

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. 30-015-55888
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: NWNW / 69 FNL / 2635 FEL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0207421 / LONG: -103.7315193 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2610 FWL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206562 / LONG: -103.731745 (TVD: 11619 feet, MD: 11767 feet)

BHL: LOT 3 / 50 FSL / 2510 FWL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003424 / LONG: -103.732092 (TVD: 11650 feet, MD: 19149 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- 55888	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 706H
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	2,635' FEL	32.020742°	-103.731519°	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	36	26S	31E		50' FSL	2,510' FWL	32.000342°	-103.732092°	EDDY

Dedicated Acres 900	Infill or Defining Well Defining	Defining Well API Pending 706H	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	2,635' FEL	32.020742°	-103.731519°	EDDY

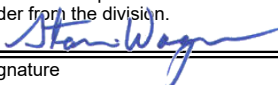
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
C	25	26S	31E		100' FNL	2,610' FWL	32.020656°	-103.731745°	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
LOT 3	36	26S	31E		100' FSL	2,510' FWL	32.000480°	-103.732092°	EDDY

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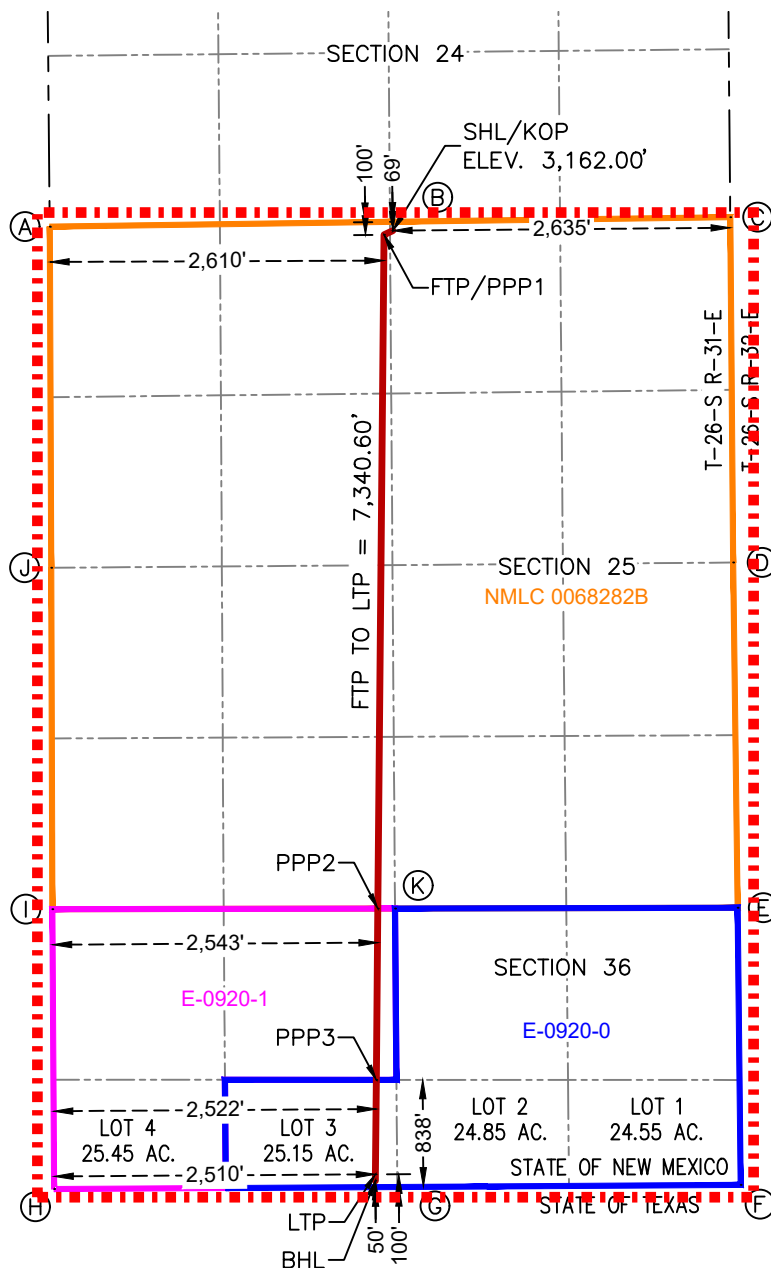
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the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

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

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

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



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
69' FNL & 2,635' FEL
ELEV.=3,162.00'

NAD 83 X = 727,852.15'
NAD 83 Y = 371,804.26'
NAD 83 LAT = 32.020742°
NAD 83 LONG = -103.731519°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 2,610' FWL
NAD 83 X = 727,782.39'
NAD 83 Y = 371,772.63'
NAD 83 LAT = 32.020656°
NAD 83 LONG = -103.731745°

PENETRATION POINT 2
0' FNL & 2,543' FWL
NAD 83 X = 727,734.50'
NAD 83 Y = 366,508.63'
NAD 83 LAT = 32.006187°
NAD 83 LONG = -103.731994°

PENETRATION POINT 3
838' FSL & 2,522' FWL
NAD 83 X = 727,722.32'
NAD 83 Y = 365,169.99'
NAD 83 LAT = 32.002508°
NAD 83 LONG = -103.732057°

LAST TAKE POINT
100' FSL & 2,510' FWL
NAD 83 X = 727,715.61'
NAD 83 Y = 364,432.33'
NAD 83 LAT = 32.000480°
NAD 83 LONG = -103.732092°

BOTTOM HOLE LOCATION
50' FSL & 2,510' FWL
NAD 83 X = 727,715.94'
NAD 83 Y = 364,382.33'
NAD 83 LAT = 32.000342°
NAD 83 LONG = -103.732092°

**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 706H

1. Geologic Formations

TVD of target	11,723' EOL	Pilot hole depth	NA
MD at TD:	19,149'	Deepest expected fresh water:	365'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1211	Water	
Top of Salt	1628	Salt	
Base of Salt	3910	Salt	
Lamar	4160	Salt Water	
Bell Canyon	4192	Salt Water	
Cherry Canyon	5057	Oil/Gas	
Brushy Canyon	6413	Oil/Gas	
Bone Spring	8136	Oil/Gas	
1st Bone Spring Sand	9134	Oil/Gas	
2nd Bone Spring Sand	9810	Oil/Gas	
3rd Bone Spring Sand	10949	Oil/Gas	
Wolfcamp	11494	Oil/Gas	
Wolfcamp A	11527	Target	
Wolfcamp B	11895	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1480	10.75"	45.5	J55	BTC	3.09	1.00	10.62	11.82
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.33	1.04	2.88	2.90
8.750"	8500	11050	7.625"	29.7	P110-ICY	W513	1.28	1.57	3.25	1.95
6.75"	0	10850	5.5"	23	P110-CY	BTC	1.91	2.22	2.92	2.92
6.75"	10850	19,149	5.5"	23	P110-CY	W441	1.77	2.06	2.70	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1480	13.375"	54.5	J55	BTC	1.67	1.60	10.58	11.27
12.25"	0	4060	9.625"	40	L80-IC	BTC	1.83	1.33	5.64	5.83
8.75"	3860	11050	7.625"	29.7	P110-ICY	W513	1.28	1.57	3.25	1.95
6.75"	0	10850	5.5"	23	P110-CY	BTC	1.91	2.22	2.92	2.92
6.75"	10850	19,149	5.5"	23	P110-CY	W441	1.77	2.06	2.70	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

March 18, 2024

1

ConocoPhillips Company - Zia Hills Unit 2531 WC 706H

	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 706H

3. Cementing Program

Casing	# Sks	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	800	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	690	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	10,550'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	890	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Int. #1	600	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	760	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	630	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	3,860'	20%
Production	10,800'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 706H

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

ConocoPhillips Company - Zia Hills Unit 2531 WC 706H

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 706H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8230 psi at 11723' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

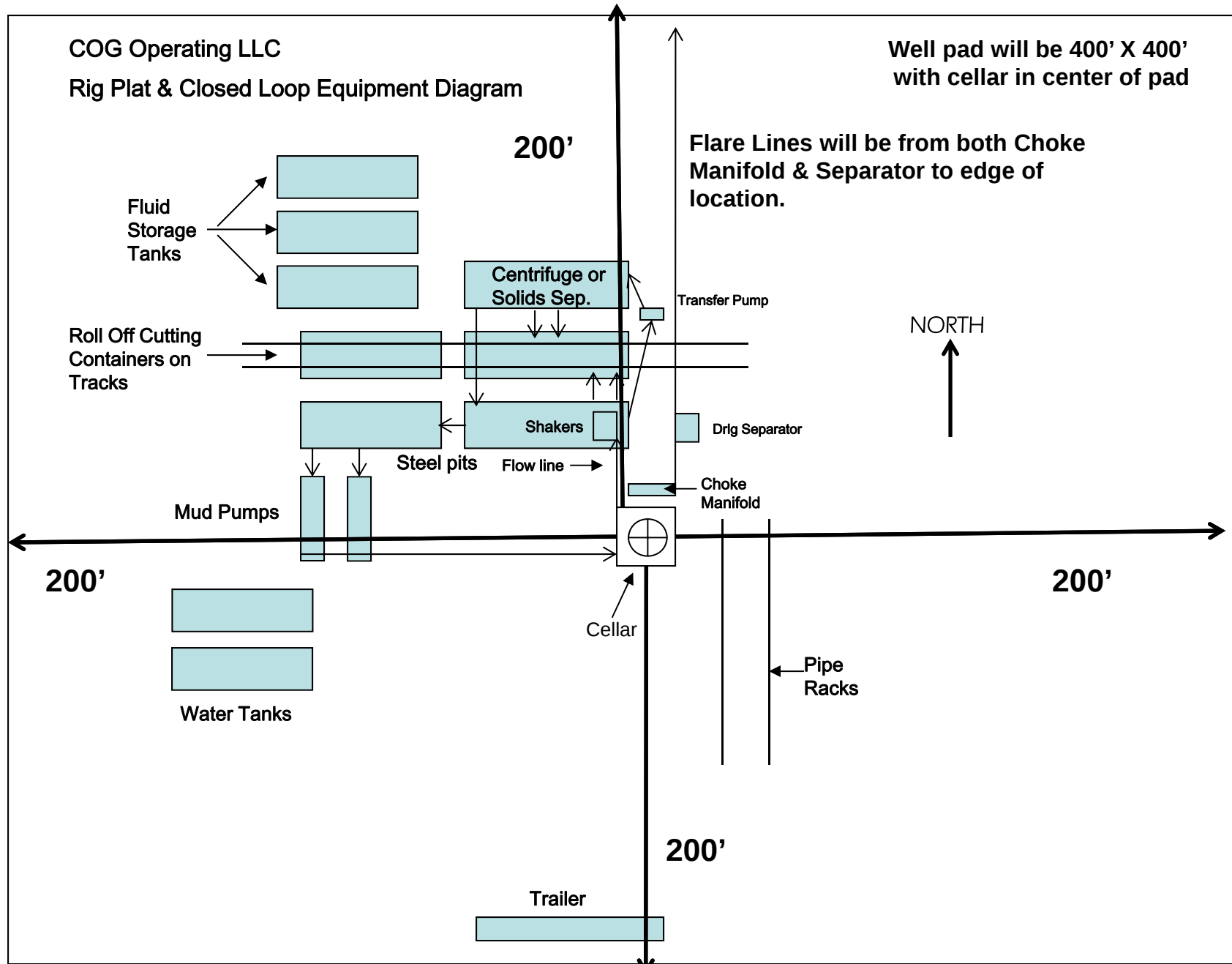


Exhibit 1

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

DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2531 PROJECT

_ZIA HILLS UNIT 2531 WC 706H

OWB

PWP0

Anticollision Report

11 December, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. Ell. Sep. of 500.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	12/11/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,149.0	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Separation Between Ellipses (usft)	Warning	
Offset Well - Wellbore - Design						
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,149.0	11,611.5	370.1	266.6	3.576	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,149.0	11,475.0	544.4	450.9	5.821	CC, ES, SF
LINDSAY 2-11A-55-1 #331H - OWB - AWP						Out of range
LINDSAY 2-11B-55-1 #332H - OWB - AWP						Out of range
LINDSAY 2-11C-55-1 #333H - OWB - AWP						Out of range
LINDSAY 2-11D-55-1 #321H - OWB - AWP						Out of range
LINDSAY 2-11E-55-1 #332H - OWB - AWP						Out of range
LINDSAY 3-10A-55-1 #331H - OWB - AWP						Out of range
LINDSAY 3-10K-55-1 #415H - OWB - AWP						Out of range
LINDSAY 3-10L-55-1 #426H - OWB - AWP						Out of range
LINDSAY 3-10M-55-1 #404H - OWB - AWP						Out of range
LINDSAY 3-10P-55-1 #443H - OWB - AWP						Out of range
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA						Out of range
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP						Out of range

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	783.3	740.2	905.2	884.2	43.117	CC
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	1,500.0	1,453.7	907.4	872.3	25.841	ES
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	2,400.0	2,352.5	990.5	941.8	20.346	SF
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	4,289.6	4,236.0	841.8	739.7	8.246	CC, ES, SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0						Out of range
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	11,283.2	11,330.6	998.1	966.7	31.837	CC, ES
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	11,350.0	11,363.5	999.6	968.0	31.615	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	11,411.8	11,455.8	584.9	543.4	14.071	CC
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	11,425.0	11,461.6	585.0	543.3	14.016	ES
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	11,525.0	11,489.9	594.4	551.4	13.820	SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	11,270.7	11,376.5	176.2	126.6	3.549	CC
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	11,275.0	11,379.2	176.3	126.5	3.542	ES
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	11,300.0	11,393.8	177.8	127.5	3.539	SF
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	6,689.3	6,801.6	87.0	56.2	2.820	CC
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	6,700.0	6,812.1	87.1	56.1	2.811	ES
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	6,900.0	7,007.7	97.4	61.6	2.718	SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	11,375.0	11,553.8	647.5	589.8	11.222	SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	11,416.5	11,580.9	646.7	589.2	11.254	CC, ES
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 701H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 702H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0						Out of range
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0	19,149.0	19,078.7	890.5	742.9	6.032	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0	19,149.0	19,299.0	477.3	325.1	3.136	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	1,200.0	1,200.0	30.0	19.2	2.766	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	1,100.0	1,098.0	61.6	51.0	5.806	SF
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802	CC, ES
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	1,100.0	1,097.0	91.6	81.0	8.633	SF
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP						Out of range
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP						Out of range
GOLDEN SPUR FEDERAL #1H (P&A) - OWB - AWP						Out of range
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	9,036.6	13,450.0	963.8	866.2	9.874	CC, ES, SF
GOLDEN SPUR WC 25 #2H - OWB - AWP						Out of range
GOLDEN SPUR WC 25 #2H - ST01 - AWP						Out of range
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	1,479.9	1,450.0	992.2	932.1	16.523	CC
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	1,700.0	1,667.8	995.5	926.4	14.402	ES
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	1,800.0	1,768.9	999.8	926.4	13.633	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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance		Separation Factor	Warning
Offset Well - Wellbore - Design			Between Centres (usft)	Between Ellipses (usft)		
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,149.0	11,611.5	370.1	266.6	3.576	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,149.0	11,475.0	544.4	450.9	5.821	CC, ES, SF
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,149.0	10,780.7				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,149.0	10,713.0				Out of Range @TD
LINDSAY 2-11C-55-1 #333H - OWB - AWP	19,149.0	10,926.9				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,149.0	9,958.0				Out of Range @TD
LINDSAY 2-11E-55-1 #332H - OWB - AWP	19,149.0	10,238.0				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,149.0	10,778.6				Out of Range @TD
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,149.0	11,441.0				Out of Range @TD
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,149.0	11,595.3				Out of Range @TD
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,149.0	11,417.5				Out of Range @TD
LINDSAY 3-10P-55-1 #443H - OWB - AWP	19,149.0	11,589.8				Out of Range @TD
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA	19,149.0	11,322.0				Out of Range @TD
ZIA HILLS 19 FED COM PROJECT						
ZIA HILLS 19 FEDERAL COM #105H - OWB - AWP	19,149.0	21,910.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	19,149.0	4,283.0				Out of Range @TD
R T WILSON FEDERAL #4 (P&A) - OWB - AWP	19,149.0	4,236.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	19,149.0	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,149.0	11,126.5				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,149.0	10,950.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,149.0	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,149.0	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,149.0	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,149.0	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	19,149.0	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	19,149.0	11,250.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #711H - OWB - PWP1	19,149.0	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
_ZIA HILLS UNIT 2531 WC 701H - OWB - PWP0	19,149.0	19,445.1				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 702H - OWB - PWP0	19,149.0	19,118.8				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 703H - OWB - PWP0	19,149.0	19,270.1				Out of Range @TD
_ZIA HILLS UNIT 2531 WC 704H - OWB - PWP0	19,149.0	19,078.7	890.5	742.9	6.032	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0	19,149.0	19,299.0	477.3	325.1	3.136	CC, ES, SF
_ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0	19,149.0	19,316.0	477.3	334.5	3.343	
_ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0	19,149.0	19,196.1	892.0	742.9	5.982	
_ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0	19,149.0	19,474.3				Out of Range @TD
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	19,149.0	11,411.0				Out of Range @TD
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,149.0	11,602.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - OWB - AWP	19,149.0	9,200.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	19,149.0	8,845.0				Out of Range @TD
GOLDEN SPUR WC 25 #2H - OWB - AWP	19,149.0	11,720.1				Out of Range @TD
GOLDEN SPUR WC 25 #2H - ST01 - AWP	19,149.0	11,305.7				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 706H - Slot ZHU 2531 WC #706H
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 706H	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)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 2531 PROJECT						
HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AW	19,149.0	4,228.0				Out of Range @TD

Offset Design: STATE LINE OFFSETS - LINDSAY 2 #441H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 187-r.5 MWD													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		
18,400.0	11,650.0	11,572.0	11,593.8	67.1	23.4	80.84	-7,535.9	-488.8	938.4	887.2	51.25	18.311		
18,500.0	11,650.0	11,572.0	11,593.8	68.0	23.4	80.84	-7,535.9	-488.8	846.6	792.5	54.14	15.638		
18,600.0	11,650.0	11,572.0	11,593.8	69.0	23.4	80.84	-7,535.9	-488.8	756.8	699.0	57.87	13.078		
18,700.0	11,650.0	11,572.0	11,593.8	69.9	23.4	80.84	-7,535.9	-488.8	670.0	607.3	62.74	10.680		
18,800.0	11,650.0	11,596.8	11,618.6	70.8	23.4	84.86	-7,536.8	-489.1	586.4	516.8	69.56	8.430		
18,900.0	11,650.0	11,600.0	11,621.8	71.8	23.4	85.38	-7,537.0	-489.1	509.6	431.9	77.71	6.558		
19,000.0	11,650.0	11,603.9	11,625.7	72.7	23.5	86.02	-7,537.2	-489.2	442.2	354.5	87.70	5.042		
19,100.0	11,650.0	11,608.7	11,630.5	73.6	23.5	86.80	-7,537.6	-489.3	389.0	290.4	98.60	3.945		
19,149.0	11,650.0	11,611.5	11,633.3	74.1	23.5	87.26	-7,537.8	-489.3	370.1	266.6	103.49	3.576 CC, ES, SF		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	STATE LINE OFFSETS - LINDSAY 2 #4H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	25-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Rule Assigned:												
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Depth	Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Between			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	(usft)	Factor	
						(°)			(usft)	(usft)			
18,500.0	11,650.0	11,275.0	11,331.4	68.0	15.3	55.54	-7,573.2	-605.1	984.8	927.4	57.40	17.156	
18,600.0	11,650.0	11,300.0	11,354.5	69.0	15.3	57.53	-7,582.8	-605.3	904.3	843.1	61.19	14.779	
18,700.0	11,650.0	11,313.0	11,366.4	69.9	15.2	58.59	-7,588.1	-605.5	827.1	761.1	66.01	12.530	
18,800.0	11,650.0	11,341.6	11,392.4	70.8	15.2	61.00	-7,600.1	-605.8	753.9	682.7	71.18	10.592	
18,900.0	11,650.0	11,374.4	11,421.8	71.8	15.1	63.85	-7,614.6	-606.0	685.6	608.5	77.01	8.902	
19,000.0	11,650.0	11,413.6	11,456.4	72.7	15.0	67.36	-7,633.1	-605.7	623.2	539.9	83.33	7.478	
19,100.0	11,650.0	11,454.8	11,492.0	73.6	15.0	71.17	-7,653.6	-604.8	568.0	477.9	90.14	6.302	
19,149.0	11,650.0	11,475.0	11,509.0	74.1	14.9	73.05	-7,664.5	-604.1	544.4	450.9	93.52	5.821	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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 501-INC-ONLY, 1475-INC-ONLY											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	0.0	43.0	3.0	3.0	-174.04	-902.6	-94.2	908.5	901.9	6.55	138.645
100.0	100.0	57.0	100.0	3.2	3.1	-174.04	-902.6	-94.2	907.5	900.5	6.92	131.095
200.0	200.0	157.0	200.0	3.5	3.9	-174.04	-902.6	-94.2	907.5	899.6	7.90	114.845
300.0	300.0	257.0	300.0	3.7	5.0	-174.04	-902.6	-94.2	907.5	898.1	9.34	97.136
400.0	400.0	357.0	400.0	3.9	6.4	-174.04	-902.6	-94.2	907.5	896.4	11.05	82.092
500.0	500.0	457.0	500.0	4.1	7.8	-174.04	-902.6	-94.2	907.5	894.5	12.92	70.211
600.0	600.0	557.2	600.0	4.2	9.7	-174.04	-902.6	-94.2	907.5	892.1	15.31	59.255
700.0	700.0	657.2	700.0	4.4	12.0	-174.04	-902.6	-94.2	907.5	889.1	18.38	49.369
783.3	783.3	740.2	783.0	4.6	14.0	-174.03	-900.2	-94.2	905.2	884.2	20.99	43.117 CC
800.0	800.0	755.8	798.6	4.6	14.3	-174.03	-900.3	-94.2	905.2	883.7	21.49	42.126
900.0	900.0	848.9	891.6	4.8	16.5	-174.03	-900.8	-94.2	905.7	881.2	24.47	37.016
1,000.0	1,000.0	942.0	984.8	4.9	18.7	-174.04	-902.0	-94.2	907.0	879.5	27.48	33.011
1,100.0	1,100.0	1,057.3	1,100.0	5.1	20.3	-174.04	-902.6	-94.2	907.5	877.8	29.64	30.618
1,200.0	1,200.0	1,157.3	1,200.0	5.2	21.2	-174.04	-902.6	-94.2	907.5	876.4	31.02	29.256
1,266.8	1,266.8	1,224.1	1,266.8	5.3	21.9	-174.04	-902.0	-94.2	906.9	875.0	31.94	28.395
1,300.0	1,300.0	1,256.8	1,299.5	5.4	22.2	-174.04	-902.0	-94.2	906.9	874.5	32.39	27.998
1,400.0	1,400.0	1,355.3	1,397.9	5.5	23.2	-174.04	-902.2	-94.2	907.1	873.3	33.75	26.874
1,500.0	1,500.0	1,453.7	1,496.4	5.7	24.1	-174.04	-902.5	-94.2	907.4	872.3	35.11	25.841 ES
1,600.0	1,600.0	1,557.4	1,600.0	5.9	25.0	-159.07	-902.6	-94.2	909.1	872.7	36.36	25.005
1,700.0	1,699.8	1,652.5	1,695.0	6.2	25.8	-159.14	-901.9	-94.2	913.3	875.8	37.46	24.384
1,800.0	1,799.5	1,756.9	1,799.5	6.4	26.7	-159.29	-902.6	-94.2	922.1	883.4	38.74	23.803
1,850.0	1,849.1	1,806.6	1,849.1	6.5	27.1	-159.38	-902.6	-94.2	927.4	888.0	39.44	23.518
1,900.0	1,898.8	1,856.1	1,898.7	6.6	27.6	-159.50	-902.1	-94.2	932.7	892.6	40.13	23.244
2,000.0	1,998.0	1,950.8	1,993.3	6.8	28.6	-159.75	-902.4	-94.2	944.4	902.9	41.48	22.768
2,100.0	2,097.3	2,054.7	2,097.3	7.0	29.8	-160.02	-902.6	-94.2	956.0	912.8	43.19	22.133
2,200.0	2,196.5	2,151.9	2,194.4	7.3	31.0	-160.26	-902.2	-94.2	967.1	922.2	44.90	21.542
2,300.0	2,295.8	2,253.3	2,295.8	7.5	32.3	-160.50	-902.6	-94.2	979.0	932.3	46.71	20.959
2,400.0	2,395.0	2,352.5	2,395.0	7.8	33.7	-160.74	-902.6	-94.2	990.5	941.8	48.68	20.346 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 706H - Slot ZHU 2531 WC #706H
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 706H	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: Reference		100-INC-ONLY, 1100-INC-ONLY						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	35.0	3.0	3.0	38.96	758.3	613.1	975.8	969.2	6.56	148.857		
100.0	100.0	65.0	100.0	3.2	3.0	38.96	758.3	613.1	975.2	968.3	6.84	142.606		
200.0	200.0	166.1	201.1	3.5	3.6	38.95	758.4	613.1	975.2	967.6	7.60	128.242		
300.0	300.0	265.5	300.5	3.7	4.8	38.96	758.3	613.1	975.2	966.1	9.10	107.151		
400.0	400.0	365.0	400.0	3.9	6.4	38.96	758.3	613.1	975.2	964.1	11.03	88.451		
500.0	500.0	465.0	500.0	4.1	8.0	38.96	758.3	613.1	975.2	962.0	13.20	73.876		
600.0	600.0	566.9	601.8	4.2	9.8	38.95	758.4	613.1	975.3	959.7	15.55	62.727		
700.0	700.0	665.0	700.0	4.4	11.5	38.96	758.3	613.1	975.2	957.3	17.89	54.509		
800.0	800.0	767.2	802.2	4.6	13.4	38.95	758.4	613.1	975.3	954.9	20.38	47.861		
900.0	900.0	865.0	900.0	4.8	15.1	38.96	758.3	613.1	975.2	952.5	22.71	42.932		
1,000.0	1,000.0	967.7	1,002.7	4.9	16.9	38.96	758.4	613.1	975.2	950.1	25.15	38.782		
1,056.7	1,056.7	1,021.7	1,056.7	5.0	17.5	38.96	758.3	613.1	975.2	949.3	25.91	37.643		
1,100.0	1,100.0	1,065.0	1,100.0	5.1	17.9	38.96	758.3	613.1	975.2	948.7	26.47	36.842		
1,200.0	1,200.0	1,165.0	1,200.0	5.2	18.4	38.96	758.3	613.1	975.2	947.9	27.25	35.788		
1,300.0	1,300.0	1,265.0	1,300.0	5.4	18.8	38.96	758.3	613.1	975.2	947.4	27.81	35.062		
1,400.0	1,400.0	1,368.9	1,403.9	5.5	19.5	38.95	758.5	613.1	975.3	946.6	28.78	33.886		
1,500.0	1,500.0	1,465.1	1,500.0	5.7	20.3	38.96	758.3	613.1	975.2	945.2	29.96	32.554		
1,600.0	1,600.0	1,565.1	1,600.0	5.9	21.3	54.06	758.3	613.1	974.1	942.8	31.37	31.053		
1,700.0	1,699.8	1,669.3	1,704.2	6.2	22.6	54.36	758.5	613.1	971.3	938.1	33.14	29.309		
1,800.0	1,799.5	1,764.6	1,799.5	6.4	23.8	54.86	758.3	613.1	966.0	931.1	34.88	27.698		
1,850.0	1,849.1	1,816.4	1,851.3	6.5	24.5	55.19	758.6	613.1	963.0	927.2	35.83	26.874		
1,900.0	1,898.8	1,869.9	1,904.8	6.6	25.3	55.52	758.3	613.1	959.3	922.5	36.82	26.052		
2,000.0	1,998.0	1,963.1	1,998.0	6.8	26.6	56.09	758.3	613.1	952.4	913.7	38.70	24.611		
2,100.0	2,097.3	2,066.7	2,101.5	7.0	28.1	56.72	758.3	613.1	945.7	904.9	40.78	23.187		
2,200.0	2,196.5	2,161.7	2,196.5	7.3	29.6	57.31	758.3	613.1	938.9	896.1	42.83	21.921		
2,300.0	2,295.8	2,260.9	2,295.8	7.5	31.1	57.94	758.3	613.1	932.4	887.4	45.00	20.721		
2,400.0	2,395.0	2,362.4	2,397.2	7.8	32.8	58.58	758.5	613.1	926.1	878.8	47.30	19.580		
2,500.0	2,494.3	2,459.5	2,494.3	8.1	34.3	59.22	758.3	613.1	919.6	870.2	49.40	18.617		
2,600.0	2,593.5	2,558.7	2,593.5	8.4	35.8	59.87	758.3	613.1	913.4	861.9	51.48	17.741		
2,700.0	2,692.8	2,658.0	2,692.8	8.7	37.4	60.54	758.3	613.1	907.3	853.6	53.70	16.896		
2,800.0	2,792.0	2,757.2	2,792.0	9.0	39.0	61.21	758.3	613.1	901.3	845.3	56.04	16.084		
2,900.0	2,891.3	2,859.4	2,894.2	9.4	40.9	61.89	758.6	613.1	895.7	837.0	58.71	15.256		
3,000.0	2,990.6	2,955.8	2,990.6	9.7	42.8	62.57	758.3	613.1	889.8	828.5	61.28	14.520		
3,100.0	3,089.8	3,055.0	3,089.8	10.0	44.7	63.27	758.3	613.1	884.2	820.2	63.95	13.826		
3,200.0	3,189.1	3,156.1	3,190.9	10.4	46.7	63.95	759.0	613.1	879.2	812.5	66.68	13.186		
3,300.0	3,288.3	3,258.1	3,292.8	10.7	48.6	64.72	758.4	613.1	873.5	804.1	69.42	12.583		
3,400.0	3,387.6	3,353.0	3,387.8	11.1	50.4	65.40	758.6	613.1	868.5	796.6	71.88	12.082		
3,500.0	3,486.8	3,452.1	3,486.8	11.5	52.2	66.14	758.3	613.1	863.2	788.9	74.38	11.606		
3,600.0	3,586.1	3,553.0	3,587.7	11.8	53.9	66.89	758.4	613.1	858.4	781.6	76.79	11.178		
3,614.0	3,600.0	3,567.4	3,602.1	11.9	54.2	67.00	758.3	613.1	857.7	780.6	77.13	11.120		
3,700.0	3,685.4	3,651.2	3,685.9	12.2	55.9	67.55	758.4	613.1	853.9	774.4	79.51	10.740		
3,800.0	3,784.9	3,750.2	3,784.9	12.6	58.2	68.13	758.3	613.1	850.1	767.3	82.79	10.268		
3,900.0	3,884.6	3,849.9	3,884.6	12.9	60.9	68.55	759.4	613.1	847.8	761.3	86.52	9.800		
4,000.0	3,984.4	3,955.1	3,989.8	13.2	63.7	68.97	758.9	613.1	845.2	754.8	90.44	9.345		
4,100.0	4,084.3	4,049.8	4,084.3	13.5	66.5	69.26	758.3	613.1	843.2	749.0	94.23	8.949		
4,200.0	4,184.2	4,149.8	4,184.2	13.8	69.5	69.44	758.3	613.1	842.2	743.7	98.45	8.555		
4,289.6	4,273.9	4,236.0	4,270.3	14.0	72.1	69.50	758.3	613.1	841.8	739.7	102.09	8.246	CC, ES, SF	
4,300.0	4,284.2	4,236.0	4,270.3	14.1	72.1	69.50	758.3	613.1	841.9	739.8	102.08	8.248		
4,314.0	4,298.3	4,236.0	4,270.3	14.1	72.1	54.51	758.3	613.1	842.3	740.2	102.04	8.254		
4,400.0	4,384.2	4,236.0	4,270.3	14.1	72.1	54.51	758.3	613.1	849.5	748.2	101.24	8.391		
4,500.0	4,484.2	4,236.0	4,270.3	14.2	72.1	54.51	758.3	613.1	868.6	769.4	99.15	8.761		

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 #704H - OWB - PWP0													Offset Site Error:		0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10917-r.5 MWD+IFR1+MS													Offset Well Error:		3.0 usft	
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Distance		
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	11,184.2	11,268.9	11,214.8	19.2	20.3	86.25	211.9	-1,069.8	999.7	968.6	31.10	32.142				
11,225.0	11,209.2	11,289.9	11,231.7	19.1	20.4	87.10	224.4	-1,070.0	998.9	967.8	31.17	32.048				
11,250.0	11,234.1	11,308.8	11,246.5	19.1	20.4	87.92	236.1	-1,070.1	998.4	967.1	31.24	31.956				
11,275.0	11,258.8	11,325.5	11,259.3	19.0	20.4	88.67	246.8	-1,070.3	998.1	966.8	31.32	31.865				
11,283.2	11,266.9	11,330.6	11,263.1	19.0	20.4	88.90	250.1	-1,070.3	998.1	966.7	31.35	31.837	CC, ES			
11,300.0	11,283.2	11,340.1	11,270.2	19.0	20.4	89.34	256.5	-1,070.4	998.2	966.8	31.41	31.779				
11,325.0	11,307.4	11,352.8	11,279.4	18.9	20.4	89.89	265.1	-1,070.5	998.7	967.2	31.51	31.695				
11,350.0	11,331.2	11,363.5	11,287.2	18.8	20.5	90.32	272.6	-1,070.7	999.6	968.0	31.62	31.615	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 706H - Slot ZHU 2531 WC #706H
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 706H	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 #705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11104-r.5 MWD+IFR1+MS		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	
3,100.0	3,089.8	3,240.7	3,218.1	10.0	11.7	-65.64	345.6	-1,018.1	997.5	977.6	19.95	50.006		
3,200.0	3,189.1	3,337.8	3,314.2	10.4	12.1	-66.59	338.2	-1,006.8	979.7	959.3	20.44	47.940		
3,300.0	3,288.3	3,434.8	3,410.3	10.7	12.5	-67.57	330.9	-995.4	962.2	941.3	20.91	46.007		
3,400.0	3,387.6	3,531.8	3,506.4	11.1	12.9	-68.59	323.5	-984.1	945.0	923.6	21.38	44.198		
3,500.0	3,486.8	3,628.8	3,602.5	11.5	13.3	-69.65	316.2	-972.8	928.0	906.2	21.83	42.507		
3,600.0	3,586.1	3,725.9	3,698.5	11.8	13.7	-70.75	308.8	-961.5	911.4	889.2	22.27	40.925		
3,614.0	3,600.0	3,739.5	3,712.0	11.9	13.8	-70.90	307.8	-959.9	909.1	886.8	22.32	40.725		
3,700.0	3,685.4	3,823.0	3,794.8	12.2	14.1	-71.71	301.5	-950.1	895.4	872.7	22.70	39.449		
3,800.0	3,784.9	3,920.6	3,891.3	12.6	14.5	-72.60	294.1	-938.7	880.2	857.1	23.12	38.073		
3,900.0	3,884.6	4,018.4	3,988.3	12.9	14.9	-73.42	286.6	-927.3	865.8	842.2	23.54	36.785		
4,000.0	3,984.4	4,116.6	4,085.5	13.2	15.3	-74.17	279.2	-915.9	852.1	828.1	23.95	35.574		
4,100.0	4,084.3	4,215.1	4,183.0	13.5	15.7	-74.84	271.7	-904.4	839.0	814.6	24.37	34.431		
4,200.0	4,184.2	4,313.7	4,280.7	13.8	16.1	-75.42	264.3	-892.8	826.6	801.8	24.79	33.348		
4,300.0	4,284.2	4,412.6	4,378.6	14.1	16.6	-75.92	256.8	-881.3	814.7	789.5	25.21	32.319		
4,314.0	4,298.3	4,426.5	4,392.4	14.1	16.6	-90.98	255.7	-879.7	813.0	787.8	25.26	32.188		
4,400.0	4,384.2	4,511.7	4,476.7	14.1	17.0	-91.46	249.3	-869.7	803.1	777.5	25.62	31.344		
4,500.0	4,484.2	4,610.7	4,574.8	14.2	17.4	-92.02	241.8	-858.2	791.6	765.6	26.03	30.410		
4,600.0	4,584.2	4,709.7	4,672.8	14.3	17.8	-92.61	234.2	-846.6	780.2	753.8	26.44	29.515		
4,700.0	4,684.2	4,808.8	4,770.9	14.4	18.2	-93.21	226.7	-835.1	768.9	742.1	26.83	28.657		
4,800.0	4,784.2	4,907.8	4,868.9	14.4	18.6	-93.83	219.2	-823.5	757.7	730.5	27.22	27.835		
4,900.0	4,884.2	5,006.8	4,967.0	14.5	19.1	-94.47	211.7	-811.9	746.6	719.0	27.60	27.047		
5,000.0	4,984.2	5,105.8	5,065.1	14.6	19.5	-95.13	204.2	-800.4	735.5	707.6	27.98	26.292		
5,100.0	5,084.2	5,204.9	5,163.1	14.6	19.9	-95.80	196.7	-788.8	724.6	696.3	28.34	25.568		
5,200.0	5,184.2	5,303.9	5,261.2	14.7	20.3	-96.50	189.2	-777.3	713.8	685.1	28.69	24.875		
5,300.0	5,284.2	5,402.9	5,359.3	14.8	20.7	-97.22	181.7	-765.7	703.0	674.0	29.04	24.211		
5,400.0	5,384.2	5,501.9	5,457.3	14.9	21.2	-97.96	174.2	-754.2	692.4	663.1	29.37	23.576		
5,500.0	5,484.2	5,598.4	5,552.9	14.9	21.5	-98.69	167.0	-743.0	682.0	652.4	29.66	22.999		
5,600.0	5,584.2	5,693.4	5,647.1	15.0	21.9	-99.40	160.2	-732.6	672.3	642.4	29.95	22.446		
5,700.0	5,684.2	5,788.6	5,741.5	15.1	22.3	-100.08	153.9	-722.9	663.4	633.1	30.24	21.933		
5,800.0	5,784.2	5,883.9	5,836.2	15.2	22.7	-100.73	148.0	-713.8	655.1	624.5	30.53	21.459		
5,900.0	5,884.2	5,979.4	5,931.2	15.2	23.1	-101.34	142.5	-705.4	647.5	616.7	30.80	21.019		
6,000.0	5,984.2	6,075.1	6,026.5	15.3	23.5	-101.92	137.5	-697.6	640.6	609.5	31.07	20.614		
6,100.0	6,084.2	6,171.0	6,121.9	15.4	23.9	-102.47	132.8	-690.5	634.3	602.9	31.34	20.239		
6,200.0	6,184.2	6,267.0	6,217.6	15.4	24.2	-102.97	128.6	-684.0	628.7	597.1	31.60	19.893		
6,300.0	6,284.2	6,363.1	6,313.5	15.5	24.6	-103.43	124.9	-678.2	623.7	591.8	31.86	19.574		
6,400.0	6,384.2	6,459.3	6,409.5	15.6	24.9	-103.84	121.5	-673.0	619.3	587.2	32.12	19.281		
6,500.0	6,484.2	6,555.6	6,505.6	15.7	25.3	-104.20	118.6	-668.6	615.5	583.1	32.38	19.012		
6,600.0	6,584.2	6,652.0	6,601.9	15.7	25.6	-104.51	116.2	-664.8	612.3	579.7	32.63	18.766		
6,700.0	6,684.2	6,748.4	6,698.3	15.8	25.9	-104.77	114.1	-661.7	609.7	576.9	32.88	18.542		
6,800.0	6,784.2	6,844.9	6,794.8	15.9	26.2	-104.97	112.5	-659.2	607.7	574.6	33.14	18.340		
6,900.0	6,884.2	6,941.5	6,891.3	16.0	26.5	-105.12	111.4	-657.5	606.3	572.9	33.38	18.161		
7,000.0	6,984.2	7,038.1	6,987.9	16.0	26.7	-105.21	110.7	-656.4	605.4	571.8	33.62	18.006		
7,100.0	7,084.2	7,134.7	7,084.5	16.1	26.9	-105.24	110.5	-656.0	605.1	571.2	33.81	17.894		
7,135.9	7,120.1	7,170.3	7,120.1	16.1	26.9	-105.24	110.5	-656.0	605.1	571.2	33.84	17.878		
7,200.0	7,184.2	7,234.4	7,184.2	16.2	26.9	-105.24	110.5	-656.0	605.1	571.2	33.90	17.848		
7,300.0	7,284.2	7,334.4	7,284.2	16.3	26.9	-105.24	110.5	-656.0	605.1	571.1	34.00	17.797		
7,400.0	7,384.2	7,434.4	7,384.2	16.3	26.9	-105.24	110.5	-656.0	605.1	571.0	34.10	17.745		
7,500.0	7,484.2	7,534.4	7,484.2	16.4	26.9	-105.24	110.5	-656.0	605.1	570.9	34.20	17.694		
7,600.0	7,584.2	7,634.4	7,584.2	16.5	27.0	-105.24	110.5	-656.0	605.1	570.8	34.30	17.642		
7,700.0	7,684.2	7,734.4	7,684.2	16.6	27.0	-105.24	110.5	-656.0	605.1	570.7	34.40	17.591		
7,800.0	7,784.2	7,834.4	7,784.2	16.6	27.0	-105.24	110.5	-656.0	605.1	570.6	34.50	17.540		

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 #705H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11104-r.5 MWD+IFR1+MS				Offset		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		
7,900.0	7,884.2	7,934.4	7,884.2	16.7	27.0	-105.24	110.5	-656.0	605.1	570.5	34.60	17.488		
8,000.0	7,984.2	8,034.4	7,984.2	16.8	27.0	-105.24	110.5	-656.0	605.1	570.4	34.70	17.437		
8,100.0	8,084.2	8,134.4	8,084.2	16.9	27.1	-105.24	110.5	-656.0	605.1	570.3	34.80	17.386		
8,200.0	8,184.2	8,234.4	8,184.2	16.9	27.1	-105.24	110.5	-656.0	605.1	570.2	34.90	17.335		
8,300.0	8,284.2	8,334.4	8,284.2	17.0	27.1	-105.24	110.5	-656.0	605.1	570.1	35.01	17.284		
8,400.0	8,384.2	8,434.4	8,384.2	17.1	27.1	-105.24	110.5	-656.0	605.1	570.0	35.11	17.233		
8,500.0	8,484.2	8,534.4	8,484.2	17.2	27.2	-105.24	110.5	-656.0	605.1	569.8	35.21	17.182		
8,600.0	8,584.2	8,634.4	8,584.2	17.2	27.2	-105.24	110.5	-656.0	605.1	569.7	35.32	17.132		
8,700.0	8,684.2	8,734.4	8,684.2	17.3	27.2	-105.24	110.5	-656.0	605.1	569.6	35.42	17.081		
8,800.0	8,784.2	8,834.4	8,784.2	17.4	27.2	-105.24	110.5	-656.0	605.1	569.5	35.53	17.031		
8,900.0	8,884.2	8,934.4	8,884.2	17.5	27.2	-105.24	110.5	-656.0	605.1	569.4	35.63	16.980		
9,000.0	8,984.2	9,034.4	8,984.2	17.5	27.3	-105.24	110.5	-656.0	605.1	569.3	35.74	16.930		
9,100.0	9,084.2	9,134.4	9,084.2	17.6	27.3	-105.24	110.5	-656.0	605.1	569.2	35.85	16.880		
9,200.0	9,184.2	9,234.4	9,184.2	17.7	27.3	-105.24	110.5	-656.0	605.1	569.1	35.95	16.830		
9,300.0	9,284.2	9,334.4	9,284.2	17.8	27.3	-105.24	110.5	-656.0	605.1	569.0	36.06	16.780		
9,400.0	9,384.2	9,434.4	9,384.2	17.8	27.4	-105.24	110.5	-656.0	605.1	568.9	36.17	16.730		
9,500.0	9,484.2	9,534.4	9,484.2	17.9	27.4	-105.24	110.5	-656.0	605.1	568.8	36.27	16.680		
9,600.0	9,584.2	9,634.4	9,584.2	18.0	27.4	-105.24	110.5	-656.0	605.1	568.7	36.38	16.630		
9,700.0	9,684.2	9,734.4	9,684.2	18.1	27.4	-105.24	110.5	-656.0	605.1	568.6	36.49	16.581		
9,800.0	9,784.2	9,834.4	9,784.2	18.1	27.5	-105.24	110.5	-656.0	605.1	568.5	36.60	16.531		
9,900.0	9,884.2	9,934.4	9,884.2	18.2	27.5	-105.24	110.5	-656.0	605.1	568.4	36.71	16.482		
10,000.0	9,984.2	10,034.4	9,984.2	18.3	27.5	-105.24	110.5	-656.0	605.1	568.2	36.82	16.433		
10,100.0	10,084.2	10,134.4	10,084.2	18.4	27.5	-105.24	110.5	-656.0	605.1	568.1	36.93	16.384		
10,200.0	10,184.2	10,234.4	10,184.2	18.4	27.6	-105.24	110.5	-656.0	605.1	568.0	37.04	16.335		
10,300.0	10,284.2	10,334.4	10,284.2	18.5	27.6	-105.24	110.5	-656.0	605.1	567.9	37.15	16.286		
10,400.0	10,384.2	10,434.4	10,384.2	18.6	27.6	-105.24	110.5	-656.0	605.1	567.8	37.26	16.238		
10,500.0	10,484.2	10,534.4	10,484.2	18.7	27.6	-105.24	110.5	-656.0	605.1	567.7	37.37	16.189		
10,600.0	10,584.2	10,634.4	10,584.2	18.7	27.7	-105.24	110.5	-656.0	605.1	567.6	37.49	16.141		
10,700.0	10,684.2	10,734.4	10,684.2	18.8	27.7	-105.24	110.5	-656.0	605.1	567.5	37.60	16.092		
10,800.0	10,784.2	10,834.4	10,784.2	18.9	27.7	-105.24	110.5	-656.0	605.1	567.3	37.71	16.044		
10,900.0	10,884.2	10,934.4	10,884.2	19.0	27.8	-105.24	110.5	-656.0	605.1	567.2	37.83	15.996		
11,000.0	10,984.2	11,034.4	10,984.2	19.0	27.8	-105.24	110.5	-656.0	605.1	567.1	37.94	15.948		
11,100.0	11,084.2	11,145.2	11,095.0	19.1	27.8	-105.11	112.0	-656.0	604.8	566.7	38.13	15.861		
11,188.3	11,172.5	11,260.9	11,208.7	19.2	27.9	-103.26	131.8	-656.3	601.2	562.4	38.78	15.504		
11,200.0	11,184.2	11,275.5	11,222.7	19.2	27.9	76.73	136.0	-656.4	600.4	561.5	38.89	15.440		
11,225.0	11,209.2	11,305.3	11,250.9	19.1	27.9	77.98	145.5	-656.5	598.5	559.3	39.15	15.288		
11,250.0	11,234.1	11,333.1	11,276.8	19.1	27.9	79.47	155.7	-656.7	596.2	556.8	39.44	15.118		
11,275.0	11,258.8	11,358.6	11,300.1	19.0	27.9	81.09	166.2	-656.8	593.7	554.0	39.75	14.937		
11,300.0	11,283.2	11,381.7	11,320.7	19.0	27.9	82.77	176.5	-657.0	591.3	551.2	40.08	14.754		
11,325.0	11,307.4	11,402.3	11,338.8	18.9	27.9	84.42	186.5	-657.1	589.0	548.6	40.41	14.577		
11,350.0	11,331.2	11,420.6	11,354.5	18.8	27.9	85.98	195.8	-657.3	587.1	546.4	40.75	14.410		
11,375.0	11,354.5	11,436.4	11,367.9	18.8	27.9	87.39	204.3	-657.4	585.8	544.7	41.08	14.259		
11,400.0	11,377.4	11,450.1	11,379.2	18.7	27.9	88.61	211.9	-657.5	585.0	543.6	41.41	14.126		
11,411.8	11,387.9	11,455.8	11,383.8	18.7	27.9	89.11	215.2	-657.6	584.9	543.4	41.57	14.071 CC		
11,425.0	11,399.7	11,461.6	11,388.6	18.6	27.9	89.61	218.6	-657.6	585.0	543.3	41.74	14.016 ES		
11,450.0	11,421.3	11,471.2	11,396.3	18.6	27.9	90.36	224.2	-657.7	585.9	543.9	42.07	13.929		
11,475.0	11,442.3	11,479.0	11,402.6	18.5	27.9	90.86	228.9	-657.8	587.8	545.4	42.39	13.867		
11,500.0	11,462.6	11,485.2	11,407.4	18.5	27.9	91.10	232.7	-657.8	590.6	547.9	42.70	13.830		
11,525.0	11,482.0	11,489.9	11,411.1	18.4	27.9	91.08	235.6	-657.9	594.4	551.4	43.01	13.820 SF		
11,550.0	11,500.6	11,493.2	11,413.7	18.4	27.9	90.81	237.7	-657.9	599.2	555.9	43.31	13.836		
11,575.0	11,518.3	11,500.0	11,419.0	18.3	27.9	90.76	242.0	-658.0	605.0	561.4	43.65	13.860		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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 #705H - OWB - PWP0												Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11104-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		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		
11,600.0	11,535.1	11,500.0	11,419.0	18.3	27.9	89.92	242.0	-658.0	611.8	567.9	43.92	13.931		
11,625.0	11,550.8	11,500.0	11,419.0	18.2	27.9	88.94	242.0	-658.0	619.5	575.3	44.18	14.022		
11,650.0	11,565.6	11,500.0	11,419.0	18.2	27.9	87.85	242.0	-658.0	628.1	583.6	44.44	14.134		
11,675.0	11,579.2	11,500.0	11,419.0	18.1	27.9	86.63	242.0	-658.0	637.5	592.8	44.69	14.265		
11,700.0	11,591.7	11,490.9	11,411.9	18.1	27.9	84.42	236.3	-657.9	647.6	602.7	44.86	14.434		
11,725.0	11,603.1	11,487.6	11,409.4	18.1	27.9	82.69	234.2	-657.9	658.3	613.3	45.07	14.606		
11,750.0	11,613.3	11,483.7	11,406.3	18.1	27.9	80.81	231.8	-657.8	669.7	624.4	45.27	14.794		
11,775.0	11,622.3	11,479.3	11,402.8	18.0	27.9	78.82	229.1	-657.8	681.6	636.1	45.44	14.998		
11,800.0	11,630.1	11,474.3	11,398.8	18.0	27.9	76.72	226.1	-657.7	693.9	648.3	45.61	15.214		
11,825.0	11,636.6	11,468.8	11,394.4	18.0	27.9	74.55	222.8	-657.7	706.5	660.8	45.75	15.442		
11,850.0	11,641.8	11,462.9	11,389.7	18.0	27.9	72.33	219.3	-657.6	719.4	673.5	45.88	15.679		
11,875.0	11,645.8	11,450.0	11,379.1	18.0	27.9	69.57	211.9	-657.5	732.6	686.6	45.99	15.930		
11,900.0	11,648.4	11,450.0	11,379.1	18.0	27.9	67.83	211.9	-657.5	745.8	699.7	46.10	16.176		
11,925.0	11,649.8	11,450.0	11,379.1	18.0	27.9	66.08	211.9	-657.5	759.2	713.0	46.20	16.432		
11,938.3	11,650.0	11,450.0	11,379.1	18.0	27.9	65.15	211.9	-657.5	766.3	720.1	46.24	16.571		
12,000.0	11,650.0	11,421.8	11,355.6	18.0	27.9	63.26	196.5	-657.3	800.5	754.1	46.40	17.251		
12,100.0	11,650.0	11,400.0	11,336.8	18.1	27.9	61.80	185.3	-657.1	861.2	814.6	46.55	18.501		
12,200.0	11,650.0	11,375.6	11,315.3	18.1	27.9	60.18	173.7	-656.9	927.5	880.9	46.59	19.908		
12,300.0	11,650.0	11,350.0	11,292.3	18.2	27.9	58.50	162.5	-656.8	998.6	952.0	46.57	21.444		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,700.0	2,692.8	2,894.1	2,866.2	8.7	10.6	-59.63	396.3	-953.8	977.3	958.5	18.79	52.002		
2,800.0	2,792.0	2,990.5	2,961.1	9.0	11.1	-60.34	390.2	-937.8	953.4	934.1	19.39	49.178		
2,900.0	2,891.3	3,086.9	3,055.9	9.4	11.5	-61.10	384.0	-921.7	929.8	909.8	19.98	46.528		
3,000.0	2,990.6	3,183.3	3,150.8	9.7	11.9	-61.89	377.9	-905.7	906.2	885.7	20.58	44.042		
3,100.0	3,089.8	3,279.7	3,245.6	10.0	12.3	-62.72	371.7	-889.7	882.9	861.7	21.17	41.710		
3,200.0	3,189.1	3,376.1	3,340.5	10.4	12.7	-63.60	365.6	-873.7	859.7	838.0	21.75	39.520		
3,300.0	3,288.3	3,472.5	3,435.4	10.7	13.1	-64.52	359.4	-857.7	836.8	814.4	22.34	37.463		
3,400.0	3,387.6	3,568.9	3,530.2	11.1	13.5	-65.50	353.3	-841.7	814.0	791.1	22.91	35.532		
3,500.0	3,486.8	3,665.3	3,625.1	11.5	13.9	-66.53	347.1	-825.7	791.6	768.1	23.48	33.719		
3,600.0	3,586.1	3,761.7	3,719.9	11.8	14.4	-67.62	341.0	-809.6	769.3	745.3	24.03	32.016		
3,614.0	3,600.0	3,775.2	3,733.2	11.9	14.4	-67.78	340.1	-807.4	766.2	742.1	24.10	31.794		
3,700.0	3,685.4	3,858.2	3,814.9	12.2	14.8	-68.55	334.8	-793.6	747.6	723.0	24.57	30.422		
3,800.0	3,784.9	3,955.1	3,910.3	12.6	15.2	-69.39	328.6	-777.5	726.8	701.7	25.12	28.938		
3,900.0	3,884.6	4,052.3	4,006.0	12.9	15.6	-70.18	322.4	-761.4	706.8	681.1	25.65	27.552		
4,000.0	3,984.4	4,149.9	4,101.9	13.2	16.1	-70.88	316.2	-745.2	687.5	661.3	26.19	26.254		
4,100.0	4,084.3	4,247.7	4,198.2	13.5	16.5	-71.51	310.0	-728.9	669.0	642.3	26.72	25.034		
4,200.0	4,184.2	4,345.7	4,294.7	13.8	16.9	-72.04	303.7	-712.6	651.1	623.8	27.26	23.885		
4,300.0	4,284.2	4,444.0	4,391.4	14.1	17.4	-72.46	297.5	-696.3	633.8	606.0	27.80	22.801		
4,314.0	4,298.3	4,457.8	4,405.0	14.1	17.4	-87.51	296.6	-694.0	631.4	603.6	27.87	22.659		
4,400.0	4,384.2	4,542.4	4,488.2	14.1	17.8	-87.96	291.2	-679.9	616.9	588.6	28.33	21.777		
4,500.0	4,484.2	4,640.8	4,585.1	14.2	18.2	-88.51	284.9	-663.6	600.1	571.2	28.86	20.796		
4,600.0	4,584.2	4,739.2	4,681.9	14.3	18.7	-89.09	278.6	-647.2	583.3	554.0	29.38	19.857		
4,700.0	4,684.2	4,837.6	4,778.7	14.4	19.1	-89.71	272.4	-630.9	566.6	536.7	29.89	18.955		
4,800.0	4,784.2	4,936.0	4,875.6	14.4	19.5	-90.36	266.1	-614.5	550.0	519.6	30.40	18.091		
4,900.0	4,884.2	5,034.4	4,972.4	14.5	20.0	-91.06	259.8	-598.2	533.4	502.5	30.90	17.262		
5,000.0	4,984.2	5,132.8	5,069.2	14.6	20.4	-91.80	253.5	-581.9	516.9	485.5	31.39	16.468		
5,100.0	5,084.2	5,231.3	5,166.1	14.6	20.9	-92.59	247.3	-565.5	500.5	468.7	31.87	15.706		
5,200.0	5,184.2	5,329.7	5,262.9	14.7	21.3	-93.43	241.0	-549.2	484.2	451.9	32.33	14.976		
5,300.0	5,284.2	5,428.1	5,359.7	14.8	21.7	-94.32	234.7	-532.8	468.0	435.3	32.79	14.276		
5,400.0	5,384.2	5,526.5	5,456.6	14.9	22.2	-95.29	228.4	-516.5	452.0	418.7	33.22	13.606		
5,500.0	5,484.2	5,624.9	5,553.4	14.9	22.6	-96.32	222.2	-500.1	436.0	402.4	33.63	12.965		
5,600.0	5,584.2	5,723.3	5,650.2	15.0	23.1	-97.43	215.9	-483.8	420.2	386.2	34.02	12.352		
5,700.0	5,684.2	5,821.7	5,747.1	15.1	23.5	-98.62	209.6	-467.4	404.6	370.2	34.39	11.767		
5,800.0	5,784.2	5,920.1	5,843.9	15.2	24.0	-99.91	203.3	-451.1	389.2	354.5	34.72	11.209		
5,900.0	5,884.2	6,018.5	5,940.7	15.2	24.4	-101.31	197.1	-434.7	374.0	339.0	35.02	10.679		
6,000.0	5,984.2	6,116.9	6,037.6	15.3	24.8	-102.82	190.8	-418.4	359.0	323.7	35.27	10.177		
6,100.0	6,084.2	6,213.2	6,132.4	15.4	25.3	-104.39	184.8	-402.7	344.5	309.1	35.47	9.714		
6,200.0	6,184.2	6,309.5	6,227.3	15.4	25.7	-106.01	179.0	-387.7	331.1	295.4	35.64	9.289		
6,300.0	6,284.2	6,406.0	6,322.7	15.5	26.1	-107.67	173.6	-373.5	318.5	282.7	35.77	8.905		
6,400.0	6,384.2	6,502.9	6,418.4	15.6	26.5	-109.37	168.4	-360.0	306.9	271.1	35.86	8.559		
6,500.0	6,484.2	6,600.0	6,514.6	15.7	27.0	-111.10	163.4	-347.1	296.2	260.3	35.91	8.249		
6,600.0	6,584.2	6,697.2	6,610.9	15.7	27.4	-112.84	158.8	-335.1	286.5	250.5	35.93	7.973		
6,700.0	6,684.2	6,794.7	6,707.7	15.8	27.8	-114.59	154.5	-323.7	277.6	241.7	35.92	7.728		
6,800.0	6,784.2	6,892.4	6,804.7	15.9	28.2	-116.31	150.4	-313.2	269.6	233.7	35.89	7.512		
6,900.0	6,884.2	6,990.3	6,902.1	16.0	28.6	-118.01	146.6	-303.3	262.4	226.5	35.83	7.322		
7,000.0	6,984.2	7,088.4	6,999.7	16.0	29.0	-119.65	143.1	-294.3	256.0	220.2	35.77	7.156		
7,100.0	7,084.2	7,186.6	7,097.5	16.1	29.4	-121.23	139.9	-286.0	250.3	214.6	35.70	7.012		
7,200.0	7,184.2	7,285.0	7,195.5	16.2	29.7	-122.72	137.1	-278.4	245.3	209.7	35.63	6.886		
7,300.0	7,284.2	7,383.5	7,293.8	16.3	30.1	-124.11	134.5	-271.7	241.1	205.5	35.57	6.777		
7,400.0	7,384.2	7,482.2	7,392.2	16.3	30.5	-125.37	132.2	-265.7	237.4	201.9	35.53	6.683		
7,500.0	7,484.2	7,580.9	7,490.8	16.4	30.8	-126.50	130.2	-260.5	234.3	198.8	35.50	6.600		

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS				Rule Assigned:									Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,600.0	7,584.2	7,679.7	7,589.5	16.5	31.1	-127.49	128.5	-256.1	231.8	196.3	35.51	6.528		
7,700.0	7,684.2	7,778.6	7,688.3	16.6	31.5	-128.31	127.1	-252.5	229.8	194.3	35.54	6.465		
7,800.0	7,784.2	7,877.6	7,787.2	16.6	31.8	-128.95	126.0	-249.7	228.3	192.6	35.61	6.410		
7,900.0	7,884.2	7,976.6	7,886.2	16.7	32.0	-129.42	125.3	-247.7	227.2	191.5	35.71	6.361		
8,000.0	7,984.2	8,075.6	7,985.2	16.8	32.3	-129.71	124.8	-246.5	226.5	190.7	35.85	6.320		
8,100.0	8,084.2	8,174.6	8,084.3	16.9	32.4	-129.81	124.6	-246.1	226.3	190.3	35.97	6.292		
8,133.9	8,118.2	8,208.5	8,118.2	16.9	32.4	-129.81	124.6	-246.1	226.3	190.3	36.00	6.287		
8,200.0	8,184.2	8,274.6	8,184.2	16.9	32.4	-129.81	124.6	-246.1	226.3	190.2	36.07	6.275		
8,300.0	8,284.2	8,374.6	8,284.2	17.0	32.5	-129.81	124.6	-246.1	226.3	190.1	36.17	6.257		
8,400.0	8,384.2	8,474.6	8,384.2	17.1	32.5	-129.81	124.6	-246.1	226.3	190.0	36.27	6.239		
8,500.0	8,484.2	8,574.6	8,484.2	17.2	32.5	-129.81	124.6	-246.1	226.3	189.9	36.37	6.222		
8,600.0	8,584.2	8,674.6	8,584.2	17.2	32.5	-129.81	124.6	-246.1	226.3	189.8	36.48	6.204		
8,700.0	8,684.2	8,774.6	8,684.2	17.3	32.5	-129.81	124.6	-246.1	226.3	189.7	36.58	6.186		
8,800.0	8,784.2	8,874.6	8,784.2	17.4	32.6	-129.81	124.6	-246.1	226.3	189.6	36.69	6.169		
8,900.0	8,884.2	8,974.6	8,884.2	17.5	32.6	-129.81	124.6	-246.1	226.3	189.5	36.79	6.151		
9,000.0	8,984.2	9,074.6	8,984.2	17.5	32.6	-129.81	124.6	-246.1	226.3	189.4	36.90	6.134		
9,100.0	9,084.2	9,174.6	9,084.2	17.6	32.6	-129.81	124.6	-246.1	226.3	189.3	37.00	6.116		
9,200.0	9,184.2	9,274.6	9,184.2	17.7	32.6	-129.81	124.6	-246.1	226.3	189.2	37.11	6.099		
9,300.0	9,284.2	9,374.6	9,284.2	17.8	32.7	-129.81	124.6	-246.1	226.3	189.1	37.21	6.081		
9,400.0	9,384.2	9,474.6	9,384.2	17.8	32.7	-129.81	124.6	-246.1	226.3	189.0	37.32	6.064		
9,500.0	9,484.2	9,574.6	9,484.2	17.9	32.7	-129.81	124.6	-246.1	226.3	188.9	37.43	6.046		
9,600.0	9,584.2	9,674.6	9,584.2	18.0	32.7	-129.81	124.6	-246.1	226.3	188.8	37.54	6.029		
9,700.0	9,684.2	9,774.6	9,684.2	18.1	32.7	-129.81	124.6	-246.1	226.3	188.7	37.64	6.012		
9,800.0	9,784.2	9,874.6	9,784.2	18.1	32.8	-129.81	124.6	-246.1	226.3	188.6	37.75	5.995		
9,900.0	9,884.2	9,974.6	9,884.2	18.2	32.8	-129.81	124.6	-246.1	226.3	188.5	37.86	5.977		
10,000.0	9,984.2	10,074.6	9,984.2	18.3	32.8	-129.81	124.6	-246.1	226.3	188.3	37.97	5.960		
10,100.0	10,084.2	10,174.6	10,084.2	18.4	32.8	-129.81	124.6	-246.1	226.3	188.2	38.08	5.943		
10,200.0	10,184.2	10,274.6	10,184.2	18.4	32.8	-129.81	124.6	-246.1	226.3	188.1	38.19	5.926		
10,300.0	10,284.2	10,374.6	10,284.2	18.5	32.9	-129.81	124.6	-246.1	226.3	188.0	38.30	5.909		
10,400.0	10,384.2	10,474.6	10,384.2	18.6	32.9	-129.81	124.6	-246.1	226.3	187.9	38.41	5.892		
10,500.0	10,484.2	10,574.6	10,484.2	18.7	32.9	-129.81	124.6	-246.1	226.3	187.8	38.52	5.875		
10,600.0	10,584.2	10,674.6	10,584.2	18.7	32.9	-129.81	124.6	-246.1	226.3	187.7	38.63	5.858		
10,700.0	10,684.2	10,774.6	10,684.2	18.8	32.9	-129.81	124.6	-246.1	226.3	187.6	38.75	5.841		
10,800.0	10,784.2	10,874.6	10,784.2	18.9	33.0	-129.81	124.6	-246.1	226.3	187.5	38.86	5.824		
10,900.0	10,884.2	10,974.7	10,884.3	19.0	33.0	-129.81	124.6	-246.1	226.3	187.4	38.96	5.809		
11,000.0	10,984.2	11,105.3	11,013.7	19.0	33.0	-126.74	139.5	-246.3	219.3	178.8	40.50	5.414		
11,100.0	11,084.2	11,223.5	11,125.3	19.1	33.0	-117.65	178.0	-247.0	201.6	158.0	43.55	4.628		
11,188.3	11,172.5	11,312.2	11,202.6	19.2	33.0	-105.33	221.4	-247.8	184.5	137.6	46.90	3.934		
11,200.0	11,184.2	11,322.8	11,211.3	19.2	33.1	76.25	227.4	-247.9	182.7	135.3	47.34	3.859		
11,225.0	11,209.2	11,343.7	11,228.3	19.1	33.1	80.79	239.6	-248.1	179.2	131.0	48.25	3.714		
11,250.0	11,234.1	11,362.5	11,243.1	19.1	33.1	85.25	251.2	-248.3	176.9	127.8	49.08	3.604		
11,270.7	11,254.6	11,376.5	11,253.9	19.0	33.1	88.71	260.1	-248.5	176.2	126.6	49.66	3.549 CC		
11,275.0	11,258.8	11,379.2	11,255.9	19.0	33.1	89.38	261.8	-248.5	176.3	126.5	49.76	3.542 ES		
11,300.0	11,283.2	11,393.8	11,267.0	19.0	33.1	93.00	271.5	-248.7	177.8	127.5	50.23	3.539 SF		
11,325.0	11,307.4	11,406.5	11,276.3	18.9	33.1	95.96	280.0	-248.9	181.7	131.2	50.45	3.601		
11,350.0	11,331.2	11,417.3	11,284.1	18.8	33.1	98.18	287.5	-249.0	188.2	137.8	50.43	3.732		
11,375.0	11,354.5	11,426.3	11,290.5	18.8	33.1	99.61	293.9	-249.1	197.3	147.1	50.22	3.929		
11,400.0	11,377.4	11,433.8	11,295.7	18.7	33.1	100.25	299.2	-249.2	208.8	158.9	49.87	4.187		
11,425.0	11,399.7	11,439.7	11,299.8	18.6	33.1	100.09	303.5	-249.3	222.5	173.0	49.45	4.499		
11,450.0	11,421.3	11,444.3	11,303.0	18.6	33.1	99.13	306.8	-249.3	238.0	189.0	49.02	4.856		
11,475.0	11,442.3	11,450.0	11,306.8	18.5	33.1	98.10	311.0	-249.4	255.2	206.6	48.62	5.248		

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,500.0	11,462.6	11,450.0	11,306.8	18.5	33.1	94.86	311.0	-249.4	273.6	225.4	48.21	5.675	
11,525.0	11,482.0	11,450.0	11,306.8	18.4	33.1	91.15	311.0	-249.4	293.0	245.2	47.85	6.124	
11,550.0	11,500.6	11,450.0	11,306.8	18.4	33.1	87.00	311.0	-249.4	313.3	265.7	47.55	6.589	
11,575.0	11,518.3	11,450.0	11,306.8	18.3	33.1	82.48	311.0	-249.4	334.1	286.9	47.28	7.067	
11,600.0	11,535.1	11,450.0	11,306.8	18.3	33.1	77.66	311.0	-249.4	355.5	308.4	47.05	7.555	
11,625.0	11,550.8	11,450.0	11,306.8	18.2	33.1	72.67	311.0	-249.4	377.1	330.2	46.83	8.052	
11,650.0	11,565.6	11,450.0	11,306.8	18.2	33.1	67.61	311.0	-249.4	398.9	352.3	46.63	8.555	
11,675.0	11,579.2	11,439.9	11,299.9	18.1	33.1	60.15	303.6	-249.3	420.7	374.2	46.50	9.047	
11,700.0	11,591.7	11,435.8	11,297.1	18.1	33.1	54.71	300.6	-249.2	442.5	396.1	46.35	9.547	
11,725.0	11,603.1	11,431.1	11,293.9	18.1	33.1	49.66	297.3	-249.2	464.2	418.0	46.22	10.045	
11,750.0	11,613.3	11,426.0	11,290.3	18.1	33.1	45.07	293.6	-249.1	485.8	439.7	46.09	10.539	
11,775.0	11,622.3	11,420.4	11,286.3	18.0	33.1	40.96	289.7	-249.0	507.1	461.1	45.97	11.030	
11,800.0	11,630.1	11,414.5	11,282.1	18.0	33.1	37.32	285.5	-249.0	528.1	482.2	45.86	11.515	
11,825.0	11,636.6	11,400.0	11,271.5	18.0	33.1	33.39	275.6	-248.8	548.8	503.0	45.81	11.980	
11,850.0	11,641.8	11,400.0	11,271.5	18.0	33.1	31.21	275.6	-248.8	569.0	523.3	45.66	12.462	
11,875.0	11,645.8	11,400.0	11,271.5	18.0	33.1	29.23	275.6	-248.8	588.9	543.4	45.50	12.942	
11,900.0	11,648.4	11,387.3	11,262.1	18.0	33.1	26.73	267.1	-248.6	608.2	562.7	45.44	13.383	
11,925.0	11,649.8	11,379.8	11,256.4	18.0	33.1	24.85	262.2	-248.5	627.0	581.7	45.34	13.829	
11,938.3	11,650.0	11,375.7	11,253.3	18.0	33.1	23.95	259.5	-248.5	636.8	591.5	45.29	14.061	
12,000.0	11,650.0	11,350.0	11,233.3	18.0	33.1	22.87	243.4	-248.2	682.8	637.7	45.12	15.134	
12,100.0	11,650.0	11,330.3	11,217.4	18.1	33.1	22.08	231.7	-248.0	760.0	715.3	44.74	16.987	
12,200.0	11,650.0	11,300.0	11,192.4	18.1	33.0	20.93	214.7	-247.7	840.4	795.9	44.52	18.879	
12,300.0	11,650.0	11,300.0	11,192.4	18.2	33.0	20.93	214.7	-247.7	923.5	879.4	44.13	20.926	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
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	
2,400.0	2,395.0	2,637.0	2,600.0	7.8	9.7	-55.90	424.5	-928.5	988.6	971.2	17.35	56.994		
2,500.0	2,494.3	2,732.8	2,693.6	8.1	10.1	-56.42	419.0	-909.4	961.1	943.1	17.96	53.522		
2,600.0	2,593.5	2,828.5	2,787.3	8.4	10.6	-56.96	413.5	-890.3	933.7	915.1	18.58	50.265		
2,700.0	2,692.8	2,924.3	2,881.0	8.7	11.0	-57.54	408.1	-871.1	906.4	887.2	19.20	47.208		
2,800.0	2,792.0	3,020.1	2,974.7	9.0	11.4	-58.15	402.6	-852.0	879.2	859.4	19.83	44.338		
2,900.0	2,891.3	3,115.9	3,068.4	9.4	11.8	-58.81	397.1	-832.8	852.1	831.6	20.46	41.644		
3,000.0	2,990.6	3,211.7	3,162.1	9.7	12.2	-59.50	391.6	-813.7	825.1	804.0	21.09	39.113		
3,100.0	3,089.8	3,307.5	3,255.8	10.0	12.6	-60.24	386.1	-794.6	798.2	776.5	21.73	36.735		
3,200.0	3,189.1	3,403.2	3,349.5	10.4	13.1	-61.03	380.6	-775.4	771.4	749.1	22.36	34.498		
3,300.0	3,288.3	3,499.0	3,443.1	10.7	13.5	-61.88	375.1	-756.3	744.8	721.8	22.99	32.395		
3,400.0	3,387.6	3,594.8	3,536.8	11.1	13.9	-62.79	369.6	-737.1	718.4	694.8	23.62	30.416		
3,500.0	3,486.8	3,690.6	3,630.5	11.5	14.3	-63.77	364.1	-718.0	692.2	667.9	24.24	28.553		
3,600.0	3,586.1	3,786.4	3,724.2	11.8	14.8	-64.82	358.7	-698.8	666.1	641.3	24.86	26.800		
3,614.0	3,600.0	3,799.8	3,737.3	11.9	14.8	-64.98	357.9	-696.2	662.5	637.5	24.93	26.569		
3,700.0	3,685.4	3,882.3	3,818.0	12.2	15.2	-65.70	353.2	-679.7	640.5	615.1	25.46	25.157		
3,800.0	3,784.9	3,978.6	3,912.2	12.6	15.6	-66.49	347.6	-660.4	615.9	589.8	26.06	23.629		
3,900.0	3,884.6	4,075.2	4,006.7	12.9	16.1	-67.22	342.1	-641.1	592.1	565.4	26.67	22.204		
4,000.0	3,984.4	4,172.1	4,101.5	13.2	16.5	-67.87	336.5	-621.7	569.1	541.8	27.26	20.872		
4,100.0	4,084.3	4,269.3	4,196.6	13.5	17.0	-68.42	331.0	-602.3	546.8	518.9	27.86	19.624		
4,200.0	4,184.2	4,366.8	4,292.0	13.8	17.4	-68.87	325.4	-582.8	525.2	496.8	28.46	18.453		
4,300.0	4,284.2	4,464.5	4,387.5	14.1	17.9	-69.18	319.8	-563.3	504.3	475.3	29.06	17.353		
4,314.0	4,298.3	4,478.2	4,400.9	14.1	17.9	-84.22	319.0	-560.6	501.5	472.3	29.14	17.208		
4,400.0	4,384.2	4,562.3	4,483.2	14.1	18.3	-84.59	314.2	-543.8	483.9	454.2	29.66	16.316		
4,500.0	4,484.2	4,660.1	4,578.9	14.2	18.8	-85.06	308.6	-524.2	463.4	433.2	30.24	15.323		
4,600.0	4,584.2	4,757.9	4,674.6	14.3	19.2	-85.58	303.0	-504.7	443.0	412.2	30.83	14.371		
4,700.0	4,684.2	4,855.8	4,770.2	14.4	19.7	-86.14	297.4	-485.1	422.7	391.3	31.41	13.457		
4,800.0	4,784.2	4,953.6	4,865.9	14.4	20.1	-86.76	291.8	-465.6	402.3	370.4	31.98	12.580		
4,900.0	4,884.2	5,051.4	4,961.6	14.5	20.6	-87.45	286.2	-446.0	382.1	349.5	32.55	11.737		
5,000.0	4,984.2	5,149.2	5,057.3	14.6	21.0	-88.22	280.6	-426.5	361.9	328.8	33.11	10.929		
5,100.0	5,084.2	5,247.0	5,152.9	14.6	21.5	-89.07	274.9	-406.9	341.7	308.1	33.66	10.153		
5,200.0	5,184.2	5,344.8	5,248.6	14.7	21.9	-90.03	269.3	-387.4	321.7	287.5	34.19	9.409		
5,300.0	5,284.2	5,442.6	5,344.3	14.8	22.4	-91.12	263.7	-367.8	301.7	267.0	34.70	8.695		
5,400.0	5,384.2	5,540.5	5,440.0	14.9	22.8	-92.37	258.1	-348.3	281.8	246.7	35.18	8.011		
5,500.0	5,484.2	5,638.3	5,535.7	14.9	23.3	-93.79	252.5	-328.7	262.2	226.5	35.63	7.357		
5,600.0	5,584.2	5,736.1	5,631.3	15.0	23.7	-95.45	246.9	-309.2	242.6	206.6	36.04	6.733		
5,700.0	5,684.2	5,833.9	5,727.0	15.1	24.2	-97.40	241.3	-289.6	223.4	187.0	36.38	6.139		
5,800.0	5,784.2	5,931.7	5,822.7	15.2	24.7	-99.70	235.7	-270.1	204.4	167.7	36.65	5.577		
5,900.0	5,884.2	6,029.5	5,918.4	15.2	25.1	-102.47	230.1	-250.5	185.8	149.0	36.80	5.048		
6,000.0	5,984.2	6,127.3	6,014.0	15.3	25.6	-105.84	224.5	-231.0	167.7	130.9	36.79	4.558		
6,100.0	6,084.2	6,225.2	6,109.7	15.4	26.0	-109.99	218.9	-211.4	150.3	113.7	36.57	4.110		
6,200.0	6,184.2	6,323.0	6,205.4	15.4	26.5	-115.18	213.3	-191.9	133.9	97.9	36.04	3.715		
6,300.0	6,284.2	6,420.8	6,301.1	15.5	26.9	-121.71	207.7	-172.3	118.9	83.8	35.12	3.385		
6,400.0	6,384.2	6,518.6	6,396.7	15.6	27.4	-129.94	202.1	-152.8	105.8	72.1	33.75	3.135		
6,500.0	6,484.2	6,616.4	6,492.4	15.7	27.9	-140.14	196.5	-133.2	95.5	63.4	32.11	2.975		
6,600.0	6,584.2	6,714.2	6,588.1	15.7	28.3	-152.21	190.9	-113.7	89.0	58.2	30.84	2.886		
6,689.3	6,673.6	6,801.6	6,673.6	15.8	28.7	-164.00	185.9	-96.2	87.0	56.2	30.87	2.820 CC		
6,700.0	6,684.2	6,812.1	6,683.8	15.8	28.8	-165.43	185.3	-94.1	87.1	56.1	30.98	2.811 ES		
6,800.0	6,784.2	6,909.9	6,779.5	15.9	29.2	-178.50	179.7	-74.6	90.0	57.1	32.91	2.736		
6,900.0	6,884.2	7,007.7	6,875.1	16.0	29.7	-169.80	174.0	-55.0	97.4	61.6	35.85	2.718 SF		
7,000.0	6,984.2	7,105.5	6,970.8	16.0	30.2	-160.03	168.4	-35.5	108.4	69.6	38.82	2.793		
7,100.0	7,084.2	7,203.3	7,066.5	16.1	30.6	-152.19	162.8	-15.9	121.9	80.6	41.37	2.948		

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
7,200.0	7,184.2	7,301.1	7,162.2	16.2	31.1	145.97	157.2	3.6	137.3	93.8	43.45	3.160	
7,300.0	7,284.2	7,398.9	7,257.8	16.3	31.5	141.03	151.6	23.2	153.9	108.8	45.16	3.409	
7,400.0	7,384.2	7,496.8	7,353.5	16.3	32.0	137.06	146.0	42.7	171.5	124.9	46.58	3.681	
7,500.0	7,484.2	7,597.4	7,452.2	16.4	32.5	133.87	140.5	62.0	189.0	141.2	47.81	3.952	
7,600.0	7,584.2	7,698.9	7,551.9	16.5	32.9	131.42	135.4	79.8	205.3	156.5	48.85	4.203	
7,700.0	7,684.2	7,801.0	7,652.6	16.6	33.4	129.52	130.7	96.0	220.4	170.6	49.76	4.429	
7,800.0	7,784.2	7,903.7	7,754.2	16.6	33.8	128.03	126.6	110.6	234.0	183.4	50.56	4.628	
7,900.0	7,884.2	8,006.9	7,856.5	16.7	34.3	126.86	122.9	123.4	246.1	194.8	51.29	4.798	
8,000.0	7,984.2	8,110.5	7,959.5	16.8	34.7	125.93	119.7	134.5	256.5	204.6	51.94	4.939	
8,100.0	8,084.2	8,214.5	8,063.1	16.9	35.1	125.21	117.0	143.9	265.3	212.8	52.53	5.052	
8,200.0	8,184.2	8,318.9	8,167.1	16.9	35.5	124.67	114.8	151.4	272.5	219.4	53.05	5.136	
8,300.0	8,284.2	8,423.5	8,271.5	17.0	35.9	124.27	113.2	157.2	277.9	224.4	53.51	5.193	
8,400.0	8,384.2	8,528.3	8,376.2	17.1	36.2	124.01	112.1	161.1	281.6	227.7	53.90	5.225	
8,500.0	8,484.2	8,633.2	8,481.1	17.2	36.5	123.88	111.5	163.2	283.6	229.4	54.17	5.235	
8,600.0	8,584.2	8,736.3	8,584.2	17.2	36.6	123.85	111.4	163.6	283.9	229.7	54.26	5.233	
8,700.0	8,684.2	8,836.3	8,684.2	17.3	36.6	123.85	111.4	163.6	283.9	229.6	54.32	5.227	
8,800.0	8,784.2	8,936.3	8,784.2	17.4	36.6	123.85	111.4	163.6	283.9	229.5	54.39	5.220	
8,900.0	8,884.2	9,036.3	8,884.2	17.5	36.6	123.85	111.4	163.6	283.9	229.5	54.45	5.214	
9,000.0	8,984.2	9,136.3	8,984.2	17.5	36.6	123.85	111.4	163.6	283.9	229.4	54.52	5.208	
9,100.0	9,084.2	9,236.3	9,084.2	17.6	36.6	123.85	111.4	163.6	283.9	229.3	54.58	5.202	
9,200.0	9,184.2	9,336.3	9,184.2	17.7	36.7	123.85	111.4	163.6	283.9	229.3	54.65	5.195	
9,300.0	9,284.2	9,436.3	9,284.2	17.8	36.7	123.85	111.4	163.6	283.9	229.2	54.72	5.189	
9,400.0	9,384.2	9,536.3	9,384.2	17.8	36.7	123.85	111.4	163.6	283.9	229.1	54.78	5.183	
9,500.0	9,484.2	9,636.3	9,484.2	17.9	36.7	123.85	111.4	163.6	283.9	229.1	54.85	5.176	
9,600.0	9,584.2	9,736.3	9,584.2	18.0	36.7	123.85	111.4	163.6	283.9	229.0	54.92	5.170	
9,700.0	9,684.2	9,836.3	9,684.2	18.1	36.7	123.85	111.4	163.6	283.9	228.9	54.99	5.164	
9,800.0	9,784.2	9,936.3	9,784.2	18.1	36.8	123.85	111.4	163.6	283.9	228.9	55.05	5.157	
9,900.0	9,884.2	10,036.3	9,884.2	18.2	36.8	123.85	111.4	163.6	283.9	228.8	55.12	5.151	
10,000.0	9,984.2	10,136.3	9,984.2	18.3	36.8	123.85	111.4	163.6	283.9	228.7	55.19	5.144	
10,100.0	10,084.2	10,236.3	10,084.2	18.4	36.8	123.85	111.4	163.6	283.9	228.7	55.26	5.138	
10,200.0	10,184.2	10,336.3	10,184.2	18.4	36.8	123.85	111.4	163.6	283.9	228.6	55.33	5.132	
10,300.0	10,284.2	10,436.3	10,284.2	18.5	36.8	123.85	111.4	163.6	283.9	228.5	55.40	5.125	
10,400.0	10,384.2	10,536.3	10,384.2	18.6	36.9	123.85	111.4	163.6	283.9	228.5	55.47	5.119	
10,500.0	10,484.2	10,636.3	10,484.2	18.7	36.9	123.85	111.4	163.6	283.9	228.4	55.54	5.112	
10,600.0	10,584.2	10,736.3	10,584.2	18.7	36.9	123.85	111.4	163.6	283.9	228.3	55.61	5.105	
10,700.0	10,684.2	10,836.3	10,684.2	18.8	36.9	123.85	111.4	163.6	283.9	228.2	55.69	5.099	
10,800.0	10,784.2	10,936.3	10,784.2	18.9	36.9	123.85	111.4	163.6	283.9	228.2	55.76	5.092	
10,900.0	10,884.2	11,036.3	10,884.2	19.0	36.9	123.85	111.4	163.6	283.9	228.1	55.83	5.086	
11,000.0	10,984.2	11,136.3	10,984.2	19.0	37.0	123.85	111.4	163.6	283.9	228.0	55.90	5.079	
11,100.0	11,084.2	11,236.3	11,084.2	19.1	37.0	123.85	111.4	163.6	283.9	228.0	55.98	5.072	
11,188.3	11,172.5	11,324.5	11,172.5	19.2	37.0	123.85	111.4	163.6	283.9	227.9	56.04	5.067	
11,200.0	11,184.2	11,336.3	11,184.2	19.2	37.0	-56.68	111.4	163.6	283.9	227.8	56.04	5.065	
11,225.0	11,209.2	11,361.2	11,209.2	19.1	37.0	-56.96	111.4	163.6	283.2	227.1	56.06	5.051	
11,250.0	11,234.1	11,386.1	11,234.1	19.1	37.0	-57.54	111.4	163.6	281.8	225.6	56.11	5.021	
11,275.0	11,258.8	11,410.8	11,258.8	19.0	37.0	-58.42	111.4	163.6	279.7	223.5	56.19	4.978	
11,300.0	11,283.2	11,435.3	11,283.2	19.0	37.0	-59.59	111.4	163.6	277.0	220.7	56.29	4.921	
11,325.0	11,307.4	11,459.4	11,307.4	18.9	37.0	-61.07	111.4	163.6	273.7	217.3	56.42	4.852	
11,350.0	11,331.2	11,483.2	11,331.2	18.8	37.0	-62.85	111.4	163.6	270.0	213.4	56.56	4.773	
11,375.0	11,354.5	11,510.1	11,358.0	18.8	37.0	-65.22	111.6	163.6	265.8	209.1	56.63	4.693	
11,400.0	11,377.4	11,539.6	11,387.5	18.7	37.0	-68.54	113.3	163.6	260.8	204.2	56.61	4.606	
11,425.0	11,399.7	11,566.2	11,414.0	18.6	37.0	-72.34	116.4	163.5	255.3	198.6	56.62	4.508	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
11,450.0	11,421.3	11,590.0	11,437.3	18.6	37.0	-76.39	120.5	163.5	249.7	193.1	56.63	4.410
11,475.0	11,442.3	11,610.7	11,457.6	18.5	37.0	-80.41	124.9	163.5	244.7	188.1	56.59	4.323
11,500.0	11,462.6	11,628.6	11,474.9	18.5	37.0	-84.20	129.5	163.4	240.5	184.1	56.45	4.261
11,525.0	11,482.0	11,643.8	11,489.5	18.4	37.0	-87.55	133.9	163.4	237.7	181.6	56.15	4.234
11,549.9	11,500.6	11,656.5	11,501.5	18.4	37.0	-90.34	137.9	163.4	236.8	181.1	55.65	4.254
11,550.0	11,500.6	11,656.6	11,501.6	18.4	37.0	-90.34	137.9	163.4	236.8	181.1	55.65	4.254
11,575.0	11,518.3	11,667.1	11,511.4	18.3	37.0	-92.50	141.5	163.4	237.8	182.9	54.95	4.328
11,600.0	11,535.1	11,675.0	11,518.8	18.3	37.0	-93.88	144.3	163.3	241.2	187.1	54.08	4.460
11,625.0	11,550.8	11,682.1	11,525.5	18.2	37.0	-94.83	147.0	163.3	246.9	193.9	53.00	4.658
11,650.0	11,565.6	11,687.2	11,530.1	18.2	37.0	-94.99	148.9	163.3	254.8	203.0	51.85	4.915
11,675.0	11,579.2	11,690.7	11,533.4	18.1	37.0	-94.51	150.3	163.3	264.9	214.3	50.66	5.229
11,700.0	11,591.7	11,693.0	11,535.5	18.1	37.0	-93.41	151.2	163.3	277.0	227.5	49.50	5.596
11,725.0	11,603.1	11,694.2	11,536.5	18.1	37.0	-91.71	151.7	163.3	290.8	242.4	48.39	6.009
11,750.0	11,613.3	11,694.3	11,536.6	18.1	37.0	-89.44	151.7	163.3	306.0	258.6	47.36	6.460
11,775.0	11,622.3	11,693.5	11,535.9	18.0	37.0	-86.63	151.4	163.3	322.4	276.0	46.44	6.942
11,800.0	11,630.1	11,691.9	11,534.4	18.0	37.0	-83.35	150.8	163.3	339.8	294.2	45.61	7.450
11,825.0	11,636.6	11,689.6	11,532.3	18.0	37.0	-79.65	149.8	163.3	358.0	313.1	44.88	7.977
11,850.0	11,641.8	11,686.6	11,529.5	18.0	37.0	-75.64	148.7	163.3	376.8	332.6	44.23	8.518
11,875.0	11,645.8	11,683.0	11,526.3	18.0	37.0	-71.40	147.3	163.3	396.0	352.4	43.66	9.070
11,900.0	11,648.4	11,675.0	11,518.8	18.0	37.0	-66.30	144.3	163.3	415.6	372.3	43.28	9.602
11,925.0	11,649.8	11,675.0	11,518.8	18.0	37.0	-62.84	144.3	163.3	435.3	392.6	42.69	10.197
11,938.3	11,650.0	11,675.0	11,518.8	18.0	37.0	-61.01	144.3	163.3	445.8	403.4	42.39	10.515
12,000.0	11,650.0	11,660.1	11,504.9	18.0	37.0	-58.49	139.1	163.4	495.9	454.2	41.66	11.903
12,100.0	11,650.0	11,650.0	11,495.3	18.1	37.0	-56.85	135.8	163.4	581.0	540.3	40.67	14.286
12,200.0	11,650.0	11,625.0	11,471.4	18.1	37.0	-52.99	128.5	163.5	669.6	629.2	40.40	16.572
12,300.0	11,650.0	11,625.0	11,471.4	18.2	37.0	-52.99	128.5	163.5	760.5	720.6	39.96	19.033
12,400.0	11,650.0	11,610.4	11,457.3	18.4	37.0	-50.89	124.9	163.5	853.1	813.2	39.90	21.383
12,500.0	11,650.0	11,600.0	11,447.1	18.6	37.0	-49.44	122.5	163.5	947.1	907.2	39.87	23.754

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11347-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
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	
6,300.0	6,284.2	6,667.4	6,519.9	15.5	28.8	96.96	154.4	871.2	979.2	934.3	44.84	21.837		
6,400.0	6,384.2	6,764.5	6,614.1	15.6	29.3	97.11	154.8	847.7	955.1	909.6	45.51	20.985		
6,500.0	6,484.2	6,861.5	6,708.2	15.7	29.8	97.26	155.3	824.2	931.1	884.9	46.19	20.159		
6,600.0	6,584.2	6,958.5	6,802.4	15.7	30.2	97.43	155.7	800.8	907.0	860.1	46.86	19.356		
6,700.0	6,684.2	7,055.5	6,896.5	15.8	30.7	97.61	156.1	777.3	883.0	835.4	47.53	18.576		
6,800.0	6,784.2	7,152.6	6,990.7	15.9	31.2	97.79	156.5	753.8	858.9	810.7	48.20	17.819		
6,900.0	6,884.2	7,242.2	7,077.7	16.0	31.6	97.97	156.9	732.4	835.2	786.3	48.83	17.102		
7,000.0	6,984.2	7,327.4	7,160.7	16.0	32.0	98.14	157.2	713.1	812.7	763.3	49.43	16.442		
7,100.0	7,084.2	7,413.3	7,244.6	16.1	32.4	98.31	157.5	695.0	791.7	741.7	50.00	15.835		
7,200.0	7,184.2	7,500.0	7,329.6	16.2	32.9	98.47	157.8	677.9	772.2	721.7	50.56	15.274		
7,300.0	7,284.2	7,586.5	7,414.7	16.3	33.2	98.63	158.1	662.2	754.2	703.1	51.09	14.762		
7,400.0	7,384.2	7,673.8	7,500.8	16.3	33.6	98.78	158.3	647.6	737.6	686.0	51.61	14.293		
7,500.0	7,484.2	7,761.6	7,587.5	16.4	34.0	98.93	158.6	634.3	722.6	670.5	52.10	13.868		
7,600.0	7,584.2	7,849.7	7,674.8	16.5	34.4	99.06	158.8	622.2	709.1	656.5	52.58	13.485		
7,700.0	7,684.2	7,938.2	7,762.7	16.6	34.8	99.19	159.0	611.5	697.0	644.0	53.03	13.143		
7,800.0	7,784.2	8,027.0	7,851.0	16.6	35.1	99.30	159.1	602.1	686.5	633.1	53.47	12.841		
7,900.0	7,884.2	8,116.1	7,939.7	16.7	35.5	99.40	159.3	594.0	677.6	623.7	53.87	12.578		
8,000.0	7,984.2	8,205.5	8,028.8	16.8	35.8	99.48	159.4	587.3	670.2	615.9	54.25	12.354		
8,100.0	8,084.2	8,300.0	8,123.2	16.9	36.2	99.55	159.5	581.7	664.3	609.6	54.67	12.152		
8,200.0	8,184.2	8,384.6	8,207.7	16.9	36.4	99.60	159.6	578.1	660.0	605.1	54.90	12.022		
8,300.0	8,284.2	8,474.4	8,297.5	17.0	36.7	99.63	159.6	575.5	657.2	602.0	55.15	11.916		
8,400.0	8,384.2	8,564.2	8,387.3	17.1	36.9	99.65	159.6	574.4	655.9	600.7	55.27	11.868		
8,447.5	8,431.8	8,608.7	8,431.8	17.1	36.9	99.65	159.6	574.4	655.9	600.6	55.30	11.860		
8,500.0	8,484.2	8,661.2	8,484.2	17.2	36.9	99.65	159.6	574.4	655.9	600.5	55.35	11.850		
8,600.0	8,584.2	8,761.2	8,584.2	17.2	36.9	99.65	159.6	574.4	655.9	600.4	55.43	11.833		
8,700.0	8,684.2	8,861.2	8,684.2	17.3	37.0	99.65	159.6	574.4	655.9	600.4	55.50	11.818		
8,800.0	8,784.2	8,961.2	8,784.2	17.4	37.0	99.65	159.6	574.4	655.9	600.3	55.57	11.802		
8,900.0	8,884.2	9,061.2	8,884.2	17.5	37.0	99.65	159.6	574.4	655.9	600.2	55.64	11.787		
9,000.0	8,984.2	9,161.2	8,984.2	17.5	37.0	99.65	159.6	574.4	655.9	600.1	55.72	11.771		
9,100.0	9,084.2	9,261.2	9,084.2	17.6	37.0	99.65	159.6	574.4	655.9	600.1	55.79	11.756		
9,200.0	9,184.2	9,361.2	9,184.2	17.7	37.1	99.65	159.6	574.4	655.9	600.0	55.86	11.741		
9,300.0	9,284.2	9,461.2	9,284.2	17.8	37.1	99.65	159.6	574.4	655.9	599.9	55.94	11.725		
9,400.0	9,384.2	9,561.2	9,384.2	17.8	37.1	99.65	159.6	574.4	655.9	599.8	56.01	11.709		
9,500.0	9,484.2	9,661.2	9,484.2	17.9	37.1	99.65	159.6	574.4	655.9	599.8	56.09	11.694		
9,600.0	9,584.2	9,761.2	9,584.2	18.0	37.2	99.65	159.6	574.4	655.9	599.7	56.16	11.678		
9,700.0	9,684.2	9,861.2	9,684.2	18.1	37.2	99.65	159.6	574.4	655.9	599.6	56.24	11.663		
9,800.0	9,784.2	9,961.2	9,784.2	18.1	37.2	99.65	159.6	574.4	655.9	599.5	56.31	11.647		
9,900.0	9,884.2	10,061.2	9,884.2	18.2	37.2	99.65	159.6	574.4	655.9	599.5	56.39	11.631		
10,000.0	9,984.2	10,161.2	9,984.2	18.3	37.2	99.65	159.6	574.4	655.9	599.4	56.46	11.615		
10,100.0	10,084.2	10,261.2	10,084.2	18.4	37.3	99.65	159.6	574.4	655.9	599.3	56.54	11.600		
10,200.0	10,184.2	10,361.2	10,184.2	18.4	37.3	99.65	159.6	574.4	655.9	599.2	56.62	11.584		
10,300.0	10,284.2	10,461.2	10,284.2	18.5	37.3	99.65	159.6	574.4	655.9	599.2	56.70	11.568		
10,400.0	10,384.2	10,561.2	10,384.2	18.6	37.3	99.65	159.6	574.4	655.9	599.1	56.77	11.552		
10,500.0	10,484.2	10,661.2	10,484.2	18.7	37.4	99.65	159.6	574.4	655.9	599.0	56.85	11.536		
10,600.0	10,584.2	10,761.2	10,584.2	18.7	37.4	99.65	159.6	574.4	655.9	598.9	56.93	11.520		
10,700.0	10,684.2	10,861.2	10,684.2	18.8	37.4	99.65	159.6	574.4	655.9	598.8	57.01	11.504		
10,800.0	10,784.2	10,961.2	10,784.2	18.9	37.4	99.65	159.6	574.4	655.9	598.8	57.09	11.488		
10,900.0	10,884.2	11,061.2	10,884.2	19.0	37.5	99.65	159.6	574.4	655.9	598.7	57.17	11.472		
11,000.0	10,984.2	11,161.2	10,984.2	19.0	37.5	99.65	159.6	574.4	655.9	598.6	57.25	11.456		
11,100.0	11,084.2	11,261.2	11,084.2	19.1	37.5	99.65	159.6	574.4	655.9	598.5	57.33	11.440		
11,188.3	11,172.5	11,350.1	11,173.1	19.2	37.5	99.65	159.6	574.4	655.9	598.5	57.40	11.427		

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 706H - Slot ZHU 2531 WC #706H
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 706H	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
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
11,200.0	11,184.2	11,365.5	11,188.5	19.2	37.5	-80.91	160.0	574.4	655.8	598.3	57.45	11.415
11,225.0	11,209.2	11,398.0	11,220.9	19.1	37.5	-81.31	162.3	574.3	655.3	597.7	57.56	11.385
11,250.0	11,234.1	11,429.3	11,252.0	19.1	37.5	-82.07	166.6	574.3	654.3	596.7	57.66	11.349
11,275.0	11,258.8	11,459.0	11,281.1	19.0	37.5	-83.13	172.6	574.3	653.0	595.3	57.74	11.310
11,300.0	11,283.2	11,486.5	11,307.6	19.0	37.5	-84.39	179.7	574.2	651.6	593.8	57.79	11.274
11,325.0	11,307.4	11,511.6	11,331.4	18.9	37.5	-85.78	187.5	574.2	650.0	592.2	57.80	11.245
11,350.0	11,331.2	11,534.0	11,352.3	18.8	37.5	-87.19	195.6	574.1	648.6	590.8	57.78	11.226
11,375.0	11,354.5	11,553.8	11,370.5	18.8	37.5	-88.55	203.5	574.0	647.5	589.8	57.70	11.222 SF
11,400.0	11,377.4	11,571.0	11,385.9	18.7	37.5	-89.79	211.0	574.0	646.8	589.2	57.57	11.235
11,416.5	11,392.1	11,580.9	11,394.8	18.7	37.5	-90.52	215.6	574.0	646.7	589.2	57.46	11.254 CC, ES
11,425.0	11,399.7	11,585.7	11,399.0	18.6	37.5	-90.86	217.8	573.9	646.7	589.3	57.39	11.268
11,450.0	11,421.3	11,598.2	11,409.9	18.6	37.5	-91.74	223.9	573.9	647.3	590.1	57.17	11.322
11,475.0	11,442.3	11,608.5	11,418.8	18.5	37.5	-92.40	229.2	573.9	648.7	591.8	56.90	11.401
11,500.0	11,462.6	11,617.0	11,426.0	18.5	37.5	-92.82	233.7	573.8	650.9	594.4	56.59	11.503
11,525.0	11,482.0	11,625.0	11,432.7	18.4	37.5	-93.11	238.0	573.8	654.1	597.9	56.25	11.629
11,550.0	11,500.6	11,628.9	11,436.0	18.4	37.5	-92.94	240.2	573.8	658.2	602.3	55.86	11.783
11,575.0	11,518.3	11,632.7	11,439.1	18.3	37.5	-92.66	242.3	573.8	663.3	607.8	55.46	11.960
11,600.0	11,535.1	11,635.3	11,441.2	18.3	37.5	-92.14	243.7	573.8	669.2	614.2	55.04	12.160
11,625.0	11,550.8	11,636.7	11,442.4	18.2	37.5	-91.41	244.6	573.8	676.1	621.5	54.60	12.383
11,650.0	11,565.6	11,637.1	11,442.7	18.2	37.5	-90.46	244.8	573.8	683.9	629.7	54.16	12.627
11,675.0	11,579.2	11,636.6	11,442.3	18.1	37.5	-89.32	244.5	573.8	692.5	638.8	53.72	12.891
11,700.0	11,591.7	11,635.3	11,441.3	18.1	37.5	-88.00	243.8	573.8	701.8	648.6	53.28	13.173
11,725.0	11,603.1	11,633.3	11,439.6	18.1	37.5	-86.50	242.6	573.8	711.9	659.1	52.85	13.472
11,750.0	11,613.3	11,630.6	11,437.4	18.1	37.5	-84.85	241.1	573.8	722.6	670.2	52.42	13.784
11,775.0	11,622.3	11,625.0	11,432.7	18.0	37.5	-82.86	238.0	573.8	733.9	681.9	52.01	14.112
11,800.0	11,630.1	11,625.0	11,432.7	18.0	37.5	-81.28	238.0	573.8	745.7	694.0	51.63	14.444
11,825.0	11,636.6	11,619.3	11,427.9	18.0	37.5	-79.16	234.9	573.8	757.9	706.6	51.25	14.789
11,850.0	11,641.8	11,614.6	11,423.9	18.0	37.5	-77.07	232.4	573.8	770.5	719.6	50.89	15.140
11,875.0	11,645.8	11,609.5	11,419.6	18.0	37.5	-74.94	229.7	573.9	783.3	732.8	50.55	15.496
11,900.0	11,648.4	11,600.0	11,411.4	18.0	37.5	-72.47	224.9	573.9	796.4	746.2	50.22	15.860
11,925.0	11,649.8	11,600.0	11,411.4	18.0	37.5	-70.70	224.9	573.9	809.6	759.7	49.93	16.216
11,938.3	11,650.0	11,600.0	11,411.4	18.0	37.5	-69.75	224.9	573.9	816.7	767.0	49.78	16.407
12,000.0	11,650.0	11,575.0	11,389.5	18.0	37.5	-68.07	212.8	574.0	851.0	802.0	49.09	17.336
12,100.0	11,650.0	11,560.5	11,376.6	18.1	37.5	-67.09	206.4	574.0	911.8	863.7	48.13	18.944
12,200.0	11,650.0	11,550.0	11,367.0	18.1	37.5	-66.38	201.9	574.1	978.3	931.0	47.31	20.679

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (")	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,900.0	2,891.3	2,979.8	2,962.9	9.4	11.0	-71.98	206.7	-1,023.6	989.5	970.6	18.93	52.279	
3,000.0	2,990.6	3,064.5	3,047.4	9.7	11.2	-72.67	204.5	-1,018.2	979.2	959.9	19.32	50.685	
3,100.0	3,089.8	3,149.6	3,132.4	10.0	11.5	-73.34	202.8	-1,013.9	970.5	950.8	19.69	49.283	
3,200.0	3,189.1	3,235.0	3,217.7	10.4	11.8	-74.01	201.5	-1,010.8	963.4	943.3	20.04	48.068	
3,300.0	3,288.3	3,320.7	3,303.3	10.7	12.0	-74.65	200.7	-1,008.9	957.8	937.4	20.36	47.045	
3,400.0	3,387.6	3,406.6	3,389.2	11.1	12.2	-75.28	200.4	-1,008.1	953.7	933.1	20.62	46.246	
3,500.0	3,486.8	3,504.2	3,486.8	11.5	12.2	-75.97	200.4	-1,008.1	950.7	929.9	20.76	45.787	
3,600.0	3,586.1	3,603.4	3,586.1	11.8	12.3	-76.68	200.4	-1,008.1	947.8	926.9	20.90	45.338	
3,614.0	3,600.0	3,617.4	3,600.0	11.9	12.3	-76.78	200.4	-1,008.1	947.4	926.5	20.92	45.294	
3,700.0	3,685.4	3,702.8	3,685.4	12.2	12.4	-77.34	200.4	-1,008.1	945.2	924.1	21.05	44.908	
3,800.0	3,784.9	3,802.3	3,784.9	12.6	12.4	-77.90	200.4	-1,008.1	943.0	921.8	21.19	44.500	
3,900.0	3,884.6	3,902.0	3,884.6	12.9	12.5	-78.36	200.4	-1,008.1	941.4	920.0	21.34	44.111	
4,000.0	3,984.4	4,001.8	3,984.4	13.2	12.6	-78.72	200.4	-1,008.1	940.1	918.6	21.49	43.738	
4,100.0	4,084.3	4,101.6	4,084.3	13.5	12.6	-78.99	200.4	-1,008.1	939.2	917.6	21.65	43.379	
4,200.0	4,184.2	4,201.6	4,184.2	13.8	12.7	-79.16	200.4	-1,008.1	938.7	916.9	21.81	43.034	
4,300.0	4,284.2	4,301.6	4,284.2	14.1	12.7	-79.22	200.4	-1,008.1	938.5	916.5	21.98	42.702	
4,314.0	4,298.3	4,315.6	4,298.3	14.1	12.8	-94.22	200.4	-1,008.1	938.5	916.5	21.99	42.673	
4,400.0	4,384.2	4,401.6	4,384.2	14.1	12.8	-94.22	200.4	-1,008.1	938.5	916.3	22.14	42.391	
4,500.0	4,484.2	4,501.6	4,484.2	14.2	12.9	-94.22	200.4	-1,008.1	938.5	916.2	22.30	42.085	
4,600.0	4,584.2	4,601.6	4,584.2	14.3	12.9	-94.22	200.4	-1,008.1	938.5	916.0	22.46	41.783	
4,700.0	4,684.2	4,701.6	4,684.2	14.4	13.0	-94.22	200.4	-1,008.1	938.5	915.8	22.62	41.485	
4,800.0	4,784.2	4,801.6	4,784.2	14.4	13.1	-94.22	200.4	-1,008.1	938.5	915.7	22.78	41.192	
4,900.0	4,884.2	4,901.6	4,884.2	14.5	13.1	-94.22	200.4	-1,008.1	938.5	915.5	22.94	40.903	
5,000.0	4,984.2	5,001.6	4,984.2	14.6	13.2	-94.22	200.4	-1,008.1	938.5	915.4	23.10	40.618	
5,100.0	5,084.2	5,101.6	5,084.2	14.6	13.3	-94.22	200.4	-1,008.1	938.5	915.2	23.27	40.337	
5,200.0	5,184.2	5,201.6	5,184.2	14.7	13.3	-94.22	200.4	-1,008.1	938.5	915.0	23.43	40.060	
5,300.0	5,284.2	5,301.6	5,284.2	14.8	13.4	-94.22	200.4	-1,008.1	938.5	914.9	23.59	39.786	
5,400.0	5,384.2	5,401.6	5,384.2	14.9	13.4	-94.22	200.4	-1,008.1	938.5	914.7	23.75	39.516	
5,500.0	5,484.2	5,501.6	5,484.2	14.9	13.5	-94.22	200.4	-1,008.1	938.5	914.5	23.91	39.250	
5,600.0	5,584.2	5,601.6	5,584.2	15.0	13.6	-94.22	200.4	-1,008.1	938.5	914.4	24.07	38.988	
5,700.0	5,684.2	5,701.6	5,684.2	15.1	13.6	-94.22	200.4	-1,008.1	938.5	914.2	24.23	38.729	
5,800.0	5,784.2	5,801.6	5,784.2	15.2	13.7	-94.22	200.4	-1,008.1	938.5	914.1	24.39	38.473	
5,900.0	5,884.2	5,901.6	5,884.2	15.2	13.8	-94.22	200.4	-1,008.1	938.5	913.9	24.55	38.221	
6,000.0	5,984.2	6,001.6	5,984.2	15.3	13.8	-94.22	200.4	-1,008.1	938.5	913.7	24.71	37.972	
6,100.0	6,084.2	6,101.6	6,084.2	15.4	13.9	-94.22	200.4	-1,008.1	938.5	913.6	24.88	37.726	
6,200.0	6,184.2	6,201.6	6,184.2	15.4	14.0	-94.22	200.4	-1,008.1	938.5	913.4	25.04	37.483	
6,300.0	6,284.2	6,301.6	6,284.2	15.5	14.0	-94.22	200.4	-1,008.1	938.5	913.3	25.20	37.244	
6,400.0	6,384.2	6,401.6	6,384.2	15.6	14.1	-94.22	200.4	-1,008.1	938.5	913.1	25.36	37.007	
6,500.0	6,484.2	6,501.6	6,484.2	15.7	14.2	-94.22	200.4	-1,008.1	938.5	912.9	25.52	36.774	
6,600.0	6,584.2	6,601.6	6,584.2	15.7	14.2	-94.22	200.4	-1,008.1	938.5	912.8	25.68	36.543	
6,700.0	6,684.2	6,701.6	6,684.2	15.8	14.3	-94.22	200.4	-1,008.1	938.5	912.6	25.84	36.316	
6,800.0	6,784.2	6,801.6	6,784.2	15.9	14.4	-94.22	200.4	-1,008.1	938.5	912.5	26.00	36.091	
6,900.0	6,884.2	6,901.6	6,884.2	16.0	14.4	-94.22	200.4	-1,008.1	938.5	912.3	26.16	35.869	
7,000.0	6,984.2	7,001.6	6,984.2	16.0	14.5	-94.22	200.4	-1,008.1	938.5	912.1	26.32	35.649	
7,100.0	7,084.2	7,101.6	7,084.2	16.1	14.6	-94.22	200.4	-1,008.1	938.5	912.0	26.49	35.433	
7,200.0	7,184.2	7,201.6	7,184.2	16.2	14.6	-94.22	200.4	-1,008.1	938.5	911.8	26.65	35.218	
7,300.0	7,284.2	7,301.6	7,284.2	16.3	14.7	-94.22	200.4	-1,008.1	938.5	911.7	26.81	35.007	
7,400.0	7,384.2	7,401.6	7,384.2	16.3	14.8	-94.22	200.4	-1,008.1	938.5	911.5	26.97	34.798	
7,500.0	7,484.2	7,501.6	7,484.2	16.4	14.8	-94.22	200.4	-1,008.1	938.5	911.3	27.13	34.591	
7,600.0	7,584.2	7,601.6	7,584.2	16.5	14.9	-94.22	200.4	-1,008.1	938.5	911.2	27.29	34.387	
7,700.0	7,684.2	7,701.6	7,684.2	16.6	15.0	-94.22	200.4	-1,008.1	938.5	911.0	27.45	34.186	

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,800.0	7,784.2	7,801.6	7,784.2	16.6	15.0	-94.22	200.4	-1,008.1	938.5	910.8	27.61	33.986		
7,900.0	7,884.2	7,901.6	7,884.2	16.7	15.1	-94.22	200.4	-1,008.1	938.5	910.7	27.77	33.789		
8,000.0	7,984.2	8,001.6	7,984.2	16.8	15.2	-94.22	200.4	-1,008.1	938.5	910.5	27.93	33.595		
8,100.0	8,084.2	8,101.6	8,084.2	16.9	15.3	-94.22	200.4	-1,008.1	938.5	910.4	28.10	33.402		
8,200.0	8,184.2	8,201.6	8,184.2	16.9	15.3	-94.22	200.4	-1,008.1	938.5	910.2	28.26	33.212		
8,300.0	8,284.2	8,301.6	8,284.2	17.0	15.4	-94.22	200.4	-1,008.1	938.5	910.0	28.42	33.024		
8,400.0	8,384.2	8,401.6	8,384.2	17.1	15.5	-94.22	200.4	-1,008.1	938.5	909.9	28.58	32.838		
8,500.0	8,484.2	8,501.6	8,484.2	17.2	15.5	-94.22	200.4	-1,008.1	938.5	909.7	28.74	32.654		
8,600.0	8,584.2	8,601.6	8,584.2	17.2	15.6	-94.22	200.4	-1,008.1	938.5	909.6	28.90	32.472		
8,700.0	8,684.2	8,701.6	8,684.2	17.3	15.7	-94.22	200.4	-1,008.1	938.5	909.4	29.06	32.292		
8,800.0	8,784.2	8,801.6	8,784.2	17.4	15.7	-94.22	200.4	-1,008.1	938.5	909.2	29.22	32.114		
8,900.0	8,884.2	8,901.6	8,884.2	17.5	15.8	-94.22	200.4	-1,008.1	938.5	909.1	29.38	31.938		
9,000.0	8,984.2	9,001.6	8,984.2	17.5	15.9	-94.22	200.4	-1,008.1	938.5	908.9	29.54	31.764		
9,100.0	9,084.2	9,101.6	9,084.2	17.6	16.0	-94.22	200.4	-1,008.1	938.5	908.8	29.71	31.592		
9,200.0	9,184.2	9,201.6	9,184.2	17.7	16.0	-94.22	200.4	-1,008.1	938.5	908.6	29.87	31.422		
9,300.0	9,284.2	9,301.6	9,284.2	17.8	16.1	-94.22	200.4	-1,008.1	938.5	908.4	30.03	31.253		
9,400.0	9,384.2	9,401.6	9,384.2	17.8	16.2	-94.22	200.4	-1,008.1	938.5	908.3	30.19	31.086		
9,500.0	9,484.2	9,501.6	9,484.2	17.9	16.2	-94.22	200.4	-1,008.1	938.5	908.1	30.35	30.922		
9,600.0	9,584.2	9,601.6	9,584.2	18.0	16.3	-94.22	200.4	-1,008.1	938.5	907.9	30.51	30.758		
9,700.0	9,684.2	9,701.6	9,684.2	18.1	16.4	-94.22	200.4	-1,008.1	938.5	907.8	30.67	30.597		
9,800.0	9,784.2	9,801.6	9,784.2	18.1	16.4	-94.22	200.4	-1,008.1	938.5	907.6	30.83	30.437		
9,900.0	9,884.2	9,901.6	9,884.2	18.2	16.5	-94.22	200.4	-1,008.1	938.5	907.5	30.99	30.279		
10,000.0	9,984.2	10,001.6	9,984.2	18.3	16.6	-94.22	200.4	-1,008.1	938.5	907.3	31.15	30.123		
10,100.0	10,084.2	10,101.6	10,084.2	18.4	16.7	-94.22	200.4	-1,008.1	938.5	907.1	31.32	29.968		
10,200.0	10,184.2	10,201.6	10,184.2	18.4	16.7	-94.22	200.4	-1,008.1	938.5	907.0	31.48	29.815		
10,300.0	10,284.2	10,301.6	10,284.2	18.5	16.8	-94.22	200.4	-1,008.1	938.5	906.8	31.64	29.663		
10,400.0	10,384.2	10,401.6	10,384.2	18.6	16.9	-94.22	200.4	-1,008.1	938.5	906.7	31.80	29.513		
10,500.0	10,484.2	10,501.6	10,484.2	18.7	16.9	-94.22	200.4	-1,008.1	938.5	906.5	31.96	29.364		
10,600.0	10,584.2	10,601.6	10,584.2	18.7	17.0	-94.22	200.4	-1,008.1	938.5	906.3	32.12	29.217		
10,700.0	10,684.2	10,701.6	10,684.2	18.8	17.1	-94.22	200.4	-1,008.1	938.5	906.2	32.28	29.071		
10,800.0	10,784.2	10,801.6	10,784.2	18.9	17.2	-94.22	200.4	-1,008.1	938.5	906.0	32.44	28.927		
10,900.0	10,884.2	10,901.6	10,884.2	19.0	17.2	-94.22	200.4	-1,008.1	938.5	905.9	32.60	28.784		
11,000.0	10,984.2	11,001.6	10,984.2	19.0	17.3	-94.22	200.4	-1,008.1	938.5	905.7	32.76	28.643		
11,100.0	11,084.2	11,101.6	11,084.2	19.1	17.4	-94.22	200.4	-1,008.1	938.5	905.5	32.93	28.503		
11,188.3	11,172.5	11,189.9	11,172.5	19.2	17.4	-94.22	200.4	-1,008.1	938.5	905.4	33.06	28.390		
11,200.0	11,184.2	11,200.0	11,182.6	19.2	17.4	85.28	200.3	-1,008.1	938.5	905.4	33.06	28.390		
11,225.0	11,209.2	11,221.8	11,204.4	19.1	17.4	85.29	199.3	-1,008.1	938.4	905.4	33.04	28.400		
11,250.0	11,234.1	11,243.5	11,226.1	19.1	17.5	85.31	197.4	-1,008.1	938.4	905.4	33.03	28.412		
11,275.0	11,258.8	11,265.3	11,247.6	19.0	17.5	85.34	194.5	-1,008.1	938.3	905.3	33.01	28.424		
11,300.0	11,283.2	11,287.1	11,269.0	19.0	17.5	85.39	190.6	-1,008.2	938.3	905.3	33.00	28.435		
11,325.0	11,307.4	11,308.9	11,290.3	18.9	17.5	85.45	185.7	-1,008.2	938.2	905.2	32.98	28.444		
11,350.0	11,331.2	11,330.7	11,311.3	18.8	17.5	85.51	179.8	-1,008.2	938.0	905.1	32.97	28.452		
11,375.0	11,354.5	11,352.6	11,332.1	18.8	17.6	85.59	173.0	-1,008.2	937.9	904.9	32.96	28.459		
11,400.0	11,377.4	11,375.0	11,353.0	18.7	17.6	85.68	165.0	-1,008.2	937.7	904.8	32.94	28.466		
11,425.0	11,399.7	11,396.5	11,372.7	18.6	17.6	85.78	156.4	-1,008.3	937.6	904.6	32.93	28.468		
11,450.0	11,421.3	11,418.5	11,392.5	18.6	17.6	85.89	146.7	-1,008.3	937.4	904.5	32.93	28.470		
11,475.0	11,442.3	11,440.6	11,411.8	18.5	17.7	86.01	136.1	-1,008.3	937.2	904.3	32.92	28.469		
11,500.0	11,462.6	11,462.7	11,430.8	18.5	17.7	86.15	124.5	-1,008.3	937.0	904.1	32.92	28.466		
11,525.0	11,482.0	11,484.9	11,449.2	18.4	17.7	86.29	112.1	-1,008.4	936.8	903.8	32.91	28.460		
11,550.0	11,500.6	11,507.2	11,467.0	18.4	17.7	86.44	98.8	-1,008.4	936.5	903.6	32.92	28.452		
11,575.0	11,518.3	11,529.6	11,484.3	18.3	17.8	86.60	84.5	-1,008.5	936.3	903.4	32.92	28.439		

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,600.0	11,535.1	11,552.1	11,501.0	18.3	17.8	86.76	69.5	-1,008.5	936.0	903.1	32.93	28.424	
11,625.0	11,550.8	11,575.0	11,517.2	18.2	17.8	86.94	53.3	-1,008.6	935.8	902.8	32.94	28.405	
11,650.0	11,565.6	11,597.4	11,532.3	18.2	17.9	87.12	36.8	-1,008.6	935.5	902.6	32.96	28.381	
11,675.0	11,579.2	11,620.2	11,546.9	18.1	17.9	87.31	19.3	-1,008.7	935.3	902.3	32.99	28.352	
11,700.0	11,591.7	11,643.1	11,560.7	18.1	17.9	87.51	1.0	-1,008.7	935.0	902.0	33.02	28.320	
11,725.0	11,603.1	11,666.1	11,573.6	18.1	18.0	87.72	-18.1	-1,008.8	934.8	901.7	33.05	28.282	
11,750.0	11,613.3	11,689.3	11,585.7	18.1	18.0	87.93	-37.8	-1,008.8	934.5	901.4	33.09	28.239	
11,775.0	11,622.3	11,712.6	11,596.9	18.0	18.0	88.15	-58.3	-1,008.9	934.3	901.1	33.14	28.191	
11,800.0	11,630.1	11,736.0	11,607.1	18.0	18.1	88.37	-79.4	-1,008.9	934.0	900.9	33.20	28.138	
11,825.0	11,636.6	11,759.6	11,616.4	18.0	18.1	88.60	-101.1	-1,009.0	933.8	900.6	33.26	28.079	
11,850.0	11,641.8	11,783.4	11,624.6	18.0	18.1	88.83	-123.4	-1,009.1	933.6	900.3	33.33	28.015	
11,875.0	11,645.8	11,807.3	11,631.7	18.0	18.2	89.06	-146.2	-1,009.1	933.4	900.0	33.40	27.945	
11,900.0	11,648.4	11,831.4	11,637.7	18.0	18.2	89.30	-169.5	-1,009.2	933.2	899.7	33.48	27.869	
11,925.0	11,649.8	11,855.6	11,642.6	18.0	18.2	89.55	-193.3	-1,009.3	933.0	899.4	33.58	27.789	
11,938.3	11,650.0	11,868.6	11,644.7	18.0	18.3	89.67	-206.0	-1,009.3	932.9	899.3	33.63	27.744	
12,000.0	11,650.0	11,929.8	11,649.9	18.0	18.3	89.99	-267.0	-1,009.5	932.5	898.7	33.89	27.520	
12,100.0	11,650.0	12,029.8	11,650.0	18.1	18.5	90.00	-367.0	-1,009.8	932.0	897.5	34.40	27.089	
12,200.0	11,650.0	12,129.8	11,650.0	18.1	18.7	90.00	-467.0	-1,010.0	931.4	896.3	35.02	26.595	
12,300.0	11,650.0	12,229.8	11,650.0	18.2	18.9	90.00	-567.0	-1,010.3	930.8	895.1	35.73	26.052	
12,400.0	11,650.0	12,329.8	11,650.0	18.4	19.3	90.00	-667.0	-1,010.6	930.2	893.7	36.52	25.470	
12,500.0	11,650.0	12,429.8	11,650.0	18.6	19.6	90.00	-767.0	-1,010.9	929.6	892.2	37.39	24.860	
12,600.0	11,650.0	12,529.8	11,650.0	18.9	20.0	90.00	-867.0	-1,011.2	929.0	890.7	38.34	24.230	
12,700.0	11,650.0	12,629.8	11,650.0	19.3	20.5	90.00	-967.0	-1,011.5	928.4	889.1	39.36	23.589	
12,800.0	11,650.0	12,729.8	11,650.0	19.8	21.0	90.00	-1,067.0	-1,011.8	927.8	887.4	40.44	22.945	
12,900.0	11,650.0	12,829.8	11,650.0	20.3	21.5	90.00	-1,167.0	-1,012.1	927.3	885.7	41.58	22.302	
13,000.0	11,650.0	12,929.8	11,650.0	20.9	22.1	90.00	-1,267.0	-1,012.3	926.7	883.9	42.77	21.666	
13,100.0	11,650.0	13,029.8	11,650.0	21.5	22.7	90.00	-1,367.0	-1,012.6	926.1	882.1	44.01	21.041	
13,200.0	11,650.0	13,129.8	11,650.0	22.2	23.4	90.00	-1,467.0	-1,012.9	925.5	880.2	45.30	20.429	
13,300.0	11,650.0	13,229.8	11,650.0	22.8	24.0	90.00	-1,566.9	-1,013.2	924.9	878.3	46.63	19.834	
13,400.0	11,650.0	13,329.8	11,650.0	23.5	24.7	90.00	-1,666.9	-1,013.5	924.3	876.3	48.00	19.257	
13,500.0	11,650.0	13,429.8	11,650.0	24.2	25.4	90.00	-1,766.9	-1,013.8	923.7	874.3	49.40	18.698	
13,600.0	11,650.0	13,529.8	11,650.0	24.9	26.1	90.00	-1,866.9	-1,014.1	923.1	872.3	50.84	18.159	
13,700.0	11,650.0	13,629.8	11,650.0	25.7	26.9	90.00	-1,966.9	-1,014.3	922.6	870.3	52.30	17.639	
13,800.0	11,650.0	13,729.8	11,650.0	26.4	27.6	90.00	-2,066.9	-1,014.6	922.0	868.2	53.79	17.139	
13,900.0	11,650.0	13,829.8	11,650.0	27.2	28.4	90.00	-2,166.9	-1,014.9	921.4	866.1	55.31	16.659	
14,000.0	11,650.0	13,929.8	11,650.0	28.0	29.1	90.00	-2,266.9	-1,015.2	920.8	863.9	56.85	16.198	
14,100.0	11,650.0	14,029.8	11,650.0	28.8	29.9	90.00	-2,366.9	-1,015.5	920.2	861.8	58.41	15.755	
14,200.0	11,650.0	14,129.7	11,650.0	29.6	30.7	90.00	-2,466.9	-1,015.8	919.6	859.6	59.99	15.331	
14,300.0	11,650.0	14,229.7	11,650.0	30.4	31.5	90.00	-2,566.9	-1,016.1	919.0	857.4	61.58	14.924	
14,400.0	11,650.0	14,329.7	11,650.0	31.2	32.3	90.00	-2,666.9	-1,016.4	918.4	855.2	63.20	14.533	
14,500.0	11,650.0	14,429.7	11,650.0	32.1	33.2	90.00	-2,766.9	-1,016.6	917.9	853.0	64.82	14.159	
14,600.0	11,650.0	14,529.7	11,650.0	32.9	34.0	90.00	-2,866.9	-1,016.9	917.3	850.8	66.47	13.801	
14,700.0	11,650.0	14,629.7	11,650.0	33.7	34.8	90.00	-2,966.9	-1,017.2	916.7	848.6	68.12	13.457	
14,800.0	11,650.0	14,729.7	11,650.0	34.6	35.7	90.00	-3,066.9	-1,017.5	916.1	846.3	69.79	13.127	
14,900.0	11,650.0	14,829.7	11,650.0	35.4	36.5	90.00	-3,166.9	-1,017.8	915.5	844.0	71.47	12.810	
15,000.0	11,650.0	14,929.7	11,650.0	36.3	37.4	90.00	-3,266.9	-1,018.1	914.9	841.8	73.16	12.506	
15,100.0	11,650.0	15,029.7	11,650.0	37.1	38.2	90.00	-3,366.9	-1,018.4	914.3	839.5	74.85	12.215	
15,200.0	11,650.0	15,129.7	11,650.0	38.0	39.1	90.00	-3,466.9	-1,018.7	913.7	837.2	76.56	11.935	
15,300.0	11,650.0	15,229.7	11,650.0	38.9	40.0	90.00	-3,566.9	-1,018.9	913.2	834.9	78.28	11.665	
15,400.0	11,650.0	15,329.7	11,650.0	39.8	40.8	90.00	-3,666.9	-1,019.2	912.6	832.6	80.00	11.407	
15,500.0	11,650.0	15,429.7	11,650.0	40.6	41.7	90.00	-3,766.9	-1,019.5	912.0	830.2	81.74	11.158	

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 706H - Slot ZHU 2531 WC #706H
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 706H	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 704H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		
15,600.0	11,650.0	15,529.7	11,650.0	41.5	42.6	90.00	-3,866.9	-1,019.8	911.4	827.9	83.47	10.918	
15,700.0	11,650.0	15,629.7	11,650.0	42.4	43.5	90.00	-3,966.9	-1,020.1	910.8	825.6	85.22	10.688	
15,800.0	11,650.0	15,729.7	11,650.0	43.3	44.4	90.00	-4,066.9	-1,020.4	910.2	823.2	86.97	10.466	
15,900.0	11,650.0	15,829.7	11,650.0	44.2	45.2	90.00	-4,166.9	-1,020.7	909.6	820.9	88.73	10.252	
16,000.0	11,650.0	15,929.7	11,650.0	45.1	46.1	90.00	-4,266.9	-1,020.9	909.0	818.5	90.49	10.046	
16,100.0	11,650.0	16,029.7	11,650.0	46.0	47.0	90.00	-4,366.9	-1,021.2	908.5	816.2	92.26	9.847	
16,200.0	11,650.0	16,129.7	11,650.0	46.9	47.9	90.00	-4,466.9	-1,021.5	907.9	813.8	94.03	9.655	
16,300.0	11,650.0	16,229.7	11,650.0	47.8	48.8	90.00	-4,566.9	-1,021.8	907.3	811.5	95.81	9.470	
16,400.0	11,650.0	16,329.7	11,650.0	48.7	49.7	90.00	-4,666.9	-1,022.1	906.7	809.1	97.59	9.291	
16,500.0	11,650.0	16,429.7	11,650.0	49.6	50.6	90.00	-4,766.9	-1,022.4	906.1	806.7	99.38	9.118	
16,600.0	11,650.0	16,529.7	11,650.0	50.5	51.5	90.00	-4,866.9	-1,022.7	905.5	804.3	101.17	8.951	
16,700.0	11,650.0	16,629.7	11,650.0	51.4	52.4	90.00	-4,966.9	-1,023.0	904.9	802.0	102.96	8.789	
16,800.0	11,650.0	16,729.7	11,650.0	52.3	53.4	90.00	-5,066.9	-1,023.2	904.3	799.6	104.76	8.633	
16,900.0	11,650.0	16,829.7	11,650.0	53.2	54.3	90.00	-5,166.9	-1,023.5	903.8	797.2	106.56	8.481	
17,000.0	11,650.0	16,929.7	11,650.0	54.2	55.2	90.00	-5,266.9	-1,023.8	903.2	794.8	108.36	8.335	
17,100.0	11,650.0	17,029.7	11,650.0	55.1	56.1	90.00	-5,366.9	-1,024.1	902.6	792.4	110.17	8.193	
17,200.0	11,650.0	17,129.7	11,650.0	56.0	57.0	90.00	-5,466.9	-1,024.4	902.0	790.0	111.97	8.055	
17,300.0	11,650.0	17,229.7	11,650.0	56.9	57.9	90.00	-5,566.9	-1,024.7	901.4	787.6	113.79	7.922	
17,400.0	11,650.0	17,329.7	11,650.0	57.8	58.8	90.00	-5,666.9	-1,025.0	900.8	785.2	115.60	7.792	
17,500.0	11,650.0	17,429.7	11,650.0	58.8	59.8	90.00	-5,766.9	-1,025.3	900.2	782.8	117.42	7.667	
17,600.0	11,650.0	17,529.7	11,650.0	59.7	60.7	90.00	-5,866.9	-1,025.5	899.6	780.4	119.24	7.545	
17,700.0	11,650.0	17,629.7	11,650.0	60.6	61.6	90.00	-5,966.9	-1,025.8	899.1	778.0	121.06	7.427	
17,800.0	11,650.0	17,729.7	11,650.0	61.5	62.5	90.00	-6,066.9	-1,026.1	898.5	775.6	122.88	7.312	
17,900.0	11,650.0	17,829.7	11,650.0	62.5	63.5	90.00	-6,166.9	-1,026.4	897.9	773.2	124.71	7.200	
18,000.0	11,650.0	17,929.7	11,650.0	63.4	64.4	90.00	-6,266.8	-1,026.7	897.3	770.8	126.53	7.091	
18,100.0	11,650.0	18,029.7	11,650.0	64.3	65.3	90.00	-6,366.8	-1,027.0	896.7	768.3	128.36	6.986	
18,200.0	11,650.0	18,129.7	11,650.0	65.2	66.2	90.00	-6,466.8	-1,027.3	896.1	765.9	130.19	6.883	
18,300.0	11,650.0	18,229.7	11,650.0	66.2	67.2	90.00	-6,566.8	-1,027.5	895.5	763.5	132.03	6.783	
18,400.0	11,650.0	18,329.7	11,650.0	67.1	68.1	90.00	-6,666.8	-1,027.8	894.9	761.1	133.86	6.686	
18,500.0	11,650.0	18,429.7	11,650.0	68.0	69.0	90.00	-6,766.8	-1,028.1	894.4	758.7	135.70	6.591	
18,600.0	11,650.0	18,529.7	11,650.0	69.0	70.0	90.00	-6,866.8	-1,028.4	893.8	756.2	137.53	6.498	
18,700.0	11,650.0	18,629.7	11,650.0	69.9	70.9	90.00	-6,966.8	-1,028.7	893.2	753.8	139.37	6.409	
18,800.0	11,650.0	18,729.7	11,650.0	70.8	71.8	90.00	-7,066.8	-1,029.0	892.6	751.4	141.21	6.321	
18,900.0	11,650.0	18,829.7	11,650.0	71.8	72.8	90.00	-7,166.8	-1,029.3	892.0	748.9	143.06	6.235	
19,000.0	11,650.0	18,929.7	11,650.0	72.7	73.7	90.00	-7,266.8	-1,029.6	891.4	746.5	144.90	6.152	
19,100.0	11,650.0	19,029.7	11,650.0	73.6	74.6	90.00	-7,366.8	-1,029.8	890.8	744.1	146.74	6.071	
19,149.0	11,650.0	19,078.7	11,650.0	74.1	75.1	90.00	-7,415.8	-1,030.0	890.5	742.9	147.64	6.032 CC, ES, SF	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		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)			
2,600.0	2,593.5	2,756.9	2,740.6	8.4	10.3	-66.49	272.8	-994.9	990.5	972.5	18.08	54.780	
2,700.0	2,692.8	2,854.4	2,837.0	8.7	10.6	-67.12	271.1	-980.6	970.8	952.2	18.64	52.088	
2,800.0	2,792.0	2,951.9	2,933.4	9.0	11.0	-67.76	269.3	-966.2	951.3	932.1	19.20	49.547	
2,900.0	2,891.3	3,049.4	3,029.8	9.4	11.4	-68.44	267.5	-951.8	931.8	912.0	19.76	47.149	
3,000.0	2,990.6	3,146.8	3,126.2	9.7	11.8	-69.14	265.7	-937.4	912.5	892.1	20.33	44.886	
3,100.0	3,089.8	3,244.3	3,222.6	10.0	12.2	-69.88	264.0	-923.1	893.3	872.4	20.90	42.750	
3,200.0	3,189.1	3,341.8	3,318.9	10.4	12.5	-70.64	262.2	-908.7	874.2	852.8	21.46	40.733	
3,300.0	3,288.3	3,439.3	3,415.3	10.7	12.9	-71.44	260.4	-894.3	855.3	833.3	22.03	38.828	
3,400.0	3,387.6	3,536.7	3,511.7	11.1	13.3	-72.28	258.7	-879.9	836.6	814.0	22.59	37.029	
3,500.0	3,486.8	3,634.2	3,608.1	11.5	13.7	-73.15	256.9	-865.5	818.1	794.9	23.16	35.330	
3,600.0	3,586.1	3,731.7	3,704.5	11.8	14.1	-74.06	255.1	-851.2	799.8	776.1	23.72	33.724	
3,614.0	3,600.0	3,745.3	3,718.0	11.9	14.2	-74.19	254.9	-849.2	797.2	773.4	23.79	33.516	
3,700.0	3,685.4	3,829.3	3,801.0	12.2	14.5	-74.82	253.4	-836.8	781.8	757.5	24.27	32.211	
3,800.0	3,784.9	3,927.1	3,897.8	12.6	14.9	-75.47	251.6	-822.3	764.5	739.6	24.83	30.792	
3,900.0	3,884.6	4,025.2	3,994.8	12.9	15.3	-76.04	249.8	-807.9	747.7	722.3	25.38	29.457	
4,000.0	3,984.4	4,123.6	4,092.1	13.2	15.7	-76.52	248.0	-793.4	731.5	705.5	25.94	28.198	
4,100.0	4,084.3	4,222.1	4,189.5	13.5	16.1	-76.89	246.2	-778.8	715.7	689.2	26.50	27.008	
4,200.0	4,184.2	4,320.8	4,287.1	13.8	16.6	-77.15	244.4	-764.3	700.4	673.3	27.06	25.880	
4,300.0	4,284.2	4,419.6	4,384.8	14.1	17.0	-77.29	242.6	-749.7	685.4	657.8	27.63	24.809	
4,314.0	4,298.3	4,433.5	4,398.5	14.1	17.0	-92.30	242.4	-747.7	683.4	655.7	27.70	24.669	
4,400.0	4,384.2	4,518.5	4,482.6	14.1	17.4	-92.48	240.8	-735.1	670.8	642.6	28.19	23.792	
4,500.0	4,484.2	4,617.4	4,580.4	14.2	17.8	-92.69	239.0	-720.5	656.1	627.3	28.76	22.815	
4,600.0	4,584.2	4,716.3	4,678.2	14.3	18.2	-92.92	237.3	-705.9	641.5	612.1	29.32	21.875	
4,700.0	4,684.2	4,815.2	4,776.0	14.4	18.6	-93.15	235.5	-691.4	626.8	596.9	29.89	20.971	
4,800.0	4,784.2	4,914.1	4,873.8	14.4	19.1	-93.40	233.7	-676.8	612.2	581.7	30.46	20.101	
4,900.0	4,884.2	5,012.9	4,971.5	14.5	19.5	-93.65	231.9	-662.2	597.6	566.5	31.02	19.263	
5,000.0	4,984.2	5,111.8	5,069.3	14.6	19.9	-93.92	230.1	-647.6	583.0	551.4	31.59	18.456	
5,100.0	5,084.2	5,209.1	5,165.5	14.6	20.3	-94.20	228.3	-633.3	568.4	536.3	32.14	17.685	
5,200.0	5,184.2	5,300.0	5,255.6	14.7	20.7	-94.46	226.8	-620.8	554.9	522.2	32.70	16.970	
5,300.0	5,284.2	5,390.1	5,345.0	14.8	21.1	-94.69	225.4	-609.9	542.9	509.7	33.20	16.353	
5,400.0	5,384.2	5,481.2	5,435.6	14.9	21.4	-94.90	224.2	-600.3	532.5	498.8	33.68	15.808	
5,500.0	5,484.2	5,572.6	5,526.6	14.9	21.8	-95.09	223.2	-592.1	523.6	489.5	34.15	15.333	
5,600.0	5,584.2	5,664.2	5,617.9	15.0	22.1	-95.25	222.4	-585.3	516.3	481.7	34.59	14.926	
5,700.0	5,684.2	5,756.0	5,709.5	15.1	22.4	-95.38	221.7	-579.9	510.6	475.6	35.01	14.585	
5,800.0	5,784.2	5,847.9	5,801.4	15.2	22.7	-95.47	221.3	-576.1	506.4	471.0	35.39	14.308	
5,900.0	5,884.2	5,939.9	5,893.4	15.2	23.0	-95.53	221.0	-573.6	503.8	468.1	35.74	14.099	
6,000.0	5,984.2	6,032.0	5,985.5	15.3	23.2	-95.56	220.8	-572.7	502.8	466.8	35.98	13.973	
6,039.6	6,023.8	6,070.4	6,023.8	15.3	23.2	-95.56	220.8	-572.6	502.8	466.8	36.03	13.956	
6,100.0	6,084.2	6,130.8	6,084.2	15.4	23.2	-95.56	220.8	-572.6	502.8	466.7	36.08	13.935	
6,200.0	6,184.2	6,230.8	6,184.2	15.4	23.3	-95.56	220.8	-572.6	502.8	466.6	36.18	13.896	
6,300.0	6,284.2	6,330.8	6,284.2	15.5	23.3	-95.56	220.8	-572.6	502.8	466.5	36.29	13.856	
6,400.0	6,384.2	6,430.8	6,384.2	15.6	23.3	-95.56	220.8	-572.6	502.8	466.4	36.39	13.817	
6,500.0	6,484.2	6,530.8	6,484.2	15.7	23.4	-95.56	220.8	-572.6	502.8	466.3	36.49	13.778	
6,600.0	6,584.2	6,630.8	6,584.2	15.7	23.4	-95.56	220.8	-572.6	502.8	466.2	36.60	13.738	
6,700.0	6,684.2	6,730.8	6,684.2	15.8	23.4	-95.56	220.8	-572.6	502.8	466.1	36.70	13.699	
6,800.0	6,784.2	6,830.8	6,784.2	15.9	23.5	-95.56	220.8	-572.6	502.8	466.0	36.81	13.660	
6,900.0	6,884.2	6,930.8	6,884.2	16.0	23.5	-95.56	220.8	-572.6	502.8	465.9	36.91	13.621	
7,000.0	6,984.2	7,030.8	6,984.2	16.0	23.5	-95.56	220.8	-572.6	502.8	465.8	37.02	13.582	
7,100.0	7,084.2	7,130.8	7,084.2	16.1	23.6	-95.56	220.8	-572.6	502.8	465.7	37.12	13.544	
7,200.0	7,184.2	7,230.8	7,184.2	16.2	23.6	-95.56	220.8	-572.6	502.8	465.5	37.23	13.505	
7,300.0	7,284.2	7,330.8	7,284.2	16.3	23.7	-95.56	220.8	-572.6	502.8	465.4	37.34	13.466	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,400.0	7,384.2	7,430.8	7,384.2	16.3	23.7	-95.56	220.8	-572.6	502.8	465.3	37.44	13.428	
7,500.0	7,484.2	7,530.8	7,484.2	16.4	23.7	-95.56	220.8	-572.6	502.8	465.2	37.55	13.389	
7,600.0	7,584.2	7,630.8	7,584.2	16.5	23.8	-95.56	220.8	-572.6	502.8	465.1	37.66	13.351	
7,700.0	7,684.2	7,730.8	7,684.2	16.6	23.8	-95.56	220.8	-572.6	502.8	465.0	37.77	13.312	
7,800.0	7,784.2	7,830.8	7,784.2	16.6	23.8	-95.56	220.8	-572.6	502.8	464.9	37.88	13.274	
7,900.0	7,884.2	7,930.8	7,884.2	16.7	23.9	-95.56	220.8	-572.6	502.8	464.8	37.99	13.236	
8,000.0	7,984.2	8,030.8	7,984.2	16.8	23.9	-95.56	220.8	-572.6	502.8	464.7	38.10	13.198	
8,100.0	8,084.2	8,130.8	8,084.2	16.9	23.9	-95.56	220.8	-572.6	502.8	464.6	38.21	13.160	
8,200.0	8,184.2	8,230.8	8,184.2	16.9	24.0	-95.56	220.8	-572.6	502.8	464.5	38.32	13.122	
8,300.0	8,284.2	8,330.8	8,284.2	17.0	24.0	-95.56	220.8	-572.6	502.8	464.4	38.43	13.084	
8,400.0	8,384.2	8,430.8	8,384.2	17.1	24.1	-95.56	220.8	-572.6	502.8	464.2	38.54	13.047	
8,500.0	8,484.2	8,530.8	8,484.2	17.2	24.1	-95.56	220.8	-572.6	502.8	464.1	38.65	13.009	
8,600.0	8,584.2	8,630.8	8,584.2	17.2	24.1	-95.56	220.8	-572.6	502.8	464.0	38.76	12.971	
8,700.0	8,684.2	8,730.8	8,684.2	17.3	24.2	-95.56	220.8	-572.6	502.8	463.9	38.87	12.934	
8,800.0	8,784.2	8,830.8	8,784.2	17.4	24.2	-95.56	220.8	-572.6	502.8	463.8	38.98	12.897	
8,900.0	8,884.2	8,930.8	8,884.2	17.5	24.3	-95.56	220.8	-572.6	502.8	463.7	39.10	12.860	
9,000.0	8,984.2	9,030.8	8,984.2	17.5	24.3	-95.56	220.8	-572.6	502.8	463.6	39.21	12.822	
9,100.0	9,084.2	9,130.8	9,084.2	17.6	24.3	-95.56	220.8	-572.6	502.8	463.5	39.32	12.785	
9,200.0	9,184.2	9,230.8	9,184.2	17.7	24.4	-95.56	220.8	-572.6	502.8	463.3	39.44	12.749	
9,300.0	9,284.2	9,330.8	9,284.2	17.8	24.4	-95.56	220.8	-572.6	502.8	463.2	39.55	12.712	
9,400.0	9,384.2	9,430.8	9,384.2	17.8	24.5	-95.56	220.8	-572.6	502.8	463.1	39.67	12.675	
9,500.0	9,484.2	9,530.8	9,484.2	17.9	24.5	-95.56	220.8	-572.6	502.8	463.0	39.78	12.639	
9,600.0	9,584.2	9,630.8	9,584.2	18.0	24.5	-95.56	220.8	-572.6	502.8	462.9	39.90	12.602	
9,700.0	9,684.2	9,730.8	9,684.2	18.1	24.6	-95.56	220.8	-572.6	502.8	462.8	40.01	12.566	
9,800.0	9,784.2	9,830.8	9,784.2	18.1	24.6	-95.56	220.8	-572.6	502.8	462.6	40.13	12.530	
9,900.0	9,884.2	9,930.8	9,884.2	18.2	24.7	-95.56	220.8	-572.6	502.8	462.5	40.24	12.493	
10,000.0	9,984.2	10,030.8	9,984.2	18.3	24.7	-95.56	220.8	-572.6	502.8	462.4	40.36	12.457	
10,100.0	10,084.2	10,130.8	10,084.2	18.4	24.7	-95.56	220.8	-572.6	502.8	462.3	40.48	12.421	
10,200.0	10,184.2	10,230.8	10,184.2	18.4	24.8	-95.56	220.8	-572.6	502.8	462.2	40.59	12.386	
10,300.0	10,284.2	10,330.8	10,284.2	18.5	24.8	-95.56	220.8	-572.6	502.8	462.1	40.71	12.350	
10,400.0	10,384.2	10,430.8	10,384.2	18.6	24.9	-95.56	220.8	-572.6	502.8	461.9	40.83	12.314	
10,500.0	10,484.2	10,530.8	10,484.2	18.7	24.9	-95.56	220.8	-572.6	502.8	461.8	40.95	12.279	
10,600.0	10,584.2	10,630.8	10,584.2	18.7	24.9	-95.56	220.8	-572.6	502.8	461.7	41.06	12.244	
10,700.0	10,684.2	10,730.8	10,684.2	18.8	25.0	-95.56	220.8	-572.6	502.8	461.6	41.18	12.208	
10,800.0	10,784.2	10,830.8	10,784.2	18.9	25.0	-95.56	220.8	-572.6	502.8	461.5	41.30	12.173	
10,900.0	10,884.2	10,930.8	10,884.2	19.0	25.1	-95.56	220.8	-572.6	502.8	461.4	41.42	12.138	
11,000.0	10,984.2	11,030.8	10,984.2	19.0	25.1	-95.56	220.8	-572.6	502.8	461.2	41.54	12.103	
11,100.0	11,084.2	11,130.8	11,084.2	19.1	25.2	-95.56	220.8	-572.6	502.8	461.1	41.66	12.069	
11,188.3	11,172.5	11,219.1	11,172.5	19.2	25.2	-95.56	220.8	-572.6	502.8	461.0	41.76	12.040	
11,200.0	11,184.2	11,230.8	11,184.2	19.2	25.2	83.96	220.8	-572.6	502.8	461.0	41.77	12.037	
11,225.0	11,209.2	11,255.8	11,209.2	19.1	25.2	84.12	220.8	-572.6	502.6	460.8	41.79	12.028	
11,250.0	11,234.1	11,280.6	11,234.1	19.1	25.2	84.44	220.8	-572.6	502.4	460.6	41.82	12.014	
11,275.0	11,258.8	11,305.3	11,258.8	19.0	25.2	84.92	220.8	-572.6	502.0	460.2	41.85	11.995	
11,300.0	11,283.2	11,329.8	11,283.2	19.0	25.3	85.54	220.8	-572.6	501.6	459.7	41.90	11.971	
11,325.0	11,307.4	11,353.9	11,307.4	18.9	25.3	86.31	220.8	-572.6	501.1	459.1	41.95	11.945	
11,350.0	11,331.2	11,377.7	11,331.2	18.8	25.3	87.20	220.8	-572.6	500.6	458.6	42.01	11.917	
11,375.0	11,354.5	11,401.4	11,354.9	18.8	25.3	88.20	220.7	-572.6	500.3	458.2	42.07	11.890	
11,400.0	11,377.4	11,425.7	11,379.1	18.7	25.3	89.23	219.4	-572.6	500.0	457.8	42.13	11.867	
11,425.0	11,399.7	11,450.4	11,403.7	18.6	25.3	90.27	216.9	-572.4	499.7	457.6	42.19	11.846	
11,450.0	11,421.3	11,475.6	11,428.6	18.6	25.3	91.32	213.0	-572.2	499.6	457.4	42.25	11.826	
11,470.0	11,438.2	11,496.2	11,448.7	18.5	25.3	92.17	208.9	-572.0	499.6	457.3	42.30	11.811	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,475.0	11,442.3	11,501.4	11,453.8	18.5	25.3	92.39	207.7	-571.9	499.6	457.3	42.31	11.807	
11,500.0	11,462.6	11,527.7	11,479.2	18.5	25.3	93.45	200.9	-571.6	499.7	457.3	42.38	11.790	
11,525.0	11,482.0	11,554.6	11,504.7	18.4	25.4	94.53	192.5	-571.1	499.8	457.4	42.45	11.773	
11,550.0	11,500.6	11,582.1	11,530.3	18.4	25.4	95.60	182.4	-570.6	500.0	457.5	42.53	11.756	
11,575.0	11,518.3	11,610.3	11,555.9	18.3	25.4	96.68	170.6	-570.0	500.3	457.7	42.62	11.739	
11,600.0	11,535.1	11,639.1	11,581.3	18.3	25.4	97.75	156.9	-569.3	500.7	458.0	42.72	11.722	
11,625.0	11,550.8	11,668.7	11,606.4	18.2	25.5	98.82	141.4	-568.5	501.1	458.3	42.82	11.702	
11,650.0	11,565.6	11,699.0	11,631.2	18.2	25.5	99.88	123.8	-567.6	501.6	458.6	42.94	11.680	
11,675.0	11,579.2	11,730.1	11,655.3	18.1	25.5	100.92	104.3	-566.5	502.0	458.9	43.07	11.655	
11,700.0	11,591.7	11,762.0	11,678.7	18.1	25.5	101.94	82.6	-565.4	502.5	459.3	43.22	11.627	
11,725.0	11,603.1	11,794.7	11,701.1	18.1	25.6	102.94	58.9	-564.1	502.9	459.5	43.38	11.594	
11,750.0	11,613.3	11,828.1	11,722.3	18.1	25.6	103.92	33.0	-562.8	503.3	459.8	43.55	11.557	
11,775.0	11,622.3	11,862.4	11,742.0	18.0	25.7	104.85	5.1	-561.3	503.6	459.9	43.74	11.515	
11,800.0	11,630.1	11,897.4	11,760.1	18.0	25.7	105.75	-24.8	-559.8	503.9	459.9	43.93	11.470	
11,825.0	11,636.6	11,933.2	11,776.3	18.0	25.7	106.59	-56.7	-558.1	504.0	459.9	44.13	11.421	
11,850.0	11,641.8	11,969.6	11,790.2	18.0	25.8	107.38	-90.3	-556.3	504.0	459.6	44.33	11.369	
11,875.0	11,645.8	12,006.7	11,801.7	18.0	25.8	108.11	-125.5	-554.5	503.8	459.3	44.52	11.316	
11,900.0	11,648.4	12,044.4	11,810.6	18.0	25.9	108.77	-162.0	-552.6	503.4	458.7	44.70	11.262	
11,925.0	11,649.8	12,082.5	11,816.6	18.0	25.9	109.35	-199.6	-550.6	502.8	458.0	44.86	11.208	
11,938.3	11,650.0	12,102.9	11,818.6	18.0	26.0	109.62	-219.9	-549.5	502.4	457.5	44.94	11.180	
12,000.0	11,650.0	12,172.0	11,820.0	18.0	26.0	109.92	-288.8	-546.1	499.4	454.1	45.29	11.027	
12,100.0	11,650.0	12,257.9	11,820.0	18.1	26.2	110.04	-374.7	-543.9	496.1	450.2	45.95	10.797	
12,200.0	11,650.0	12,350.0	11,820.0	18.1	26.4	110.07	-466.9	-544.0	495.4	448.8	46.63	10.625	
12,300.0	11,650.0	12,450.0	11,820.0	18.2	26.6	110.08	-566.9	-544.6	495.2	447.8	47.34	10.459	
12,400.0	11,650.0	12,550.0	11,820.0	18.4	26.9	110.09	-666.9	-545.2	494.9	446.8	48.12	10.284	
12,500.0	11,650.0	12,650.0	11,820.0	18.6	27.2	110.10	-766.9	-545.8	494.6	445.7	48.96	10.103	
12,600.0	11,650.0	12,750.0	11,820.0	18.9	27.5	110.11	-866.9	-546.4	494.4	444.5	49.85	9.917	
12,700.0	11,650.0	12,850.0	11,820.0	19.3	27.9	110.12	-966.9	-547.0	494.1	443.3	50.80	9.727	
12,800.0	11,650.0	12,950.0	11,820.0	19.8	28.3	110.13	-1,066.9	-547.6	493.9	442.1	51.80	9.535	
12,900.0	11,650.0	13,050.0	11,820.0	20.3	28.7	110.15	-1,166.9	-548.2	493.6	440.8	52.84	9.342	
13,000.0	11,650.0	13,150.0	11,820.0	20.9	29.2	110.16	-1,266.9	-548.8	493.3	439.4	53.92	9.149	
13,100.0	11,650.0	13,250.0	11,820.0	21.5	29.6	110.17	-1,366.9	-549.4	493.1	438.0	55.05	8.956	
13,200.0	11,650.0	13,350.0	11,820.0	22.2	30.1	110.18	-1,466.9	-550.0	492.8	436.6	56.22	8.766	
13,300.0	11,650.0	13,450.0	11,820.0	22.8	30.6	110.19	-1,566.8	-550.6	492.6	435.1	57.42	8.578	
13,400.0	11,650.0	13,550.0	11,820.0	23.5	31.2	110.20	-1,666.8	-551.2	492.3	433.6	58.66	8.392	
13,500.0	11,650.0	13,650.0	11,820.0	24.2	31.8	110.21	-1,766.8	-551.8	492.0	432.1	59.93	8.210	
13,600.0	11,650.0	13,750.0	11,820.0	24.9	32.3	110.22	-1,866.8	-552.4	491.8	430.5	61.23	8.031	
13,700.0	11,650.0	13,850.0	11,820.0	25.7	32.9	110.24	-1,966.8	-553.0	491.5	428.9	62.56	7.857	
13,800.0	11,650.0	13,950.0	11,820.0	26.4	33.6	110.25	-2,066.8	-553.6	491.2	427.3	63.91	7.686	
13,900.0	11,650.0	14,050.0	11,820.0	27.2	34.2	110.26	-2,166.8	-554.2	491.0	425.7	65.29	7.520	
14,000.0	11,650.0	14,150.0	11,820.0	28.0	34.9	110.27	-2,266.8	-554.8	490.7	424.0	66.70	7.358	
14,100.0	11,650.0	14,250.0	11,820.0	28.8	35.5	110.28	-2,366.8	-555.3	490.5	422.3	68.12	7.200	
14,200.0	11,650.0	14,350.0	11,820.0	29.6	36.2	110.29	-2,466.8	-555.9	490.2	420.6	69.56	7.047	
14,300.0	11,650.0	14,450.0	11,820.0	30.4	36.9	110.30	-2,566.8	-556.5	489.9	418.9	71.03	6.898	
14,400.0	11,650.0	14,550.0	11,820.0	31.2	37.6	110.31	-2,666.8	-557.1	489.7	417.2	72.51	6.753	
14,500.0	11,650.0	14,650.0	11,820.0	32.1	38.3	110.33	-2,766.8	-557.7	489.4	415.4	74.01	6.613	
14,600.0	11,650.0	14,750.0	11,820.0	32.9	39.0	110.34	-2,866.8	-558.3	489.2	413.6	75.52	6.477	
14,700.0	11,650.0	14,850.0	11,820.0	33.7	39.8	110.35	-2,966.8	-558.9	488.9	411.8	77.05	6.345	
14,800.0	11,650.0	14,950.0	11,820.0	34.6	40.5	110.36	-3,066.8	-559.5	488.6	410.0	78.60	6.217	
14,900.0	11,650.0	15,050.0	11,820.0	35.4	41.3	110.37	-3,166.8	-560.1	488.4	408.2	80.15	6.093	
15,000.0	11,650.0	15,150.0	11,820.0	36.3	42.0	110.38	-3,266.8	-560.7	488.1	406.4	81.72	5.973	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
15,100.0	11,650.0	15,250.0	11,820.0	37.1	42.8	110.39	-3,366.8	-561.3	487.8	404.5	83.30	5.856	
15,200.0	11,650.0	15,350.0	11,820.0	38.0	43.6	110.41	-3,466.8	-561.9	487.6	402.7	84.90	5.743	
15,300.0	11,650.0	15,450.0	11,820.0	38.9	44.4	110.42	-3,566.8	-562.5	487.3	400.8	86.50	5.634	
15,400.0	11,650.0	15,550.0	11,820.0	39.8	45.2	110.43	-3,666.8	-563.1	487.1	398.9	88.11	5.528	
15,500.0	11,650.0	15,650.0	11,820.0	40.6	46.0	110.44	-3,766.8	-563.7	486.8	397.1	89.73	5.425	
15,600.0	11,650.0	15,750.0	11,820.0	41.5	46.8	110.45	-3,866.8	-564.3	486.5	395.2	91.36	5.325	
15,700.0	11,650.0	15,850.0	11,820.0	42.4	47.6	110.46	-3,966.8	-564.9	486.3	393.3	93.00	5.229	
15,800.0	11,650.0	15,950.0	11,820.0	43.3	48.4	110.47	-4,066.8	-565.5	486.0	391.4	94.65	5.135	
15,900.0	11,650.0	16,050.0	11,820.0	44.2	49.2	110.49	-4,166.8	-566.1	485.8	389.5	96.30	5.044	
16,000.0	11,650.0	16,150.0	11,820.0	45.1	50.1	110.50	-4,266.8	-566.7	485.5	387.5	97.96	4.956	
16,100.0	11,650.0	16,250.0	11,820.0	46.0	50.9	110.51	-4,366.8	-567.3	485.2	385.6	99.63	4.870	
16,200.0	11,650.0	16,350.0	11,820.0	46.9	51.7	110.52	-4,466.8	-567.9	485.0	383.7	101.31	4.787	
16,300.0	11,650.0	16,450.0	11,820.0	47.8	52.6	110.53	-4,566.8	-568.4	484.7	381.7	102.99	4.707	
16,400.0	11,650.0	16,550.0	11,820.0	48.7	53.4	110.54	-4,666.8	-569.0	484.4	379.8	104.67	4.628	
16,500.0	11,650.0	16,650.0	11,820.0	49.6	54.3	110.55	-4,766.8	-569.6	484.2	377.8	106.36	4.552	
16,600.0	11,650.0	16,750.0	11,820.0	50.5	55.1	110.57	-4,866.8	-570.2	483.9	375.9	108.06	4.478	
16,700.0	11,650.0	16,850.0	11,820.0	51.4	56.0	110.58	-4,966.8	-570.8	483.7	373.9	109.76	4.406	
16,800.0	11,650.0	16,950.0	11,820.0	52.3	56.8	110.59	-5,066.8	-571.4	483.4	371.9	111.47	4.337	
16,900.0	11,650.0	17,050.0	11,820.0	53.2	57.7	110.60	-5,166.8	-572.0	483.1	370.0	113.18	4.269	
17,000.0	11,650.0	17,150.0	11,820.0	54.2	58.5	110.61	-5,266.8	-572.6	482.9	368.0	114.90	4.203	
17,100.0	11,650.0	17,250.0	11,820.0	55.1	59.4	110.62	-5,366.8	-573.2	482.6	366.0	116.62	4.138	
17,200.0	11,650.0	17,350.0	11,820.0	56.0	60.3	110.64	-5,466.8	-573.8	482.4	364.0	118.34	4.076	
17,300.0	11,650.0	17,450.0	11,820.0	56.9	61.2	110.65	-5,566.8	-574.4	482.1	362.0	120.07	4.015	
17,400.0	11,650.0	17,550.0	11,820.0	57.8	62.0	110.66	-5,666.8	-575.0	481.8	360.0	121.80	3.956	
17,500.0	11,650.0	17,650.0	11,820.0	58.8	62.9	110.67	-5,766.8	-575.6	481.6	358.0	123.53	3.898	
17,600.0	11,650.0	17,750.0	11,820.0	59.7	63.8	110.68	-5,866.8	-576.2	481.3	356.0	125.27	3.842	
17,700.0	11,650.0	17,850.0	11,820.0	60.6	64.7	110.70	-5,966.8	-576.8	481.1	354.0	127.01	3.787	
17,800.0	11,650.0	17,950.0	11,820.0	61.5	65.5	110.71	-6,066.8	-577.4	480.8	352.0	128.76	3.734	
17,900.0	11,650.0	18,050.0	11,820.0	62.5	66.4	110.72	-6,166.7	-578.0	480.5	350.0	130.50	3.682	
18,000.0	11,650.0	18,150.0	11,820.0	63.4	67.3	110.73	-6,266.7	-578.6	480.3	348.0	132.25	3.631	
18,100.0	11,650.0	18,250.0	11,820.0	64.3	68.2	110.74	-6,366.7	-579.2	480.0	346.0	134.01	3.582	
18,200.0	11,650.0	18,350.0	11,820.0	65.2	69.1	110.75	-6,466.7	-579.8	479.7	344.0	135.76	3.534	
18,300.0	11,650.0	18,450.0	11,820.0	66.2	70.0	110.77	-6,566.7	-580.4	479.5	342.0	137.52	3.487	
18,400.0	11,650.0	18,550.0	11,820.0	67.1	70.9	110.78	-6,666.7	-581.0	479.2	339.9	139.28	3.441	
18,500.0	11,650.0	18,650.0	11,820.0	68.0	71.8	110.79	-6,766.7	-581.5	479.0	337.9	141.04	3.396	
18,600.0	11,650.0	18,750.0	11,820.0	69.0	72.7	110.80	-6,866.7	-582.1	478.7	335.9	142.80	3.352	
18,700.0	11,650.0	18,850.0	11,820.0	69.9	73.6	110.81	-6,966.7	-582.7	478.4	333.9	144.57	3.309	
18,800.0	11,650.0	18,950.0	11,820.0	70.8	74.5	110.82	-7,066.7	-583.3	478.2	331.8	146.34	3.268	
18,900.0	11,650.0	19,050.0	11,820.0	71.8	75.4	110.84	-7,166.7	-583.9	477.9	329.8	148.11	3.227	
19,000.0	11,650.0	19,150.0	11,820.0	72.7	76.3	110.85	-7,266.7	-584.5	477.7	327.8	149.88	3.187	
19,100.0	11,650.0	19,250.0	11,820.0	73.6	77.1	110.86	-7,366.7	-585.1	477.4	325.9	151.49	3.151	
19,149.0	11,650.0	19,299.0	11,820.0	74.1	77.4	110.87	-7,415.7	-585.4	477.3	325.1	152.20	3.136 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 706H - Slot ZHU 2531 WC #706H
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 706H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	89.20	0.4	30.0	30.0	23.6	6.43	4.666			
100.0	100.0	100.0	100.0	3.2	3.2	89.20	0.4	30.0	30.0	23.1	6.89	4.353			
200.0	200.0	200.0	200.0	3.5	3.5	89.20	0.4	30.0	30.0	22.7	7.33	4.094			
300.0	300.0	300.0	300.0	3.7	3.7	89.20	0.4	30.0	30.0	22.3	7.74	3.875			
400.0	400.0	400.0	400.0	3.9	3.9	89.20	0.4	30.0	30.0	21.9	8.14	3.688			
500.0	500.0	500.0	500.0	4.1	4.1	89.20	0.4	30.0	30.0	21.5	8.51	3.524			
600.0	600.0	600.0	600.0	4.2	4.2	89.20	0.4	30.0	30.0	21.1	8.88	3.379			
700.0	700.0	700.0	700.0	4.4	4.4	89.20	0.4	30.0	30.0	20.8	9.23	3.250			
800.0	800.0	800.0	800.0	4.6	4.6	89.20	0.4	30.0	30.0	20.4	9.57	3.135			
900.0	900.0	900.0	900.0	4.8	4.8	89.20	0.4	30.0	30.0	20.1	9.90	3.030			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.20	0.4	30.0	30.0	19.8	10.22	2.934			
1,100.0	1,100.0	1,100.0	1,100.0	5.1	5.1	89.20	0.4	30.0	30.0	19.5	10.54	2.846			
1,200.0	1,200.0	1,200.0	1,200.0	5.2	5.2	89.20	0.4	30.0	30.0	19.2	10.85	2.766	CC, ES, SF		
1,300.0	1,300.0	1,299.1	1,299.1	5.4	5.5	87.45	1.4	31.4	31.4	20.2	11.21	2.806			
1,400.0	1,400.0	1,398.0	1,397.8	5.5	5.7	83.05	4.3	35.6	35.9	24.4	11.57	3.106			
1,500.0	1,500.0	1,496.4	1,495.8	5.7	6.0	77.79	9.2	42.5	43.7	31.8	11.94	3.662			
1,600.0	1,600.0	1,594.1	1,592.9	5.9	6.3	89.58	15.9	52.2	55.0	42.7	12.32	4.463			
1,700.0	1,699.8	1,693.2	1,690.9	6.2	6.5	89.79	23.8	63.5	68.0	55.4	12.67	5.372			
1,800.0	1,799.5	1,792.2	1,789.0	6.4	6.7	92.32	31.8	74.7	81.2	68.2	13.02	6.239			
1,850.0	1,849.1	1,841.7	1,838.0	6.5	6.8	94.12	35.7	80.4	87.9	74.8	13.16	6.683			
1,900.0	1,898.8	1,891.1	1,887.0	6.6	7.0	96.05	39.6	86.0	94.8	81.5	13.30	7.128			
2,000.0	1,998.0	1,990.0	1,984.9	6.8	7.2	99.17	47.5	97.3	108.7	95.1	13.65	7.965			
2,100.0	2,097.3	2,088.8	2,082.8	7.0	7.5	101.57	55.4	108.6	123.0	108.9	14.02	8.770			
2,200.0	2,196.5	2,187.7	2,180.7	7.3	7.8	103.48	63.3	119.8	137.3	122.9	14.39	9.540			
2,300.0	2,295.8	2,286.6	2,278.6	7.5	8.1	105.02	71.2	131.1	151.8	137.0	14.78	10.273			
2,400.0	2,395.0	2,385.5	2,376.5	7.8	8.5	106.30	79.1	142.4	166.4	151.2	15.17	10.968			
2,500.0	2,494.3	2,484.3	2,474.4	8.1	8.8	107.37	87.0	153.7	181.1	165.5	15.57	11.627			
2,600.0	2,593.5	2,583.2	2,572.3	8.4	9.1	108.28	94.9	164.9	195.8	179.8	15.98	12.250			
2,700.0	2,692.8	2,682.1	2,670.2	8.7	9.5	109.06	102.8	176.2	210.5	194.1	16.40	12.840			
2,800.0	2,792.0	2,780.9	2,768.1	9.0	9.8	109.74	110.7	187.5	225.3	208.5	16.82	13.397			
2,900.0	2,891.3	2,879.8	2,866.0	9.4	10.2	110.33	118.6	198.7	240.1	222.9	17.24	13.924			
3,000.0	2,990.6	2,978.7	2,963.9	9.7	10.6	110.86	126.5	210.0	254.9	237.3	17.68	14.422			
3,100.0	3,089.8	3,077.5	3,061.9	10.0	10.9	111.33	134.4	221.3	269.8	251.7	18.11	14.894			
3,200.0	3,189.1	3,176.4	3,159.8	10.4	11.3	111.75	142.2	232.6	284.6	266.1	18.56	15.340			
3,300.0	3,288.3	3,275.3	3,257.7	10.7	11.7	112.12	150.1	243.8	299.5	280.5	19.00	15.762			
3,400.0	3,387.6	3,374.1	3,355.6	11.1	12.0	112.47	158.0	255.1	314.4	295.0	19.45	16.162			
3,500.0	3,486.8	3,473.0	3,453.5	11.5	12.4	112.78	165.9	266.4	329.3	309.4	19.91	16.541			
3,600.0	3,586.1	3,571.9	3,551.4	11.8	12.8	113.06	173.8	277.6	344.2	323.8	20.37	16.901			
3,614.0	3,600.0	3,585.7	3,565.1	11.9	12.9	113.10	174.9	279.2	346.3	325.9	20.42	16.957			
3,700.0	3,685.4	3,670.8	3,649.3	12.2	13.2	113.34	181.7	288.9	358.9	338.0	20.83	17.229			
3,800.0	3,784.9	3,769.8	3,747.4	12.6	13.6	113.38	189.6	300.2	372.9	351.6	21.30	17.503			
3,900.0	3,884.6	3,868.9	3,845.5	12.9	14.0	113.18	197.5	311.5	386.2	364.4	21.78	17.728			
4,000.0	3,984.4	3,968.0	3,943.7	13.2	14.4	112.75	205.4	322.8	398.8	376.5	22.27	17.906			
4,100.0	4,084.3	4,067.2	4,041.8	13.5	14.8	112.14	213.4	334.1	410.8	388.1	22.77	18.041			
4,200.0	4,184.2	4,166.3	4,140.0	13.8	15.2	111.33	221.3	345.4	422.3	399.0	23.28	18.143			
4,300.0	4,284.2	4,269.9	4,242.7	14.1	15.6	110.35	229.2	356.8	432.9	409.0	23.84	18.158			
4,314.0	4,298.3	4,284.6	4,257.3	14.1	15.7	95.21	230.3	358.3	434.2	410.3	23.91	18.157			
4,400.0	4,384.2	4,375.4	4,347.5	14.1	16.0	94.33	236.3	366.8	441.9	417.5	24.37	18.128			
4,500.0	4,484.2	4,481.3	4,452.9	14.2	16.4	93.49	242.2	375.4	449.5	424.6	24.88	18.069			
4,600.0	4,584.2	4,587.6	4,558.9	14.3	16.8	92.83	247.1	382.3	455.8	430.4	25.36	17.975			
4,700.0	4,684.2	4,694.2	4,665.2	14.4	17.2	92.33	250.8	387.6	460.6	434.8	25.81	17.849			

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 706H - Slot ZHU 2531 WC #706H
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 706H	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	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)		
4,800.0	4,784.2	4,801.0	4,771.9	14.4	17.5	91.99	253.4	391.4	464.0	437.8	26.22	17.697	
4,900.0	4,884.2	4,907.9	4,878.8	14.5	17.8	91.80	254.9	393.5	465.9	439.4	26.58	17.533	
5,000.0	4,984.2	5,013.4	4,984.2	14.6	18.0	91.75	255.3	394.0	466.4	439.6	26.78	17.413	
5,100.0	5,084.2	5,113.4	5,084.2	14.6	18.1	91.75	255.3	394.0	466.4	439.4	26.97	17.295	
5,200.0	5,184.2	5,213.4	5,184.2	14.7	18.1	91.75	255.3	394.0	466.4	439.3	27.11	17.202	
5,300.0	5,284.2	5,313.4	5,284.2	14.8	18.2	91.75	255.3	394.0	466.4	439.1	27.26	17.110	
5,400.0	5,384.2	5,413.4	5,384.2	14.9	18.2	91.75	255.3	394.0	466.4	439.0	27.40	17.019	
5,500.0	5,484.2	5,513.4	5,484.2	14.9	18.3	91.75	255.3	394.0	466.4	438.8	27.55	16.929	
5,600.0	5,584.2	5,613.4	5,584.2	15.0	18.3	91.75	255.3	394.0	466.4	438.7	27.70	16.840	
5,700.0	5,684.2	5,713.4	5,684.2	15.1	18.4	91.75	255.3	394.0	466.4	438.6	27.84	16.751	
5,800.0	5,784.2	5,813.4	5,784.2	15.2	18.4	91.75	255.3	394.0	466.4	438.4	27.99	16.663	
5,900.0	5,884.2	5,913.4	5,884.2	15.2	18.5	91.75	255.3	394.0	466.4	438.3	28.14	16.576	
6,000.0	5,984.2	6,013.4	5,984.2	15.3	18.5	91.75	255.3	394.0	466.4	438.1	28.28	16.490	
6,100.0	6,084.2	6,113.4	6,084.2	15.4	18.6	91.75	255.3	394.0	466.4	438.0	28.43	16.405	
6,200.0	6,184.2	6,213.4	6,184.2	15.4	18.7	91.75	255.3	394.0	466.4	437.8	28.58	16.321	
6,300.0	6,284.2	6,313.4	6,284.2	15.5	18.7	91.75	255.3	394.0	466.4	437.7	28.72	16.237	
6,400.0	6,384.2	6,413.4	6,384.2	15.6	18.8	91.75	255.3	394.0	466.4	437.5	28.87	16.154	
6,500.0	6,484.2	6,513.4	6,484.2	15.7	18.8	91.75	255.3	394.0	466.4	437.4	29.02	16.072	
6,600.0	6,584.2	6,613.4	6,584.2	15.7	18.9	91.75	255.3	394.0	466.4	437.2	29.17	15.990	
6,700.0	6,684.2	6,713.4	6,684.2	15.8	18.9	91.75	255.3	394.0	466.4	437.1	29.31	15.910	
6,800.0	6,784.2	6,813.4	6,784.2	15.9	19.0	91.75	255.3	394.0	466.4	436.9	29.46	15.830	
6,900.0	6,884.2	6,913.4	6,884.2	16.0	19.0	91.75	255.3	394.0	466.4	436.8	29.61	15.751	
7,000.0	6,984.2	7,013.4	6,984.2	16.0	19.1	91.75	255.3	394.0	466.4	436.6	29.76	15.672	
7,100.0	7,084.2	7,113.4	7,084.2	16.1	19.2	91.75	255.3	394.0	466.4	436.5	29.91	15.594	
7,200.0	7,184.2	7,213.4	7,184.2	16.2	19.2	91.75	255.3	394.0	466.4	436.3	30.06	15.517	
7,300.0	7,284.2	7,313.4	7,284.2	16.3	19.3	91.75	255.3	394.0	466.4	436.2	30.20	15.441	
7,400.0	7,384.2	7,413.4	7,384.2	16.3	19.3	91.75	255.3	394.0	466.4	436.0	30.35	15.365	
7,500.0	7,484.2	7,513.4	7,484.2	16.4	19.4	91.75	255.3	394.0	466.4	435.9	30.50	15.290	
7,600.0	7,584.2	7,613.4	7,584.2	16.5	19.4	91.75	255.3	394.0	466.4	435.7	30.65	15.216	
7,700.0	7,684.2	7,713.4	7,684.2	16.6	19.5	91.75	255.3	394.0	466.4	435.6	30.80	15.142	
7,800.0	7,784.2	7,813.4	7,784.2	16.6	19.6	91.75	255.3	394.0	466.4	435.4	30.95	15.069	
7,900.0	7,884.2	7,913.4	7,884.2	16.7	19.6	91.75	255.3	394.0	466.4	435.3	31.10	14.997	
8,000.0	7,984.2	8,013.4	7,984.2	16.8	19.7	91.75	255.3	394.0	466.4	435.1	31.25	14.925	
8,100.0	8,084.2	8,113.4	8,084.2	16.9	19.7	91.75	255.3	394.0	466.4	435.0	31.40	14.854	
8,200.0	8,184.2	8,213.4	8,184.2	16.9	19.8	91.75	255.3	394.0	466.4	434.8	31.55	14.783	
8,300.0	8,284.2	8,313.4	8,284.2	17.0	19.9	91.75	255.3	394.0	466.4	434.7	31.70	14.713	
8,400.0	8,384.2	8,413.4	8,384.2	17.1	19.9	91.75	255.3	394.0	466.4	434.5	31.85	14.644	
8,500.0	8,484.2	8,513.4	8,484.2	17.2	20.0	91.75	255.3	394.0	466.4	434.4	32.00	14.575	
8,600.0	8,584.2	8,613.4	8,584.2	17.2	20.0	91.75	255.3	394.0	466.4	434.2	32.15	14.507	
8,700.0	8,684.2	8,713.4	8,684.2	17.3	20.1	91.75	255.3	394.0	466.4	434.1	32.30	14.440	
8,800.0	8,784.2	8,813.4	8,784.2	17.4	20.2	91.75	255.3	394.0	466.4	433.9	32.45	14.373	
8,900.0	8,884.2	8,913.4	8,884.2	17.5	20.2	91.75	255.3	394.0	466.4	433.8	32.60	14.307	
9,000.0	8,984.2	9,013.4	8,984.2	17.5	20.3	91.75	255.3	394.0	466.4	433.6	32.75	14.241	
9,100.0	9,084.2	9,113.4	9,084.2	17.6	20.3	91.75	255.3	394.0	466.4	433.5	32.90	14.176	
9,200.0	9,184.2	9,213.4	9,184.2	17.7	20.4	91.75	255.3	394.0	466.4	433.3	33.05	14.111	
9,300.0	9,284.2	9,313.4	9,284.2	17.8	20.5	91.75	255.3	394.0	466.4	433.2	33.20	14.047	
9,400.0	9,384.2	9,413.4	9,384.2	17.8	20.5	91.75	255.3	394.0	466.4	433.0	33.35	13.983	
9,500.0	9,484.2	9,513.4	9,484.2	17.9	20.6	91.75	255.3	394.0	466.4	432.9	33.51	13.920	
9,600.0	9,584.2	9,613.4	9,584.2	18.0	20.6	91.75	255.3	394.0	466.4	432.7	33.66	13.858	
9,700.0	9,684.2	9,713.4	9,684.2	18.1	20.7	91.75	255.3	394.0	466.4	432.6	33.81	13.796	
9,800.0	9,784.2	9,813.4	9,784.2	18.1	20.8	91.75	255.3	394.0	466.4	432.4	33.96	13.734	

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 706H - Slot ZHU 2531 WC #706H
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 706H	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	
9,900.0	9,884.2	9,913.4	9,884.2	18.2	20.8	91.75	255.3	394.0	466.4	432.3	34.11	13.673	
10,000.0	9,984.2	10,013.4	9,984.2	18.3	20.9	91.75	255.3	394.0	466.4	432.1	34.26	13.613	
10,100.0	10,084.2	10,113.4	10,084.2	18.4	20.9	91.75	255.3	394.0	466.4	432.0	34.41	13.553	
10,200.0	10,184.2	10,213.4	10,184.2	18.4	21.0	91.75	255.3	394.0	466.4	431.8	34.57	13.493	
10,300.0	10,284.2	10,313.4	10,284.2	18.5	21.1	91.75	255.3	394.0	466.4	431.7	34.72	13.434	
10,400.0	10,384.2	10,413.4	10,384.2	18.6	21.1	91.75	255.3	394.0	466.4	431.5	34.87	13.376	
10,500.0	10,484.2	10,513.4	10,484.2	18.7	21.2	91.75	255.3	394.0	466.4	431.4	35.02	13.318	
10,600.0	10,584.2	10,613.4	10,584.2	18.7	21.3	91.75	255.3	394.0	466.4	431.2	35.17	13.260	
10,700.0	10,684.2	10,713.4	10,684.2	18.8	21.3	91.75	255.3	394.0	466.4	431.1	35.33	13.203	
10,800.0	10,784.2	10,813.4	10,784.2	18.9	21.4	91.75	255.3	394.0	466.4	430.9	35.48	13.146	
10,900.0	10,884.2	10,913.4	10,884.2	19.0	21.4	91.75	255.3	394.0	466.4	430.8	35.63	13.090	
11,000.0	10,984.2	11,013.4	10,984.2	19.0	21.5	91.75	255.3	394.0	466.4	430.6	35.78	13.034	
11,100.0	11,084.2	11,113.4	11,084.2	19.1	21.6	91.75	255.3	394.0	466.4	430.5	35.93	12.979	
11,188.3	11,172.5	11,201.6	11,172.5	19.2	21.6	91.75	255.3	394.0	466.4	430.3	36.06	12.933	
11,200.0	11,184.2	11,213.4	11,184.2	19.2	21.6	-88.77	255.3	394.0	466.4	430.3	36.07	12.929	
11,225.0	11,209.2	11,238.3	11,209.2	19.1	21.7	-88.92	255.3	394.0	466.4	430.3	36.10	12.920	
11,250.0	11,234.1	11,263.2	11,234.1	19.1	21.7	-89.24	255.3	394.0	466.3	430.2	36.13	12.908	
11,275.0	11,258.8	11,287.9	11,258.8	19.0	21.7	-89.72	255.3	394.0	466.3	430.1	36.17	12.893	
11,287.1	11,270.6	11,299.8	11,270.6	19.0	21.7	-90.00	255.3	394.0	466.3	430.1	36.19	12.884	
11,300.0	11,283.2	11,312.3	11,283.2	19.0	21.7	-90.34	255.3	394.0	466.3	430.1	36.22	12.875	
11,325.0	11,307.4	11,336.5	11,307.4	18.9	21.7	-91.09	255.3	394.0	466.4	430.1	36.28	12.857	
11,350.0	11,331.2	11,360.3	11,331.2	18.8	21.7	-91.96	255.3	394.0	466.6	430.2	36.34	12.838	
11,375.0	11,354.5	11,384.4	11,355.2	18.8	21.7	-92.95	255.1	394.0	467.0	430.6	36.41	12.825	
11,400.0	11,377.4	11,409.4	11,380.2	18.7	21.7	-93.97	253.8	393.9	467.6	431.1	36.47	12.821	
11,425.0	11,399.7	11,434.9	11,405.6	18.6	21.6	-94.99	251.1	393.9	468.3	431.8	36.51	12.826	
11,450.0	11,421.3	11,460.9	11,431.3	18.6	21.6	-96.01	246.9	393.9	469.2	432.6	36.55	12.838	
11,475.0	11,442.3	11,487.6	11,457.3	18.5	21.5	-97.02	241.3	393.8	470.2	433.7	36.57	12.857	
11,500.0	11,462.6	11,514.8	11,483.6	18.5	21.5	-98.03	233.9	393.7	471.4	434.8	36.60	12.882	
11,525.0	11,482.0	11,542.7	11,510.0	18.4	21.4	-99.02	224.9	393.6	472.8	436.2	36.61	12.913	
11,550.0	11,500.6	11,571.3	11,536.4	18.4	21.4	-100.00	214.1	393.5	474.2	437.6	36.62	12.949	
11,575.0	11,518.3	11,600.5	11,562.7	18.3	21.3	-100.96	201.4	393.3	475.8	439.1	36.63	12.987	
11,600.0	11,535.1	11,630.5	11,588.9	18.3	21.2	-101.90	186.8	393.2	477.4	440.8	36.64	13.029	
11,625.0	11,550.8	11,661.3	11,614.7	18.2	21.2	-102.81	170.1	393.0	479.1	442.4	36.66	13.070	
11,650.0	11,565.6	11,692.8	11,640.0	18.2	21.1	-103.70	151.3	392.8	480.8	444.2	36.67	13.111	
11,675.0	11,579.2	11,725.1	11,664.6	18.1	21.0	-104.56	130.3	392.5	482.6	445.9	36.70	13.149	
11,700.0	11,591.7	11,758.2	11,688.2	18.1	21.0	-105.37	107.2	392.3	484.3	447.6	36.74	13.183	
11,725.0	11,603.1	11,792.1	11,710.7	18.1	20.9	-106.14	81.8	392.0	486.0	449.2	36.79	13.212	
11,750.0	11,613.3	11,826.7	11,731.8	18.1	20.9	-106.86	54.3	391.7	487.7	450.8	36.85	13.234	
11,775.0	11,622.3	11,862.1	11,751.2	18.0	20.9	-107.53	24.7	391.3	489.2	452.3	36.92	13.249	
11,800.0	11,630.1	11,898.3	11,768.7	18.0	20.8	-108.13	-6.9	391.0	490.6	453.6	37.01	13.258	
11,825.0	11,636.6	11,935.0	11,784.0	18.0	20.8	-108.66	-40.3	390.6	491.9	454.8	37.10	13.260	
11,850.0	11,641.8	11,972.4	11,796.8	18.0	20.8	-109.12	-75.4	390.2	493.0	455.8	37.19	13.256	
11,875.0	11,645.8	12,010.3	11,807.0	18.0	20.8	-109.50	-111.8	389.8	493.9	456.6	37.28	13.247	
11,900.0	11,648.4	12,048.6	11,814.4	18.0	20.8	-109.79	-149.4	389.3	494.5	457.2	37.36	13.235	
11,925.0	11,649.8	12,087.2	11,818.7	18.0	20.9	-109.99	-187.7	388.9	495.0	457.5	37.44	13.221	
11,938.3	11,650.0	12,107.7	11,819.8	18.0	20.9	-110.06	-208.3	388.7	495.1	457.6	37.47	13.214	
12,000.0	11,650.0	12,174.4	11,820.0	18.0	21.0	-110.09	-274.9	387.9	495.0	457.4	37.61	13.160	
12,100.0	11,650.0	12,274.4	11,820.0	18.1	21.2	-110.10	-374.9	386.8	494.7	456.8	37.93	13.042	
12,200.0	11,650.0	12,374.4	11,820.0	18.1	21.4	-110.11	-474.9	385.6	494.5	456.1	38.34	12.897	
12,300.0	11,650.0	12,474.4	11,820.0	18.2	21.6	-110.12	-574.9	384.5	494.2	455.4	38.84	12.726	
12,400.0	11,650.0	12,574.4	11,820.0	18.4	21.9	-110.13	-674.9	383.4	494.0	454.6	39.41	12.534	

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 707H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,500.0	11,650.0	12,674.4	11,820.0	18.6	22.2	-110.14	-774.9	382.2	493.7	453.7	40.06	12.324	
12,600.0	11,650.0	12,774.4	11,820.0	18.9	22.5	-110.15	-874.9	381.1	493.5	452.7	40.79	12.098	
12,700.0	11,650.0	12,874.4	11,820.0	19.3	22.9	-110.16	-974.9	379.9	493.2	451.7	41.59	11.859	
12,800.0	11,650.0	12,974.4	11,820.0	19.8	23.3	-110.17	-1,074.9	378.8	493.0	450.5	42.46	11.612	
12,900.0	11,650.0	13,074.4	11,820.0	20.3	23.8	-110.18	-1,174.9	377.7	492.7	449.4	43.38	11.358	
13,000.0	11,650.0	13,174.4	11,820.0	20.9	24.3	-110.19	-1,274.9	376.5	492.5	448.1	44.37	11.100	
13,100.0	11,650.0	13,274.4	11,820.0	21.5	24.8	-110.20	-1,374.9	375.4	492.2	446.8	45.41	10.841	
13,200.0	11,650.0	13,374.4	11,820.0	22.2	25.3	-110.21	-1,474.9	374.2	492.0	445.5	46.50	10.581	
13,300.0	11,650.0	13,474.4	11,820.0	22.8	25.9	-110.22	-1,574.9	373.1	491.8	444.1	47.64	10.323	
13,400.0	11,650.0	13,574.4	11,820.0	23.5	26.4	-110.24	-1,674.9	372.0	491.5	442.7	48.82	10.068	
13,500.0	11,650.0	13,674.4	11,820.0	24.2	27.1	-110.25	-1,774.8	370.8	491.3	441.2	50.04	9.817	
13,600.0	11,650.0	13,774.4	11,820.0	24.9	27.7	-110.26	-1,874.8	369.7	491.0	439.7	51.30	9.571	
13,700.0	11,650.0	13,874.4	11,820.0	25.7	28.3	-110.27	-1,974.8	368.5	490.8	438.2	52.60	9.330	
13,800.0	11,650.0	13,974.4	11,820.0	26.4	29.0	-110.28	-2,074.8	367.4	490.5	436.6	53.93	9.096	
13,900.0	11,650.0	14,074.4	11,820.0	27.2	29.7	-110.29	-2,174.8	366.3	490.3	435.0	55.29	8.868	
14,000.0	11,650.0	14,174.4	11,820.0	28.0	30.4	-110.30	-2,274.8	365.1	490.0	433.3	56.67	8.646	
14,100.0	11,650.0	14,274.4	11,820.0	28.8	31.1	-110.31	-2,374.8	364.0	489.8	431.7	58.08	8.432	
14,200.0	11,650.0	14,374.4	11,820.0	29.6	31.8	-110.32	-2,474.8	362.8	489.5	430.0	59.52	8.224	
14,300.0	11,650.0	14,474.4	11,820.0	30.4	32.6	-110.33	-2,574.8	361.7	489.3	428.3	60.98	8.023	
14,400.0	11,650.0	14,574.4	11,820.0	31.2	33.3	-110.34	-2,674.8	360.6	489.0	426.6	62.46	7.829	
14,500.0	11,650.0	14,674.4	11,820.0	32.1	34.1	-110.35	-2,774.8	359.4	488.8	424.8	63.96	7.642	
14,600.0	11,650.0	14,774.4	11,820.0	32.9	34.9	-110.36	-2,874.8	358.3	488.5	423.0	65.47	7.461	
14,700.0	11,650.0	14,874.4	11,820.0	33.7	35.6	-110.38	-2,974.8	357.1	488.3	421.3	67.01	7.287	
14,800.0	11,650.0	14,974.4	11,820.0	34.6	36.4	-110.39	-3,074.8	356.0	488.0	419.5	68.56	7.118	
14,900.0	11,650.0	15,074.4	11,820.0	35.4	37.2	-110.40	-3,174.8	354.9	487.8	417.7	70.12	6.956	
15,000.0	11,650.0	15,174.4	11,820.0	36.3	38.0	-110.41	-3,274.7	353.7	487.5	415.8	71.70	6.800	
15,100.0	11,650.0	15,274.4	11,820.0	37.1	38.9	-110.42	-3,374.7	352.6	487.3	414.0	73.29	6.649	
15,200.0	11,650.0	15,374.4	11,820.0	38.0	39.7	-110.43	-3,474.7	351.5	487.0	412.1	74.89	6.503	
15,300.0	11,650.0	15,474.4	11,820.0	38.9	40.5	-110.44	-3,574.7	350.3	486.8	410.3	76.50	6.363	
15,400.0	11,650.0	15,574.4	11,820.0	39.8	41.3	-110.45	-3,674.7	349.2	486.5	408.4	78.13	6.228	
15,500.0	11,650.0	15,674.4	11,820.0	40.6	42.2	-110.46	-3,774.7	348.0	486.3	406.5	79.76	6.097	
15,600.0	11,650.0	15,774.4	11,820.0	41.5	43.0	-110.47	-3,874.7	346.9	486.0	404.6	81.40	5.971	
15,700.0	11,650.0	15,874.4	11,820.0	42.4	43.9	-110.48	-3,974.7	345.8	485.8	402.7	83.05	5.849	
15,800.0	11,650.0	15,974.4	11,820.0	43.3	44.7	-110.50	-4,074.7	344.6	485.5	400.8	84.71	5.732	
15,900.0	11,650.0	16,074.4	11,820.0	44.2	45.6	-110.51	-4,174.7	343.5	485.3	398.9	86.38	5.618	
16,000.0	11,650.0	16,174.4	11,820.0	45.1	46.4	-110.52	-4,274.7	342.3	485.0	397.0	88.05	5.509	
16,100.0	11,650.0	16,274.4	11,820.0	46.0	47.3	-110.53	-4,374.7	341.2	484.8	395.1	89.73	5.403	
16,200.0	11,650.0	16,374.4	11,820.0	46.9	48.2	-110.54	-4,474.7	340.1	484.5	393.1	91.42	5.300	
16,300.0	11,650.0	16,474.4	11,820.0	47.8	49.0	-110.55	-4,574.7	338.9	484.3	391.2	93.11	5.201	
16,400.0	11,650.0	16,574.4	11,820.0	48.7	49.9	-110.56	-4,674.6	337.8	484.1	389.2	94.81	5.106	
16,500.0	11,650.0	16,674.4	11,820.0	49.6	50.8	-110.57	-4,774.6	336.6	483.8	387.3	96.51	5.013	
16,600.0	11,650.0	16,774.4	11,820.0	50.5	51.7	-110.58	-4,874.6	335.5	483.6	385.3	98.22	4.923	
16,700.0	11,650.0	16,874.4	11,820.0	51.4	52.6	-110.59	-4,974.6	334.4	483.3	383.4	99.94	4.836	
16,800.0	11,650.0	16,974.4	11,820.0	52.3	53.4	-110.61	-5,074.6	333.2	483.1	381.4	101.65	4.752	
16,900.0	11,650.0	17,074.4	11,820.0	53.2	54.3	-110.62	-5,174.6	332.1	482.8	379.4	103.38	4.670	
17,000.0	11,650.0	17,174.4	11,820.0	54.2	55.2	-110.63	-5,274.6	330.9	482.6	377.5	105.10	4.591	
17,100.0	11,650.0	17,274.4	11,820.0	55.1	56.1	-110.64	-5,374.6	329.8	482.3	375.5	106.84	4.515	
17,200.0	11,650.0	17,374.4	11,820.0	56.0	57.0	-110.65	-5,474.6	328.7	482.1	373.5	108.57	4.440	
17,300.0	11,650.0	17,474.4	11,820.0	56.9	57.9	-110.66	-5,574.6	327.5	481.8	371.5	110.31	4.368	
17,400.0	11,650.0	17,574.4	11,820.0	57.8	58.8	-110.67	-5,674.6	326.4	481.6	369.5	112.05	4.298	
17,500.0	11,650.0	17,674.4	11,820.0	58.8	59.7	-110.68	-5,774.6	325.2	481.3	367.5	113.79	4.230	

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 706H - Slot ZHU 2531 WC #706H
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 706H	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			Offset Wellbore Centre		Distance		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,600.0	11,650.0	17,774.4	11,820.0	59.7	60.6	-110.69	-5,874.6	324.1	481.1	365.5	115.54	4.164		
17,700.0	11,650.0	17,874.4	11,820.0	60.6	61.5	-110.71	-5,974.6	323.0	480.8	363.5	117.29	4.099		
17,800.0	11,650.0	17,974.4	11,820.0	61.5	62.4	-110.72	-6,074.6	321.8	480.6	361.5	119.05	4.037		
17,900.0	11,650.0	18,074.4	11,820.0	62.5	63.3	-110.73	-6,174.5	320.7	480.3	359.5	120.80	3.976		
18,000.0	11,650.0	18,174.4	11,820.0	63.4	64.2	-110.74	-6,274.5	319.5	480.1	357.5	122.56	3.917		
18,100.0	11,650.0	18,274.4	11,820.0	64.3	65.1	-110.75	-6,374.5	318.4	479.8	355.5	124.32	3.860		
18,200.0	11,650.0	18,374.4	11,820.0	65.2	66.1	-110.76	-6,474.5	317.3	479.6	353.5	126.09	3.804		
18,300.0	11,650.0	18,474.4	11,820.0	66.2	67.0	-110.77	-6,574.5	316.1	479.3	351.5	127.85	3.749		
18,400.0	11,650.0	18,574.4	11,820.0	67.1	67.9	-110.78	-6,674.5	315.0	479.1	349.5	129.62	3.696		
18,500.0	11,650.0	18,674.4	11,820.0	68.0	68.8	-110.79	-6,774.5	313.8	478.8	347.5	131.39	3.644		
18,600.0	11,650.0	18,774.4	11,820.0	69.0	69.7	-110.81	-6,874.5	312.7	478.6	345.4	133.16	3.594		
18,700.0	11,650.0	18,874.4	11,820.0	69.9	70.6	-110.82	-6,974.5	311.6	478.3	343.4	134.94	3.545		
18,800.0	11,650.0	18,974.4	11,820.0	70.8	71.6	-110.83	-7,074.5	310.4	478.1	341.4	136.71	3.497		
18,900.0	11,650.0	19,074.4	11,820.0	71.8	72.5	-110.84	-7,174.5	309.3	477.9	339.4	138.49	3.450		
19,000.0	11,650.0	19,174.4	11,820.0	72.7	73.4	-110.85	-7,274.5	308.2	477.6	337.3	140.27	3.405		
19,100.0	11,650.0	19,274.4	11,820.0	73.6	74.3	-110.86	-7,374.5	307.0	477.4	335.3	142.05	3.361		
19,142.8	11,650.0	19,316.0	11,820.0	74.0	74.7	-110.87	-7,416.1	306.5	477.3	334.5	142.79	3.342		
19,149.0	11,650.0	19,316.0	11,820.0	74.1	74.7	-110.87	-7,416.1	306.5	477.3	334.5	142.77	3.343		

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 706H - Slot ZHU 2531 WC #706H
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 706H	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	0.0	0.0	3.0	3.0	89.20	0.8	60.0	60.0	53.6	6.43	9.333
100.0	100.0	100.0	100.0	3.2	3.2	89.20	0.8	60.0	60.0	53.1	6.89	8.705
200.0	200.0	200.0	200.0	3.5	3.5	89.20	0.8	60.0	60.0	52.7	7.33	8.188
300.0	300.0	300.0	300.0	3.7	3.7	89.20	0.8	60.0	60.0	52.3	7.74	7.751
400.0	400.0	400.0	400.0	3.9	3.9	89.20	0.8	60.0	60.0	51.9	8.14	7.375
500.0	500.0	500.0	500.0	4.1	4.1	89.20	0.8	60.0	60.0	51.5	8.51	7.048
600.0	600.0	600.0	600.0	4.2	4.2	89.20	0.8	60.0	60.0	51.1	8.88	6.759
700.0	700.0	700.0	700.0	4.4	4.4	89.20	0.8	60.0	60.0	50.8	9.23	6.501
800.0	800.0	800.0	800.0	4.6	4.6	89.20	0.8	60.0	60.0	50.4	9.57	6.269
900.0	900.0	900.0	900.0	4.8	4.8	89.20	0.8	60.0	60.0	50.1	9.90	6.059
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.20	0.8	60.0	60.0	49.8	10.22	5.868 CC, ES
1,100.0	1,100.0	1,098.0	1,098.0	5.1	5.2	88.74	1.4	61.6	61.6	51.0	10.62	5.806 SF
1,200.0	1,200.0	1,195.8	1,195.6	5.2	5.4	87.50	2.9	66.4	66.6	55.6	11.00	6.052
1,300.0	1,300.0	1,293.1	1,292.6	5.4	5.7	85.79	5.5	74.2	74.8	63.4	11.39	6.571
1,400.0	1,400.0	1,389.7	1,388.5	5.5	6.0	83.96	9.0	85.2	86.4	74.6	11.78	7.336
1,500.0	1,500.0	1,485.5	1,483.2	5.7	6.3	82.23	13.5	99.0	101.4	89.2	12.18	8.320
1,600.0	1,600.0	1,581.4	1,577.5	5.9	6.5	96.16	19.0	115.8	119.6	107.1	12.50	9.573
1,700.0	1,699.8	1,679.5	1,673.7	6.2	6.7	96.65	24.7	133.6	139.0	126.1	12.89	10.781
1,800.0	1,799.5	1,777.4	1,769.8	6.4	7.0	98.18	30.5	151.3	158.9	145.6	13.32	11.932
1,850.0	1,849.1	1,826.2	1,817.7	6.5	7.2	99.22	33.4	160.2	169.1	155.6	13.50	12.526
1,900.0	1,898.8	1,875.0	1,865.6	6.6	7.3	100.46	36.3	169.0	179.5	165.8	13.69	13.111
2,000.0	1,998.0	1,972.5	1,961.4	6.8	7.6	102.55	42.0	186.7	200.4	186.3	14.14	14.177
2,100.0	2,097.3	2,070.1	2,057.1	7.0	8.0	104.24	47.8	204.4	221.5	206.9	14.59	15.178
2,200.0	2,196.5	2,167.6	2,152.9	7.3	8.3	105.65	53.5	222.1	242.8	227.7	15.07	16.116
2,300.0	2,295.8	2,265.2	2,248.7	7.5	8.7	106.82	59.3	239.8	264.2	248.6	15.55	16.992
2,400.0	2,395.0	2,362.7	2,344.4	7.8	9.0	107.82	65.0	257.5	285.7	269.6	16.04	17.809
2,500.0	2,494.3	2,460.3	2,440.2	8.1	9.4	108.68	70.8	275.2	307.2	290.7	16.54	18.570
2,600.0	2,593.5	2,557.8	2,535.9	8.4	9.8	109.43	76.5	292.9	328.8	311.8	17.06	19.280
2,700.0	2,692.8	2,655.4	2,631.7	8.7	10.2	110.08	82.3	310.6	350.5	332.9	17.58	19.941
2,800.0	2,792.0	2,752.9	2,727.5	9.0	10.5	110.66	88.0	328.3	372.2	354.1	18.10	20.558
2,900.0	2,891.3	2,850.5	2,823.2	9.4	10.9	111.18	93.8	346.1	393.9	375.3	18.64	21.133
3,000.0	2,990.6	2,948.0	2,919.0	9.7	11.3	111.64	99.5	363.8	415.7	396.5	19.18	21.671
3,100.0	3,089.8	3,045.6	3,014.7	10.0	11.7	112.05	105.3	381.5	437.5	417.7	19.73	22.173
3,200.0	3,189.1	3,143.1	3,110.5	10.4	12.1	112.43	111.0	399.2	459.3	439.0	20.28	22.642
3,300.0	3,288.3	3,240.7	3,206.3	10.7	12.6	112.77	116.8	416.9	481.1	460.2	20.84	23.082
3,400.0	3,387.6	3,338.2	3,302.0	11.1	13.0	113.08	122.5	434.6	502.9	481.5	21.40	23.495
3,500.0	3,486.8	3,435.8	3,397.8	11.5	13.4	113.37	128.3	452.3	524.7	502.8	21.97	23.882
3,600.0	3,586.1	3,533.4	3,493.5	11.8	13.8	113.63	134.0	470.0	546.6	524.1	22.54	24.246
3,614.0	3,600.0	3,547.0	3,507.0	11.9	13.9	113.67	134.9	472.5	549.7	527.1	22.62	24.302
3,700.0	3,685.4	3,631.0	3,589.4	12.2	14.2	113.99	139.8	487.7	568.2	545.1	23.12	24.576
3,800.0	3,784.9	3,728.8	3,685.4	12.6	14.6	114.20	145.6	505.4	589.1	565.4	23.70	24.854
3,900.0	3,884.6	3,826.7	3,781.5	12.9	15.1	114.24	151.3	523.2	609.4	585.1	24.29	25.085
4,000.0	3,984.4	3,924.7	3,877.7	13.2	15.5	114.14	157.1	541.0	628.9	604.0	24.89	25.272
4,100.0	4,084.3	4,022.8	3,974.0	13.5	15.9	113.91	162.9	558.8	647.8	622.3	25.48	25.420
4,200.0	4,184.2	4,121.0	4,070.3	13.8	16.4	113.56	168.7	576.6	666.0	639.9	26.08	25.534
4,300.0	4,284.2	4,219.1	4,166.7	14.1	16.8	113.09	174.5	594.4	683.6	656.9	26.68	25.620
4,314.0	4,298.3	4,232.9	4,180.2	14.1	16.9	98.02	175.3	596.9	686.0	659.2	26.76	25.637
4,400.0	4,384.2	4,317.3	4,263.1	14.1	17.2	97.43	180.3	612.2	700.8	673.5	27.27	25.703
4,500.0	4,484.2	4,415.4	4,359.4	14.2	17.7	96.78	186.1	630.0	718.1	690.3	27.86	25.780
4,600.0	4,584.2	4,513.6	4,455.8	14.3	18.1	96.16	191.8	647.9	735.6	707.1	28.45	25.852
4,700.0	4,684.2	4,611.8	4,552.1	14.4	18.5	95.57	197.6	665.7	753.1	724.0	29.05	25.919

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0												Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:								Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.0	4,784.2	4,709.9	4,648.5	14.4	19.0	95.00	203.4	683.5	770.6	741.0	29.66	25.981		
4,900.0	4,884.2	4,808.1	4,744.9	14.5	19.4	94.46	209.2	701.3	788.3	758.0	30.27	26.040		
5,000.0	4,984.2	4,906.3	4,841.2	14.6	19.9	93.94	215.0	719.1	806.0	775.1	30.89	26.095		
5,100.0	5,084.2	5,004.4	4,937.6	14.6	20.3	93.45	220.8	736.9	823.8	792.3	31.51	26.146		
5,200.0	5,184.2	5,102.6	5,033.9	14.7	20.7	92.97	226.6	754.7	841.6	809.5	32.13	26.196		
5,300.0	5,284.2	5,212.5	5,141.9	14.8	21.2	92.48	232.9	774.1	859.0	826.2	32.80	26.187		
5,400.0	5,384.2	5,327.4	5,255.3	14.9	21.7	92.04	238.8	792.3	874.7	841.2	33.50	26.106		
5,500.0	5,484.2	5,443.1	5,369.7	14.9	22.2	91.66	244.0	808.5	888.5	854.3	34.18	25.993		
5,600.0	5,584.2	5,559.4	5,485.1	15.0	22.7	91.34	248.6	822.5	900.4	865.6	34.83	25.853		
5,700.0	5,684.2	5,676.3	5,601.3	15.1	23.2	91.08	252.4	834.3	910.5	875.1	35.44	25.689		
5,800.0	5,784.2	5,793.7	5,718.2	15.2	23.6	90.87	255.6	843.9	918.6	882.6	36.02	25.505		
5,900.0	5,884.2	5,911.4	5,835.7	15.2	24.0	90.72	257.9	851.3	924.9	888.3	36.55	25.306		
6,000.0	5,984.2	6,029.4	5,953.5	15.3	24.4	90.61	259.6	856.4	929.1	892.1	37.02	25.100		
6,100.0	6,084.2	6,147.5	6,071.7	15.4	24.8	90.56	260.5	859.1	931.5	894.1	37.41	24.901		
6,200.0	6,184.2	6,260.1	6,184.2	15.4	24.9	90.55	260.7	859.7	931.9	894.3	37.61	24.778		
6,300.0	6,284.2	6,360.1	6,284.2	15.5	25.0	90.55	260.7	859.7	931.9	894.2	37.71	24.712		
6,400.0	6,384.2	6,460.1	6,384.2	15.6	25.0	90.55	260.7	859.7	931.9	894.1	37.82	24.643		
6,500.0	6,484.2	6,560.1	6,484.2	15.7	25.0	90.55	260.7	859.7	931.9	894.0	37.92	24.575		
6,600.0	6,584.2	6,660.1	6,584.2	15.7	25.1	90.55	260.7	859.7	931.9	893.9	38.03	24.506		
6,700.0	6,684.2	6,760.1	6,684.2	15.8	25.1	90.55	260.7	859.7	931.9	893.8	38.14	24.437		
6,800.0	6,784.2	6,860.1	6,784.2	15.9	25.1	90.55	260.7	859.7	931.9	893.7	38.24	24.369		
6,900.0	6,884.2	6,960.1	6,884.2	16.0	25.2	90.55	260.7	859.7	931.9	893.6	38.35	24.301		
7,000.0	6,984.2	7,060.1	6,984.2	16.0	25.2	90.55	260.7	859.7	931.9	893.5	38.46	24.232		
7,100.0	7,084.2	7,160.1	7,084.2	16.1	25.3	90.55	260.7	859.7	931.9	893.4	38.57	24.164		
7,200.0	7,184.2	7,260.1	7,184.2	16.2	25.3	90.55	260.7	859.7	931.9	893.3	38.68	24.097		
7,300.0	7,284.2	7,360.1	7,284.2	16.3	25.3	90.55	260.7	859.7	931.9	893.2	38.78	24.029		
7,400.0	7,384.2	7,460.1	7,384.2	16.3	25.4	90.55	260.7	859.7	931.9	893.0	38.89	23.961		
7,500.0	7,484.2	7,560.1	7,484.2	16.4	25.4	90.55	260.7	859.7	931.9	892.9	39.00	23.894		
7,600.0	7,584.2	7,660.1	7,584.2	16.5	25.5	90.55	260.7	859.7	931.9	892.8	39.11	23.827		
7,700.0	7,684.2	7,760.1	7,684.2	16.6	25.5	90.55	260.7	859.7	931.9	892.7	39.22	23.760		
7,800.0	7,784.2	7,860.1	7,784.2	16.6	25.5	90.55	260.7	859.7	931.9	892.6	39.33	23.693		
7,900.0	7,884.2	7,960.1	7,884.2	16.7	25.6	90.55	260.7	859.7	931.9	892.5	39.45	23.626		
8,000.0	7,984.2	8,060.1	7,984.2	16.8	25.6	90.55	260.7	859.7	931.9	892.4	39.56	23.559		
8,100.0	8,084.2	8,160.1	8,084.2	16.9	25.6	90.55	260.7	859.7	931.9	892.3	39.67	23.493		
8,200.0	8,184.2	8,260.1	8,184.2	16.9	25.7	90.55	260.7	859.7	931.9	892.2	39.78	23.427		
8,300.0	8,284.2	8,360.1	8,284.2	17.0	25.7	90.55	260.7	859.7	931.9	892.0	39.89	23.361		
8,400.0	8,384.2	8,460.1	8,384.2	17.1	25.8	90.55	260.7	859.7	931.9	891.9	40.01	23.295		
8,500.0	8,484.2	8,560.1	8,484.2	17.2	25.8	90.55	260.7	859.7	931.9	891.8	40.12	23.229		
8,600.0	8,584.2	8,660.1	8,584.2	17.2	25.9	90.55	260.7	859.7	931.9	891.7	40.23	23.164		
8,700.0	8,684.2	8,760.1	8,684.2	17.3	25.9	90.55	260.7	859.7	931.9	891.6	40.35	23.098		
8,800.0	8,784.2	8,860.1	8,784.2	17.4	25.9	90.55	260.7	859.7	931.9	891.5	40.46	23.033		
8,900.0	8,884.2	8,960.1	8,884.2	17.5	26.0	90.55	260.7	859.7	931.9	891.4	40.58	22.968		
9,000.0	8,984.2	9,060.1	8,984.2	17.5	26.0	90.55	260.7	859.7	931.9	891.2	40.69	22.903		
9,100.0	9,084.2	9,160.1	9,084.2	17.6	26.1	90.55	260.7	859.7	931.9	891.1	40.81	22.839		
9,200.0	9,184.2	9,260.1	9,184.2	17.7	26.1	90.55	260.7	859.7	931.9	891.0	40.92	22.774		
9,300.0	9,284.2	9,360.1	9,284.2	17.8	26.1	90.55	260.7	859.7	931.9	890.9	41.04	22.710		
9,400.0	9,384.2	9,460.1	9,384.2	17.8	26.2	90.55	260.7	859.7	931.9	890.8	41.15	22.646		
9,500.0	9,484.2	9,560.1	9,484.2	17.9	26.2	90.55	260.7	859.7	931.9	890.7	41.27	22.582		
9,600.0	9,584.2	9,660.1	9,584.2	18.0	26.3	90.55	260.7	859.7	931.9	890.6	41.39	22.519		
9,700.0	9,684.2	9,760.1	9,684.2	18.1	26.3	90.55	260.7	859.7	931.9	890.4	41.50	22.455		
9,800.0	9,784.2	9,860.1	9,784.2	18.1	26.4	90.55	260.7	859.7	931.9	890.3	41.62	22.392		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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		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)			
9,900.0	9,884.2	9,960.1	9,884.2	18.2	26.4	90.55	260.7	859.7	931.9	890.2	41.74	22.329	
10,000.0	9,984.2	10,060.1	9,984.2	18.3	26.4	90.55	260.7	859.7	931.9	890.1	41.85	22.266	
10,100.0	10,084.2	10,160.1	10,084.2	18.4	26.5	90.55	260.7	859.7	931.9	890.0	41.97	22.203	
10,200.0	10,184.2	10,260.1	10,184.2	18.4	26.5	90.55	260.7	859.7	931.9	889.8	42.09	22.141	
10,300.0	10,284.2	10,360.1	10,284.2	18.5	26.6	90.55	260.7	859.7	931.9	889.7	42.21	22.079	
10,400.0	10,384.2	10,460.1	10,384.2	18.6	26.6	90.55	260.7	859.7	931.9	889.6	42.33	22.017	
10,500.0	10,484.2	10,560.1	10,484.2	18.7	26.7	90.55	260.7	859.7	931.9	889.5	42.45	21.955	
10,600.0	10,584.2	10,660.1	10,584.2	18.7	26.7	90.55	260.7	859.7	931.9	889.4	42.57	21.893	
10,700.0	10,684.2	10,760.1	10,684.2	18.8	26.8	90.55	260.7	859.7	931.9	889.2	42.69	21.832	
10,800.0	10,784.2	10,860.1	10,784.2	18.9	26.8	90.55	260.7	859.7	931.9	889.1	42.81	21.770	
10,900.0	10,884.2	10,960.1	10,884.2	19.0	26.8	90.55	260.7	859.7	931.9	889.0	42.93	21.709	
11,000.0	10,984.2	11,060.1	10,984.2	19.0	26.9	90.55	260.7	859.7	931.9	888.9	43.05	21.649	
11,100.0	11,084.2	11,160.1	11,084.2	19.1	26.9	90.55	260.7	859.7	931.9	888.8	43.17	21.588	
11,188.3	11,172.5	11,248.4	11,172.5	19.2	27.0	90.55	260.7	859.7	931.9	888.7	43.26	21.542	
11,200.0	11,184.2	11,260.2	11,184.3	19.2	27.0	-89.96	260.5	859.7	931.9	888.7	43.26	21.541	
11,225.0	11,209.2	11,285.4	11,209.5	19.1	26.9	-89.96	259.2	859.7	931.9	888.7	43.26	21.544	
11,250.0	11,234.1	11,310.7	11,234.6	19.1	26.9	-89.96	256.6	859.6	931.9	888.7	43.24	21.551	
11,275.0	11,258.8	11,335.9	11,259.5	19.0	26.9	-89.96	252.7	859.6	931.9	888.7	43.23	21.559	
11,300.0	11,283.2	11,361.1	11,284.2	19.0	26.8	-89.96	247.4	859.5	931.9	888.7	43.21	21.567	
11,325.0	11,307.4	11,386.3	11,308.5	18.9	26.8	-89.96	240.9	859.4	931.8	888.6	43.19	21.577	
11,350.0	11,331.2	11,411.5	11,332.5	18.8	26.8	-89.96	233.1	859.3	931.8	888.6	43.17	21.586	
11,375.0	11,354.5	11,436.7	11,356.0	18.8	26.7	-89.96	224.0	859.2	931.7	888.6	43.14	21.596	
11,400.0	11,377.4	11,461.9	11,379.0	18.7	26.7	-89.96	213.7	859.0	931.7	888.6	43.12	21.606	
11,425.0	11,399.7	11,487.1	11,401.4	18.6	26.7	-89.96	202.2	858.9	931.6	888.5	43.10	21.616	
11,450.0	11,421.3	11,512.3	11,423.2	18.6	26.6	-89.96	189.6	858.7	931.6	888.5	43.08	21.625	
11,475.0	11,442.3	11,537.5	11,444.3	18.5	26.6	-89.96	175.8	858.5	931.5	888.4	43.06	21.634	
11,500.0	11,462.6	11,562.7	11,464.6	18.5	26.6	-89.96	160.9	858.3	931.4	888.4	43.04	21.643	
11,525.0	11,482.0	11,587.8	11,484.1	18.4	26.5	-89.97	145.0	858.1	931.3	888.3	43.02	21.650	
11,550.0	11,500.6	11,613.0	11,502.7	18.4	26.5	-89.97	128.1	857.8	931.3	888.3	43.00	21.656	
11,575.0	11,518.3	11,638.1	11,520.4	18.3	26.5	-89.97	110.2	857.6	931.2	888.2	42.99	21.661	
11,600.0	11,535.1	11,663.3	11,537.1	18.3	26.5	-89.97	91.5	857.3	931.1	888.1	42.98	21.664	
11,625.0	11,550.8	11,688.4	11,552.8	18.2	26.4	-89.97	71.9	857.0	931.0	888.0	42.97	21.665	
11,650.0	11,565.6	11,713.5	11,567.5	18.2	26.4	-89.97	51.5	856.8	930.9	887.9	42.97	21.664	
11,675.0	11,579.2	11,738.7	11,581.1	18.1	26.4	-89.98	30.3	856.5	930.7	887.8	42.97	21.660	
11,700.0	11,591.7	11,763.8	11,593.5	18.1	26.4	-89.98	8.5	856.2	930.6	887.7	42.98	21.654	
11,725.0	11,603.1	11,788.9	11,604.7	18.1	26.4	-89.98	-13.9	855.8	930.5	887.5	42.99	21.646	
11,750.0	11,613.3	11,814.0	11,614.8	18.1	26.4	-89.98	-36.9	855.5	930.4	887.4	43.01	21.634	
11,775.0	11,622.3	11,839.0	11,623.6	18.0	26.4	-89.98	-60.4	855.2	930.3	887.2	43.03	21.619	
11,800.0	11,630.1	11,864.1	11,631.2	18.0	26.4	-89.99	-84.2	854.9	930.1	887.1	43.06	21.602	
11,825.0	11,636.6	11,889.1	11,637.5	18.0	26.4	-89.99	-108.5	854.5	930.0	886.9	43.09	21.581	
11,850.0	11,641.8	11,914.2	11,642.6	18.0	26.4	-89.99	-133.0	854.2	929.9	886.8	43.14	21.557	
11,875.0	11,645.8	11,939.2	11,646.3	18.0	26.5	-89.99	-157.8	853.8	929.8	886.6	43.18	21.531	
11,900.0	11,648.4	11,964.2	11,648.7	18.0	26.5	-90.00	-182.7	853.5	929.6	886.4	43.24	21.501	
11,925.0	11,649.8	11,989.3	11,649.9	18.0	26.5	-90.00	-207.6	853.1	929.5	886.2	43.30	21.468	
11,938.3	11,650.0	12,002.5	11,650.0	18.0	26.5	-90.00	-220.9	853.0	929.4	886.1	43.33	21.450	
12,000.0	11,650.0	12,064.3	11,650.0	18.0	26.6	-90.00	-282.6	852.1	929.1	885.6	43.52	21.349	
12,100.0	11,650.0	12,164.3	11,650.0	18.1	26.8	-90.00	-382.6	850.7	928.6	884.7	43.89	21.156	
12,200.0	11,650.0	12,264.3	11,650.0	18.1	27.0	-90.00	-482.6	849.3	928.1	883.7	44.34	20.929	
12,300.0	11,650.0	12,364.3	11,650.0	18.2	27.2	-90.00	-582.6	847.9	927.6	882.7	44.87	20.672	
12,400.0	11,650.0	12,464.2	11,650.0	18.4	27.5	-90.00	-682.6	846.5	927.0	881.6	45.47	20.387	
12,500.0	11,650.0	12,564.2	11,650.0	18.6	27.8	-90.00	-782.6	845.1	926.5	880.4	46.14	20.080	

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

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Anticollision Report

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Project:	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 706H	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)				
12,600.0	11,650.0	12,664.2	11,650.0	18.9	28.1	-90.00	-882.6	843.7	926.0	879.1	46.88	19.753
12,700.0	11,650.0	12,764.2	11,650.0	19.3	28.4	-90.00	-982.5	842.3	925.5	877.8	47.68	19.410
12,800.0	11,650.0	12,864.2	11,650.0	19.8	28.8	-90.00	-1,082.5	840.9	924.9	876.4	48.54	19.054
12,900.0	11,650.0	12,964.2	11,650.0	20.3	29.2	-90.00	-1,182.5	839.5	924.4	875.0	49.46	18.689
13,000.0	11,650.0	13,064.2	11,650.0	20.9	29.6	-90.00	-1,282.5	838.1	923.9	873.5	50.44	18.318
13,100.0	11,650.0	13,164.2	11,650.0	21.5	30.0	-90.00	-1,382.5	836.7	923.4	871.9	51.46	17.942
13,200.0	11,650.0	13,264.2	11,650.0	22.2	30.5	-90.00	-1,482.5	835.3	922.9	870.3	52.54	17.566
13,300.0	11,650.0	13,364.2	11,650.0	22.8	31.0	-90.00	-1,582.5	833.9	922.3	868.7	53.66	17.189
13,400.0	11,650.0	13,464.2	11,650.0	23.5	31.5	-90.00	-1,682.5	832.5	921.8	867.0	54.82	16.815
13,500.0	11,650.0	13,564.2	11,650.0	24.2	32.0	-90.00	-1,782.5	831.1	921.3	865.3	56.02	16.445
13,600.0	11,650.0	13,664.2	11,650.0	24.9	32.6	-90.00	-1,882.4	829.8	920.8	863.5	57.26	16.080
13,700.0	11,650.0	13,764.2	11,650.0	25.7	33.1	-90.00	-1,982.4	828.4	920.2	861.7	58.53	15.721
13,800.0	11,650.0	13,864.2	11,650.0	26.4	33.7	-90.00	-2,082.4	827.0	919.7	859.9	59.84	15.369
13,900.0	11,650.0	13,964.2	11,650.0	27.2	34.3	-90.00	-2,182.4	825.6	919.2	858.0	61.18	15.025
14,000.0	11,650.0	14,064.2	11,650.0	28.0	34.9	-90.00	-2,282.4	824.2	918.7	856.1	62.55	14.688
14,100.0	11,650.0	14,164.2	11,650.0	28.8	35.6	-90.00	-2,382.4	822.8	918.2	854.2	63.94	14.360
14,200.0	11,650.0	14,264.2	11,650.0	29.6	36.2	-90.00	-2,482.4	821.4	917.6	852.3	65.36	14.040
14,300.0	11,650.0	14,364.2	11,650.0	30.4	36.9	-90.00	-2,582.4	820.0	917.1	850.3	66.80	13.730
14,400.0	11,650.0	14,464.2	11,650.0	31.2	37.6	-90.00	-2,682.4	818.6	916.6	848.3	68.26	13.428
14,500.0	11,650.0	14,564.2	11,650.0	32.1	38.2	-90.00	-2,782.3	817.2	916.1	846.3	69.75	13.135
14,600.0	11,650.0	14,664.2	11,650.0	32.9	38.9	-90.00	-2,882.3	815.8	915.6	844.3	71.25	12.850
14,700.0	11,650.0	14,764.2	11,650.0	33.7	39.6	-90.00	-2,982.3	814.4	915.0	842.3	72.77	12.574
14,800.0	11,650.0	14,864.2	11,650.0	34.6	40.3	-90.00	-3,082.3	813.0	914.5	840.2	74.31	12.307
14,900.0	11,650.0	14,964.2	11,650.0	35.4	41.1	-90.00	-3,182.3	811.6	914.0	838.1	75.86	12.048
15,000.0	11,650.0	15,064.2	11,650.0	36.3	41.8	-90.00	-3,282.3	810.2	913.5	836.0	77.43	11.797
15,100.0	11,650.0	15,164.2	11,650.0	37.1	42.6	-90.00	-3,382.3	808.8	912.9	833.9	79.01	11.554
15,200.0	11,650.0	15,264.2	11,650.0	38.0	43.3	-90.00	-3,482.3	807.4	912.4	831.8	80.61	11.319
15,300.0	11,650.0	15,364.2	11,650.0	38.9	44.1	-90.00	-3,582.3	806.0	911.9	829.7	82.22	11.091
15,400.0	11,650.0	15,464.2	11,650.0	39.8	44.8	-90.00	-3,682.2	804.6	911.4	827.5	83.84	10.871
15,500.0	11,650.0	15,564.2	11,650.0	40.6	45.6	-90.00	-3,782.2	803.2	910.9	825.4	85.47	10.657
15,600.0	11,650.0	15,664.2	11,650.0	41.5	46.4	-90.00	-3,882.2	801.8	910.3	823.2	87.11	10.450
15,700.0	11,650.0	15,764.2	11,650.0	42.4	47.2	-90.00	-3,982.2	800.4	909.8	821.0	88.76	10.250
15,800.0	11,650.0	15,864.2	11,650.0	43.3	48.0	-90.00	-4,082.2	799.0	909.3	818.9	90.43	10.056
15,900.0	11,650.0	15,964.2	11,650.0	44.2	48.8	-90.00	-4,182.2	797.6	908.8	816.7	92.09	9.868
16,000.0	11,650.0	16,064.2	11,650.0	45.1	49.6	-90.00	-4,282.2	796.2	908.2	814.5	93.77	9.686
16,100.0	11,650.0	16,164.2	11,650.0	46.0	50.4	-90.00	-4,382.2	794.9	907.7	812.3	95.46	9.509
16,200.0	11,650.0	16,264.2	11,650.0	46.9	51.2	-90.00	-4,482.2	793.5	907.2	810.1	97.15	9.338
16,300.0	11,650.0	16,364.2	11,650.0	47.8	52.0	-90.00	-4,582.1	792.1	906.7	807.8	98.85	9.172
16,400.0	11,650.0	16,464.2	11,650.0	48.7	52.8	-90.00	-4,682.1	790.7	906.2	805.6	100.56	9.011
16,500.0	11,650.0	16,564.2	11,650.0	49.6	53.7	-90.00	-4,782.1	789.3	905.6	803.4	102.27	8.855
16,600.0	11,650.0	16,664.2	11,650.0	50.5	54.5	-90.00	-4,882.1	787.9	905.1	801.1	103.99	8.704
16,700.0	11,650.0	16,764.2	11,650.0	51.4	55.3	-90.00	-4,982.1	786.5	904.6	798.9	105.72	8.557
16,800.0	11,650.0	16,864.2	11,650.0	52.3	56.2	-90.00	-5,082.1	785.1	904.1	796.6	107.45	8.414
16,900.0	11,650.0	16,964.2	11,650.0	53.2	57.0	-90.00	-5,182.1	783.7	903.6	794.4	109.19	8.275
17,000.0	11,650.0	17,064.2	11,650.0	54.2	57.9	-90.00	-5,282.1	782.3	903.0	792.1	110.93	8.141
17,100.0	11,650.0	17,164.2	11,650.0	55.1	58.7	-90.00	-5,382.1	780.9	902.5	789.8	112.67	8.010
17,200.0	11,650.0	17,264.2	11,650.0	56.0	59.6	-90.00	-5,482.0	779.5	902.0	787.6	114.42	7.883
17,300.0	11,650.0	17,364.2	11,650.0	56.9	60.5	-90.00	-5,582.0	778.1	901.5	785.3	116.18	7.759
17,400.0	11,650.0	17,464.2	11,650.0	57.8	61.3	-90.00	-5,682.0	776.7	900.9	783.0	117.94	7.639
17,500.0	11,650.0	17,564.2	11,650.0	58.8	62.2	-90.00	-5,782.0	775.3	900.4	780.7	119.70	7.522
17,600.0	11,650.0	17,664.2	11,650.0	59.7	63.0	-90.00	-5,882.0	773.9	899.9	778.4	121.47	7.409

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 708H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
17,700.0	11,650.0	17,764.2	11,650.0	60.6	63.9	-90.00	-5,982.0	772.5	899.4	776.1	123.24	7.298
17,800.0	11,650.0	17,864.2	11,650.0	61.5	64.8	-90.00	-6,082.0	771.1	898.9	773.8	125.01	7.190
17,900.0	11,650.0	17,964.2	11,650.0	62.5	65.7	-90.00	-6,182.0	769.7	898.3	771.6	126.79	7.085
18,000.0	11,650.0	18,064.2	11,650.0	63.4	66.5	-90.00	-6,282.0	768.3	897.8	769.2	128.57	6.983
18,100.0	11,650.0	18,164.2	11,650.0	64.3	67.4	-90.00	-6,381.9	766.9	897.3	766.9	130.35	6.884
18,200.0	11,650.0	18,264.2	11,650.0	65.2	68.3	-90.00	-6,481.9	765.5	896.8	764.6	132.14	6.787
18,300.0	11,650.0	18,364.2	11,650.0	66.2	69.2	-90.00	-6,581.9	764.1	896.3	762.3	133.92	6.692
18,400.0	11,650.0	18,464.2	11,650.0	67.1	70.1	-90.00	-6,681.9	762.7	895.7	760.0	135.72	6.600
18,500.0	11,650.0	18,564.2	11,650.0	68.0	71.0	-90.00	-6,781.9	761.3	895.2	757.7	137.51	6.510
18,600.0	11,650.0	18,664.2	11,650.0	69.0	71.8	-90.00	-6,881.9	760.0	894.7	755.4	139.31	6.422
18,700.0	11,650.0	18,764.2	11,650.0	69.9	72.7	-90.00	-6,981.9	758.6	894.2	753.1	141.11	6.337
18,800.0	11,650.0	18,864.2	11,650.0	70.8	73.6	-90.00	-7,081.9	757.2	893.6	750.7	142.91	6.253
18,900.0	11,650.0	18,964.2	11,650.0	71.8	74.5	-90.00	-7,181.9	755.8	893.1	748.4	144.71	6.172
19,000.0	11,650.0	19,064.2	11,650.0	72.7	75.4	-90.00	-7,281.8	754.4	892.6	746.1	146.52	6.092
19,100.0	11,650.0	19,164.2	11,650.0	73.6	76.3	-90.00	-7,381.8	753.0	892.1	743.8	148.32	6.014
19,136.6	11,650.0	19,196.1	11,650.0	74.0	76.6	-90.00	-7,413.8	752.5	891.9	742.9	148.96	5.988
19,149.0	11,650.0	19,196.1	11,650.0	74.1	76.6	-90.00	-7,413.8	752.5	892.0	742.9	149.11	5.982

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset 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	89.20	1.3	90.0	90.0	83.6	6.43	13.999
100.0	100.0	100.0	100.0	3.2	3.2	89.20	1.3	90.0	90.0	83.1	6.89	13.058
200.0	200.0	200.0	200.0	3.5	3.5	89.20	1.3	90.0	90.0	82.7	7.33	12.281
300.0	300.0	300.0	300.0	3.7	3.7	89.20	1.3	90.0	90.0	82.3	7.74	11.626
400.0	400.0	400.0	400.0	3.9	3.9	89.20	1.3	90.0	90.0	81.9	8.14	11.063
500.0	500.0	500.0	500.0	4.1	4.1	89.20	1.3	90.0	90.0	81.5	8.51	10.571
600.0	600.0	600.0	600.0	4.2	4.2	89.20	1.3	90.0	90.0	81.1	8.88	10.138
700.0	700.0	700.0	700.0	4.4	4.4	89.20	1.3	90.0	90.0	80.8	9.23	9.751
800.0	800.0	800.0	800.0	4.6	4.6	89.20	1.3	90.0	90.0	80.4	9.57	9.404
900.0	900.0	900.0	900.0	4.8	4.8	89.20	1.3	90.0	90.0	80.1	9.90	9.089
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.20	1.3	90.0	90.0	79.8	10.22	8.802 CC, ES
1,100.0	1,100.0	1,097.0	1,097.0	5.1	5.2	88.97	1.6	91.6	91.6	81.0	10.62	8.633 SF
1,200.0	1,200.0	1,193.8	1,193.6	5.2	5.4	88.31	2.8	96.3	96.6	85.6	11.00	8.784
1,300.0	1,300.0	1,290.1	1,289.6	5.4	5.7	87.36	4.8	104.2	104.9	93.5	11.38	9.213
1,400.0	1,400.0	1,385.8	1,384.6	5.5	6.0	86.26	7.5	115.2	116.4	104.7	11.77	9.891
1,500.0	1,500.0	1,480.6	1,478.3	5.7	6.2	85.13	11.0	129.0	131.3	119.1	12.17	10.789
1,600.0	1,600.0	1,574.3	1,570.5	5.9	6.5	99.34	15.1	145.7	149.7	137.1	12.57	11.905
1,700.0	1,699.8	1,666.7	1,660.7	6.2	6.8	99.53	19.9	164.9	171.8	158.8	12.92	13.290
1,800.0	1,799.5	1,763.1	1,754.4	6.4	7.1	100.48	25.4	186.7	196.3	183.0	13.33	14.726
1,850.0	1,849.1	1,811.4	1,801.4	6.5	7.2	101.19	28.1	197.7	208.9	195.4	13.52	15.447
1,900.0	1,898.8	1,859.6	1,848.3	6.6	7.4	102.16	30.8	208.6	221.6	207.9	13.72	16.153
2,000.0	1,998.0	1,956.0	1,942.1	6.8	7.7	103.79	36.3	230.5	247.1	233.0	14.18	17.431
2,100.0	2,097.3	2,052.5	2,035.9	7.0	8.0	105.12	41.7	252.3	272.8	258.2	14.66	18.617
2,200.0	2,196.5	2,149.0	2,129.6	7.3	8.4	106.22	47.2	274.2	298.7	283.5	15.15	19.717
2,300.0	2,295.8	2,245.4	2,223.4	7.5	8.7	107.14	52.6	296.0	324.6	308.9	15.65	20.734
2,400.0	2,395.0	2,341.9	2,317.2	7.8	9.1	107.93	58.1	317.9	350.6	334.4	16.17	21.674
2,500.0	2,494.3	2,438.4	2,411.0	8.1	9.5	108.61	63.5	339.7	376.6	359.9	16.71	22.543
2,600.0	2,593.5	2,534.8	2,504.8	8.4	9.9	109.21	69.0	361.6	402.7	385.4	17.25	23.346
2,700.0	2,692.8	2,631.3	2,598.6	8.7	10.3	109.73	74.4	383.4	428.8	411.0	17.80	24.089
2,800.0	2,792.0	2,727.7	2,692.4	9.0	10.7	110.19	79.9	405.3	454.9	436.6	18.36	24.777
2,900.0	2,891.3	2,824.2	2,786.2	9.4	11.1	110.60	85.3	427.1	481.1	462.1	18.93	25.414
3,000.0	2,990.6	2,920.7	2,880.0	9.7	11.5	110.96	90.8	449.0	507.3	487.8	19.51	26.005
3,100.0	3,089.8	3,017.1	2,973.8	10.0	11.9	111.30	96.2	470.8	533.5	513.4	20.09	26.554
3,200.0	3,189.1	3,113.6	3,067.6	10.4	12.3	111.60	101.6	492.7	559.7	539.0	20.68	27.065
3,300.0	3,288.3	3,210.1	3,161.4	10.7	12.7	111.87	107.1	514.5	585.9	564.6	21.27	27.540
3,400.0	3,387.6	3,306.5	3,255.2	11.1	13.1	112.12	112.5	536.4	612.1	590.3	21.88	27.983
3,500.0	3,486.8	3,403.0	3,349.0	11.5	13.6	112.35	118.0	558.2	638.4	615.9	22.48	28.396
3,600.0	3,586.1	3,499.4	3,442.8	11.8	14.0	112.56	123.4	580.1	664.7	641.6	23.09	28.783
3,614.0	3,600.0	3,513.0	3,456.0	11.9	14.1	112.59	124.2	583.1	668.3	645.2	23.17	28.843
3,700.0	3,685.4	3,596.0	3,536.7	12.2	14.4	112.92	128.9	601.9	690.7	667.0	23.71	29.134
3,800.0	3,784.9	3,692.7	3,630.7	12.6	14.9	113.17	134.4	623.8	716.1	691.7	24.33	29.435
3,900.0	3,884.6	3,789.6	3,724.9	12.9	15.3	113.27	139.8	645.8	740.8	715.8	24.95	29.689
4,000.0	3,984.4	3,886.6	3,819.3	13.2	15.7	113.26	145.3	667.7	764.8	739.3	25.58	29.900
4,100.0	4,084.3	3,983.7	3,913.7	13.5	16.2	113.13	150.8	689.7	788.2	762.0	26.21	30.074
4,200.0	4,184.2	4,080.9	4,008.2	13.8	16.6	112.91	156.3	711.8	811.0	784.2	26.84	30.214
4,300.0	4,284.2	4,178.1	4,102.7	14.1	17.1	112.59	161.8	733.8	833.2	805.7	27.47	30.328
4,314.0	4,298.3	4,191.8	4,116.0	14.1	17.1	97.53	162.5	736.9	836.2	808.7	27.55	30.351
4,400.0	4,384.2	4,275.4	4,197.3	14.1	17.5	97.04	167.3	755.8	855.0	826.9	28.09	30.440
4,500.0	4,484.2	4,372.6	4,291.8	14.2	18.0	96.50	172.8	777.8	876.9	848.2	28.71	30.545
4,600.0	4,584.2	4,469.8	4,386.4	14.3	18.4	95.98	178.2	799.9	898.9	869.6	29.33	30.642
4,700.0	4,684.2	4,567.1	4,480.9	14.4	18.9	95.48	183.7	821.9	920.9	891.0	29.97	30.733

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - _ZIA HILLS UNIT 2531 WC 709H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Rule Assigned:										Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.0	4,784.2	4,664.3	4,575.5	14.4	19.3	95.01	189.2	843.9	943.0	912.4	30.60	30.818		
4,900.0	4,884.2	4,761.6	4,670.0	14.5	19.8	94.56	194.7	865.9	965.2	934.0	31.24	30.897		
5,000.0	4,984.2	4,858.8	4,764.6	14.6	20.2	94.13	200.2	888.0	987.4	955.5	31.88	30.972		

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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 FEDERAL #1H (P&A) - ST01 - AWP													Offset Site Error: 0.0 usft	
Survey Program: 100-SDI_KPR_WL_NS-CT, 8346-MWD - OWSG R1													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis				Rule Assigned:						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
8,800.0	8,784.2	13,450.0	9,020.8	17.4	79.8	-123.29	-259.5	-877.8	992.4	896.7	95.72	10.368		
8,900.0	8,884.2	13,450.0	9,020.8	17.5	79.8	-123.29	-259.5	-877.8	973.5	876.5	96.93	10.043		
9,000.0	8,984.2	13,450.0	9,020.8	17.5	79.8	-123.29	-259.5	-877.8	964.5	867.0	97.54	9.888		
9,036.6	9,020.8	13,450.0	9,020.8	17.6	79.8	-123.29	-259.5	-877.8	963.8	866.2	97.61	9.874	CC, ES, SF	
9,100.0	9,084.2	13,450.0	9,020.8	17.6	79.8	-123.29	-259.5	-877.8	965.9	868.4	97.52	9.905		
9,200.0	9,184.2	13,450.0	9,020.8	17.7	79.8	-123.29	-259.5	-877.8	977.6	880.7	96.86	10.092		
9,300.0	9,284.2	13,450.0	9,020.8	17.8	79.8	-123.29	-259.5	-877.8	999.2	903.5	95.66	10.445		

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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - HANSON FEDERAL BATTERY 1 #13 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		100-INC-ONLY						Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	30.8	3.0	3.0	103.19	-226.4	966.1	992.8	986.2	6.56	151.425		
100.0	100.0	69.2	100.0	3.2	3.3	103.19	-226.4	966.1	992.3	985.3	7.05	140.767		
181.0	181.0	150.2	181.0	3.4	4.5	103.17	-226.2	966.1	992.3	983.8	8.49	116.877		
200.0	200.0	168.4	199.3	3.5	4.9	103.18	-226.2	966.1	992.3	983.3	8.99	110.378		
280.8	280.8	250.0	280.7	3.6	7.0	103.15	-225.7	966.1	992.2	980.6	11.58	85.704		
300.0	300.0	267.2	298.0	3.7	7.4	103.15	-225.8	966.1	992.2	980.0	12.18	81.432		
400.0	400.0	368.6	399.3	3.9	10.3	103.18	-226.2	966.1	992.3	976.3	15.94	62.267		
480.6	480.6	450.0	480.6	4.0	12.6	103.15	-225.7	966.1	992.2	973.1	19.10	51.941		
500.0	500.0	467.3	497.9	4.1	13.1	103.15	-225.8	966.1	992.2	972.4	19.79	50.135		
600.0	600.0	568.7	599.3	4.2	16.1	103.18	-226.2	966.1	992.3	968.4	23.84	41.617		
680.5	680.5	650.0	680.5	4.4	18.5	103.15	-225.7	966.1	992.2	965.0	27.13	36.565		
700.0	700.0	667.5	697.9	4.4	19.0	103.15	-225.8	966.1	992.2	964.3	27.85	35.630		
800.0	800.0	768.8	799.3	4.6	22.0	103.18	-226.2	966.1	992.3	960.3	31.99	31.018		
880.4	880.4	850.0	880.4	4.7	24.4	103.15	-225.7	966.1	992.2	956.8	35.32	28.088		
900.0	900.0	867.6	897.9	4.8	24.9	103.15	-225.8	966.1	992.2	956.1	36.05	27.524		
1,000.0	1,000.0	968.9	999.3	4.9	27.9	103.18	-226.2	966.1	992.3	952.2	40.10	24.746		
1,080.2	1,080.2	1,050.0	1,080.2	5.1	30.4	103.15	-225.7	966.1	992.2	948.7	43.45	22.836		
1,100.0	1,100.0	1,067.7	1,097.9	5.1	30.9	103.15	-225.8	966.1	992.2	948.0	44.18	22.457		
1,200.0	1,200.0	1,169.1	1,199.2	5.2	33.9	103.18	-226.2	966.1	992.3	943.9	48.38	20.509		
1,280.1	1,280.1	1,250.0	1,280.1	5.4	36.3	103.15	-225.7	966.1	992.2	940.4	51.74	19.177		
1,300.0	1,300.0	1,267.8	1,297.9	5.4	36.9	103.15	-225.8	966.1	992.2	939.7	52.48	18.906		
1,400.0	1,400.0	1,369.2	1,399.2	5.5	39.9	103.18	-226.2	966.1	992.3	935.6	56.69	17.503		
1,479.9	1,479.9	1,450.0	1,479.9	5.7	42.3	103.15	-225.7	966.1	992.2	932.1	60.05	16.523	CC	
1,500.0	1,500.0	1,467.9	1,497.9	5.7	42.8	103.16	-225.8	966.1	992.2	931.4	60.79	16.320		
1,600.0	1,600.0	1,569.3	1,599.2	5.9	45.9	118.25	-226.2	966.1	993.1	928.1	65.02	15.275		
1,700.0	1,699.8	1,667.8	1,697.7	6.2	48.8	118.44	-225.8	966.1	995.5	926.4	69.12	14.402	ES	
1,800.0	1,799.5	1,768.9	1,798.7	6.4	51.8	118.83	-226.2	966.1	999.8	926.4	73.33	13.633	SF	

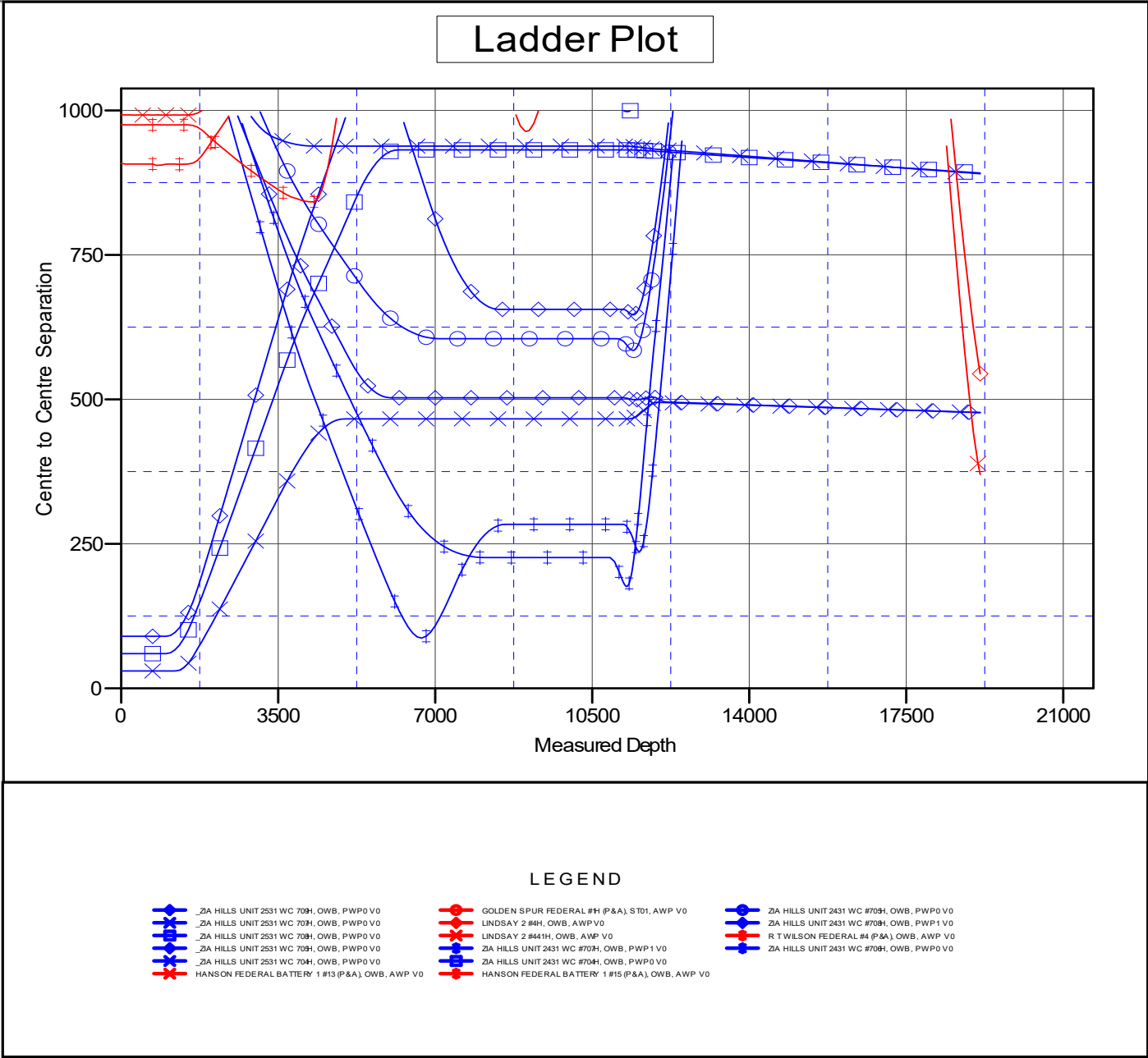
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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 706H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°



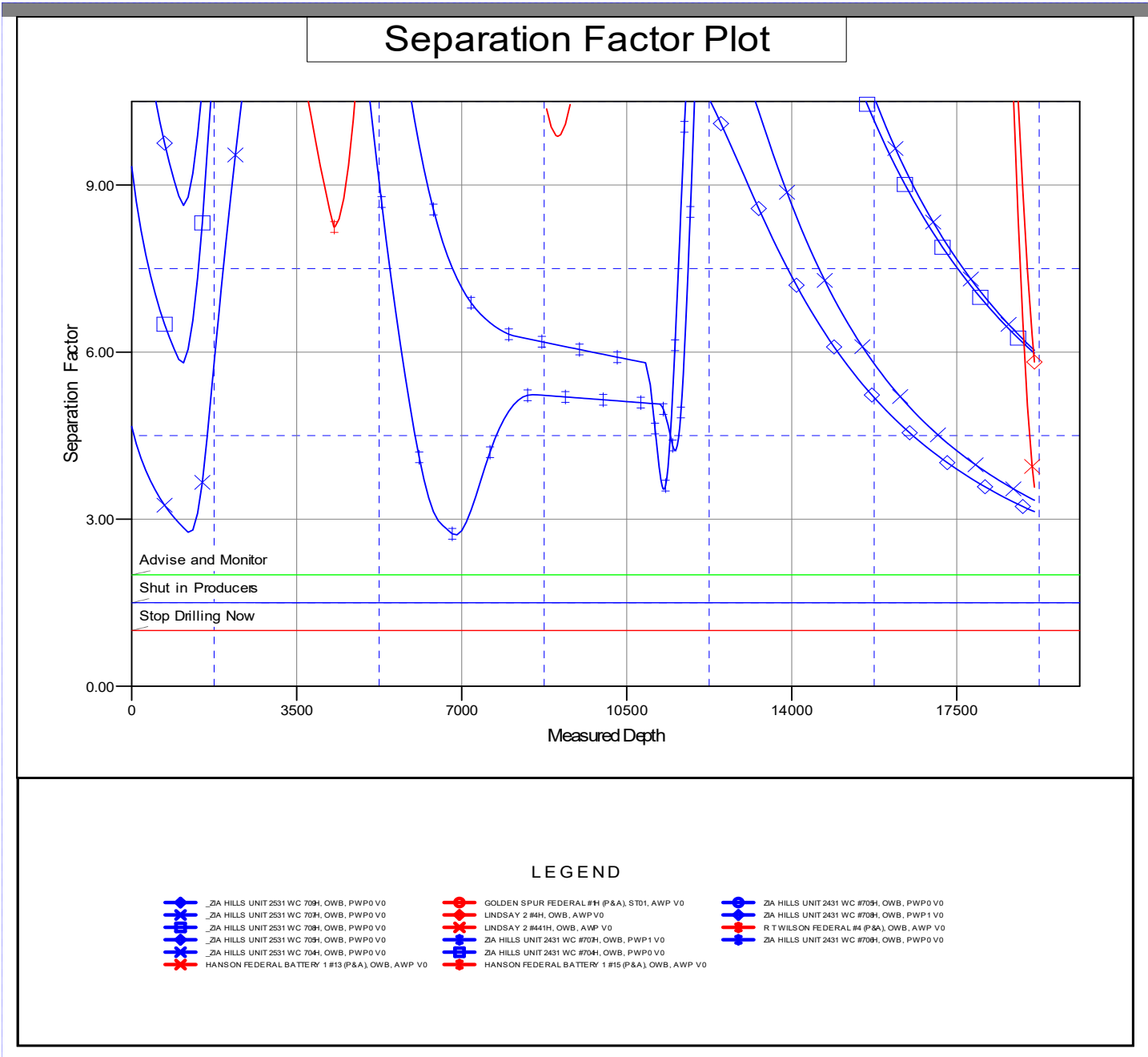
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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 706H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°



DELAWARE BASIN EAST

ZIA HILLS UNIT AREA

ZIA HILLS UNIT 2531 PROJECT

_ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H

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 706H - Slot ZHU 2531 WC #706H
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 706H	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	47,301.08096692

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	181.08

Plan Survey Tool Program	Date	12/11/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,149.0 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	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,850.0	7.00	345.00	1,849.1	20.6	-5.5	2.00	2.00	0.00	345.00	
3,614.0	7.00	345.00	3,600.0	228.3	-61.2	0.00	0.00	0.00	0.00	
4,314.0	0.00	0.00	4,298.3	269.5	-72.2	1.00	-1.00	0.00	180.00	
11,188.3	0.00	0.00	11,172.5	269.5	-72.2	0.00	0.00	0.00	0.00	
11,938.3	90.00	180.50	11,650.0	-207.9	-76.4	12.00	12.00	-23.93	180.50	
19,149.0	90.00	180.50	11,650.0	-7,418.4	-139.4	0.00	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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	2.00	345.00	1,600.0	1.7	-0.5	-1.7	2.00	2.00	0.00	
1,700.0	4.00	345.00	1,699.8	6.7	-1.8	-6.7	2.00	2.00	0.00	
1,800.0	6.00	345.00	1,799.5	15.2	-4.1	-15.1	2.00	2.00	0.00	
1,850.0	7.00	345.00	1,849.1	20.6	-5.5	-20.5	2.00	2.00	0.00	
1,900.0	7.00	345.00	1,898.8	26.5	-7.1	-26.4	0.00	0.00	0.00	
2,000.0	7.00	345.00	1,998.0	38.3	-10.3	-38.1	0.00	0.00	0.00	
2,100.0	7.00	345.00	2,097.3	50.1	-13.4	-49.8	0.00	0.00	0.00	
2,200.0	7.00	345.00	2,196.5	61.8	-16.6	-61.5	0.00	0.00	0.00	
2,300.0	7.00	345.00	2,295.8	73.6	-19.7	-73.2	0.00	0.00	0.00	
2,400.0	7.00	345.00	2,395.0	85.4	-22.9	-84.9	0.00	0.00	0.00	
2,500.0	7.00	345.00	2,494.3	97.1	-26.0	-96.6	0.00	0.00	0.00	
2,600.0	7.00	345.00	2,593.5	108.9	-29.2	-108.3	0.00	0.00	0.00	
2,700.0	7.00	345.00	2,692.8	120.7	-32.3	-120.1	0.00	0.00	0.00	
2,800.0	7.00	345.00	2,792.0	132.5	-35.5	-131.8	0.00	0.00	0.00	
2,900.0	7.00	345.00	2,891.3	144.2	-38.6	-143.5	0.00	0.00	0.00	
3,000.0	7.00	345.00	2,990.6	156.0	-41.8	-155.2	0.00	0.00	0.00	
3,100.0	7.00	345.00	3,089.8	167.8	-45.0	-166.9	0.00	0.00	0.00	
3,200.0	7.00	345.00	3,189.1	179.5	-48.1	-178.6	0.00	0.00	0.00	
3,300.0	7.00	345.00	3,288.3	191.3	-51.3	-190.3	0.00	0.00	0.00	
3,400.0	7.00	345.00	3,387.6	203.1	-54.4	-202.0	0.00	0.00	0.00	
3,500.0	7.00	345.00	3,486.8	214.9	-57.6	-213.7	0.00	0.00	0.00	
3,600.0	7.00	345.00	3,586.1	226.6	-60.7	-225.4	0.00	0.00	0.00	
3,614.0	7.00	345.00	3,600.0	228.3	-61.2	-227.1	0.00	0.00	0.00	
3,700.0	6.14	345.00	3,685.4	237.8	-63.7	-236.5	1.00	-1.00	0.00	
3,800.0	5.14	345.00	3,784.9	247.3	-66.3	-246.0	1.00	-1.00	0.00	
3,900.0	4.14	345.00	3,884.6	255.1	-68.4	-253.8	1.00	-1.00	0.00	
4,000.0	3.14	345.00	3,984.4	261.2	-70.0	-259.9	1.00	-1.00	0.00	
4,100.0	2.14	345.00	4,084.3	265.7	-71.2	-264.3	1.00	-1.00	0.00	
4,200.0	1.14	345.00	4,184.2	268.4	-71.9	-267.0	1.00	-1.00	0.00	
4,300.0	0.14	345.00	4,284.2	269.5	-72.2	-268.1	1.00	-1.00	0.00	
4,314.0	0.00	0.00	4,298.3	269.5	-72.2	-268.1	1.00	-1.00	0.00	
4,400.0	0.00	0.00	4,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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)	
5,000.0	0.00	0.00	4,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,184.2	269.5	-72.2	-268.1	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well _ZIA HILLS UNIT 2531 WC 706H - Slot ZHU 2531 WC #706H
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 706H	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	10,284.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,384.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,484.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,584.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,684.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,784.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,884.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,984.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,084.2	269.5	-72.2	-268.1	0.00	0.00	0.00	
11,188.3	0.00	0.00	11,172.5	269.5	-72.2	-268.1	0.00	0.00	0.00	
11,200.0	1.41	180.50	11,184.2	269.4	-72.2	-268.0	12.00	12.00	0.00	
11,225.0	4.41	180.50	11,209.2	268.1	-72.2	-266.7	12.00	12.00	0.00	
11,250.0	7.41	180.50	11,234.1	265.5	-72.3	-264.1	12.00	12.00	0.00	
11,275.0	10.41	180.50	11,258.8	261.7	-72.3	-260.3	12.00	12.00	0.00	
11,300.0	13.41	180.50	11,283.2	256.5	-72.3	-255.1	12.00	12.00	0.00	
11,325.0	16.41	180.50	11,307.4	250.1	-72.4	-248.7	12.00	12.00	0.00	
11,350.0	19.41	180.50	11,331.2	242.4	-72.5	-241.0	12.00	12.00	0.00	
11,375.0	22.41	180.50	11,354.5	233.5	-72.5	-232.1	12.00	12.00	0.00	
11,400.0	25.41	180.50	11,377.4	223.3	-72.6	-221.9	12.00	12.00	0.00	
11,425.0	28.41	180.50	11,399.7	212.0	-72.7	-210.6	12.00	12.00	0.00	
11,450.0	31.41	180.50	11,421.3	199.6	-72.8	-198.2	12.00	12.00	0.00	
11,475.0	34.41	180.50	11,442.3	186.0	-73.0	-184.6	12.00	12.00	0.00	
11,500.0	37.41	180.50	11,462.6	171.3	-73.1	-169.9	12.00	12.00	0.00	
11,525.0	40.41	180.50	11,482.0	155.6	-73.2	-154.2	12.00	12.00	0.00	
11,550.0	43.41	180.50	11,500.6	138.9	-73.4	-137.5	12.00	12.00	0.00	
11,575.0	46.41	180.50	11,518.3	121.3	-73.5	-119.9	12.00	12.00	0.00	
11,600.0	49.41	180.50	11,535.1	102.7	-73.7	-101.3	12.00	12.00	0.00	
11,625.0	52.41	180.50	11,550.8	83.3	-73.8	-81.9	12.00	12.00	0.00	
11,650.0	55.41	180.50	11,565.6	63.1	-74.0	-61.7	12.00	12.00	0.00	
11,675.0	58.41	180.50	11,579.2	42.2	-74.2	-40.8	12.00	12.00	0.00	
11,700.0	61.41	180.50	11,591.7	20.6	-74.4	-19.2	12.00	12.00	0.00	
11,725.0	64.41	180.50	11,603.1	-1.7	-74.6	3.1	12.00	12.00	0.00	
11,750.0	67.41	180.50	11,613.3	-24.5	-74.8	25.9	12.00	12.00	0.00	
11,775.0	70.41	180.50	11,622.3	-47.8	-75.0	49.2	12.00	12.00	0.00	
11,800.0	73.41	180.50	11,630.1	-71.6	-75.2	73.0	12.00	12.00	0.00	
11,825.0	76.41	180.50	11,636.6	-95.7	-75.4	97.1	12.00	12.00	0.00	
11,850.0	79.41	180.50	11,641.8	-120.2	-75.6	121.6	12.00	12.00	0.00	
11,875.0	82.41	180.50	11,645.8	-144.8	-75.8	146.2	12.00	12.00	0.00	
11,900.0	85.41	180.50	11,648.4	-169.7	-76.1	171.1	12.00	12.00	0.00	
11,925.0	88.41	180.50	11,649.8	-194.7	-76.3	196.1	12.00	12.00	0.00	
11,938.3	90.00	180.50	11,650.0	-207.9	-76.4	209.3	12.00	12.00	0.00	
12,000.0	90.00	180.50	11,650.0	-269.7	-76.9	271.1	0.00	0.00	0.00	
12,100.0	90.00	180.50	11,650.0	-369.6	-77.8	371.0	0.00	0.00	0.00	
12,200.0	90.00	180.50	11,650.0	-469.6	-78.7	471.0	0.00	0.00	0.00	
12,300.0	90.00	180.50	11,650.0	-569.6	-79.6	571.0	0.00	0.00	0.00	
12,400.0	90.00	180.50	11,650.0	-669.6	-80.4	671.0	0.00	0.00	0.00	
12,500.0	90.00	180.50	11,650.0	-769.6	-81.3	771.0	0.00	0.00	0.00	
12,600.0	90.00	180.50	11,650.0	-869.6	-82.2	871.0	0.00	0.00	0.00	
12,700.0	90.00	180.50	11,650.0	-969.6	-83.1	971.0	0.00	0.00	0.00	
12,800.0	90.00	180.50	11,650.0	-1,069.6	-83.9	1,071.0	0.00	0.00	0.00	
12,900.0	90.00	180.50	11,650.0	-1,169.6	-84.8	1,171.0	0.00	0.00	0.00	
13,000.0	90.00	180.50	11,650.0	-1,269.6	-85.7	1,271.0	0.00	0.00	0.00	
13,100.0	90.00	180.50	11,650.0	-1,369.6	-86.6	1,371.0	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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

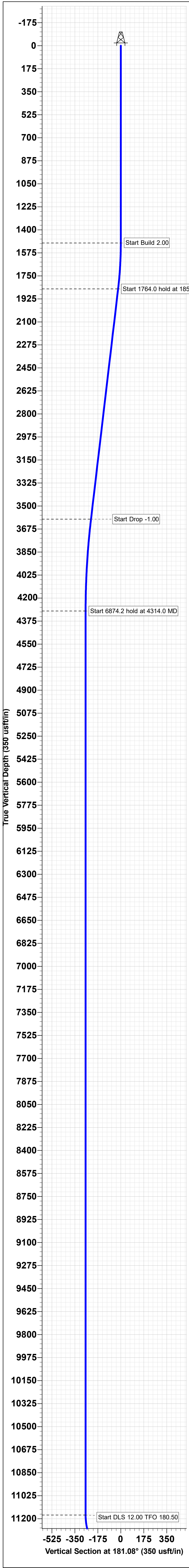
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,200.0	90.00	180.50	11,650.0	-1,469.6	-87.4	1,471.0	0.00	0.00	0.00	
13,300.0	90.00	180.50	11,650.0	-1,569.6	-88.3	1,571.0	0.00	0.00	0.00	
13,400.0	90.00	180.50	11,650.0	-1,669.6	-89.2	1,671.0	0.00	0.00	0.00	
13,500.0	90.00	180.50	11,650.0	-1,769.6	-90.1	1,771.0	0.00	0.00	0.00	
13,600.0	90.00	180.50	11,650.0	-1,869.6	-90.9	1,871.0	0.00	0.00	0.00	
13,700.0	90.00	180.50	11,650.0	-1,969.6	-91.8	1,971.0	0.00	0.00	0.00	
13,800.0	90.00	180.50	11,650.0	-2,069.6	-92.7	2,071.0	0.00	0.00	0.00	
13,900.0	90.00	180.50	11,650.0	-2,169.6	-93.6	2,171.0	0.00	0.00	0.00	
14,000.0	90.00	180.50	11,650.0	-2,269.6	-94.4	2,270.9	0.00	0.00	0.00	
14,100.0	90.00	180.50	11,650.0	-2,369.6	-95.3	2,370.9	0.00	0.00	0.00	
14,200.0	90.00	180.50	11,650.0	-2,469.6	-96.2	2,470.9	0.00	0.00	0.00	
14,300.0	90.00	180.50	11,650.0	-2,569.6	-97.0	2,570.9	0.00	0.00	0.00	
14,400.0	90.00	180.50	11,650.0	-2,669.6	-97.9	2,670.9	0.00	0.00	0.00	
14,500.0	90.00	180.50	11,650.0	-2,769.6	-98.8	2,770.9	0.00	0.00	0.00	
14,600.0	90.00	180.50	11,650.0	-2,869.6	-99.7	2,870.9	0.00	0.00	0.00	
14,700.0	90.00	180.50	11,650.0	-2,969.5	-100.5	2,970.9	0.00	0.00	0.00	
14,800.0	90.00	180.50	11,650.0	-3,069.5	-101.4	3,070.9	0.00	0.00	0.00	
14,900.0	90.00	180.50	11,650.0	-3,169.5	-102.3	3,170.9	0.00	0.00	0.00	
15,000.0	90.00	180.50	11,650.0	-3,269.5	-103.2	3,270.9	0.00	0.00	0.00	
15,100.0	90.00	180.50	11,650.0	-3,369.5	-104.0	3,370.9	0.00	0.00	0.00	
15,200.0	90.00	180.50	11,650.0	-3,469.5	-104.9	3,470.9	0.00	0.00	0.00	
15,300.0	90.00	180.50	11,650.0	-3,569.5	-105.8	3,570.9	0.00	0.00	0.00	
15,400.0	90.00	180.50	11,650.0	-3,669.5	-106.7	3,670.9	0.00	0.00	0.00	
15,500.0	90.00	180.50	11,650.0	-3,769.5	-107.5	3,770.9	0.00	0.00	0.00	
15,600.0	90.00	180.50	11,650.0	-3,869.5	-108.4	3,870.9	0.00	0.00	0.00	
15,700.0	90.00	180.50	11,650.0	-3,969.5	-109.3	3,970.9	0.00	0.00	0.00	
15,800.0	90.00	180.50	11,650.0	-4,069.5	-110.2	4,070.9	0.00	0.00	0.00	
15,900.0	90.00	180.50	11,650.0	-4,169.5	-111.0	4,170.9	0.00	0.00	0.00	
16,000.0	90.00	180.50	11,650.0	-4,269.5	-111.9	4,270.8	0.00	0.00	0.00	
16,100.0	90.00	180.50	11,650.0	-4,369.5	-112.8	4,370.8	0.00	0.00	0.00	
16,200.0	90.00	180.50	11,650.0	-4,469.5	-113.7	4,470.8	0.00	0.00	0.00	
16,300.0	90.00	180.50	11,650.0	-4,569.5	-114.5	4,570.8	0.00	0.00	0.00	
16,400.0	90.00	180.50	11,650.0	-4,669.5	-115.4	4,670.8	0.00	0.00	0.00	
16,500.0	90.00	180.50	11,650.0	-4,769.5	-116.3	4,770.8	0.00	0.00	0.00	
16,600.0	90.00	180.50	11,650.0	-4,869.5	-117.2	4,870.8	0.00	0.00	0.00	
16,700.0	90.00	180.50	11,650.0	-4,969.5	-118.0	4,970.8	0.00	0.00	0.00	
16,800.0	90.00	180.50	11,650.0	-5,069.5	-118.9	5,070.8	0.00	0.00	0.00	
16,900.0	90.00	180.50	11,650.0	-5,169.5	-119.8	5,170.8	0.00	0.00	0.00	
17,000.0	90.00	180.50	11,650.0	-5,269.5	-120.7	5,270.8	0.00	0.00	0.00	
17,100.0	90.00	180.50	11,650.0	-5,369.5	-121.5	5,370.8	0.00	0.00	0.00	
17,200.0	90.00	180.50	11,650.0	-5,469.5	-122.4	5,470.8	0.00	0.00	0.00	
17,300.0	90.00	180.50	11,650.0	-5,569.4	-123.3	5,570.8	0.00	0.00	0.00	
17,400.0	90.00	180.50	11,650.0	-5,669.4	-124.2	5,670.8	0.00	0.00	0.00	
17,500.0	90.00	180.50	11,650.0	-5,769.4	-125.0	5,770.8	0.00	0.00	0.00	
17,600.0	90.00	180.50	11,650.0	-5,869.4	-125.9	5,870.8	0.00	0.00	0.00	
17,700.0	90.00	180.50	11,650.0	-5,969.4	-126.8	5,970.8	0.00	0.00	0.00	
17,800.0	90.00	180.50	11,650.0	-6,069.4	-127.7	6,070.8	0.00	0.00	0.00	
17,900.0	90.00	180.50	11,650.0	-6,169.4	-128.5	6,170.8	0.00	0.00	0.00	
18,000.0	90.00	180.50	11,650.0	-6,269.4	-129.4	6,270.7	0.00	0.00	0.00	
18,100.0	90.00	180.50	11,650.0	-6,369.4	-130.3	6,370.7	0.00	0.00	0.00	
18,200.0	90.00	180.50	11,650.0	-6,469.4	-131.2	6,470.7	0.00	0.00	0.00	
18,300.0	90.00	180.50	11,650.0	-6,569.4	-132.0	6,570.7	0.00	0.00	0.00	
18,400.0	90.00	180.50	11,650.0	-6,669.4	-132.9	6,670.7	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 706H - Slot ZHU 2531 WC #706H
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 706H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

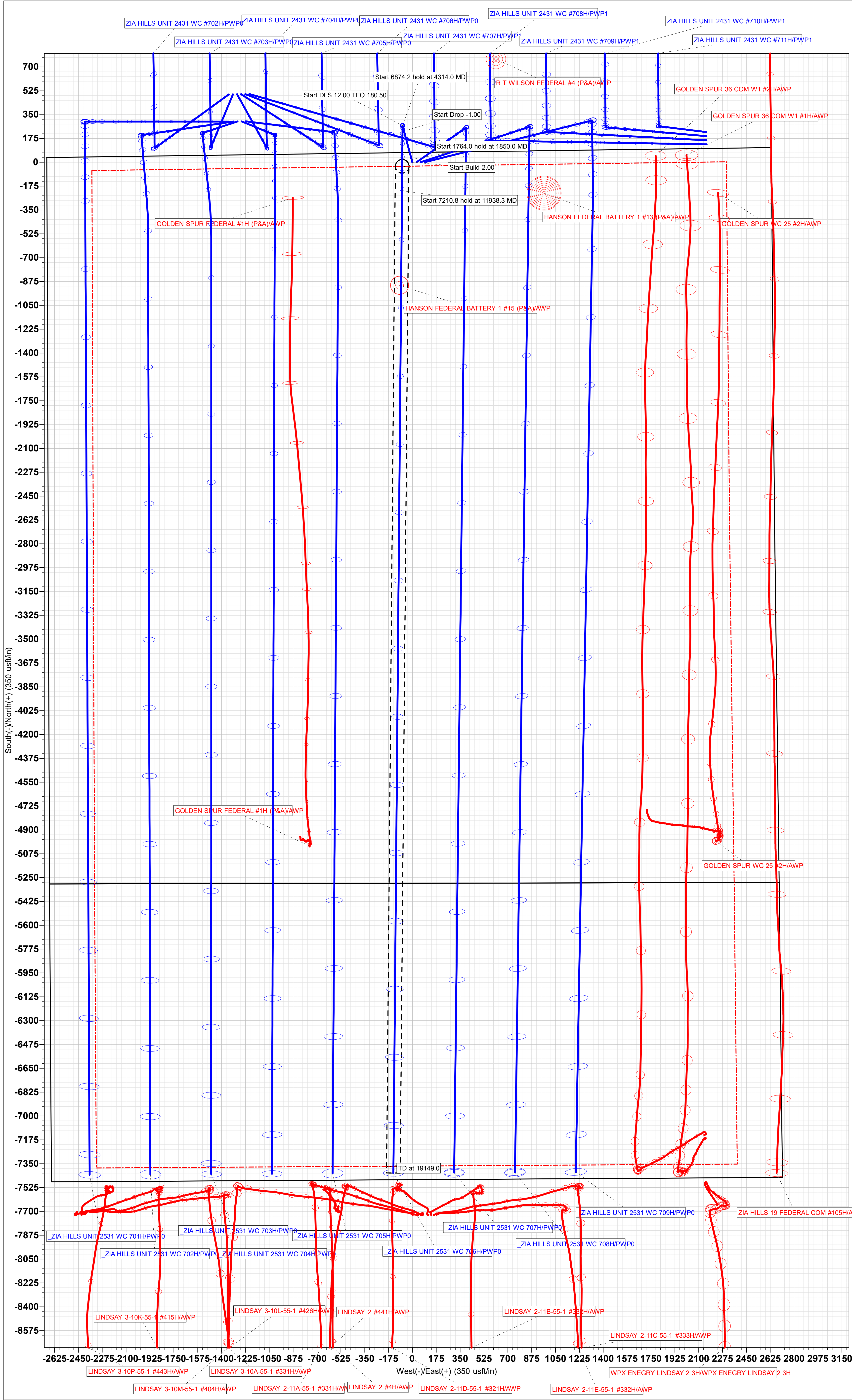
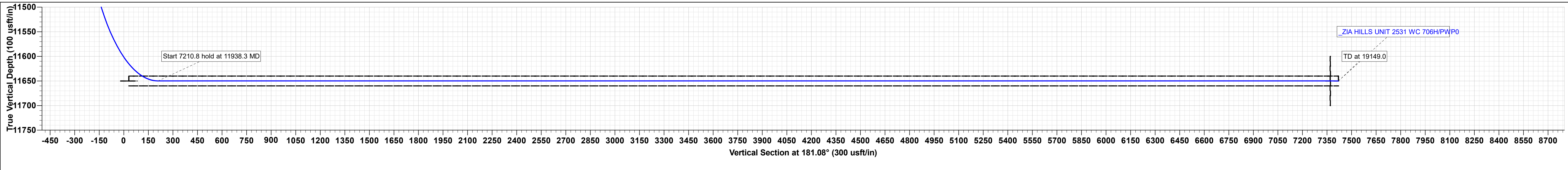
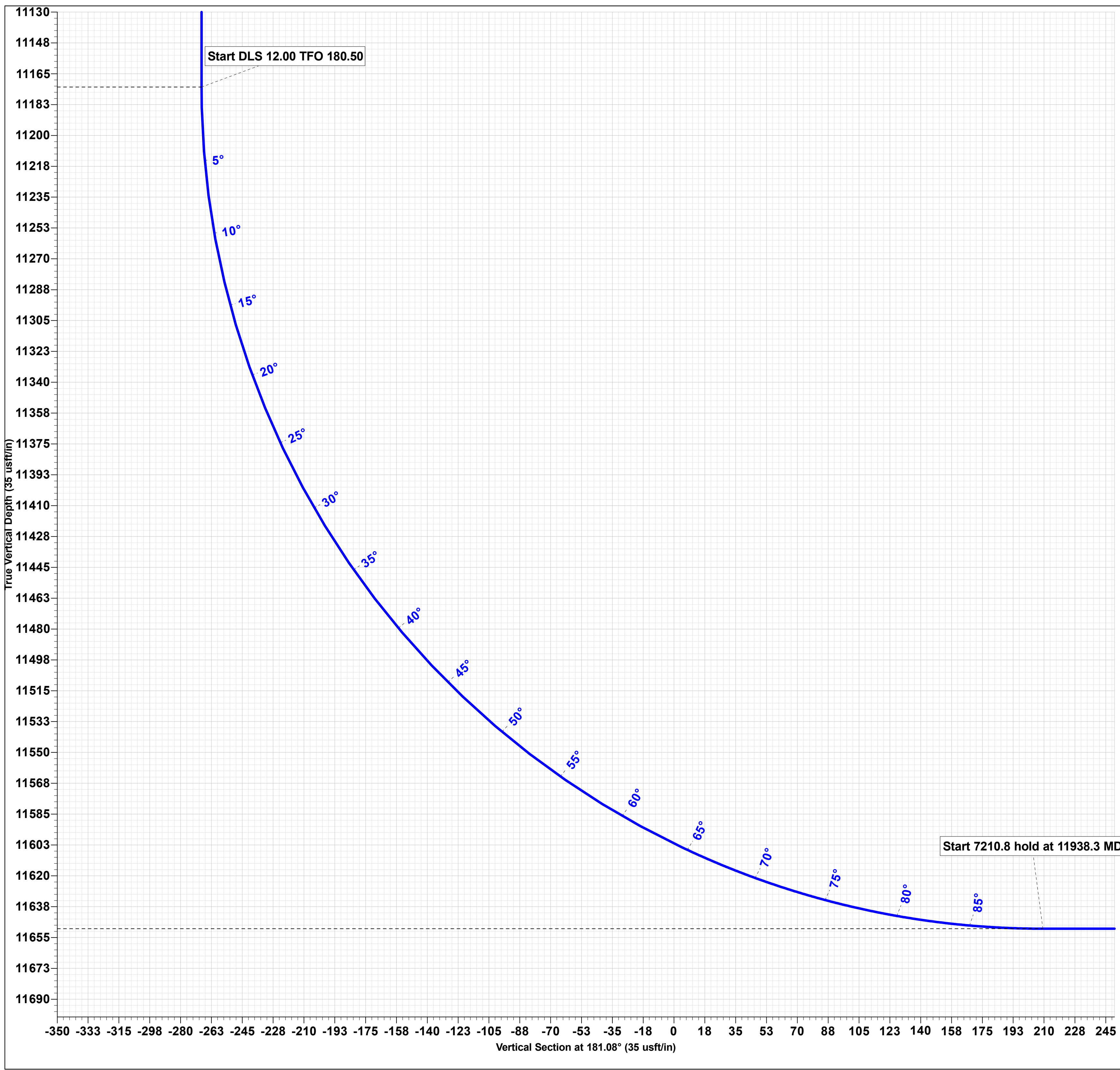
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	90.00	180.50	11,650.0	-6,769.4	-133.8	6,770.7	0.00	0.00	0.00	
18,600.0	90.00	180.50	11,650.0	-6,869.4	-134.6	6,870.7	0.00	0.00	0.00	
18,700.0	90.00	180.50	11,650.0	-6,969.4	-135.5	6,970.7	0.00	0.00	0.00	
18,800.0	90.00	180.50	11,650.0	-7,069.4	-136.4	7,070.7	0.00	0.00	0.00	
18,900.0	90.00	180.50	11,650.0	-7,169.4	-137.3	7,170.7	0.00	0.00	0.00	
19,000.0	90.00	180.50	11,650.0	-7,269.4	-138.1	7,270.7	0.00	0.00	0.00	
19,100.0	90.00	180.50	11,650.0	-7,369.4	-139.0	7,370.7	0.00	0.00	0.00	
19,149.0	90.00	180.50	11,650.0	-7,418.4	-139.4	7,419.7	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
LTP (ZHU 2531 WC #70	90.00	179.74	11,650.0	-7,368.3	-139.7	364,375.48	686,526.86	32° 0' 1.277 N		103° 43' 53.854 W
- plan misses target center by 0.7usft at 19098.9usft MD (11650.0 TVD, -7368.3 N, -139.0 E)										
- Circle (radius 50.0)										
FTP (ZHU 2531 WC #7C	0.00	0.00	11,650.0	-28.8	-74.3	371,714.96	686,592.28	32° 1' 13.907 N		103° 43' 52.619 W
- plan misses target center by 32.5usft at 11767.2usft MD (11619.7 TVD, -40.5 N, -74.9 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #7	0.00	0.50	11,650.0	-7,418.4	-139.4	364,325.39	686,527.16	32° 0' 0.782 N		103° 43' 53.853 W
- plan hits target center										
- Rectangle (sides W100.0 H7,389.5 D20.0)										



Project: ZIA HILLS UNIT AREA
Site: ZIA HILLS UNIT 2531 PROJECT
Well: ZIA HILLS UNIT 2531 WC 706H
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	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
1850.0	7.00	345.00	1849.1	20.6	-5.5	2.00	345.00	-20.5	
3614.0	7.00	345.00	3600.0	228.3	-61.2	0.00	0.00	-227.1	
4314.0	0.00	0.00	4298.3	269.5	-72.2	1.00	180.00	-268.1	
11188.3	0.00	0.00	11172.5	269.5	-72.2	0.00	0.00	-268.1	
11938.3	90.00	180.50	11650.0	-207.9	-76.4	12.00	180.50	209.3	
19149.0	90.00	180.50	11650.0	-7418.4	-139.4	0.00	0.00	7419.7	



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 706H
SURFACE HOLE FOOTAGE:	69'/N & 2635'/E
BOTTOM HOLE FOOTAGE:	50'/S & 2510'/W
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 408804

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 408804
	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