0	-75.2	0.00	0.00	0.00	
4,800.0	13.50	76.00	4,707.4	195.6	784.7	-77.4	0.00	0.00	0.00	
4,900.0	13.50	76.00	4,804.7	201.3	807.3	-79.7	0.00	0.00	0.00	
5,000.0	13.50	76.00	4,901.9	206.9	830.0	-81.9	0.00	0.00	0.00	
5,100.0	13.50	76.00	4,999.1	212.6	852.6	-84.1	0.00	0.00	0.00	

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Planning Report

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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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	13.50	76.00	5,096.4	218.2	875.3	-86.4	0.00	0.00	0.00	
5,300.0	13.50	76.00	5,193.6	223.9	897.9	-88.6	0.00	0.00	0.00	
5,400.0	13.50	76.00	5,290.8	229.5	920.6	-90.8	0.00	0.00	0.00	
5,500.0	13.50	76.00	5,388.1	235.2	943.2	-93.1	0.00	0.00	0.00	
5,600.0	13.50	76.00	5,485.3	240.8	965.9	-95.3	0.00	0.00	0.00	
5,700.0	13.50	76.00	5,582.6	246.5	988.5	-97.5	0.00	0.00	0.00	
5,800.0	13.50	76.00	5,679.8	252.1	1,011.2	-99.8	0.00	0.00	0.00	
5,900.0	13.50	76.00	5,777.0	257.8	1,033.8	-102.0	0.00	0.00	0.00	
6,000.0	13.50	76.00	5,874.3	263.4	1,056.5	-104.2	0.00	0.00	0.00	
6,077.9	13.50	76.00	5,950.0	267.8	1,074.1	-106.0	0.00	0.00	0.00	
6,100.0	13.28	76.00	5,971.5	269.0	1,079.1	-106.5	1.00	-1.00	0.00	
6,200.0	12.28	76.00	6,069.0	274.4	1,100.5	-108.6	1.00	-1.00	0.00	
6,300.0	11.28	76.00	6,166.9	279.3	1,120.3	-110.5	1.00	-1.00	0.00	
6,400.0	10.28	76.00	6,265.2	283.9	1,138.5	-112.3	1.00	-1.00	0.00	
6,500.0	9.28	76.00	6,363.7	288.0	1,155.0	-114.0	1.00	-1.00	0.00	
6,600.0	8.28	76.00	6,462.5	291.7	1,169.8	-115.4	1.00	-1.00	0.00	
6,700.0	7.28	76.00	6,561.6	294.9	1,182.9	-116.7	1.00	-1.00	0.00	
6,800.0	6.28	76.00	6,660.9	297.8	1,194.4	-117.8	1.00	-1.00	0.00	
6,900.0	5.28	76.00	6,760.4	300.2	1,204.1	-118.8	1.00	-1.00	0.00	
7,000.0	4.28	76.00	6,860.1	302.2	1,212.2	-119.6	1.00	-1.00	0.00	
7,100.0	3.28	76.00	6,959.8	303.8	1,218.6	-120.2	1.00	-1.00	0.00	
7,200.0	2.28	76.00	7,059.7	305.0	1,223.3	-120.7	1.00	-1.00	0.00	
7,300.0	1.28	76.00	7,159.7	305.8	1,226.3	-121.0	1.00	-1.00	0.00	
7,400.0	0.28	76.00	7,259.7	306.1	1,227.6	-121.1	1.00	-1.00	0.00	
7,427.9	0.00	0.00	7,287.5	306.1	1,227.7	-121.1	1.00	-1.00	0.00	
7,500.0	0.00	0.00	7,359.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,459.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,559.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,659.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,759.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,859.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,959.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,059.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,159.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,259.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,359.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,459.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,559.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,659.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,759.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,859.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,959.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,059.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,159.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,259.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,359.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,459.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,559.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,659.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,759.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,859.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,959.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,059.7	306.1	1,227.7	-121.1	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 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,300.0	0.00	0.00	10,159.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,259.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,359.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,459.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,559.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,659.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,759.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,859.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,959.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,059.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,159.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,259.7	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,482.8	0.00	0.00	11,342.5	306.1	1,227.7	-121.1	0.00	0.00	0.00	
11,500.0	2.06	179.20	11,359.7	305.8	1,227.7	-120.8	12.00	12.00	0.00	
11,525.0	5.06	179.20	11,384.6	304.2	1,227.7	-119.3	12.00	12.00	0.00	
11,550.0	8.06	179.20	11,409.4	301.4	1,227.8	-116.5	12.00	12.00	0.00	
11,575.0	11.06	179.20	11,434.1	297.2	1,227.8	-112.3	12.00	12.00	0.00	
11,600.0	14.06	179.20	11,458.5	291.8	1,227.9	-107.0	12.00	12.00	0.00	
11,625.0	17.06	179.20	11,482.6	285.1	1,228.0	-100.3	12.00	12.00	0.00	
11,650.0	20.06	179.20	11,506.3	277.1	1,228.1	-92.4	12.00	12.00	0.00	
11,675.0	23.06	179.20	11,529.5	268.0	1,228.2	-83.3	12.00	12.00	0.00	
11,700.0	26.06	179.20	11,552.3	257.6	1,228.4	-73.0	12.00	12.00	0.00	
11,725.0	29.06	179.20	11,574.4	246.0	1,228.5	-61.6	12.00	12.00	0.00	
11,750.0	32.06	179.20	11,595.9	233.3	1,228.7	-49.0	12.00	12.00	0.00	
11,775.0	35.06	179.20	11,616.8	219.5	1,228.9	-35.3	12.00	12.00	0.00	
11,800.0	38.06	179.20	11,636.8	204.6	1,229.1	-20.5	12.00	12.00	0.00	
11,825.0	41.06	179.20	11,656.1	188.7	1,229.3	-4.7	12.00	12.00	0.00	
11,850.0	44.06	179.20	11,674.5	171.8	1,229.6	12.0	12.00	12.00	0.00	
11,875.0	47.06	179.20	11,692.0	153.9	1,229.8	29.7	12.00	12.00	0.00	
11,900.0	50.06	179.20	11,708.6	135.2	1,230.1	48.3	12.00	12.00	0.00	
11,925.0	53.06	179.20	11,724.1	115.6	1,230.4	67.7	12.00	12.00	0.00	
11,950.0	56.06	179.20	11,738.6	95.2	1,230.7	87.8	12.00	12.00	0.00	
11,975.0	59.06	179.20	11,752.0	74.1	1,230.9	108.8	12.00	12.00	0.00	
12,000.0	62.06	179.20	11,764.3	52.4	1,231.3	130.3	12.00	12.00	0.00	
12,025.0	65.06	179.20	11,775.4	30.0	1,231.6	152.5	12.00	12.00	0.00	
12,050.0	68.06	179.20	11,785.4	7.1	1,231.9	175.2	12.00	12.00	0.00	
12,075.0	71.06	179.20	11,794.1	-16.4	1,232.2	198.4	12.00	12.00	0.00	
12,100.0	74.06	179.20	11,801.6	-40.2	1,232.5	222.1	12.00	12.00	0.00	
12,125.0	77.06	179.20	11,807.8	-64.4	1,232.9	246.1	12.00	12.00	0.00	
12,150.0	80.06	179.20	11,812.8	-88.9	1,233.2	270.3	12.00	12.00	0.00	
12,175.0	83.06	179.20	11,816.5	-113.6	1,233.6	294.8	12.00	12.00	0.00	
12,200.0	86.06	179.20	11,818.8	-138.5	1,233.9	319.5	12.00	12.00	0.00	
12,225.0	89.06	179.20	11,819.9	-163.5	1,234.3	344.3	12.00	12.00	0.00	
12,232.8	90.00	179.20	11,820.0	-171.3	1,234.4	352.0	12.00	12.00	0.00	
12,300.0	90.00	180.54	11,820.0	-238.5	1,234.5	418.5	2.00	0.00	2.00	
12,323.2	90.00	181.01	11,820.0	-261.7	1,234.2	441.3	2.00	0.00	2.00	
12,400.0	90.00	181.01	11,820.0	-338.5	1,232.9	517.1	0.00	0.00	0.00	
12,500.0	90.00	181.01	11,820.0	-438.4	1,231.1	615.7	0.00	0.00	0.00	
12,600.0	90.00	181.01	11,820.0	-538.4	1,229.3	714.4	0.00	0.00	0.00	
12,700.0	90.00	181.01	11,820.0	-638.4	1,227.6	813.0	0.00	0.00	0.00	
12,800.0	90.00	181.01	11,820.0	-738.4	1,225.8	911.6	0.00	0.00	0.00	
12,900.0	90.00	181.01	11,820.0	-838.4	1,224.1	1,010.2	0.00	0.00	0.00	
13,000.0	90.00	181.01	11,820.0	-938.4	1,222.3	1,108.9	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.00	181.01	11,820.0	-1,038.4	1,220.6	1,207.5	0.00	0.00	0.00	
13,200.0	90.00	181.01	11,820.0	-1,138.3	1,218.8	1,306.1	0.00	0.00	0.00	
13,300.0	90.00	181.01	11,820.0	-1,238.3	1,217.0	1,404.7	0.00	0.00	0.00	
13,400.0	90.00	181.01	11,820.0	-1,338.3	1,215.3	1,503.4	0.00	0.00	0.00	
13,500.0	90.00	181.01	11,820.0	-1,438.3	1,213.5	1,602.0	0.00	0.00	0.00	
13,600.0	90.00	181.01	11,820.0	-1,538.3	1,211.8	1,700.6	0.00	0.00	0.00	
13,700.0	90.00	181.01	11,820.0	-1,638.3	1,210.0	1,799.2	0.00	0.00	0.00	
13,800.0	90.00	181.01	11,820.0	-1,738.2	1,208.3	1,897.9	0.00	0.00	0.00	
13,900.0	90.00	181.01	11,820.0	-1,838.2	1,206.5	1,996.5	0.00	0.00	0.00	
14,000.0	90.00	181.01	11,820.0	-1,938.2	1,204.7	2,095.1	0.00	0.00	0.00	
14,100.0	90.00	181.01	11,820.0	-2,038.2	1,203.0	2,193.7	0.00	0.00	0.00	
14,200.0	90.00	181.01	11,820.0	-2,138.2	1,201.2	2,292.3	0.00	0.00	0.00	
14,300.0	90.00	181.01	11,820.0	-2,238.2	1,199.5	2,391.0	0.00	0.00	0.00	
14,400.0	90.00	181.01	11,820.0	-2,338.2	1,197.7	2,489.6	0.00	0.00	0.00	
14,500.0	90.00	181.01	11,820.0	-2,438.1	1,196.0	2,588.2	0.00	0.00	0.00	
14,600.0	90.00	181.01	11,820.0	-2,538.1	1,194.2	2,686.8	0.00	0.00	0.00	
14,700.0	90.00	181.01	11,820.0	-2,638.1	1,192.4	2,785.5	0.00	0.00	0.00	
14,800.0	90.00	181.01	11,820.0	-2,738.1	1,190.7	2,884.1	0.00	0.00	0.00	
14,900.0	90.00	181.01	11,820.0	-2,838.1	1,188.9	2,982.7	0.00	0.00	0.00	
15,000.0	90.00	181.01	11,820.0	-2,938.1	1,187.2	3,081.3	0.00	0.00	0.00	
15,100.0	90.00	181.01	11,820.0	-3,038.0	1,185.4	3,180.0	0.00	0.00	0.00	
15,200.0	90.00	181.01	11,820.0	-3,138.0	1,183.7	3,278.6	0.00	0.00	0.00	
15,300.0	90.00	181.01	11,820.0	-3,238.0	1,181.9	3,377.2	0.00	0.00	0.00	
15,400.0	90.00	181.01	11,820.0	-3,338.0	1,180.1	3,475.8	0.00	0.00	0.00	
15,500.0	90.00	181.01	11,820.0	-3,438.0	1,178.4	3,574.5	0.00	0.00	0.00	
15,600.0	90.00	181.01	11,820.0	-3,538.0	1,176.6	3,673.1	0.00	0.00	0.00	
15,700.0	90.00	181.01	11,820.0	-3,638.0	1,174.9	3,771.7	0.00	0.00	0.00	
15,800.0	90.00	181.01	11,820.0	-3,737.9	1,173.1	3,870.3	0.00	0.00	0.00	
15,900.0	90.00	181.01	11,820.0	-3,837.9	1,171.4	3,969.0	0.00	0.00	0.00	
16,000.0	90.00	181.01	11,820.0	-3,937.9	1,169.6	4,067.6	0.00	0.00	0.00	
16,100.0	90.00	181.01	11,820.0	-4,037.9	1,167.8	4,166.2	0.00	0.00	0.00	
16,200.0	90.00	181.01	11,820.0	-4,137.9	1,166.1	4,264.8	0.00	0.00	0.00	
16,300.0	90.00	181.01	11,820.0	-4,237.9	1,164.3	4,363.5	0.00	0.00	0.00	
16,400.0	90.00	181.01	11,820.0	-4,337.8	1,162.6	4,462.1	0.00	0.00	0.00	
16,500.0	90.00	181.01	11,820.0	-4,437.8	1,160.8	4,560.7	0.00	0.00	0.00	
16,600.0	90.00	181.01	11,820.0	-4,537.8	1,159.1	4,659.3	0.00	0.00	0.00	
16,700.0	90.00	181.01	11,820.0	-4,637.8	1,157.3	4,758.0	0.00	0.00	0.00	
16,800.0	90.00	181.01	11,820.0	-4,737.8	1,155.5	4,856.6	0.00	0.00	0.00	
16,900.0	90.00	181.01	11,820.0	-4,837.8	1,153.8	4,955.2	0.00	0.00	0.00	
17,000.0	90.00	181.01	11,820.0	-4,937.8	1,152.0	5,053.8	0.00	0.00	0.00	
17,100.0	90.00	181.01	11,820.0	-5,037.7	1,150.3	5,152.5	0.00	0.00	0.00	
17,200.0	90.00	181.01	11,820.0	-5,137.7	1,148.5	5,251.1	0.00	0.00	0.00	
17,300.0	90.00	181.01	11,820.0	-5,237.7	1,146.7	5,349.7	0.00	0.00	0.00	
17,400.0	90.00	181.01	11,820.0	-5,337.7	1,145.0	5,448.3	0.00	0.00	0.00	
17,500.0	90.00	181.01	11,820.0	-5,437.7	1,143.2	5,547.0	0.00	0.00	0.00	
17,600.0	90.00	181.01	11,820.0	-5,537.7	1,141.5	5,645.6	0.00	0.00	0.00	
17,700.0	90.00	181.01	11,820.0	-5,637.6	1,139.7	5,744.2	0.00	0.00	0.00	
17,800.0	90.00	181.01	11,820.0	-5,737.6	1,138.0	5,842.8	0.00	0.00	0.00	
17,900.0	90.00	181.01	11,820.0	-5,837.6	1,136.2	5,941.5	0.00	0.00	0.00	
18,000.0	90.00	181.01	11,820.0	-5,937.6	1,134.4	6,040.1	0.00	0.00	0.00	
18,100.0	90.00	181.01	11,820.0	-6,037.6	1,132.7	6,138.7	0.00	0.00	0.00	
18,200.0	90.00	181.01	11,820.0	-6,137.6	1,130.9	6,237.3	0.00	0.00	0.00	
18,300.0	90.00	181.01	11,820.0	-6,237.6	1,129.2	6,336.0	0.00	0.00	0.00	

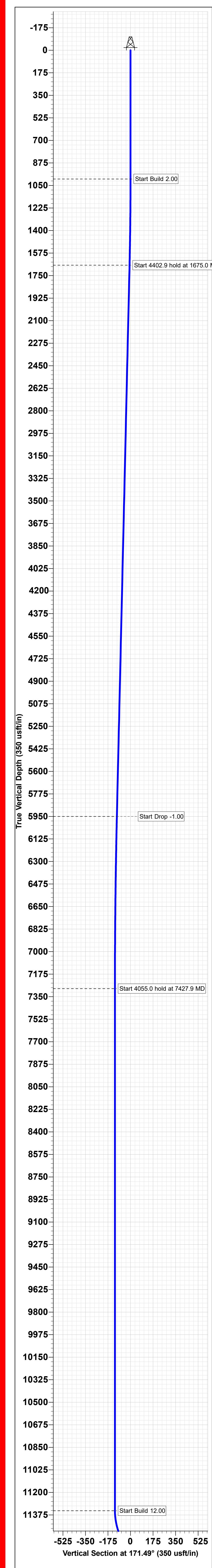
ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 709H - Slot ZHU 2531 WC #709H
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 709H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

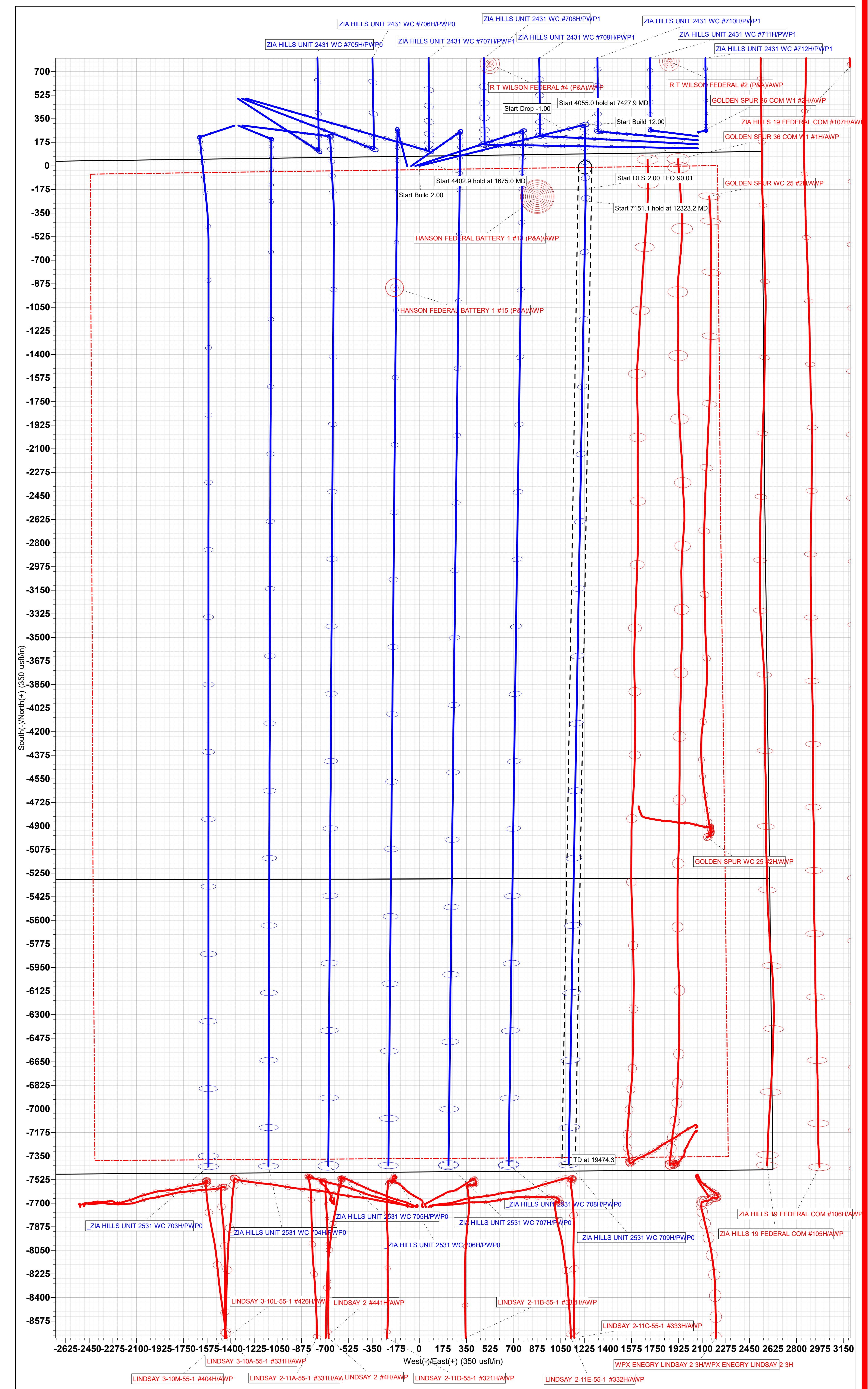
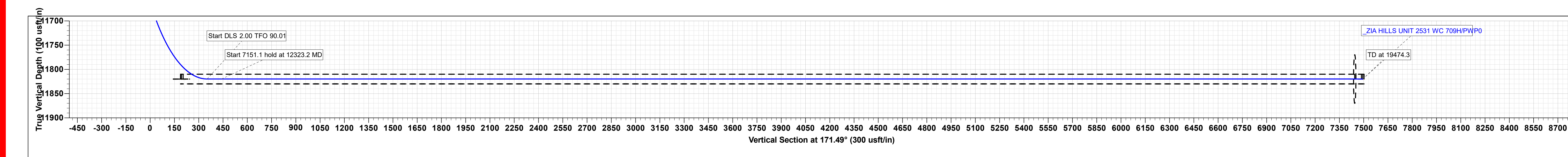
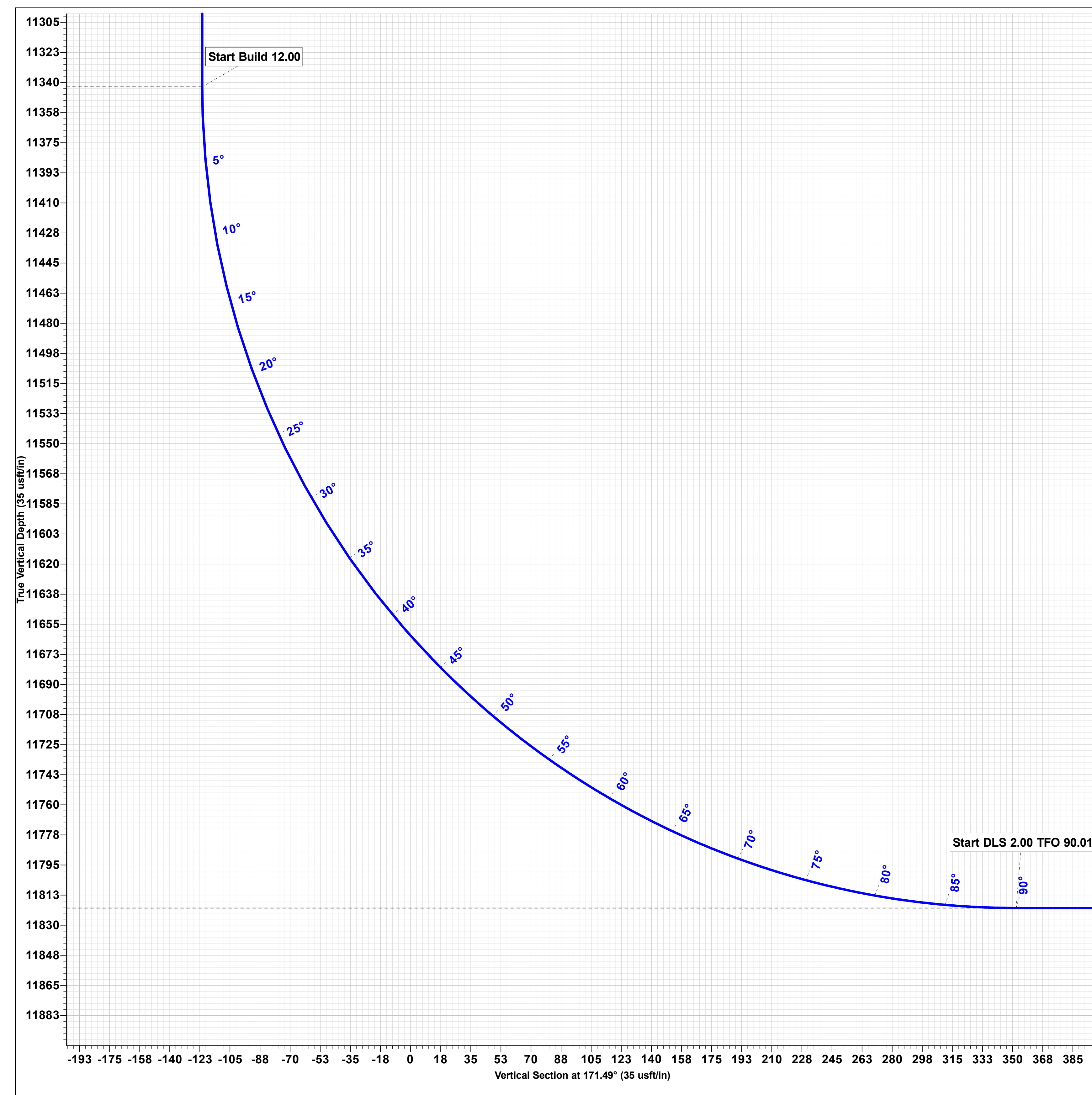
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,400.0	90.00	181.01	11,820.0	-6,337.5	1,127.4	6,434.6	0.00	0.00	0.00	
18,500.0	90.00	181.01	11,820.0	-6,437.5	1,125.7	6,533.2	0.00	0.00	0.00	
18,600.0	90.00	181.01	11,820.0	-6,537.5	1,123.9	6,631.8	0.00	0.00	0.00	
18,700.0	90.00	181.01	11,820.0	-6,637.5	1,122.1	6,730.5	0.00	0.00	0.00	
18,800.0	90.00	181.01	11,820.0	-6,737.5	1,120.4	6,829.1	0.00	0.00	0.00	
18,900.0	90.00	181.01	11,820.0	-6,837.5	1,118.6	6,927.7	0.00	0.00	0.00	
19,000.0	90.00	181.01	11,820.0	-6,937.4	1,116.9	7,026.3	0.00	0.00	0.00	
19,100.0	90.00	181.01	11,820.0	-7,037.4	1,115.1	7,125.0	0.00	0.00	0.00	
19,200.0	90.00	181.01	11,820.0	-7,137.4	1,113.4	7,223.6	0.00	0.00	0.00	
19,300.0	90.00	181.01	11,820.0	-7,237.4	1,111.6	7,322.2	0.00	0.00	0.00	
19,400.0	90.00	181.01	11,820.0	-7,337.4	1,109.8	7,420.8	0.00	0.00	0.00	
19,474.3	90.00	181.01	11,820.0	-7,411.7	1,108.5	7,494.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
LTP (ZHU 2531 WC #70	90.00	179.74	11,820.0	-7,361.5	1,108.5	364,383.51	687,865.14	32° 0' 1.283 N	103° 43' 38.312 W	
- plan misses target center by 24.2usft at 19400.0usft MD (11820.0 TVD, -7337.4 N, 1109.8 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #i	0.00	0.95	11,820.0	-7,411.7	1,108.5	364,333.34	687,865.14	32° 0' 0.786 N	103° 43' 38.316 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,399.5 D20.0)										
FTP (ZHU 2531 WC #7C	0.00	0.00	11,820.0	-10.9	1,230.4	371,734.14	687,987.00	32° 1' 14.019 N	103° 43' 36.418 W	
- plan misses target center by 26.3usft at 12077.5usft MD (11794.9 TVD, -18.7 N, 1232.2 E)										
- Circle (radius 50.0)										



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2531 PROJECT
Well: ZIA HILLS UNIT 2531 WC 709H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
1675.0	13.50	76.00	1668.8	19.1	76.8	2.00	76.00	-7.6	
6077.9	13.50	76.00	5950.0	267.8	1074.1	0.00	0.00	-106.0	
7427.9	0.00	0.00	7287.5	306.1	1227.7	1.00	180.00	-121.1	
11482.8	0.00	0.00	11342.5	306.1	1227.7	0.00	0.00	-121.1	
12232.8	90.00	179.20	11820.0	-171.3	1234.4	12.00	179.20	352.0	
12323.2	90.00	181.01	11820.0	-261.7	1234.2	2.00	90.01	441.3	
19474.3	90.00	181.01	11820.0	-7411.7	1108.5	0.00	0.00	7494.1	



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 709H
SURFACE HOLE FOOTAGE:	69'/N & 2545'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1515'/E
LOCATION:	Section 25, T.26 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately **1000 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

Contingency Casing Design:

4. The 13-3/8 inch surface casing shall be set at approximately **1000 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - e. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

- include the lead cement)
- g. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.
5. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
6. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the 7-5/8 inch intermediate liner is:
- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
7. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of

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

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

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

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

Casing Clearance:

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

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

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.

- ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in

the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e.

against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

JS 10/3/2024

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 408809

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 408809
	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