

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-56234
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SESW / 245 FSL / 1460 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0215782 / LONG: -103.7354578 (TVD: 0 feet, MD: 0 feet)

PPP: NENW / 100 FNL / 2140 FWL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206455 / LONG: -103.7335153 (TVD: 11775 feet, MD: 11932 feet)

BHL: LOT 3 / 50 FSL / 2060 FWL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003419 / LONG: -103.7335436 (TVD: 11820 feet, MD: 19304 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- 56234	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 705H
OGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Ground Level Elevation 3,175.00'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL N	Section 24	Township 26S	Range 31E	Lot	Ft. from N/S 245' FSL	Ft. from E/W 1,460' FWL	Latitude 32.021578°	Longitude -103.735458°	County EDDY
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Bottom Hole Location

UL LOT 3	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 2,060' FWL	Latitude 32.000342°	Longitude -103.733544°	County EDDY
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Dedicated Acres 900	Infill or Defining Well Infill	Defining Well API Pending 703H	Overlapping Spacing Unit (Y/N)	Consolidation Code Unit
Order Numbers. R-20080			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL N	Section 24	Township 26S	Range 31E	Lot	Ft. from N/S 245' FSL	Ft. from E/W 1,460' FWL	Latitude 32.021578°	Longitude -103.735458°	County EDDY
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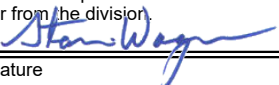
First Take Point (FTP)

UL C	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 2,140' FWL	Latitude 32.020645°	Longitude -103.733262°	County EDDY
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Last Take Point (LTP)

UL LOT 3	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 2,060' FWL	Latitude 32.000479°	Longitude -103.733544°	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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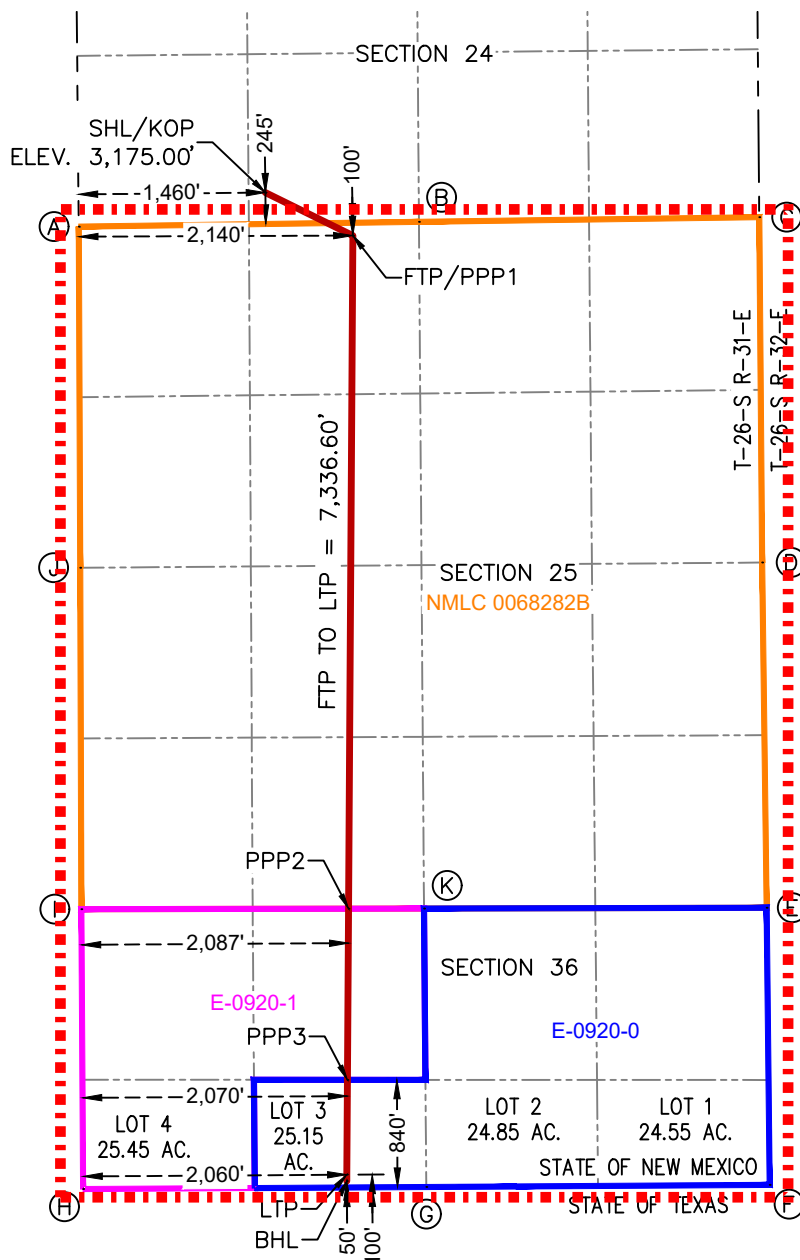
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.  Signature: Stan Wagner Date: 3/12/2024		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 and Seal of Professional Surveyor	
Printed Name Email Address		Certificate Number 12177	Date of Survey 11/21/2024

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

ACREAGE DEDICATION PLATS

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

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



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
245' FSL & 1,460' FWL
ELEV.=3,175.00'

NAD 83 X = 726,629.82'
NAD 83 Y = 372,101.65'
NAD 83 LAT = 32.021578°
NAD 83 LONG = -103.735458°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 2,140' FWL
NAD 83 X = 727,312.41'
NAD 83 Y = 371,766.10'
NAD 83 LAT = 32.020645°
NAD 83 LONG = -103.733262°

PENETRATION POINT 2
0' FNL & 2,087' FWL
NAD 83 X = 727,278.87'
NAD 83 Y = 366,507.79'
NAD 83 LAT = 32.006192°
NAD 83 LONG = -103.733464°

PENETRATION POINT 3
840' FSL & 2,070' FWL
NAD 83 X = 727,270.34'
NAD 83 Y = 365,170.13'
NAD 83 LAT = 32.002515°
NAD 83 LONG = -103.733515°

LAST TAKE POINT
100' FSL & 2,060' FWL
NAD 83 X = 727,265.62'
NAD 83 Y = 364,429.66'
NAD 83 LAT = 32.000479°
NAD 83 LONG = -103.733544°

BOTTOM HOLE LOCATION
50' FSL & 2,060' FWL
NAD 83 X = 727,265.95'
NAD 83 Y = 364,379.66'
NAD 83 LAT = 32.000342°
NAD 83 LONG = -103.733544°

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

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 2531 WC	Pending	± 4/1/2025	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H, 706H						

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

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

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

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 705H

1. Geologic Formations

TVD of target	11,518' EOL	Pilot hole depth	NA
MD at TD:	19,304'	Deepest expected fresh water:	365'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1162	Water	
Top of Salt	1578	Salt	
Base of Salt	3905	Salt	
Lamar	4151	Salt Water	
Bell Canyon	4222	Salt Water	
Cherry Canyon	5084	Oil/Gas	
Brushy Canyon	6400	Oil/Gas	
Bone Spring	8121	Oil/Gas	
1st Bone Spring Sand	9131	Oil/Gas	
2nd Bone Spring Sand	9823	Oil/Gas	
3rd Bone Spring Sand	10958	Oil/Gas	
Wolfcamp	11454	Oil/Gas	
Wolfcamp A	11518	Target	
Wolfcamp B	11894	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	1480	10.75"	45.5	J55	BTC	3.09	1.00	10.62	11.82
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.33	1.06	2.88	2.90
8.750"	8500	11250	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.20	1.92
6.75"	0	11050	5.5"	23	P110-CY	BTC	1.87	2.18	2.87	2.87
6.75"	11050	19,304	5.5"	23	P110-CY	W441	1.80	2.10	2.75	2.50
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	1480	13.375"	54.5	J55	BTC	1.67	1.59	10.58	11.27
12.25"	0	4100	9.625"	40	L80-IC	BTC	1.82	1.31	5.59	5.77
8.75"	3900	11250	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.20	1.92
6.75"	0	11050	5.5"	23	P110-CY	BTC	1.87	2.18	2.87	2.87
6.75"	11050	19,304	5.5"	23	P110-CY	W441	1.80	2.10	2.75	2.50
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

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

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

March 11, 2024

1

ConocoPhillips Company - Zia Hills Unit 2531 WC 705H

	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 705H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	710	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	700	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	620	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	10,750'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	3,900'	20%
Production	11,000'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 705H

4. Pressure Control Equipment

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

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

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

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

Y	Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.
Y	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
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 705H

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 705H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8090 psi at 11518' TVD
Abnormal Temperature	NO 170 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

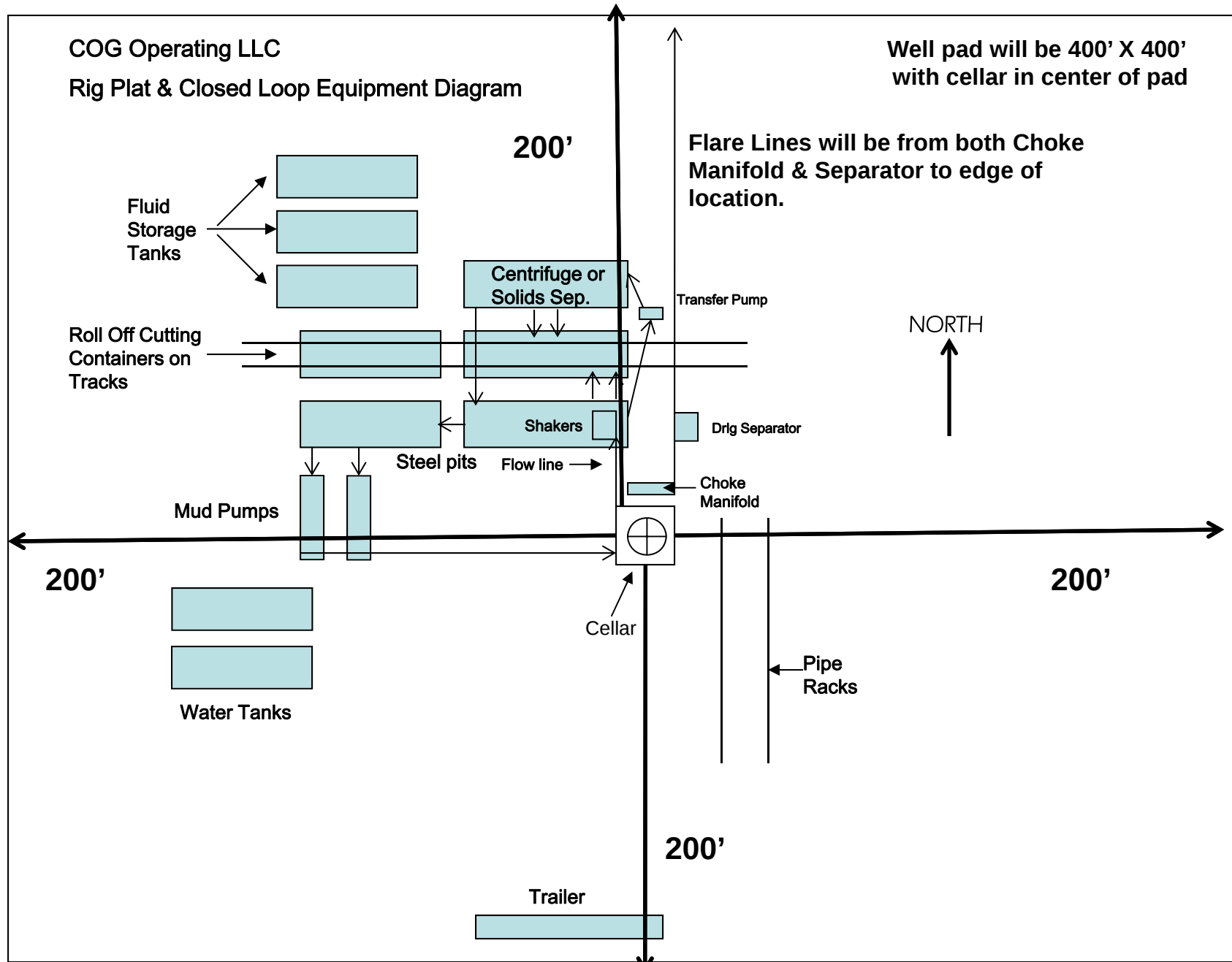


Exhibit 1

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

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #705H**

OWB

PWP0

Anticollision Report

10 August, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW						Out of range
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	965.9	968.1	250.3	241.0	26.738	CC
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	1,000.0	1,002.2	250.3	240.9	26.471	ES
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	1,300.0	1,295.1	265.3	254.8	25.214	SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	1,000.0	1,002.6	233.4	224.0	24.649	CC
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	1,004.4	1,007.1	233.4	223.9	24.612	ES
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	1,300.0	1,301.5	243.8	233.3	23.218	SF
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	1,283.2	1,299.2	218.1	207.6	20.689	CC
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	1,300.0	1,316.5	218.1	207.5	20.560	ES
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	1,600.0	1,612.8	230.6	218.9	19.664	SF
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	2,104.4	2,128.2	168.5	153.4	11.133	CC
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	2,200.0	2,222.9	169.0	153.2	10.740	ES
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	2,700.0	2,718.6	185.7	167.0	9.954	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	11,433.0	11,459.2	85.1	35.5	1.717	Advise and Monitor, CC
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	11,450.0	11,471.6	85.9	35.5	1.705	Advise and Monitor, ES, SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	5,053.5	5,065.3	69.1	34.1	1.975	Advise and Monitor, CC
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	5,300.0	5,311.4	71.1	31.9	1.811	Advise and Monitor, ES, SF
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	2,907.5	2,920.2	171.5	154.5	10.082	CC
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	3,200.0	3,212.1	172.6	153.4	8.994	ES
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	5,300.0	5,307.4	234.5	193.7	5.747	SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1						Out of range
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 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,000.0	1,000.0	120.0	109.8	11.736	CC, ES
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,100.0	1,095.9	123.4	112.7	11.527	SF
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802	CC, ES
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,100.0	1,096.9	93.4	82.7	8.725	SF
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES, SF
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,200.0	1,201.9	30.5	19.3	2.734	ES
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,300.0	1,302.9	31.2	19.6	2.692	SF
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,300.0	19,188.8	477.3	325.1	3.137	CC
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,304.3	19,188.8	477.3	325.1	3.136	ES, SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,292.0	19,363.6	891.9	741.7	5.936	CC
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,304.3	19,363.6	892.0	741.6	5.931	ES, SF
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0						Out of range
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0						Out of range
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP						Out of range
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	9,067.4	13,450.0	569.1	500.7	8.315	CC, ES, SF
HANSON FEDERAL #11 (P&A) - OWB - AWP						Out of range

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,304.3	11,762.0	174.7	96.3	2.228	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,304.3	11,546.1	384.5	306.4	4.921	CC, ES, SF
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,304.3	10,813.0				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,304.3	10,713.0				Out of Range @TD
LINDSAY 2-11C-55-1 #333H - OWB - AWP	19,304.3	10,961.9				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,304.3	9,958.0				Out of Range @TD
LINDSAY 2-11E-55-1 #332H - OWB - AWP	19,304.3	10,238.0				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,304.3	10,813.0				Out of Range @TD
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,304.3	11,517.9				Out of Range @TD
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,304.3	11,663.3	991.7	887.0	9.471	CC, ES, SF
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,304.3	11,440.0				Out of Range @TD
LINDSAY 3-10P-55-1 #443H - OWB - AWP	19,304.3	11,667.9				Out of Range @TD
WPX ENEGRY LINDSAY 2 3H - WPX ENEGRY LINDSA	19,304.3	11,354.0				Out of Range @TD
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	19,304.3	11,100.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
HANSON FEDERAL BATTERY 1 #15 (P&A) - OWB - AW	19,304.3	4,283.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	19,304.3	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	19,304.3	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,304.3	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,304.3	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,304.3	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,304.3	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,304.3	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,304.3	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #709H - OWB - PWP1	19,304.3	11,475.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #710H - OWB - PWP1	19,304.3	11,250.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	19,304.3	19,445.7				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	19,304.3	19,120.2				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	19,304.3	19,272.8	890.6	739.3	5.888	
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	19,304.3	19,082.5	475.9	335.0	3.376	
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,304.3	19,188.8	477.3	325.1	3.136	ES, SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,304.3	19,363.6	892.0	741.6	5.931	ES, SF
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	19,304.3	19,267.3				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	19,304.3	19,502.3				Out of Range @TD
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	19,304.3	9,317.0				Out of Range @TD
GOLDEN SPUR 36 COM W1 #1H - OWB - AWP	19,304.3	11,442.0				Out of Range @TD
GOLDEN SPUR 36 COM W1 #2H - OWB - AWP	19,304.3	11,665.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - OWB - AWP	19,304.3	9,200.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	19,304.3	8,876.0				Out of Range @TD
HANSON FEDERAL #11 (P&A) - OWB - AWP	19,304.3	4,202.0				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #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		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)				
18,500.0	11,820.0	11,667.0	11,688.3	70.4	23.6	-35.84	-7,845.6	731.6	941.6	898.8	42.87	21.965		
18,600.0	11,820.0	11,667.0	11,688.3	71.3	23.6	-35.84	-7,845.6	731.6	843.3	799.6	43.76	19.273		
18,700.0	11,820.0	11,667.0	11,688.3	72.2	23.6	-35.84	-7,845.6	731.6	745.4	700.5	44.97	16.578		
18,800.0	11,820.0	11,667.0	11,688.3	73.1	23.6	-35.84	-7,845.6	731.6	648.2	601.5	46.69	13.883		
18,900.0	11,820.0	11,693.3	11,714.1	74.0	23.6	-41.56	-7,850.6	730.3	551.0	503.5	47.49	11.603		
19,000.0	11,820.0	11,706.9	11,727.3	74.9	23.6	-45.14	-7,853.5	729.5	454.7	405.1	49.66	9.156		
19,100.0	11,820.0	11,722.8	11,742.8	75.8	23.7	-50.03	-7,857.1	728.5	359.7	306.7	53.01	6.785		
19,200.0	11,820.0	11,741.7	11,761.0	76.7	23.7	-56.99	-7,861.8	727.1	266.7	207.9	58.81	4.534		
19,300.0	11,820.0	11,762.0	11,780.5	77.4	23.7	-66.10	-7,867.4	725.5	178.3	101.1	77.18	2.310		
19,304.3	11,820.0	11,762.0	11,780.5	77.4	23.7	-66.10	-7,867.4	725.5	174.7	96.3	78.42	2.228 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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: STATE LINE OFFSETS - LINDSAY 2 #4H - OWB - AWP													Offset Site Error:		0.0 usft		
Survey Program:		25-r.5 MWD										Rule Assigned:		Offset Well Error:		3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
18,600.0	11,820.0	11,350.0	11,399.9	71.3	15.2	2.64	-7,904.5	616.7	981.7	930.4	51.35	19.117					
18,700.0	11,820.0	11,369.2	11,417.2	72.2	15.1	2.76	-7,913.1	616.6	892.0	838.9	53.09	16.801					
18,800.0	11,820.0	11,395.0	11,440.0	73.1	15.1	2.90	-7,925.0	616.7	803.4	748.6	54.77	14.668					
18,900.0	11,820.0	11,426.4	11,467.5	74.0	15.0	3.04	-7,940.2	617.2	715.8	659.5	56.39	12.694					
19,000.0	11,820.0	11,455.1	11,492.3	74.9	15.0	3.13	-7,954.7	617.9	629.5	570.9	58.67	10.730					
19,100.0	11,820.0	11,475.0	11,509.0	75.8	14.9	3.17	-7,965.4	618.5	545.6	483.0	62.54	8.723					
19,200.0	11,820.0	11,507.0	11,535.0	76.7	14.9	3.21	-7,984.1	619.7	464.7	398.5	66.21	7.018					
19,300.0	11,820.0	11,544.3	11,563.6	77.4	14.8	3.23	-8,007.9	621.0	387.7	310.2	77.49	5.003					
19,304.3	11,820.0	11,546.1	11,565.0	77.4	14.8	3.23	-8,009.1	621.1	384.5	306.4	78.14	4.921	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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 3-10L-55-1 #426H - OWB - AWP										Offset Site Error:	0.0 usft
Survey Program:	80-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
19,300.0	11,820.0	11,659.8	11,562.9	77.4	29.4	73.75	-8,090.2	-247.0	993.4	888.9	104.51	9.505
19,304.3	11,820.0	11,663.3	11,565.2	77.4	29.4	73.88	-8,092.8	-246.6	991.7	887.0	104.72	9.471 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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11145-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.2	0.0	3.0	3.0	-37.78	197.9	-153.3	250.3	243.9	6.43	38.938	
100.0	100.0	102.2	100.0	3.2	3.1	-37.78	197.9	-153.3	250.3	243.6	6.72	37.268	
200.0	200.0	202.2	200.0	3.5	3.2	-37.78	197.9	-153.3	250.3	243.3	7.06	35.451	
300.0	300.0	302.2	300.0	3.7	3.3	-37.78	197.9	-153.3	250.3	242.9	7.39	33.865	
400.0	400.0	402.2	400.0	3.9	3.4	-37.78	197.9	-153.3	250.3	242.6	7.71	32.462	
500.0	500.0	502.2	500.0	4.1	3.6	-37.78	197.9	-153.3	250.3	242.3	8.02	31.209	
600.0	600.0	602.2	600.0	4.2	3.7	-37.78	197.9	-153.3	250.3	242.0	8.32	30.080	
700.0	700.0	702.2	700.0	4.4	3.8	-37.78	197.9	-153.3	250.3	241.7	8.62	29.056	
800.0	800.0	802.2	800.0	4.6	3.9	-37.78	197.9	-153.3	250.3	241.4	8.90	28.121	
900.0	900.0	902.2	900.0	4.8	4.0	-37.78	197.9	-153.3	250.3	241.1	9.18	27.263	
965.9	965.9	968.1	965.9	4.9	4.1	-37.78	197.9	-153.3	250.3	241.0	9.36	26.738	CC
1,000.0	1,000.0	1,002.2	1,000.0	4.9	4.2	-37.78	197.9	-153.3	250.3	240.9	9.46	26.471	ES
1,100.0	1,100.0	1,100.0	1,097.8	5.2	4.3	-135.33	197.4	-154.5	251.9	242.2	9.76	25.808	
1,200.0	1,199.8	1,198.2	1,195.9	5.4	4.5	-136.90	195.9	-158.1	256.8	246.6	10.13	25.343	
1,300.0	1,299.5	1,295.1	1,292.6	5.7	4.7	-139.33	193.4	-163.8	265.3	254.8	10.52	25.214	SF
1,400.0	1,398.7	1,390.5	1,387.6	6.0	4.9	-142.41	190.1	-171.7	278.0	267.1	10.95	25.403	
1,427.3	1,425.7	1,416.3	1,413.3	6.0	5.0	-143.34	189.0	-174.2	282.3	271.3	11.03	25.604	
1,500.0	1,497.6	1,484.4	1,480.9	6.2	5.2	-145.96	185.9	-181.6	294.8	283.5	11.29	26.105	
1,600.0	1,596.5	1,577.0	1,572.6	6.4	5.5	-149.53	180.9	-193.4	314.0	302.2	11.73	26.757	
1,700.0	1,695.4	1,668.3	1,662.7	6.7	5.8	-152.97	175.1	-207.0	335.6	323.4	12.21	27.480	
1,800.0	1,794.3	1,759.8	1,752.6	7.0	6.1	-156.29	168.5	-222.6	359.7	347.0	12.69	28.352	
1,900.0	1,893.2	1,854.4	1,845.5	7.3	6.4	-159.38	161.4	-239.2	385.3	372.1	13.24	29.108	
2,000.0	1,992.1	1,949.0	1,938.3	7.6	6.7	-162.09	154.4	-255.8	411.8	398.0	13.84	29.761	
2,100.0	2,090.9	2,043.6	2,031.2	7.9	7.0	-164.48	147.3	-272.4	439.2	424.7	14.47	30.357	
2,200.0	2,189.8	2,138.2	2,124.1	8.2	7.4	-166.59	140.3	-289.1	467.1	452.0	15.12	30.896	
2,300.0	2,288.7	2,232.8	2,217.0	8.6	7.8	-168.47	133.2	-305.7	495.6	479.9	15.79	31.384	
2,400.0	2,387.6	2,327.5	2,309.8	8.9	8.1	-170.15	126.1	-322.3	524.6	508.1	16.48	31.825	
2,500.0	2,486.5	2,422.1	2,402.7	9.3	8.5	-171.66	119.1	-338.9	553.9	536.7	17.19	32.223	
2,600.0	2,585.4	2,516.7	2,495.6	9.7	8.9	-173.01	112.0	-355.5	583.6	565.7	17.91	32.584	
2,700.0	2,684.3	2,611.3	2,588.5	10.0	9.3	-174.24	105.0	-372.1	613.5	594.9	18.64	32.911	
2,800.0	2,783.2	2,705.9	2,681.4	10.4	9.7	-175.35	97.9	-388.8	643.7	624.3	19.38	33.209	
2,900.0	2,882.1	2,800.5	2,774.2	10.8	10.1	-176.37	90.9	-405.4	674.0	653.9	20.13	33.480	
3,000.0	2,981.0	2,895.2	2,867.1	11.2	10.5	-177.30	83.8	-422.0	704.6	683.7	20.89	33.727	
3,100.0	3,079.8	2,989.8	2,960.0	11.6	10.9	-178.15	76.8	-438.6	735.3	713.6	21.66	33.954	
3,200.0	3,178.7	3,084.4	3,052.9	12.0	11.3	-178.93	69.7	-455.2	766.1	743.7	22.43	34.163	
3,300.0	3,277.6	3,179.0	3,145.8	12.4	11.7	-179.66	62.7	-471.9	797.1	773.9	23.20	34.355	
3,400.0	3,376.5	3,273.6	3,238.6	12.8	12.1	-179.67	55.6	-488.5	828.2	804.2	23.98	34.532	
3,500.0	3,475.4	3,368.2	3,331.5	13.2	12.5	-179.05	48.6	-505.1	859.3	834.6	24.77	34.696	
3,600.0	3,574.3	3,462.9	3,424.4	13.6	12.9	-178.47	41.5	-521.7	890.6	865.0	25.56	34.848	
3,700.0	3,673.2	3,557.5	3,517.3	14.0	13.3	-177.93	34.4	-538.3	921.9	895.6	26.35	34.990	
3,800.0	3,772.1	3,652.1	3,610.1	14.4	13.8	-177.43	27.4	-555.0	953.3	926.2	27.14	35.121	
3,900.0	3,871.0	3,746.7	3,703.0	14.8	14.2	-176.96	20.3	-571.6	984.8	956.8	27.94	35.244	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10931-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.6	0.0	3.0	3.0	-31.91	198.2	-123.4	233.4	227.0	6.43	36.309	
100.0	100.0	102.6	100.0	3.2	3.1	-31.91	198.2	-123.4	233.4	226.7	6.72	34.751	
200.0	200.0	202.6	200.0	3.5	3.2	-31.91	198.2	-123.4	233.4	226.4	7.06	33.054	
300.0	300.0	302.6	300.0	3.7	3.3	-31.91	198.2	-123.4	233.4	226.0	7.39	31.572	
400.0	400.0	402.6	400.0	3.9	3.4	-31.91	198.2	-123.4	233.4	225.7	7.71	30.260	
500.0	500.0	502.6	500.0	4.1	3.6	-31.91	198.2	-123.4	233.4	225.4	8.02	29.088	
600.0	600.0	602.6	600.0	4.2	3.7	-31.91	198.2	-123.4	233.4	225.1	8.33	28.032	
700.0	700.0	702.6	700.0	4.4	3.8	-31.91	198.2	-123.4	233.4	224.8	8.62	27.073	
800.0	800.0	802.6	800.0	4.6	3.9	-31.91	198.2	-123.4	233.4	224.5	8.91	26.197	
900.0	900.0	902.6	900.0	4.8	4.0	-31.91	198.2	-123.4	233.4	224.2	9.19	25.393	
1,000.0	1,000.0	1,002.6	1,000.0	4.9	4.2	-31.91	198.2	-123.4	233.4	224.0	9.47	24.649 CC	
1,004.4	1,004.4	1,007.1	1,004.5	4.9	4.2	-128.92	198.2	-123.4	233.4	223.9	9.48	24.612 ES	
1,100.0	1,100.0	1,103.1	1,100.5	5.2	4.3	-129.69	197.1	-124.9	234.4	224.6	9.77	24.005	
1,200.0	1,199.8	1,202.9	1,200.1	5.4	4.6	-131.89	193.9	-129.2	237.6	227.5	10.12	23.475	
1,300.0	1,299.5	1,301.5	1,298.3	5.7	4.9	-135.35	188.8	-136.2	243.8	233.3	10.50	23.218 SF	
1,400.0	1,398.7	1,398.2	1,394.3	6.0	5.2	-139.75	181.9	-145.7	253.8	242.9	10.91	23.259	
1,427.3	1,425.7	1,424.6	1,420.4	6.0	5.3	-141.06	179.8	-148.7	257.4	246.4	10.99	23.412	
1,500.0	1,497.6	1,494.6	1,489.8	6.2	5.5	-144.54	174.0	-156.6	267.8	256.6	11.26	23.785	
1,600.0	1,596.5	1,591.0	1,585.3	6.4	5.7	-148.91	166.1	-167.4	283.7	272.0	11.70	24.247	
1,700.0	1,695.4	1,687.5	1,680.8	6.7	6.0	-152.82	158.3	-178.3	301.1	289.0	12.18	24.727	
1,800.0	1,794.3	1,783.9	1,776.2	7.0	6.3	-156.30	150.4	-189.1	319.8	307.1	12.69	25.203	
1,900.0	1,893.2	1,880.3	1,871.7	7.3	6.6	-159.40	142.5	-200.0	339.5	326.3	13.23	25.661	
2,000.0	1,992.1	1,976.7	1,967.2	7.6	6.9	-162.16	134.6	-210.9	360.1	346.3	13.80	26.093	
2,100.0	2,090.9	2,073.1	2,062.7	7.9	7.3	-164.63	126.7	-221.7	381.4	367.0	14.39	26.496	
2,200.0	2,189.8	2,169.5	2,158.1	8.2	7.6	-166.84	118.8	-232.6	403.3	388.3	15.01	26.869	
2,300.0	2,288.7	2,265.9	2,253.6	8.6	8.0	-168.82	110.9	-243.4	425.8	410.1	15.65	27.212	
2,400.0	2,387.6	2,362.4	2,349.1	8.9	8.3	-170.61	103.1	-254.3	448.7	432.4	16.30	27.528	
2,500.0	2,486.5	2,458.8	2,444.6	9.3	8.7	-172.23	95.2	-265.1	472.0	455.0	16.97	27.818	
2,600.0	2,585.4	2,555.2	2,540.0	9.7	9.0	-173.69	87.3	-276.0	495.6	478.0	17.65	28.085	
2,700.0	2,684.3	2,651.6	2,635.5	10.0	9.4	-175.02	79.4	-286.8	519.5	501.2	18.34	28.331	
2,800.0	2,783.2	2,748.0	2,731.0	10.4	9.8	-176.24	71.5	-297.7	543.6	524.6	19.04	28.557	
2,900.0	2,882.1	2,844.4	2,826.5	10.8	10.2	-177.35	63.6	-308.6	568.0	548.2	19.74	28.766	
3,000.0	2,981.0	2,940.8	2,922.0	11.2	10.5	-178.37	55.7	-319.4	592.5	572.1	20.46	28.960	
3,100.0	3,079.8	3,037.3	3,017.4	11.6	10.9	-179.32	47.8	-330.3	617.2	596.1	21.18	29.139	
3,200.0	3,178.7	3,133.7	3,112.9	12.0	11.3	-179.81	40.0	-341.1	642.1	620.2	21.91	29.305	
3,300.0	3,277.6	3,230.1	3,208.4	12.4	11.7	-179.01	32.1	-352.0	667.1	644.4	22.64	29.460	
3,400.0	3,376.5	3,326.5	3,303.9	12.8	12.1	-178.26	24.2	-362.8	692.2	668.8	23.38	29.604	
3,500.0	3,475.4	3,422.9	3,399.3	13.2	12.5	-177.57	16.3	-373.7	717.4	693.3	24.12	29.739	
3,600.0	3,574.3	3,519.3	3,494.8	13.6	12.9	-176.92	8.4	-384.6	742.7	717.8	24.87	29.865	
3,700.0	3,673.2	3,615.8	3,590.3	14.0	13.3	-176.31	0.5	-395.4	768.1	742.4	25.62	29.984	
3,800.0	3,772.1	3,712.2	3,685.8	14.4	13.7	-175.74	-7.4	-406.3	793.5	767.1	26.37	30.095	
3,900.0	3,871.0	3,808.6	3,781.2	14.8	14.1	-175.21	-15.3	-417.1	819.0	791.9	27.12	30.199	
4,000.0	3,969.8	3,905.0	3,876.7	15.2	14.4	-174.71	-23.1	-428.0	844.6	816.7	27.88	30.297	
4,100.0	4,068.7	4,001.4	3,972.2	15.6	14.8	-174.24	-31.0	-438.8	870.3	841.6	28.64	30.390	
4,200.0	4,167.6	4,097.8	4,067.7	16.1	15.2	-173.80	-38.9	-449.7	896.0	866.6	29.40	30.478	
4,300.0	4,266.5	4,194.2	4,163.1	16.5	15.6	-173.38	-46.8	-460.5	921.7	891.5	30.16	30.561	
4,400.0	4,365.4	4,290.7	4,258.6	16.9	16.1	-172.98	-54.7	-471.4	947.5	916.6	30.92	30.639	
4,500.0	4,464.3	4,387.1	4,354.1	17.3	16.5	-172.60	-62.6	-482.3	973.3	941.6	31.69	30.714	
4,600.0	4,563.2	4,483.5	4,449.6	17.7	16.9	-172.25	-70.5	-493.1	999.2	966.7	32.46	30.784	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11085-r.5 MWD+IFR1+MS						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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	2.5	0.0	3.0	3.0	-25.22	198.5	-93.5	219.4	213.0	6.43	34.134		
100.0	100.0	102.5	100.0	3.2	3.1	-25.22	198.5	-93.5	219.4	212.7	6.72	32.669		
200.0	200.0	202.5	200.0	3.5	3.2	-25.22	198.5	-93.5	219.4	212.4	7.06	31.072		
300.0	300.0	302.5	300.0	3.7	3.3	-25.22	198.5	-93.5	219.4	212.1	7.39	29.676		
400.0	400.0	402.5	400.0	3.9	3.4	-25.22	198.5	-93.5	219.4	211.7	7.72	28.439		
500.0	500.0	502.5	500.0	4.1	3.6	-25.22	198.5	-93.5	219.4	211.4	8.03	27.334		
600.0	600.0	602.5	600.0	4.2	3.7	-25.22	198.5	-93.5	219.4	211.1	8.33	26.337		
700.0	700.0	702.5	700.0	4.4	3.8	-25.22	198.5	-93.5	219.4	210.8	8.63	25.432		
800.0	800.0	802.5	800.0	4.6	3.9	-25.22	198.5	-93.5	219.4	210.5	8.92	24.605		
900.0	900.0	902.5	900.0	4.8	4.0	-25.22	198.5	-93.5	219.4	210.2	9.20	23.845		
1,000.0	1,000.0	1,002.6	1,000.1	4.9	4.2	-25.22	198.5	-93.5	219.4	210.0	9.48	23.140		
1,100.0	1,100.0	1,108.0	1,105.4	5.2	4.4	-123.05	196.6	-94.3	219.1	209.3	9.82	22.305		
1,200.0	1,199.8	1,212.8	1,210.1	5.4	4.7	-125.42	191.2	-96.6	218.4	208.2	10.21	21.385		
1,283.2	1,282.7	1,299.2	1,296.2	5.6	5.0	-128.55	184.1	-99.5	218.1	207.6	10.54	20.689	CC	
1,300.0	1,299.5	1,316.5	1,313.4	5.7	5.0	-129.30	182.4	-100.2	218.1	207.5	10.61	20.560	ES	
1,400.0	1,398.7	1,418.1	1,414.1	6.0	5.3	-134.53	170.5	-105.2	219.4	208.4	11.02	19.915		
1,427.3	1,425.7	1,444.7	1,440.5	6.0	5.4	-136.05	167.0	-106.6	220.3	209.2	11.09	19.871		
1,500.0	1,497.6	1,515.5	1,510.5	6.2	5.6	-140.12	157.9	-110.4	223.8	212.5	11.33	19.762		
1,600.0	1,596.5	1,612.8	1,607.0	6.4	5.9	-145.49	145.4	-115.6	230.6	218.9	11.73	19.664	SF	
1,700.0	1,695.4	1,710.2	1,703.4	6.7	6.1	-150.53	132.9	-120.8	239.3	227.1	12.15	19.693		
1,800.0	1,794.3	1,807.6	1,799.8	7.0	6.4	-155.20	120.4	-126.0	249.8	237.2	12.60	19.818		
1,900.0	1,893.2	1,904.9	1,896.2	7.3	6.8	-159.47	107.9	-131.2	261.9	248.8	13.08	20.015		
2,000.0	1,992.1	2,002.3	1,992.7	7.6	7.1	-163.37	95.4	-136.4	275.3	261.7	13.59	20.261		
2,100.0	2,090.9	2,099.7	2,089.1	7.9	7.4	-166.90	82.9	-141.7	289.9	275.8	14.11	20.542		
2,200.0	2,189.8	2,197.1	2,185.5	8.2	7.8	-170.09	70.4	-146.9	305.5	290.8	14.66	20.843		
2,300.0	2,288.7	2,294.4	2,281.9	8.6	8.1	-172.97	57.9	-152.1	321.9	306.7	15.22	21.155		
2,400.0	2,387.6	2,391.8	2,378.3	8.9	8.5	-175.57	45.4	-157.3	339.1	323.3	15.79	21.472		
2,500.0	2,486.5	2,489.2	2,474.8	9.3	8.8	-177.92	32.8	-162.5	356.9	340.5	16.38	21.787		
2,600.0	2,585.4	2,586.5	2,571.2	9.7	9.2	-179.95	20.3	-167.7	375.3	358.3	16.98	22.097		
2,700.0	2,684.3	2,683.9	2,667.6	10.0	9.6	-178.02	7.8	-172.9	394.1	376.5	17.59	22.401		
2,800.0	2,783.2	2,781.3	2,764.0	10.4	9.9	-176.26	-4.7	-178.1	413.3	395.1	18.21	22.696		
2,900.0	2,882.1	2,878.7	2,860.5	10.8	10.3	-174.66	-17.2	-183.3	432.9	414.0	18.84	22.980		
3,000.0	2,981.0	2,976.0	2,956.9	11.2	10.7	-173.20	-29.7	-188.5	452.7	433.3	19.47	23.255		
3,100.0	3,079.8	3,073.4	3,053.3	11.6	11.1	-171.86	-42.2	-193.7	472.8	452.7	20.11	23.518		
3,200.0	3,178.7	3,170.8	3,149.7	12.0	11.5	-170.63	-54.7	-198.9	493.2	472.4	20.75	23.771		
3,300.0	3,277.6	3,268.1	3,246.2	12.4	11.9	-169.49	-67.2	-204.2	513.8	492.4	21.39	24.013		
3,400.0	3,376.5	3,365.5	3,342.6	12.8	12.3	-168.44	-79.8	-209.4	534.5	512.4	22.05	24.245		
3,500.0	3,475.4	3,462.9	3,439.0	13.2	12.7	-167.47	-92.3	-214.6	555.4	532.7	22.70	24.466		
3,600.0	3,574.3	3,560.3	3,535.4	13.6	13.1	-166.57	-104.8	-219.8	576.4	553.1	23.36	24.678		
3,700.0	3,673.2	3,657.6	3,631.9	14.0	13.5	-165.74	-117.3	-225.0	597.6	573.6	24.02	24.881		
3,800.0	3,772.1	3,755.0	3,728.3	14.4	13.9	-164.95	-129.8	-230.2	618.9	594.2	24.68	25.074		
3,900.0	3,871.0	3,854.1	3,826.4	14.8	14.2	-164.22	-142.5	-235.5	640.2	614.9	25.34	25.264		
4,000.0	3,969.8	3,957.8	3,929.4	15.2	14.7	-163.61	-154.5	-240.5	661.0	634.9	26.03	25.392		
4,100.0	4,068.7	4,062.2	4,033.1	15.6	15.1	-163.16	-164.8	-244.7	680.8	654.1	26.72	25.481		
4,200.0	4,167.6	4,167.1	4,137.6	16.1	15.5	-162.88	-173.4	-248.3	699.8	672.4	27.40	25.541		
4,300.0	4,266.5	4,272.5	4,242.7	16.5	15.8	-162.75	-180.3	-251.2	717.7	689.7	28.06	25.575		
4,400.0	4,365.4	4,378.3	4,348.4	16.9	16.2	-162.75	-185.4	-253.3	734.7	706.0	28.72	25.586		
4,500.0	4,464.3	4,484.4	4,454.4	17.3	16.5	-162.88	-188.7	-254.7	750.7	721.4	29.35	25.579		
4,600.0	4,563.2	4,590.7	4,560.7	17.7	16.8	-163.12	-190.2	-255.3	765.8	735.8	29.96	25.561		
4,700.0	4,662.1	4,692.1	4,662.1	18.2	16.9	-163.44	-190.3	-255.4	780.1	749.6	30.45	25.616		
4,800.0	4,761.0	4,791.0	4,761.0	18.6	16.9	-163.75	-190.3	-255.4	794.3	763.4	30.94	25.670		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11085-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
4,900.0	4,859.9	4,889.8	4,859.9	19.0	16.9	164.04	-190.3	-255.4	808.6	777.2	31.44	25.717
5,000.0	4,958.7	4,988.7	4,958.7	19.4	16.9	164.33	-190.3	-255.4	822.9	791.0	31.95	25.758
5,100.0	5,057.6	5,087.6	5,057.6	19.8	17.0	164.60	-190.3	-255.4	837.3	804.8	32.46	25.794
5,191.9	5,148.5	5,178.5	5,148.5	20.2	17.0	164.85	-190.3	-255.4	850.4	817.5	32.93	25.827
5,200.0	5,156.5	5,186.5	5,156.5	20.3	17.0	164.87	-190.3	-255.4	851.6	818.6	32.97	25.832
5,300.0	5,255.6	5,285.6	5,255.6	20.7	17.0	165.14	-190.3	-255.4	865.0	831.5	33.52	25.809
5,400.0	5,354.8	5,384.8	5,354.8	21.1	17.1	165.38	-190.3	-255.4	876.7	842.7	34.02	25.772
5,500.0	5,454.3	5,484.3	5,454.3	21.5	17.1	165.57	-190.3	-255.4	886.8	852.3	34.51	25.697
5,600.0	5,553.9	5,583.9	5,553.9	21.9	17.1	165.73	-190.3	-255.4	895.2	860.2	34.99	25.587
5,700.0	5,653.7	5,683.7	5,653.7	22.3	17.2	165.85	-190.3	-255.4	901.9	866.4	35.44	25.447
5,800.0	5,753.5	5,783.5	5,753.5	22.6	17.2	165.95	-190.3	-255.4	906.9	871.0	35.87	25.280
5,900.0	5,853.5	5,883.5	5,853.5	22.9	17.2	166.01	-190.3	-255.4	910.2	874.0	36.27	25.095
6,000.0	5,953.4	5,983.4	5,953.4	23.2	17.3	166.04	-190.3	-255.4	911.9	875.2	36.61	24.906
6,046.6	6,000.0	6,030.0	6,000.0	23.2	17.3	-96.94	-190.3	-255.4	912.0	875.4	36.69	24.859
6,100.0	6,053.4	6,083.4	6,053.4	23.2	17.3	-96.94	-190.3	-255.4	912.0	875.3	36.72	24.841
6,200.0	6,153.4	6,183.4	6,153.4	23.3	17.4	-96.94	-190.3	-255.4	912.0	875.3	36.79	24.792
6,300.0	6,253.4	6,283.4	6,253.4	23.3	17.4	-96.94	-190.3	-255.4	912.0	875.2	36.86	24.743
6,400.0	6,353.4	6,383.4	6,353.4	23.3	17.4	-96.94	-190.3	-255.4	912.0	875.1	36.93	24.694
6,500.0	6,453.4	6,483.4	6,453.4	23.4	17.5	-96.94	-190.3	-255.4	912.0	875.0	37.01	24.645
6,600.0	6,553.4	6,583.4	6,553.4	23.4	17.5	-96.94	-190.3	-255.4	912.0	875.0	37.08	24.596
6,700.0	6,653.4	6,683.4	6,653.4	23.4	17.5	-96.94	-190.3	-255.4	912.0	874.9	37.16	24.546
6,800.0	6,753.4	6,783.4	6,753.4	23.5	17.6	-96.94	-190.3	-255.4	912.0	874.8	37.23	24.497
6,900.0	6,853.4	6,883.4	6,853.4	23.5	17.6	-96.94	-190.3	-255.4	912.0	874.7	37.31	24.447
7,000.0	6,953.4	6,983.4	6,953.4	23.5	17.6	-96.94	-190.3	-255.4	912.0	874.7	37.38	24.397
7,100.0	7,053.4	7,083.4	7,053.4	23.6	17.7	-96.94	-190.3	-255.4	912.0	874.6	37.46	24.347
7,200.0	7,153.4	7,183.4	7,153.4	23.6	17.7	-96.94	-190.3	-255.4	912.0	874.5	37.54	24.296
7,300.0	7,253.4	7,283.4	7,253.4	23.6	17.8	-96.94	-190.3	-255.4	912.0	874.4	37.62	24.246
7,400.0	7,353.4	7,383.4	7,353.4	23.7	17.8	-96.94	-190.3	-255.4	912.0	874.4	37.70	24.195
7,500.0	7,453.4	7,483.4	7,453.4	23.7	17.8	-96.94	-190.3	-255.4	912.0	874.3	37.77	24.145
7,600.0	7,553.4	7,583.4	7,553.4	23.7	17.9	-96.94	-190.3	-255.4	912.0	874.2	37.85	24.094
7,700.0	7,653.4	7,683.4	7,653.4	23.8	17.9	-96.94	-190.3	-255.4	912.0	874.1	37.93	24.043
7,800.0	7,753.4	7,783.4	7,753.4	23.8	18.0	-96.94	-190.3	-255.4	912.0	874.0	38.01	23.992
7,900.0	7,853.4	7,883.4	7,853.4	23.9	18.0	-96.94	-190.3	-255.4	912.0	873.9	38.10	23.941
8,000.0	7,953.4	7,983.4	7,953.4	23.9	18.0	-96.94	-190.3	-255.4	912.0	873.9	38.18	23.889
8,100.0	8,053.4	8,083.4	8,053.4	23.9	18.1	-96.94	-190.3	-255.4	912.0	873.8	38.26	23.838
8,200.0	8,153.4	8,183.4	8,153.4	24.0	18.1	-96.94	-190.3	-255.4	912.0	873.7	38.34	23.787
8,300.0	8,253.4	8,283.4	8,253.4	24.0	18.2	-96.94	-190.3	-255.4	912.0	873.6	38.43	23.735
8,400.0	8,353.4	8,383.4	8,353.4	24.0	18.2	-96.94	-190.3	-255.4	912.0	873.5	38.51	23.683
8,500.0	8,453.4	8,483.4	8,453.4	24.1	18.3	-96.94	-190.3	-255.4	912.0	873.5	38.59	23.632
8,600.0	8,553.4	8,583.4	8,553.4	24.1	18.3	-96.94	-190.3	-255.4	912.0	873.4	38.68	23.580
8,700.0	8,653.4	8,683.4	8,653.4	24.2	18.3	-96.94	-190.3	-255.4	912.0	873.3	38.76	23.528
8,800.0	8,753.4	8,783.4	8,753.4	24.2	18.4	-96.94	-190.3	-255.4	912.0	873.2	38.85	23.476
8,900.0	8,853.4	8,883.4	8,853.4	24.2	18.4	-96.94	-190.3	-255.4	912.0	873.1	38.94	23.424
9,000.0	8,953.4	8,983.4	8,953.4	24.3	18.5	-96.94	-190.3	-255.4	912.0	873.0	39.02	23.372
9,100.0	9,053.4	9,083.4	9,053.4	24.3	18.5	-96.94	-190.3	-255.4	912.0	872.9	39.11	23.320
9,200.0	9,153.4	9,183.4	9,153.4	24.4	18.6	-96.94	-190.3	-255.4	912.0	872.8	39.20	23.268
9,300.0	9,253.4	9,283.4	9,253.4	24.4	18.6	-96.94	-190.3	-255.4	912.0	872.8	39.29	23.216
9,400.0	9,353.4	9,383.4	9,353.4	24.4	18.6	-96.94	-190.3	-255.4	912.0	872.7	39.37	23.163
9,500.0	9,453.4	9,483.4	9,453.4	24.5	18.7	-96.94	-190.3	-255.4	912.0	872.6	39.46	23.111
9,600.0	9,553.4	9,583.4	9,553.4	24.5	18.7	-96.94	-190.3	-255.4	912.0	872.5	39.55	23.059
9,700.0	9,653.4	9,683.4	9,653.4	24.6	18.8	-96.94	-190.3	-255.4	912.0	872.4	39.64	23.007

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11085-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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)			
9,800.0	9,753.4	9,783.4	9,753.4	24.6	18.8	-96.94	-190.3	-255.4	912.0	872.3	39.73	22.954	
9,900.0	9,853.4	9,883.4	9,853.4	24.6	18.9	-96.94	-190.3	-255.4	912.0	872.2	39.82	22.902	
10,000.0	9,953.4	9,983.4	9,953.4	24.7	18.9	-96.94	-190.3	-255.4	912.0	872.1	39.92	22.849	
10,100.0	10,053.4	10,083.4	10,053.4	24.7	19.0	-96.94	-190.3	-255.4	912.0	872.0	40.01	22.797	
10,200.0	10,153.4	10,183.4	10,153.4	24.8	19.0	-96.94	-190.3	-255.4	912.0	871.9	40.10	22.745	
10,300.0	10,253.4	10,283.4	10,253.4	24.8	19.1	-96.94	-190.3	-255.4	912.0	871.9	40.19	22.692	
10,400.0	10,353.4	10,383.4	10,353.4	24.9	19.1	-96.94	-190.3	-255.4	912.0	871.8	40.29	22.640	
10,500.0	10,453.4	10,483.4	10,453.4	24.9	19.1	-96.94	-190.3	-255.4	912.0	871.7	40.38	22.587	
10,600.0	10,553.4	10,583.4	10,553.4	24.9	19.2	-96.94	-190.3	-255.4	912.0	871.6	40.47	22.535	
10,700.0	10,653.4	10,683.4	10,653.4	25.0	19.2	-96.94	-190.3	-255.4	912.0	871.5	40.57	22.482	
10,800.0	10,753.4	10,783.4	10,753.4	25.0	19.3	-96.94	-190.3	-255.4	912.0	871.4	40.66	22.430	
10,900.0	10,853.4	10,883.4	10,853.4	25.1	19.3	-96.94	-190.3	-255.4	912.0	871.3	40.76	22.378	
11,000.0	10,953.4	10,983.4	10,953.4	25.1	19.4	-96.94	-190.3	-255.4	912.0	871.2	40.85	22.325	
11,100.0	11,053.4	11,083.4	11,053.4	25.2	19.4	-96.94	-190.3	-255.4	912.0	871.1	40.94	22.278	
11,200.0	11,153.4	11,202.1	11,171.3	25.2	19.5	-96.19	-178.2	-255.5	911.0	870.0	41.04	22.198	
11,300.0	11,253.4	11,311.7	11,275.8	25.2	19.7	-94.16	-145.8	-256.0	908.6	867.5	41.10	22.110	
11,389.1	11,342.5	11,396.7	11,351.5	25.3	19.8	-91.73	-107.3	-256.5	906.9	865.9	41.08	22.079	
11,400.0	11,353.4	11,406.2	11,359.6	25.3	19.8	91.61	-102.3	-256.6	906.9	865.8	41.07	22.082	
11,414.6	11,368.0	11,418.3	11,369.8	25.3	19.8	92.05	-95.8	-256.7	906.8	865.8	41.05	22.090	
11,425.0	11,378.4	11,426.6	11,376.6	25.3	19.8	92.36	-91.2	-256.7	906.8	865.8	41.04	22.098	
11,450.0	11,403.3	11,445.1	11,391.8	25.3	19.8	93.09	-80.5	-256.9	907.1	866.1	41.01	22.122	
11,475.0	11,428.0	11,461.7	11,405.1	25.3	19.9	93.76	-70.5	-257.0	907.9	866.9	40.97	22.158	
11,500.0	11,452.5	11,476.5	11,416.6	25.3	19.9	94.33	-61.3	-257.1	909.0	868.1	40.94	22.205	
11,525.0	11,476.6	11,489.5	11,426.6	25.3	19.9	94.79	-53.0	-257.2	910.8	869.9	40.91	22.265	
11,550.0	11,500.4	11,500.0	11,434.5	25.4	19.9	95.07	-46.1	-257.3	913.1	872.3	40.88	22.338	
11,575.0	11,523.8	11,510.2	11,442.1	25.4	19.9	95.29	-39.3	-257.4	916.1	875.3	40.85	22.425	
11,600.0	11,546.7	11,518.2	11,448.0	25.4	19.9	95.30	-33.8	-257.5	919.8	879.0	40.83	22.527	
11,625.0	11,569.0	11,524.8	11,452.7	25.4	19.9	95.16	-29.3	-257.6	924.2	883.4	40.82	22.644	
11,650.0	11,590.6	11,530.0	11,456.5	25.4	19.9	94.85	-25.6	-257.6	929.4	888.6	40.80	22.776	
11,675.0	11,611.7	11,534.0	11,459.3	25.5	20.0	94.38	-22.8	-257.7	935.2	894.4	40.80	22.924	
11,700.0	11,631.9	11,536.8	11,461.3	25.5	20.0	93.74	-20.8	-257.7	941.7	900.9	40.79	23.086	
11,725.0	11,651.4	11,538.6	11,462.6	25.5	20.0	92.95	-19.6	-257.7	949.0	908.2	40.79	23.264	
11,750.0	11,670.0	11,539.4	11,463.1	25.5	20.0	92.00	-19.0	-257.7	956.9	916.1	40.79	23.456	
11,775.0	11,687.8	11,539.3	11,463.1	25.6	20.0	90.91	-19.0	-257.7	965.4	924.6	40.80	23.663	
11,800.0	11,704.6	11,538.4	11,462.4	25.6	20.0	89.68	-19.7	-257.7	974.5	933.7	40.80	23.884	
11,825.0	11,720.4	11,536.8	11,461.3	25.6	20.0	88.32	-20.9	-257.7	984.1	943.3	40.80	24.119	
11,850.0	11,735.1	11,534.5	11,459.6	25.6	20.0	86.85	-22.5	-257.7	994.3	953.4	40.80	24.367	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.9	0.0	3.0	3.0	-17.68	199.0	-63.4	208.9	202.4	6.43	32.488	
100.0	100.0	102.9	100.0	3.2	3.1	-17.68	199.0	-63.4	208.9	202.1	6.72	31.091	
200.0	200.0	202.9	200.0	3.5	3.2	-17.68	199.0	-63.4	208.9	201.8	7.06	29.569	
300.0	300.0	302.9	300.0	3.7	3.3	-17.68	199.0	-63.4	208.9	201.5	7.40	28.238	
400.0	400.0	402.9	400.0	3.9	3.4	-17.68	199.0	-63.4	208.9	201.1	7.72	27.058	
500.0	500.0	502.9	500.0	4.1	3.6	-17.68	199.0	-63.4	208.9	200.8	8.03	26.003	
600.0	600.0	602.9	600.0	4.2	3.7	-17.68	199.0	-63.4	208.9	200.5	8.34	25.051	
700.0	700.0	702.9	700.0	4.4	3.8	-17.68	199.0	-63.4	208.9	200.2	8.64	24.187	
800.0	800.0	802.9	800.0	4.6	3.9	-17.68	199.0	-63.4	208.9	199.9	8.93	23.396	
900.0	900.0	902.9	900.0	4.8	4.0	-17.68	199.0	-63.4	208.9	199.6	9.21	22.670	
1,000.0	1,000.0	1,003.1	1,000.2	4.9	4.2	-17.68	199.0	-63.4	208.9	199.4	9.50	21.995	
1,100.0	1,100.0	1,110.8	1,107.9	5.2	4.4	-115.08	197.1	-62.4	207.6	197.8	9.89	20.999	
1,200.0	1,199.8	1,218.3	1,215.1	5.4	4.7	-116.24	191.7	-59.4	204.3	193.9	10.34	19.759	
1,300.0	1,299.5	1,325.4	1,321.8	5.7	5.0	-118.25	182.9	-54.5	198.9	188.1	10.81	18.405	
1,400.0	1,398.7	1,429.8	1,425.3	6.0	5.4	-121.16	171.0	-47.9	191.9	180.6	11.29	17.004	
1,427.3	1,425.7	1,456.9	1,452.1	6.0	5.4	-122.10	167.7	-46.1	190.2	178.8	11.38	16.714	
1,500.0	1,497.6	1,528.9	1,523.5	6.2	5.6	-124.68	158.9	-41.2	186.0	174.3	11.68	15.921	
1,600.0	1,596.5	1,628.1	1,621.7	6.4	5.9	-128.41	146.8	-34.5	180.8	168.6	12.17	14.853	
1,700.0	1,695.4	1,727.2	1,719.8	6.7	6.2	-132.34	134.8	-27.8	176.5	163.8	12.71	13.891	
1,800.0	1,794.3	1,826.4	1,818.0	7.0	6.5	-136.44	122.7	-21.2	173.1	159.8	13.27	13.039	
1,900.0	1,893.2	1,925.5	1,916.2	7.3	6.8	-140.68	110.6	-14.5	170.5	156.7	13.87	12.300	
2,000.0	1,992.1	2,024.6	2,014.4	7.6	7.1	-145.02	98.6	-7.8	169.0	154.5	14.48	11.672	
2,100.0	2,090.9	2,123.8	2,112.5	7.9	7.5	-149.42	86.5	-1.1	168.5	153.4	15.11	11.154	
2,104.4	2,095.3	2,128.2	2,116.9	7.9	7.5	-149.61	86.0	-0.8	168.5	153.4	15.13	11.133 CC	
2,200.0	2,189.8	2,222.9	2,210.7	8.2	7.8	-153.81	74.4	5.6	169.0	153.2	15.73	10.740 ES	
2,300.0	2,288.7	2,322.1	2,308.9	8.6	8.2	-158.16	62.4	12.3	170.4	154.1	16.35	10.423	
2,400.0	2,387.6	2,421.2	2,407.1	8.9	8.6	-162.41	50.3	19.0	172.9	155.9	16.96	10.195	
2,500.0	2,486.5	2,520.4	2,505.3	9.3	8.9	-166.51	38.2	25.7	176.3	158.8	17.55	10.047	
2,600.0	2,585.4	2,619.5	2,603.4	9.7	9.3	-170.45	26.2	32.4	180.6	162.5	18.11	9.970	
2,700.0	2,684.3	2,718.6	2,701.6	10.0	9.7	-174.19	14.1	39.0	185.7	167.0	18.65	9.954 SF	
2,800.0	2,783.2	2,817.8	2,799.8	10.4	10.1	-177.72	2.0	45.7	191.5	172.4	19.17	9.990	
2,900.0	2,882.1	2,916.9	2,898.0	10.8	10.5	178.97	-10.0	52.4	198.1	178.4	19.67	10.070	
3,000.0	2,981.0	3,016.1	2,996.2	11.2	10.9	175.88	-22.1	59.1	205.3	185.1	20.15	10.187	
3,100.0	3,079.8	3,115.2	3,094.3	11.6	11.3	173.00	-34.2	65.8	213.0	192.4	20.61	10.333	
3,200.0	3,178.7	3,214.4	3,192.5	12.0	11.7	170.33	-46.2	72.5	221.2	200.2	21.06	10.503	
3,300.0	3,277.6	3,313.5	3,290.7	12.4	12.1	167.85	-58.3	79.2	229.9	208.4	21.50	10.692	
3,400.0	3,376.5	3,412.7	3,388.9	12.8	12.5	165.55	-70.4	85.9	239.0	217.0	21.93	10.896	
3,500.0	3,475.4	3,511.8	3,487.0	13.2	12.9	163.43	-82.4	92.6	248.4	226.0	22.36	11.110	
3,600.0	3,574.3	3,610.9	3,585.2	13.6	13.3	161.46	-94.5	99.3	258.2	235.4	22.78	11.333	
3,700.0	3,673.2	3,710.1	3,683.4	14.0	13.7	159.64	-106.6	105.9	268.2	245.0	23.20	11.562	
3,800.0	3,772.1	3,809.2	3,781.6	14.4	14.1	157.94	-118.7	112.6	278.5	254.9	23.61	11.794	
3,900.0	3,871.0	3,908.4	3,879.8	14.8	14.5	156.37	-130.7	119.3	289.0	265.0	24.03	12.027	
4,000.0	3,969.8	4,007.5	3,977.9	15.2	14.9	154.91	-142.8	126.0	299.7	275.2	24.44	12.263	
4,100.0	4,068.7	4,105.9	4,075.5	15.6	15.3	153.66	-154.3	132.4	310.7	285.8	24.84	12.508	
4,200.0	4,167.6	4,204.3	4,173.1	16.1	15.7	152.79	-164.4	138.0	322.0	296.8	25.29	12.733	
4,300.0	4,266.5	4,302.7	4,271.0	16.5	16.1	152.27	-173.0	142.7	333.7	308.0	25.78	12.945	
4,400.0	4,365.4	4,401.1	4,369.1	16.9	16.4	152.06	-180.1	146.7	345.7	319.4	26.31	13.142	
4,500.0	4,464.3	4,499.5	4,467.3	17.3	16.8	152.13	-185.7	149.8	357.9	331.1	26.86	13.325	
4,600.0	4,563.2	4,597.7	4,565.4	17.7	17.1	152.46	-189.9	152.1	370.4	343.0	27.45	13.494	
4,700.0	4,662.1	4,695.8	4,663.5	18.2	17.4	153.02	-192.6	153.6	383.2	355.1	28.07	13.650	
4,800.0	4,761.0	4,793.7	4,761.4	18.6	17.6	153.78	-193.8	154.3	396.2	367.5	28.72	13.797	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,859.9	4,892.2	4,859.9	19.0	17.7	154.68	-193.9	154.3	409.6	380.3	29.34	13.961	
5,000.0	4,958.7	4,991.1	4,958.7	19.4	17.7	155.54	-193.9	154.3	423.1	393.2	29.98	14.114	
5,100.0	5,057.6	5,090.0	5,057.6	19.8	17.8	156.34	-193.9	154.3	436.7	406.1	30.62	14.264	
5,191.9	5,148.5	5,180.9	5,148.5	20.2	17.8	157.04	-193.9	154.3	449.3	418.1	31.20	14.402	
5,200.0	5,156.5	5,188.9	5,156.5	20.3	17.8	157.10	-193.9	154.3	450.4	419.2	31.24	14.415	
5,300.0	5,255.6	5,287.9	5,255.6	20.7	17.8	157.82	-193.9	154.3	463.2	431.3	31.90	14.521	
5,400.0	5,354.8	5,387.2	5,354.8	21.1	17.8	158.41	-193.9	154.3	474.5	442.0	32.49	14.604	
5,500.0	5,454.3	5,486.6	5,454.3	21.5	17.9	158.90	-193.9	154.3	484.2	451.1	33.05	14.648	
5,600.0	5,553.9	5,586.3	5,553.9	21.9	17.9	159.29	-193.9	154.3	492.3	458.7	33.58	14.657	
5,700.0	5,653.7	5,686.0	5,653.7	22.3	17.9	159.60	-193.9	154.3	498.7	464.7	34.08	14.633	
5,800.0	5,753.5	5,785.9	5,753.5	22.6	18.0	159.82	-193.9	154.3	503.6	469.0	34.55	14.577	
5,900.0	5,853.5	5,885.8	5,853.5	22.9	18.0	159.96	-193.9	154.3	506.8	471.8	34.96	14.496	
6,000.0	5,953.4	5,985.8	5,953.4	23.2	18.0	160.03	-193.9	154.3	508.4	473.1	35.31	14.397	
6,046.6	6,000.0	6,032.4	6,000.0	23.2	18.0	-102.94	-193.9	154.3	508.6	473.2	35.39	14.371	
6,100.0	6,053.4	6,085.8	6,053.4	23.2	18.1	-102.94	-193.9	154.3	508.6	473.2	35.42	14.360	
6,200.0	6,153.4	6,185.8	6,153.4	23.3	18.1	-102.94	-193.9	154.3	508.6	473.1	35.49	14.330	
6,300.0	6,253.4	6,285.8	6,253.4	23.3	18.1	-102.94	-193.9	154.3	508.6	473.0	35.57	14.299	
6,400.0	6,353.4	6,385.8	6,353.4	23.3	18.2	-102.94	-193.9	154.3	508.6	472.9	35.64	14.269	
6,500.0	6,453.4	6,485.8	6,453.4	23.4	18.2	-102.94	-193.9	154.3	508.6	472.9	35.72	14.239	
6,600.0	6,553.4	6,585.8	6,553.4	23.4	18.2	-102.94	-193.9	154.3	508.6	472.8	35.79	14.208	
6,700.0	6,653.4	6,685.8	6,653.4	23.4	18.3	-102.94	-193.9	154.3	508.6	472.7	35.87	14.177	
6,800.0	6,753.4	6,785.8	6,753.4	23.5	18.3	-102.94	-193.9	154.3	508.6	472.6	35.95	14.147	
6,900.0	6,853.4	6,885.8	6,853.4	23.5	18.3	-102.94	-193.9	154.3	508.6	472.5	36.03	14.116	
7,000.0	6,953.4	6,985.8	6,953.4	23.5	18.4	-102.94	-193.9	154.3	508.6	472.5	36.11	14.085	
7,100.0	7,053.4	7,085.8	7,053.4	23.6	18.4	-102.94	-193.9	154.3	508.6	472.4	36.19	14.054	
7,200.0	7,153.4	7,185.8	7,153.4	23.6	18.4	-102.94	-193.9	154.3	508.6	472.3	36.27	14.023	
7,300.0	7,253.4	7,285.8	7,253.4	23.6	18.5	-102.94	-193.9	154.3	508.6	472.2	36.35	13.992	
7,400.0	7,353.4	7,385.8	7,353.4	23.7	18.5	-102.94	-193.9	154.3	508.6	472.1	36.43	13.960	
7,500.0	7,453.4	7,485.8	7,453.4	23.7	18.6	-102.94	-193.9	154.3	508.6	472.1	36.51	13.929	
7,600.0	7,553.4	7,585.8	7,553.4	23.7	18.6	-102.94	-193.9	154.3	508.6	472.0	36.59	13.898	
7,700.0	7,653.4	7,685.8	7,653.4	23.8	18.6	-102.94	-193.9	154.3	508.6	471.9	36.68	13.866	
7,800.0	7,753.4	7,785.8	7,753.4	23.8	18.7	-102.94	-193.9	154.3	508.6	471.8	36.76	13.835	
7,900.0	7,853.4	7,885.8	7,853.4	23.9	18.7	-102.94	-193.9	154.3	508.6	471.7	36.84	13.803	
8,000.0	7,953.4	7,985.8	7,953.4	23.9	18.7	-102.94	-193.9	154.3	508.6	471.6	36.93	13.772	
8,100.0	8,053.4	8,085.8	8,053.4	23.9	18.8	-102.94	-193.9	154.3	508.6	471.6	37.01	13.740	
8,200.0	8,153.4	8,185.8	8,153.4	24.0	18.8	-102.94	-193.9	154.3	508.6	471.5	37.10	13.709	
8,300.0	8,253.4	8,285.8	8,253.4	24.0	18.9	-102.94	-193.9	154.3	508.6	471.4	37.18	13.677	
8,400.0	8,353.4	8,385.8	8,353.4	24.0	18.9	-102.94	-193.9	154.3	508.6	471.3	37.27	13.645	
8,500.0	8,453.4	8,485.8	8,453.4	24.1	18.9	-102.94	-193.9	154.3	508.6	471.2	37.36	13.613	
8,600.0	8,553.4	8,585.8	8,553.4	24.1	19.0	-102.94	-193.9	154.3	508.6	471.1	37.45	13.582	
8,700.0	8,653.4	8,685.8	8,653.4	24.2	19.0	-102.94	-193.9	154.3	508.6	471.0	37.53	13.550	
8,800.0	8,753.4	8,785.8	8,753.4	24.2	19.1	-102.94	-193.9	154.3	508.6	471.0	37.62	13.518	
8,900.0	8,853.4	8,885.8	8,853.4	24.2	19.1	-102.94	-193.9	154.3	508.6	470.9	37.71	13.486	
9,000.0	8,953.4	8,985.8	8,953.4	24.3	19.1	-102.94	-193.9	154.3	508.6	470.8	37.80	13.454	
9,100.0	9,053.4	9,085.8	9,053.4	24.3	19.2	-102.94	-193.9	154.3	508.6	470.7	37.89	13.422	
9,200.0	9,153.4	9,185.8	9,153.4	24.4	19.2	-102.94	-193.9	154.3	508.6	470.6	37.98	13.390	
9,300.0	9,253.4	9,285.8	9,253.4	24.4	19.3	-102.94	-193.9	154.3	508.6	470.5	38.07	13.358	
9,400.0	9,353.4	9,385.8	9,353.4	24.4	19.3	-102.94	-193.9	154.3	508.6	470.4	38.16	13.326	
9,500.0	9,453.4	9,485.8	9,453.4	24.5	19.4	-102.94	-193.9	154.3	508.6	470.3	38.25	13.294	
9,600.0	9,553.4	9,585.8	9,553.4	24.5	19.4	-102.94	-193.9	154.3	508.6	470.2	38.35	13.262	
9,700.0	9,653.4	9,685.8	9,653.4	24.6	19.4	-102.94	-193.9	154.3	508.6	470.1	38.44	13.230	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,800.0	9,753.4	9,785.8	9,753.4	24.6	19.5	-102.94	-193.9	154.3	508.6	470.0	38.53	13.198		
9,900.0	9,853.4	9,885.8	9,853.4	24.6	19.5	-102.94	-193.9	154.3	508.6	469.9	38.63	13.166		
10,000.0	9,953.4	9,985.8	9,953.4	24.7	19.6	-102.94	-193.9	154.3	508.6	469.9	38.72	13.134		
10,100.0	10,053.4	10,085.8	10,053.4	24.7	19.6	-102.94	-193.9	154.3	508.6	469.8	38.81	13.102		
10,200.0	10,153.4	10,185.8	10,153.4	24.8	19.7	-102.94	-193.9	154.3	508.6	469.7	38.91	13.071		
10,300.0	10,253.4	10,285.8	10,253.4	24.8	19.7	-102.94	-193.9	154.3	508.6	469.6	39.01	13.039		
10,400.0	10,353.4	10,385.8	10,353.4	24.9	19.8	-102.94	-193.9	154.3	508.6	469.5	39.10	13.007		
10,500.0	10,453.4	10,485.8	10,453.4	24.9	19.8	-102.94	-193.9	154.3	508.6	469.4	39.20	12.975		
10,600.0	10,553.4	10,585.8	10,553.4	24.9	19.8	-102.94	-193.9	154.3	508.6	469.3	39.29	12.943		
10,700.0	10,653.4	10,685.8	10,653.4	25.0	19.9	-102.94	-193.9	154.3	508.6	469.2	39.39	12.911		
10,800.0	10,753.4	10,785.8	10,753.4	25.0	19.9	-102.94	-193.9	154.3	508.6	469.1	39.49	12.879		
10,900.0	10,853.4	10,885.8	10,853.4	25.1	20.0	-102.94	-193.9	154.3	508.6	469.0	39.59	12.847		
11,000.0	10,953.4	11,001.1	10,968.4	25.1	20.1	-102.26	-187.7	154.3	507.5	467.7	39.85	12.736		
11,100.0	11,053.4	11,116.1	11,079.7	25.2	20.2	-99.10	-159.5	153.9	503.2	462.7	40.44	12.443		
11,200.0	11,153.4	11,216.7	11,170.8	25.2	20.3	-94.27	-117.1	153.3	498.4	457.4	41.07	12.135		
11,263.9	11,217.3	11,272.0	11,217.3	25.2	20.4	-90.82	-87.1	152.8	497.2	455.8	41.41	12.007		
11,300.0	11,253.4	11,300.0	11,239.6	25.2	20.4	-88.88	-70.3	152.6	497.7	456.1	41.57	11.974		
11,389.1	11,342.5	11,361.7	11,285.9	25.3	20.5	-84.21	-29.5	152.0	503.7	461.9	41.87	12.031		
11,400.0	11,353.4	11,368.4	11,290.6	25.3	20.5	99.17	-24.8	151.9	505.1	463.2	41.90	12.054		
11,425.0	11,378.4	11,382.4	11,300.4	25.3	20.5	99.93	-14.7	151.8	508.7	466.8	41.98	12.119		
11,450.0	11,403.3	11,394.9	11,308.9	25.3	20.5	100.50	-5.5	151.7	513.4	471.4	42.06	12.207		
11,475.0	11,428.0	11,405.8	11,316.1	25.3	20.5	100.83	2.6	151.5	519.2	477.0	42.15	12.317		
11,500.0	11,452.5	11,415.3	11,322.3	25.3	20.5	100.92	9.8	151.4	526.0	483.8	42.25	12.450		
11,525.0	11,476.6	11,423.3	11,327.4	25.3	20.5	100.74	15.9	151.3	534.0	491.7	42.36	12.607		
11,550.0	11,500.4	11,429.9	11,331.6	25.4	20.5	100.29	21.1	151.3	543.2	500.7	42.47	12.788		
11,575.0	11,523.8	11,435.3	11,334.9	25.4	20.5	99.55	25.3	151.2	553.4	510.8	42.59	12.992		
11,600.0	11,546.7	11,439.6	11,337.5	25.4	20.5	98.52	28.7	151.2	564.7	521.9	42.72	13.218		
11,625.0	11,569.0	11,450.0	11,343.8	25.4	20.6	98.02	37.0	151.0	577.0	534.1	42.86	13.464		
11,650.0	11,590.6	11,450.0	11,343.8	25.4	20.6	96.18	37.0	151.0	590.2	547.2	42.97	13.734		
11,675.0	11,611.7	11,450.0	11,343.8	25.5	20.6	94.15	37.0	151.0	604.2	561.1	43.09	14.023		
11,700.0	11,631.9	11,450.0	11,343.8	25.5	20.6	91.95	37.0	151.0	619.0	575.8	43.20	14.330		
11,725.0	11,651.4	11,450.0	11,343.8	25.5	20.6	89.59	37.0	151.0	634.5	591.2	43.30	14.653		
11,750.0	11,670.0	11,450.0	11,343.8	25.5	20.6	87.08	37.0	151.0	650.5	607.1	43.39	14.992		
11,775.0	11,687.8	11,450.0	11,343.8	25.6	20.6	84.43	37.0	151.0	667.1	623.6	43.47	15.345		
11,800.0	11,704.6	11,450.0	11,343.8	25.6	20.6	81.68	37.0	151.0	684.0	640.5	43.54	15.712		
11,825.0	11,720.4	11,437.2	11,336.1	25.6	20.5	77.47	26.9	151.2	701.2	657.5	43.61	16.077		
11,850.0	11,735.1	11,433.6	11,333.9	25.6	20.5	74.26	24.0	151.2	718.6	675.0	43.66	16.460		
11,875.0	11,748.8	11,429.5	11,331.3	25.7	20.5	71.01	20.8	151.3	736.2	692.5	43.69	16.850		
11,900.0	11,761.4	11,425.0	11,328.5	25.7	20.5	67.77	17.3	151.3	753.9	710.2	43.71	17.246		
11,925.0	11,772.8	11,420.0	11,325.3	25.7	20.5	64.59	13.4	151.4	771.6	727.9	43.72	17.647		
11,950.0	11,783.0	11,414.6	11,321.9	25.8	20.5	61.49	9.3	151.4	789.2	745.5	43.72	18.053		
11,975.0	11,792.1	11,400.0	11,312.3	25.8	20.5	57.87	-1.7	151.6	806.8	763.1	43.73	18.450		
12,000.0	11,799.9	11,400.0	11,312.3	25.8	20.5	55.49	-1.7	151.6	824.1	780.4	43.68	18.865		
12,025.0	11,806.4	11,400.0	11,312.3	25.9	20.5	53.20	-1.7	151.6	841.2	797.5	43.62	19.285		
12,050.0	11,811.7	11,400.0	11,312.3	25.9	20.5	51.03	-1.7	151.6	858.1	814.5	43.54	19.707		
12,075.0	11,815.7	11,383.0	11,300.8	25.9	20.5	48.14	-14.3	151.8	874.4	830.9	43.51	20.095		
12,100.0	11,818.4	11,375.8	11,295.8	25.9	20.5	45.97	-19.5	151.9	890.5	847.1	43.44	20.499		
12,125.0	11,819.8	11,368.5	11,290.7	26.0	20.5	43.96	-24.7	151.9	906.2	862.8	43.36	20.899		
12,139.1	11,820.0	11,364.2	11,287.7	26.0	20.5	42.90	-27.7	152.0	914.8	871.5	43.31	21.123		
12,200.0	11,820.0	11,350.0	11,277.4	26.1	20.4	43.07	-37.6	152.1	952.3	909.2	43.07	22.109		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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							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	
0.0	0.0	3.4	0.0	3.0	3.0	-9.58	199.5	-33.7	202.3	195.9	6.43	31.465		
100.0	100.0	103.4	100.0	3.2	3.1	-9.58	199.5	-33.7	202.3	195.6	6.72	30.110		
200.0	200.0	203.4	200.0	3.5	3.2	-9.58	199.5	-33.7	202.3	195.2	7.06	28.635		
300.0	300.0	303.4	300.0	3.7	3.3	-9.58	199.5	-33.7	202.3	194.9	7.40	27.344		
400.0	400.0	403.4	400.0	3.9	3.4	-9.58	199.5	-33.7	202.3	194.6	7.72	26.200		
500.0	500.0	503.4	500.0	4.1	3.6	-9.58	199.5	-33.7	202.3	194.3	8.04	25.176		
600.0	600.0	603.4	600.0	4.2	3.7	-9.58	199.5	-33.7	202.3	193.9	8.34	24.251		
700.0	700.0	703.4	700.0	4.4	3.8	-9.58	199.5	-33.7	202.3	193.6	8.64	23.412		
800.0	800.0	803.4	800.0	4.6	3.9	-9.58	199.5	-33.7	202.3	193.4	8.93	22.644		
900.0	900.0	903.4	900.0	4.8	4.0	-9.58	199.5	-33.7	202.3	193.1	9.22	21.939		
1,000.0	1,000.0	1,003.6	1,000.2	4.9	4.2	-9.58	199.5	-33.7	202.3	192.8	9.50	21.286		
1,100.0	1,100.0	1,108.6	1,105.2	5.2	4.3	-106.69	198.3	-32.0	201.5	191.6	9.83	20.503		
1,200.0	1,199.8	1,213.5	1,209.9	5.4	4.6	-107.00	195.1	-27.0	199.2	189.0	10.20	19.526		
1,300.0	1,299.5	1,318.4	1,314.3	5.7	5.0	-107.54	189.8	-18.9	195.4	184.8	10.58	18.469		
1,400.0	1,398.7	1,422.0	1,417.1	6.0	5.3	-108.37	182.6	-7.7	190.2	179.3	10.97	17.349		
1,427.3	1,425.7	1,449.3	1,444.1	6.0	5.4	-108.70	180.5	-4.5	188.8	177.8	11.04	17.108		
1,500.0	1,497.6	1,521.8	1,515.9	6.2	5.5	-109.64	175.0	3.9	185.2	173.9	11.28	16.415		
1,600.0	1,596.5	1,621.6	1,614.7	6.4	5.8	-110.99	167.5	15.6	180.3	168.6	11.69	15.429		
1,700.0	1,695.4	1,721.4	1,713.6	6.7	6.1	-112.42	159.9	27.2	175.5	163.4	12.11	14.486		
1,800.0	1,794.3	1,821.2	1,812.4	7.0	6.4	-113.92	152.4	38.9	170.8	158.2	12.57	13.587		
1,900.0	1,893.2	1,921.0	1,911.2	7.3	6.8	-115.51	144.8	50.5	166.2	153.2	13.06	12.731		
2,000.0	1,992.1	2,020.7	2,010.0	7.6	7.1	-117.19	137.2	62.2	161.8	148.2	13.58	11.917		
2,100.0	2,090.9	2,120.5	2,108.8	7.9	7.4	-118.96	129.7	73.8	157.5	143.4	14.13	11.146		
2,200.0	2,189.8	2,220.3	2,207.6	8.2	7.8	-120.83	122.1	85.4	153.4	138.7	14.72	10.419		
2,300.0	2,288.7	2,320.1	2,306.5	8.6	8.2	-122.79	114.5	97.1	149.4	134.1	15.35	9.734		
2,400.0	2,387.6	2,419.9	2,405.3	8.9	8.5	-124.86	107.0	108.7	145.7	129.7	16.02	9.092		
2,500.0	2,486.5	2,519.7	2,504.1	9.3	8.9	-127.04	99.4	120.4	142.1	125.4	16.73	8.493		
2,600.0	2,585.4	2,619.5	2,602.9	9.7	9.3	-129.33	91.8	132.0	138.8	121.3	17.48	7.937		
2,700.0	2,684.3	2,719.3	2,701.7	10.0	9.7	-131.72	84.3	143.7	135.7	117.4	18.28	7.422		
2,800.0	2,783.2	2,819.0	2,800.5	10.4	10.1	-134.23	76.7	155.3	132.8	113.7	19.11	6.950		
2,900.0	2,882.1	2,918.8	2,899.3	10.8	10.4	-136.83	69.2	167.0	130.2	110.2	19.97	6.519		
3,000.0	2,981.0	3,018.6	2,998.2	11.2	10.8	-139.54	61.6	178.6	127.9	107.0	20.87	6.127		
3,100.0	3,079.8	3,118.4	3,097.0	11.6	11.2	-142.34	54.0	190.3	125.8	104.0	21.79	5.775		
3,200.0	3,178.7	3,218.2	3,195.8	12.0	11.6	-145.23	46.5	201.9	124.1	101.4	22.73	5.461		
3,300.0	3,277.6	3,318.0	3,294.6	12.4	12.0	-148.19	38.9	213.6	122.7	99.0	23.68	5.182		
3,400.0	3,376.5	3,417.8	3,393.4	12.8	12.4	-151.20	31.3	225.2	121.7	97.0	24.64	4.939		
3,500.0	3,475.4	3,517.5	3,492.2	13.2	12.9	-154.26	23.8	236.9	121.0	95.4	25.59	4.728		
3,600.0	3,574.3	3,617.3	3,591.1	13.6	13.3	-157.35	16.2	248.5	120.6	94.1	26.52	4.548		
3,652.0	3,625.7	3,669.2	3,642.4	13.8	13.5	-158.96	12.3	254.6	120.6	93.6	27.00	4.466		
3,700.0	3,673.2	3,717.1	3,689.9	14.0	13.7	-160.45	8.6	260.2	120.6	93.2	27.43	4.397		
3,800.0	3,772.1	3,816.9	3,788.7	14.4	14.1	-163.54	1.1	271.8	120.9	92.6	28.31	4.272		
3,900.0	3,871.0	3,916.7	3,887.5	14.8	14.5	-166.60	-6.5	283.4	121.6	92.5	29.15	4.173		
4,000.0	3,969.8	4,016.5	3,986.3	15.2	14.9	-169.62	-14.0	295.1	122.7	92.7	29.95	4.097		
4,100.0	4,068.7	4,116.3	4,085.1	15.6	15.3	-172.58	-21.6	306.7	124.1	93.4	30.70	4.041		
4,200.0	4,167.6	4,216.0	4,183.9	16.1	15.7	-175.47	-29.2	318.4	125.8	94.4	31.40	4.005		
4,300.0	4,266.5	4,315.8	4,282.8	16.5	16.2	-178.27	-36.7	330.0	127.8	95.7	32.06	3.986		
4,400.0	4,365.4	4,415.6	4,381.6	16.9	16.6	-179.02	-44.3	341.7	130.1	97.4	32.66	3.982		
4,500.0	4,464.3	4,515.4	4,480.4	17.3	17.0	-176.40	-51.9	353.3	132.7	99.4	33.23	3.993		
4,600.0	4,563.2	4,615.2	4,579.2	17.7	17.4	-173.90	-59.4	365.0	135.5	101.8	33.75	4.016		
4,700.0	4,662.1	4,715.0	4,678.0	18.2	17.8	-171.50	-67.0	376.6	138.6	104.4	34.23	4.051		
4,800.0	4,761.0	4,814.8	4,776.8	18.6	18.2	-169.21	-74.6	388.3	142.0	107.3	34.67	4.095		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	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)		
4,900.0	4,859.9	4,914.6	4,875.6	19.0	18.7	167.03	-82.1	399.9	145.5	110.5	35.08	4.148	
5,000.0	4,958.7	5,014.3	4,974.5	19.4	19.1	164.95	-89.7	411.6	149.3	113.8	35.47	4.209	
5,100.0	5,057.6	5,114.1	5,073.3	19.8	19.5	162.98	-97.2	423.2	153.2	117.4	35.83	4.277	
5,191.9	5,148.5	5,205.8	5,164.1	20.2	19.9	161.25	-104.2	433.9	157.0	120.9	36.14	4.345	
5,200.0	5,156.5	5,213.9	5,172.1	20.3	19.9	161.11	-104.8	434.9	157.3	121.2	36.16	4.351	
5,300.0	5,255.6	5,313.7	5,270.9	20.7	20.4	159.22	-112.4	446.5	160.7	124.2	36.48	4.405	
5,400.0	5,354.8	5,413.5	5,369.8	21.1	20.8	157.17	-119.9	458.2	162.6	125.9	36.67	4.433	
5,500.0	5,454.3	5,513.3	5,468.6	21.5	21.2	154.91	-127.5	469.8	163.1	126.3	36.74	4.439	
5,600.0	5,553.9	5,612.5	5,566.8	21.9	21.6	152.45	-134.9	481.2	162.4	125.8	36.66	4.430	
5,700.0	5,653.7	5,711.4	5,664.9	22.3	22.0	149.92	-141.8	491.9	161.0	124.5	36.49	4.413	
5,800.0	5,753.5	5,810.3	5,763.1	22.6	22.4	147.27	-148.3	501.9	158.9	122.7	36.21	4.390	
5,900.0	5,853.5	5,909.3	5,861.5	22.9	22.8	144.46	-154.3	511.1	156.2	120.4	35.78	4.366	
6,000.0	5,953.4	6,008.3	5,960.0	23.2	23.2	141.44	-159.9	519.7	152.9	117.7	35.17	4.346	
6,046.6	6,000.0	6,054.4	6,005.8	23.2	23.4	-123.04	-162.3	523.4	151.1	116.3	34.79	4.344	
6,100.0	6,053.4	6,107.3	6,058.6	23.2	23.6	-124.76	-165.0	527.5	149.2	114.9	34.28	4.351	
6,200.0	6,153.4	6,206.5	6,157.4	23.3	24.0	-127.85	-169.6	534.7	146.1	112.7	33.40	4.374	
6,300.0	6,253.4	6,305.8	6,256.4	23.3	24.4	-130.74	-173.8	541.1	143.8	111.2	32.60	4.410	
6,400.0	6,353.4	6,405.3	6,355.6	23.3	24.7	-133.38	-177.5	546.8	142.0	110.1	31.89	4.453	
6,500.0	6,453.4	6,504.8	6,455.0	23.4	25.1	-135.74	-180.8	551.8	140.7	109.4	31.30	4.496	
6,600.0	6,553.4	6,604.5	6,554.5	23.4	25.4	-137.79	-183.5	556.1	139.8	109.0	30.83	4.535	
6,700.0	6,653.4	6,704.2	6,654.1	23.4	25.8	-139.51	-185.8	559.6	139.2	108.7	30.48	4.566	
6,800.0	6,753.4	6,804.0	6,753.9	23.5	26.1	-140.89	-187.7	562.5	138.8	108.5	30.25	4.588	
6,900.0	6,853.4	6,903.9	6,853.7	23.5	26.4	-141.92	-189.0	564.6	138.5	108.4	30.12	4.599	
7,000.0	6,953.4	7,003.8	6,953.6	23.5	26.6	-142.60	-189.9	565.9	138.4	108.3	30.10	4.598	
7,100.0	7,053.4	7,103.7	7,053.5	23.6	26.8	-142.92	-190.4	566.6	138.3	108.2	30.15	4.588	
7,153.6	7,107.1	7,157.3	7,107.1	23.6	26.9	-142.94	-190.4	566.6	138.3	108.1	30.19	4.582	
7,200.0	7,153.4	7,203.6	7,153.4	23.6	26.9	-142.94	-190.4	566.6	138.3	108.1	30.22	4.577	
7,300.0	7,253.4	7,303.6	7,253.4	23.6	26.9	-142.94	-190.4	566.6	138.3	108.0	30.32	4.563	
7,400.0	7,353.4	7,403.6	7,353.4	23.7	26.9	-142.94	-190.4	566.6	138.3	107.9	30.41	4.549	
7,500.0	7,453.4	7,503.6	7,453.4	23.7	26.9	-142.94	-190.4	566.6	138.3	107.8	30.51	4.534	
7,600.0	7,553.4	7,603.6	7,553.4	23.7	27.0	-142.94	-190.4	566.6	138.3	107.7	30.60	4.520	
7,700.0	7,653.4	7,703.6	7,653.4	23.8	27.0	-142.94	-190.4	566.6	138.3	107.6	30.70	4.506	
7,800.0	7,753.4	7,803.6	7,753.4	23.8	27.0	-142.94	-190.4	566.6	138.3	107.5	30.80	4.492	
7,900.0	7,853.4	7,903.6	7,853.4	23.9	27.0	-142.94	-190.4	566.6	138.3	107.4	30.90	4.477	
8,000.0	7,953.4	8,003.6	7,953.4	23.9	27.0	-142.94	-190.4	566.6	138.3	107.3	30.99	4.463	
8,100.0	8,053.4	8,103.6	8,053.4	23.9	27.1	-142.94	-190.4	566.6	138.3	107.2	31.09	4.449	
8,200.0	8,153.4	8,203.6	8,153.4	24.0	27.1	-142.94	-190.4	566.6	138.3	107.1	31.19	4.435	
8,300.0	8,253.4	8,303.6	8,253.4	24.0	27.1	-142.94	-190.4	566.6	138.3	107.0	31.29	4.421	
8,400.0	8,353.4	8,403.6	8,353.4	24.0	27.1	-142.94	-190.4	566.6	138.3	106.9	31.39	4.407	
8,500.0	8,453.4	8,503.6	8,453.4	24.1	27.1	-142.94	-190.4	566.6	138.3	106.8	31.49	4.392	
8,600.0	8,553.4	8,603.6	8,553.4	24.1	27.2	-142.94	-190.4	566.6	138.3	106.7	31.59	4.378	
8,700.0	8,653.4	8,703.6	8,653.4	24.2	27.2	-142.94	-190.4	566.6	138.3	106.6	31.70	4.364	
8,800.0	8,753.4	8,803.6	8,753.4	24.2	27.2	-142.94	-190.4	566.6	138.3	106.5	31.80	4.350	
8,900.0	8,853.4	8,903.6	8,853.4	24.2	27.2	-142.94	-190.4	566.6	138.3	106.4	31.90	4.336	
9,000.0	8,953.4	9,003.6	8,953.4	24.3	27.3	-142.94	-190.4	566.6	138.3	106.3	32.00	4.322	
9,100.0	9,053.4	9,103.6	9,053.4	24.3	27.3	-142.94	-190.4	566.6	138.3	106.2	32.11	4.308	
9,200.0	9,153.4	9,203.6	9,153.4	24.4	27.3	-142.94	-190.4	566.6	138.3	106.1	32.21	4.294	
9,300.0	9,253.4	9,303.6	9,253.4	24.4	27.3	-142.94	-190.4	566.6	138.3	106.0	32.32	4.280	
9,400.0	9,353.4	9,403.6	9,353.4	24.4	27.4	-142.94	-190.4	566.6	138.3	105.9	32.42	4.266	
9,500.0	9,453.4	9,503.6	9,453.4	24.5	27.4	-142.94	-190.4	566.6	138.3	105.8	32.53	4.253	
9,600.0	9,553.4	9,603.6	9,553.4	24.5	27.4	-142.94	-190.4	566.6	138.3	105.7	32.63	4.239	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.0	9,653.4	9,703.6	9,653.4	24.6	27.4	-142.94	-190.4	566.6	138.3	105.6	32.74	4.225	
9,800.0	9,753.4	9,803.6	9,753.4	24.6	27.5	-142.94	-190.4	566.6	138.3	105.5	32.85	4.211	
9,900.0	9,853.4	9,903.6	9,853.4	24.6	27.5	-142.94	-190.4	566.6	138.3	105.4	32.96	4.197	
10,000.0	9,953.4	10,003.6	9,953.4	24.7	27.5	-142.94	-190.4	566.6	138.3	105.3	33.06	4.184	
10,100.0	10,053.4	10,103.6	10,053.4	24.7	27.5	-142.94	-190.4	566.6	138.3	105.2	33.17	4.170	
10,200.0	10,153.4	10,203.6	10,153.4	24.8	27.6	-142.94	-190.4	566.6	138.3	105.0	33.28	4.156	
10,300.0	10,253.4	10,303.6	10,253.4	24.8	27.6	-142.94	-190.4	566.6	138.3	104.9	33.39	4.143	
10,400.0	10,353.4	10,403.6	10,353.4	24.9	27.6	-142.94	-190.4	566.6	138.3	104.8	33.50	4.129	
10,500.0	10,453.4	10,503.6	10,453.4	24.9	27.6	-142.94	-190.4	566.6	138.3	104.7	33.61	4.116	
10,600.0	10,553.4	10,603.6	10,553.4	24.9	27.7	-142.94	-190.4	566.6	138.3	104.6	33.72	4.102	
10,700.0	10,653.4	10,703.6	10,653.4	25.0	27.7	-142.94	-190.4	566.6	138.3	104.5	33.83	4.089	
10,800.0	10,753.4	10,803.6	10,753.4	25.0	27.7	-142.94	-190.4	566.6	138.3	104.4	33.94	4.075	
10,900.0	10,853.4	10,903.6	10,853.4	25.1	27.7	-142.94	-190.4	566.6	138.3	104.3	34.05	4.062	
11,000.0	10,953.4	11,003.6	10,953.4	25.1	27.8	-142.94	-190.4	566.6	138.3	104.2	34.17	4.049	
11,100.0	11,053.4	11,103.6	11,053.4	25.2	27.8	-142.94	-190.4	566.6	138.3	104.1	34.28	4.035	
11,200.0	11,153.4	11,225.3	11,174.2	25.2	27.8	-139.42	-177.6	566.4	130.1	94.2	35.88	3.626	
11,300.0	11,253.4	11,336.9	11,280.3	25.2	27.9	-127.13	-143.6	565.9	108.8	68.7	40.08	2.715	
11,389.1	11,342.5	11,423.0	11,356.5	25.3	27.9	-105.70	-103.8	565.3	89.1	42.6	46.43	1.918 Advise and Monitor	
11,400.0	11,353.4	11,432.5	11,364.6	25.3	27.9	80.82	-98.7	565.3	87.5	40.2	47.27	1.850 Advise and Monitor	
11,425.0	11,378.4	11,453.0	11,381.6	25.3	27.9	89.20	-87.2	565.1	85.3	36.2	49.07	1.737 Advise and Monitor	
11,433.0	11,386.4	11,459.2	11,386.7	25.3	27.9	91.90	-83.7	565.0	85.1	35.5	49.56	1.717 Advise and Monitor, CC	
11,450.0	11,403.3	11,471.6	11,396.7	25.3	27.9	97.42	-76.4	564.9	85.9	35.5	50.36	1.705 Advise and Monitor, ES, SF	
11,475.0	11,428.0	11,488.3	11,409.9	25.3	27.9	104.80	-66.2	564.8	90.1	39.3	50.84	1.773 Advise and Monitor	
11,500.0	11,452.5	11,503.0	11,421.3	25.3	28.0	110.92	-56.9	564.6	98.3	47.8	50.53	1.946 Advise and Monitor	
11,525.0	11,476.6	11,515.9	11,431.1	25.3	28.0	115.61	-48.5	564.5	110.1	60.4	49.76	2.213	
11,550.0	11,500.4	11,527.0	11,439.4	25.4	28.0	118.89	-41.1	564.4	125.0	76.1	48.85	2.558	
11,575.0	11,523.8	11,536.5	11,446.3	25.4	28.0	120.83	-34.7	564.3	142.2	94.2	48.02	2.962	
11,600.0	11,546.7	11,544.3	11,452.0	25.4	28.0	121.48	-29.3	564.2	161.4	114.1	47.32	3.411	
11,625.0	11,569.0	11,550.0	11,456.1	25.4	28.0	120.49	-25.3	564.1	182.0	135.2	46.79	3.890	
11,650.0	11,590.6	11,550.0	11,456.1	25.4	28.0	115.75	-25.3	564.1	203.8	157.4	46.45	4.388	
11,675.0	11,611.7	11,559.6	11,462.8	25.5	28.0	115.38	-18.5	564.0	226.2	180.2	46.02	4.916	
11,700.0	11,631.9	11,562.3	11,464.7	25.5	28.0	110.16	-16.6	564.0	249.4	203.6	45.76	5.450	
11,725.0	11,651.4	11,563.9	11,465.8	25.5	28.0	102.97	-15.4	564.0	273.0	227.4	45.55	5.992	
11,750.0	11,670.0	11,564.5	11,466.3	25.5	28.0	93.73	-15.0	564.0	296.9	251.5	45.38	6.541	
11,775.0	11,687.8	11,564.3	11,466.1	25.6	28.0	82.78	-15.1	564.0	320.9	275.7	45.24	7.095	
11,800.0	11,704.6	11,563.2	11,465.4	25.6	28.0	71.03	-15.9	564.0	345.1	300.0	45.11	7.651	
11,825.0	11,720.4	11,561.4	11,464.1	25.6	28.0	59.71	-17.2	564.0	369.3	324.3	44.99	8.208	
11,850.0	11,735.1	11,550.0	11,456.1	25.6	28.0	46.47	-25.3	564.1	393.6	348.5	45.03	8.739	
11,875.0	11,748.8	11,550.0	11,456.1	25.7	28.0	39.94	-25.3	564.1	417.4	372.5	44.87	9.303	
11,900.0	11,761.4	11,550.0	11,456.1	25.7	28.0	34.57	-25.3	564.1	441.1	396.4	44.70	9.868	
11,925.0	11,772.8	11,550.0	11,456.1	25.7	28.0	30.17	-25.3	564.1	464.6	420.1	44.52	10.434	
11,950.0	11,783.0	11,550.0	11,456.1	25.8	28.0	26.57	-25.3	564.1	487.8	443.5	44.34	11.001	
11,975.0	11,792.1	11,538.1	11,447.5	25.8	28.0	22.52	-33.6	564.3	510.6	466.2	44.33	11.518	
12,000.0	11,799.9	11,532.5	11,443.4	25.8	28.0	19.90	-37.4	564.3	533.0	488.8	44.21	12.056	
12,025.0	11,806.4	11,526.6	11,439.0	25.9	28.0	17.77	-41.4	564.4	555.0	510.9	44.08	12.589	
12,050.0	11,811.7	11,520.3	11,434.4	25.9	28.0	16.01	-45.6	564.5	576.5	532.5	43.95	13.116	
12,075.0	11,815.7	11,513.7	11,429.4	25.9	28.0	14.55	-50.0	564.5	597.5	553.7	43.82	13.635	
12,100.0	11,818.4	11,500.0	11,419.0	25.9	27.9	13.15	-58.8	564.7	618.0	574.3	43.76	14.122	
12,125.0	11,819.8	11,500.0	11,419.0	26.0	27.9	12.29	-58.8	564.7	637.8	594.3	43.53	14.653	
12,139.1	11,820.0	11,500.0	11,419.0	26.0	27.9	11.85	-58.8	564.7	648.8	605.4	43.40	14.951	
12,200.0	11,820.0	11,478.0	11,401.7	26.1	27.9	12.88	-72.5	564.9	696.3	653.2	43.10	16.154	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Rule Assigned:		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,300.0	11,820.0	11,450.0	11,379.1	26.3	27.9	14.76	-89.0	565.1	776.2	733.6	42.59	18.227	
12,306.1	11,820.0	11,450.0	11,379.1	26.3	27.9	14.93	-89.0	565.1	781.2	738.7	42.54	18.363	
12,400.0	11,820.0	11,429.1	11,361.7	26.5	27.9	14.36	-100.6	565.3	858.5	816.4	42.09	20.399	
12,500.0	11,820.0	11,400.0	11,336.8	26.8	27.9	13.61	-115.5	565.5	943.1	901.4	41.75	22.589	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	3.1	0.0	3.0	3.0	-0.95	199.9	-3.3	200.0	193.5	6.43	31.105	
100.0	100.0	103.1	100.0	3.2	3.1	-0.95	199.9	-3.3	200.0	193.3	6.72	29.766	
200.0	200.0	203.1	200.0	3.5	3.2	-0.95	199.9	-3.3	200.0	192.9	7.06	28.308	
300.0	300.0	303.1	300.0	3.7	3.3	-0.95	199.9	-3.3	200.0	192.6	7.40	27.031	
400.0	400.0	403.1	400.0	3.9	3.4	-0.95	199.9	-3.3	200.0	192.2	7.72	25.898	
500.0	500.0	503.1	500.0	4.1	3.6	-0.95	199.9	-3.3	200.0	191.9	8.04	24.885	
600.0	600.0	603.1	600.0	4.2	3.7	-0.95	199.9	-3.3	200.0	191.6	8.34	23.971	
700.0	700.0	703.1	700.0	4.4	3.8	-0.95	199.9	-3.3	200.0	191.3	8.64	23.140	
800.0	800.0	803.1	800.0	4.6	3.9	-0.95	199.9	-3.3	200.0	191.0	8.94	22.380	
900.0	900.0	903.1	900.0	4.8	4.0	-0.95	199.9	-3.3	200.0	190.7	9.22	21.682	
1,000.0	1,000.0	1,003.2	1,000.1	4.9	4.2	-0.95	199.9	-3.3	200.0	190.5	9.51	21.037	
1,100.0	1,100.0	1,105.9	1,102.7	5.2	4.3	-97.97	199.2	-1.5	199.5	189.7	9.78	20.393	
1,200.0	1,199.8	1,208.5	1,205.2	5.4	4.6	-98.02	197.2	3.7	198.2	188.1	10.11	19.605	
1,300.0	1,299.5	1,311.1	1,307.4	5.7	4.9	-98.14	193.9	12.4	196.0	185.6	10.43	18.787	
1,400.0	1,398.7	1,413.7	1,409.2	6.0	5.3	-98.31	189.3	24.5	193.0	182.2	10.76	17.937	
1,427.3	1,425.7	1,441.7	1,436.9	6.0	5.4	-98.37	187.8	28.4	192.0	181.2	10.82	17.746	
1,500.0	1,497.6	1,516.1	1,510.2	6.2	5.6	-98.21	183.3	40.0	189.0	178.0	11.01	17.162	
1,600.0	1,596.5	1,616.0	1,608.5	6.4	5.9	-97.64	177.0	56.5	184.4	173.0	11.36	16.236	
1,700.0	1,695.4	1,715.9	1,706.8	6.7	6.2	-97.05	170.6	73.1	179.8	168.1	11.68	15.394	
1,800.0	1,794.3	1,815.7	1,805.1	7.0	6.5	-96.43	164.2	89.7	175.2	163.2	12.00	14.597	
1,900.0	1,893.2	1,915.6	1,903.4	7.3	6.9	-95.77	157.9	106.3	170.7	158.4	12.33	13.842	
2,000.0	1,992.1	2,015.5	2,001.6	7.6	7.2	-95.08	151.5	122.9	166.2	153.5	12.66	13.128	
2,100.0	2,090.9	2,115.4	2,099.9	7.9	7.6	-94.35	145.1	139.5	161.7	148.7	12.99	12.451	
2,200.0	2,189.8	2,215.3	2,198.2	8.2	7.9	-93.58	138.7	156.1	157.2	143.9	13.31	11.811	
2,300.0	2,288.7	2,315.1	2,296.5	8.6	8.3	-92.76	132.4	172.7	152.8	139.2	13.64	11.205	
2,400.0	2,387.6	2,415.0	2,394.8	8.9	8.7	-91.90	126.0	189.3	148.4	134.4	13.96	10.631	
2,500.0	2,486.5	2,514.9	2,493.1	9.3	9.1	-90.98	119.6	205.9	144.0	129.8	14.28	10.086	
2,600.0	2,585.4	2,614.8	2,591.3	9.7	9.5	-90.01	113.3	222.5	139.7	125.1	14.60	9.569	
2,700.0	2,684.3	2,714.6	2,689.6	10.0	9.9	-88.97	106.9	239.1	135.4	120.5	14.92	9.077	
2,800.0	2,783.2	2,814.5	2,787.9	10.4	10.3	-87.87	100.5	255.6	131.2	116.0	15.24	8.608	
2,900.0	2,882.1	2,914.4	2,886.2	10.8	10.7	-86.69	94.2	272.2	127.0	111.5	15.56	8.162	
3,000.0	2,981.0	3,014.3	2,984.5	11.2	11.1	-85.44	87.8	288.8	122.9	107.0	15.89	7.735	
3,100.0	3,079.8	3,114.1	3,082.8	11.6	11.6	-84.09	81.4	305.4	118.8	102.6	16.22	7.326	
3,200.0	3,178.7	3,214.0	3,181.0	12.0	12.0	-82.66	75.1	322.0	114.9	98.3	16.57	6.933	
3,300.0	3,277.6	3,313.9	3,279.3	12.4	12.4	-81.12	68.7	338.6	110.9	94.0	16.92	6.555	
3,400.0	3,376.5	3,413.8	3,377.6	12.8	12.8	-79.47	62.3	355.2	107.1	89.8	17.30	6.190	
3,500.0	3,475.4	3,513.7	3,475.9	13.2	13.3	-77.70	55.9	371.8	103.4	85.7	17.71	5.836	
3,600.0	3,574.3	3,613.5	3,574.2	13.6	13.7	-75.80	49.6	388.4	99.8	81.6	18.16	5.493	
3,700.0	3,673.2	3,713.4	3,672.5	14.0	14.1	-73.76	43.2	405.0	96.3	77.6	18.66	5.159	
3,800.0	3,772.1	3,813.3	3,770.7	14.4	14.6	-71.56	36.8	421.6	92.9	73.7	19.21	4.834	
3,900.0	3,871.0	3,913.2	3,869.0	14.8	15.0	-69.21	30.5	438.2	89.6	69.8	19.84	4.518	
4,000.0	3,969.8	4,013.0	3,967.3	15.2	15.5	-66.68	24.1	454.8	86.6	66.0	20.56	4.211	
4,100.0	4,068.7	4,112.9	4,065.6	15.6	15.9	-63.98	17.7	471.3	83.7	62.3	21.38	3.915	
4,200.0	4,167.6	4,212.8	4,163.9	16.1	16.3	-61.09	11.4	487.9	81.0	58.7	22.31	3.630	
4,300.0	4,266.5	4,312.7	4,262.2	16.5	16.8	-58.01	5.0	504.5	78.5	55.2	23.37	3.360	
4,400.0	4,365.4	4,412.6	4,360.4	16.9	17.2	-54.74	-1.4	521.1	76.3	51.7	24.57	3.106	
4,500.0	4,464.3	4,512.4	4,458.7	17.3	17.7	-51.28	-7.7	537.7	74.3	48.5	25.89	2.871	
4,600.0	4,563.2	4,612.3	4,557.0	17.7	18.1	-47.66	-14.1	554.3	72.7	45.3	27.35	2.657	
4,700.0	4,662.1	4,712.2	4,655.3	18.2	18.5	-43.87	-20.5	570.9	71.3	42.4	28.91	2.466	
4,800.0	4,761.0	4,812.1	4,753.6	18.6	19.0	-39.96	-26.9	587.5	70.2	39.7	30.57	2.297	
4,900.0	4,859.9	4,911.9	4,851.9	19.0	19.4	-35.95	-33.2	604.1	69.5	37.2	32.30	2.153	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	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)		
5,000.0	4,958.7	5,011.8	4,950.1	19.4	19.9	-31.88	-39.6	620.7	69.2	35.1	34.06	2.031	
5,053.5	5,011.6	5,065.3	5,002.7	19.7	20.1	-29.68	-43.0	629.6	69.1	34.1	35.00	1.975 Advise and Monitor, CC	
5,100.0	5,057.6	5,111.7	5,048.4	19.8	20.3	-27.78	-46.0	637.3	69.2	33.3	35.82	1.931 Advise and Monitor	
5,191.9	5,148.5	5,203.5	5,138.7	20.2	20.7	-24.03	-51.8	652.5	69.5	32.0	37.40	1.857 Advise and Monitor	
5,200.0	5,156.5	5,211.6	5,146.7	20.3	20.8	-23.70	-52.3	653.9	69.5	32.0	37.54	1.851 Advise and Monitor	
5,300.0	5,255.6	5,311.4	5,245.0	20.7	21.2	-19.42	-58.7	670.4	71.1	31.9	39.29	1.811 Advise and Monitor, ES, SF	
5,400.0	5,354.8	5,411.2	5,343.1	21.1	21.7	-15.00	-65.1	687.0	74.9	33.9	40.94	1.828 Advise and Monitor	
5,500.0	5,454.3	5,510.9	5,441.2	21.5	22.1	-10.79	-71.4	703.6	80.7	38.2	42.44	1.901 Advise and Monitor	
5,600.0	5,553.9	5,610.4	5,539.2	21.9	22.6	-7.02	-77.8	720.1	88.6	44.9	43.75	2.025	
5,700.0	5,653.7	5,709.7	5,636.9	22.3	23.0	-3.81	-84.1	736.6	98.6	53.7	44.88	2.197	
5,800.0	5,753.5	5,808.9	5,734.5	22.6	23.5	-1.18	-90.4	753.1	110.6	64.7	45.88	2.410	
5,900.0	5,853.5	5,907.8	5,831.9	22.9	23.9	0.93	-96.7	769.5	124.5	77.7	46.75	2.662	
6,000.0	5,953.4	6,006.5	5,929.0	23.2	24.3	2.59	-103.0	785.9	140.2	92.7	47.53	2.950	
6,046.6	6,000.0	6,052.4	5,974.1	23.2	24.6	100.25	-105.9	793.5	148.1	100.3	47.81	3.099	
6,100.0	6,053.4	6,105.0	6,025.8	23.2	24.8	100.89	-109.3	802.3	157.5	109.4	48.08	3.276	
6,200.0	6,153.4	6,204.5	6,123.9	23.3	25.2	101.91	-115.6	818.6	174.8	126.2	48.59	3.597	
6,300.0	6,253.4	6,304.7	6,222.7	23.3	25.7	102.71	-121.5	834.2	191.3	142.2	49.10	3.896	
6,400.0	6,353.4	6,405.2	6,321.9	23.3	26.1	103.35	-127.2	849.0	207.0	157.4	49.61	4.173	
6,500.0	6,453.4	6,505.9	6,421.5	23.4	26.6	103.88	-132.6	863.1	221.8	171.7	50.10	4.428	
6,600.0	6,553.4	6,606.9	6,521.5	23.4	27.0	104.31	-137.7	876.4	235.8	185.2	50.59	4.662	
6,700.0	6,653.4	6,708.2	6,621.8	23.4	27.4	104.67	-142.5	888.9	248.9	197.9	51.07	4.875	
6,800.0	6,753.4	6,809.7	6,722.5	23.5	27.8	104.98	-147.0	900.6	261.2	209.7	51.54	5.068	
6,900.0	6,853.4	6,911.4	6,823.6	23.5	28.3	105.24	-151.2	911.4	272.6	220.6	52.00	5.242	
7,000.0	6,953.4	7,013.3	6,924.9	23.5	28.7	105.46	-155.1	921.5	283.1	230.7	52.46	5.397	
7,100.0	7,053.4	7,115.4	7,026.5	23.6	29.1	105.64	-158.6	930.7	292.8	239.9	52.91	5.534	
7,200.0	7,153.4	7,217.6	7,128.3	23.6	29.5	105.80	-161.8	939.1	301.5	248.2	53.34	5.653	
7,300.0	7,253.4	7,320.0	7,230.4	23.6	29.9	105.94	-164.7	946.7	309.4	255.7	53.77	5.755	
7,400.0	7,353.4	7,422.6	7,332.7	23.7	30.2	106.06	-167.3	953.4	316.4	262.2	54.18	5.840	
7,500.0	7,453.4	7,525.2	7,435.2	23.7	30.6	106.15	-169.6	959.3	322.5	267.9	54.58	5.910	
7,600.0	7,553.4	7,628.0	7,537.8	23.7	31.0	106.23	-171.5	964.3	327.7	272.8	54.96	5.963	
7,700.0	7,653.4	7,730.9	7,640.6	23.8	31.3	106.30	-173.1	968.5	332.1	276.7	55.32	6.002	
7,800.0	7,753.4	7,833.8	7,743.5	23.8	31.6	106.34	-174.4	971.8	335.5	279.8	55.66	6.027	
7,900.0	7,853.4	7,936.8	7,846.4	23.9	31.9	106.38	-175.3	974.2	338.0	282.0	55.98	6.038	
8,000.0	7,953.4	8,039.8	7,949.4	23.9	32.2	106.40	-175.9	975.8	339.6	283.4	56.26	6.037	
8,100.0	8,053.4	8,142.8	8,052.5	23.9	32.4	106.41	-176.2	976.5	340.4	283.9	56.45	6.030	
8,200.0	8,153.4	8,243.8	8,153.4	24.0	32.4	106.41	-176.2	976.6	340.4	283.9	56.52	6.024	
8,300.0	8,253.4	8,343.8	8,253.4	24.0	32.5	106.41	-176.2	976.6	340.4	283.9	56.57	6.018	
8,400.0	8,353.4	8,443.8	8,353.4	24.0	32.5	106.41	-176.2	976.6	340.4	283.8	56.62	6.013	
8,500.0	8,453.4	8,543.8	8,453.4	24.1	32.5	106.41	-176.2	976.6	340.4	283.8	56.67	6.007	
8,600.0	8,553.4	8,643.8	8,553.4	24.1	32.5	106.41	-176.2	976.6	340.4	283.7	56.72	6.002	
8,700.0	8,653.4	8,743.8	8,653.4	24.2	32.5	106.41	-176.2	976.6	340.4	283.7	56.78	5.996	
8,800.0	8,753.4	8,843.8	8,753.4	24.2	32.6	106.41	-176.2	976.6	340.4	283.6	56.83	5.990	
8,900.0	8,853.4	8,943.8	8,853.4	24.2	32.6	106.41	-176.2	976.6	340.4	283.6	56.89	5.985	
9,000.0	8,953.4	9,043.8	8,953.4	24.3	32.6	106.41	-176.2	976.6	340.4	283.5	56.94	5.979	
9,100.0	9,053.4	9,143.8	9,053.4	24.3	32.6	106.41	-176.2	976.6	340.4	283.4	56.99	5.973	
9,200.0	9,153.4	9,243.8	9,153.4	24.4	32.6	106.41	-176.2	976.6	340.4	283.4	57.05	5.967	
9,300.0	9,253.4	9,343.8	9,253.4	24.4	32.6	106.41	-176.2	976.6	340.4	283.3	57.10	5.962	
9,400.0	9,353.4	9,443.8	9,353.4	24.4	32.7	106.41	-176.2	976.6	340.4	283.3	57.16	5.956	
9,500.0	9,453.4	9,543.8	9,453.4	24.5	32.7	106.41	-176.2	976.6	340.4	283.2	57.22	5.950	
9,600.0	9,553.4	9,643.8	9,553.4	24.5	32.7	106.41	-176.2	976.6	340.4	283.2	57.27	5.944	
9,700.0	9,653.4	9,743.8	9,653.4	24.6	32.7	106.41	-176.2	976.6	340.4	283.1	57.33	5.938	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,800.0	9,753.4	9,843.8	9,753.4	24.6	32.7	106.41	-176.2	976.6	340.4	283.0	57.39	5.932	
9,900.0	9,853.4	9,943.8	9,853.4	24.6	32.8	106.41	-176.2	976.6	340.4	283.0	57.45	5.926	
10,000.0	9,953.4	10,043.8	9,953.4	24.7	32.8	106.41	-176.2	976.6	340.4	282.9	57.50	5.920	
10,100.0	10,053.4	10,143.8	10,053.4	24.7	32.8	106.41	-176.2	976.6	340.4	282.9	57.56	5.914	
10,200.0	10,153.4	10,243.8	10,153.4	24.8	32.8	106.41	-176.2	976.6	340.4	282.8	57.62	5.908	
10,300.0	10,253.4	10,343.8	10,253.4	24.8	32.9	106.41	-176.2	976.6	340.4	282.8	57.68	5.902	
10,400.0	10,353.4	10,443.8	10,353.4	24.9	32.9	106.41	-176.2	976.6	340.4	282.7	57.74	5.896	
10,500.0	10,453.4	10,543.8	10,453.4	24.9	32.9	106.41	-176.2	976.6	340.4	282.6	57.80	5.890	
10,600.0	10,553.4	10,643.8	10,553.4	24.9	32.9	106.41	-176.2	976.6	340.4	282.6	57.86	5.884	
10,700.0	10,653.4	10,743.8	10,653.4	25.0	32.9	106.41	-176.2	976.6	340.4	282.5	57.92	5.877	
10,800.0	10,753.4	10,843.8	10,753.4	25.0	33.0	106.41	-176.2	976.6	340.4	282.5	57.99	5.871	
10,900.0	10,853.4	10,943.8	10,853.4	25.1	33.0	106.41	-176.2	976.6	340.4	282.4	58.04	5.865	
11,000.0	10,953.4	11,053.8	10,967.6	25.1	33.0	105.42	-170.1	976.5	338.9	281.1	57.82	5.862	
11,100.0	11,053.4	11,172.3	11,078.0	25.2	33.0	100.83	-142.3	976.0	332.8	275.3	57.47	5.790	
11,200.0	11,153.4	11,272.2	11,168.5	25.2	33.0	93.61	-100.5	975.2	326.2	269.2	56.97	5.726	
11,256.9	11,210.3	11,321.6	11,210.3	25.2	33.1	88.97	-74.2	974.7	324.8	268.3	56.50	5.748	
11,300.0	11,253.4	11,355.5	11,237.6	25.2	33.1	85.42	-54.0	974.4	325.8	269.8	56.02	5.815	
11,389.1	11,342.5	11,416.7	11,283.7	25.3	33.1	78.43	-13.8	973.6	335.5	280.8	54.73	6.131	
11,400.0	11,353.4	11,423.4	11,288.4	25.3	33.1	-99.13	-9.1	973.6	337.6	283.0	54.55	6.189	
11,425.0	11,378.4	11,437.5	11,298.3	25.3	33.1	-100.24	1.0	973.4	343.1	289.0	54.08	6.345	
11,450.0	11,403.3	11,450.0	11,306.8	25.3	33.1	-101.07	10.1	973.2	350.0	296.4	53.57	6.533	
11,475.0	11,428.0	11,460.9	11,314.1	25.3	33.1	-101.57	18.3	973.1	358.2	305.2	53.03	6.755	
11,500.0	11,452.5	11,470.4	11,320.3	25.3	33.1	-101.72	25.4	972.9	367.8	315.4	52.47	7.010	
11,525.0	11,476.6	11,478.4	11,325.5	25.3	33.1	-101.49	31.6	972.8	378.8	326.9	51.90	7.299	
11,550.0	11,500.4	11,485.1	11,329.7	25.4	33.1	-100.86	36.8	972.7	391.2	339.8	51.34	7.619	
11,575.0	11,523.8	11,490.6	11,333.1	25.4	33.1	-99.82	41.0	972.7	404.7	353.9	50.79	7.968	
11,600.0	11,546.7	11,500.0	11,338.9	25.4	33.1	-99.21	48.5	972.5	419.5	369.5	50.06	8.381	
11,625.0	11,569.0	11,500.0	11,338.9	25.4	33.1	-96.81	48.5	972.5	435.2	385.5	49.70	8.758	
11,650.0	11,590.6	11,500.0	11,338.9	25.4	33.1	-94.13	48.5	972.5	451.9	402.6	49.31	9.164	
11,675.0	11,611.7	11,500.0	11,338.9	25.5	33.1	-91.20	48.5	972.5	469.4	420.5	48.92	9.594	
11,700.0	11,631.9	11,500.0	11,338.9	25.5	33.1	-88.03	48.5	972.5	487.5	439.0	48.53	10.047	
11,725.0	11,651.4	11,500.0	11,338.9	25.5	33.1	-84.65	48.5	972.5	506.3	458.1	48.13	10.518	
11,750.0	11,670.0	11,500.0	11,338.9	25.5	33.1	-81.11	48.5	972.5	525.4	477.7	47.74	11.005	
11,775.0	11,687.8	11,500.0	11,338.9	25.6	33.1	-77.43	48.5	972.5	544.9	497.6	47.35	11.508	
11,800.0	11,704.6	11,500.0	11,338.9	25.6	33.1	-73.68	48.5	972.5	564.7	517.7	46.97	12.022	
11,825.0	11,720.4	11,500.0	11,338.9	25.6	33.1	-69.90	48.5	972.5	584.6	538.0	46.59	12.548	
11,850.0	11,735.1	11,500.0	11,338.9	25.6	33.1	-66.16	48.5	972.5	604.7	558.5	46.22	13.082	
11,875.0	11,748.8	11,485.5	11,329.9	25.7	33.1	-60.63	37.1	972.7	624.5	578.2	46.27	13.498	
11,900.0	11,761.4	11,481.0	11,327.1	25.7	33.1	-56.72	33.6	972.8	644.4	598.4	46.02	14.003	
11,925.0	11,772.8	11,476.1	11,324.0	25.7	33.1	-53.03	29.8	972.9	664.1	618.3	45.78	14.508	
11,950.0	11,783.0	11,470.7	11,320.5	25.8	33.1	-49.58	25.7	972.9	683.7	638.1	45.54	15.011	
11,975.0	11,792.1	11,465.1	11,316.8	25.8	33.1	-46.39	21.4	973.0	702.9	657.6	45.31	15.512	
12,000.0	11,799.9	11,450.0	11,306.8	25.8	33.1	-42.81	10.1	973.2	722.0	676.7	45.30	15.937	
12,025.0	11,806.4	11,450.0	11,306.8	25.9	33.1	-40.62	10.1	973.2	740.5	695.5	44.93	16.479	
12,050.0	11,811.7	11,450.0	11,306.8	25.9	33.1	-38.59	10.1	973.2	758.7	714.1	44.57	17.023	
12,075.0	11,815.7	11,450.0	11,306.8	25.9	33.1	-36.71	10.1	973.2	776.6	732.4	44.20	17.568	
12,100.0	11,818.4	11,432.2	11,294.6	25.9	33.1	-34.20	-2.8	973.4	793.7	749.4	44.22	17.947	
12,125.0	11,819.8	11,424.9	11,289.5	26.0	33.1	-32.41	-8.0	973.5	810.4	766.4	44.01	18.414	
12,139.1	11,820.0	11,420.7	11,286.5	26.0	33.1	-31.49	-11.0	973.6	819.6	775.7	43.89	18.674	
12,200.0	11,820.0	11,400.0	11,271.5	26.1	33.1	-29.84	-25.2	973.8	860.0	816.5	43.46	19.789	
12,300.0	11,820.0	11,376.0	11,253.5	26.3	33.1	-27.32	-41.1	974.1	930.5	887.7	42.74	21.770	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Rule Assigned:		Distance		Offset Well Error:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,306.1	11,820.0	11,374.4	11,252.3	26.3	33.1	-27.16	-42.1	974.2	934.9	892.2	42.70	21.893			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	10.0	0.0	3.0	3.0	7.58	200.4	26.7	202.1	195.7	6.43	31.438	
100.0	100.0	110.0	100.0	3.2	3.1	7.58	200.4	26.7	202.1	195.4	6.72	30.084	
200.0	200.0	210.0	200.0	3.5	3.2	7.58	200.4	26.7	202.1	195.1	7.07	28.605	
300.0	300.0	310.0	300.0	3.7	3.3	7.58	200.4	26.7	202.1	194.7	7.40	27.314	
400.0	400.0	410.0	400.0	3.9	3.4	7.58	200.4	26.7	202.1	194.4	7.72	26.170	
500.0	500.0	510.0	500.0	4.1	3.6	7.58	200.4	26.7	202.1	194.1	8.04	25.147	
600.0	600.0	610.0	600.0	4.2	3.7	7.58	200.4	26.7	202.1	193.8	8.34	24.224	
700.0	700.0	710.0	700.0	4.4	3.8	7.58	200.4	26.7	202.1	193.5	8.64	23.385	
800.0	800.0	810.0	800.0	4.6	3.9	7.58	200.4	26.7	202.1	193.2	8.94	22.618	
900.0	900.0	910.0	900.0	4.8	4.0	7.58	200.4	26.7	202.1	192.9	9.22	21.913	
1,000.0	1,000.0	1,010.1	1,000.1	4.9	4.2	7.58	200.4	26.7	202.1	192.6	9.51	21.263	
1,100.0	1,100.0	1,111.1	1,101.1	5.2	4.3	-89.34	199.8	28.7	201.8	192.0	9.77	20.656	
1,200.0	1,199.8	1,212.2	1,202.0	5.4	4.6	-89.26	198.2	34.2	200.9	190.8	10.08	19.938	
1,300.0	1,299.5	1,313.1	1,302.5	5.7	4.9	-89.18	195.6	43.1	199.5	189.1	10.38	19.217	
1,400.0	1,398.7	1,414.1	1,402.7	6.0	5.2	-89.12	192.1	55.4	197.5	186.8	10.68	18.486	
1,427.3	1,425.7	1,441.7	1,430.0	6.0	5.3	-89.11	191.0	59.3	196.9	186.2	10.74	18.334	
1,500.0	1,497.6	1,515.0	1,502.2	6.2	5.6	-88.76	187.6	71.0	195.0	184.1	10.93	17.844	
1,600.0	1,596.5	1,615.6	1,600.9	6.4	6.0	-87.38	182.2	89.9	192.1	180.9	11.24	17.095	
1,700.0	1,695.4	1,715.4	1,698.5	6.7	6.3	-85.59	176.5	109.9	189.2	177.7	11.55	16.380	
1,800.0	1,794.3	1,815.1	1,796.1	7.0	6.6	-83.75	170.8	129.8	186.5	174.7	11.88	15.707	
1,900.0	1,893.2	1,914.9	1,893.7	7.3	6.9	-81.85	165.1	149.8	184.0	171.8	12.21	15.073	
2,000.0	1,992.1	2,014.7	1,991.3	7.6	7.3	-79.91	159.3	169.7	181.7	169.2	12.56	14.474	
2,100.0	2,090.9	2,114.5	2,088.9	7.9	7.7	-77.92	153.6	189.7	179.7	166.7	12.92	13.904	
2,200.0	2,189.8	2,214.3	2,186.5	8.2	8.0	-75.89	147.9	209.6	177.8	164.5	13.31	13.361	
2,300.0	2,288.7	2,314.0	2,284.1	8.6	8.4	-73.81	142.2	229.5	176.2	162.4	13.72	12.842	
2,400.0	2,387.6	2,413.8	2,381.7	8.9	8.8	-71.70	136.5	249.5	174.8	160.6	14.16	12.342	
2,500.0	2,486.5	2,513.6	2,479.3	9.3	9.2	-69.56	130.8	269.4	173.6	159.0	14.64	11.862	
2,600.0	2,585.4	2,613.4	2,576.9	9.7	9.6	-67.40	125.0	289.4	172.7	157.6	15.15	11.398	
2,700.0	2,684.3	2,713.2	2,674.5	10.0	10.1	-65.21	119.3	309.3	172.1	156.3	15.71	10.952	
2,800.0	2,783.2	2,812.9	2,772.1	10.4	10.5	-63.01	113.6	329.3	171.7	155.3	16.31	10.523	
2,900.0	2,882.1	2,912.7	2,869.7	10.8	10.9	-60.81	107.9	349.2	171.5	154.5	16.96	10.112	
2,907.5	2,889.5	2,920.2	2,877.0	10.8	10.9	-60.64	107.4	350.7	171.5	154.5	17.01	10.082 CC	
3,000.0	2,981.0	3,012.5	2,967.3	11.2	11.3	-58.60	102.2	369.1	171.6	154.0	17.66	9.719	
3,100.0	3,079.8	3,112.3	3,064.9	11.6	11.8	-56.40	96.4	389.1	172.0	153.6	18.40	9.346	
3,200.0	3,178.7	3,212.1	3,162.5	12.0	12.2	-54.21	90.7	409.0	172.6	153.4	19.19	8.994 ES	
3,300.0	3,277.6	3,311.8	3,260.1	12.4	12.7	-52.04	85.0	429.0	173.5	153.4	20.02	8.663	
3,400.0	3,376.5	3,411.6	3,357.7	12.8	13.1	-49.90	79.3	448.9	174.6	153.7	20.90	8.354	
3,500.0	3,475.4	3,511.4	3,455.3	13.2	13.5	-47.78	73.6	468.8	175.9	154.1	21.81	8.067	
3,600.0	3,574.3	3,611.2	3,552.9	13.6	14.0	-45.70	67.8	488.8	177.5	154.8	22.76	7.802	
3,700.0	3,673.2	3,711.0	3,650.5	14.0	14.4	-43.66	62.1	508.7	179.4	155.6	23.73	7.558	
3,800.0	3,772.1	3,810.8	3,748.1	14.4	14.9	-41.67	56.4	528.7	181.4	156.7	24.73	7.335	
3,900.0	3,871.0	3,910.5	3,845.7	14.8	15.3	-39.72	50.7	548.6	183.7	157.9	25.76	7.131	
4,000.0	3,969.8	4,010.3	3,943.3	15.2	15.8	-37.82	45.0	568.6	186.1	159.3	26.80	6.946	
4,100.0	4,068.7	4,110.1	4,040.9	15.6	16.2	-35.97	39.3	588.5	188.8	161.0	27.86	6.778	
4,200.0	4,167.6	4,209.9	4,138.5	16.1	16.7	-34.17	33.5	608.4	191.7	162.8	28.92	6.627	
4,300.0	4,266.5	4,309.7	4,236.1	16.5	17.1	-32.43	27.8	628.4	194.7	164.7	30.00	6.491	
4,400.0	4,365.4	4,409.4	4,333.7	16.9	17.6	-30.74	22.1	648.3	197.9	166.9	31.08	6.369	
4,500.0	4,464.3	4,509.2	4,431.3	17.3	18.1	-29.11	16.4	668.3	201.3	169.2	32.17	6.259	
4,600.0	4,563.2	4,609.0	4,528.9	17.7	18.5	-27.54	10.7	688.2	204.9	171.6	33.25	6.161	
4,700.0	4,662.1	4,708.8	4,626.5	18.2	19.0	-26.01	4.9	708.1	208.6	174.2	34.34	6.074	
4,800.0	4,761.0	4,808.6	4,724.1	18.6	19.4	-24.55	-0.8	728.1	212.4	177.0	35.42	5.997	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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)		
4,900.0	4,859.9	4,908.3	4,821.7	19.0	19.9	-23.13	-6.5	748.0	216.4	179.9	36.50	5.929	
5,000.0	4,958.7	5,008.1	4,919.3	19.4	20.4	-21.77	-12.2	768.0	220.5	182.9	37.57	5.868	
5,100.0	5,057.6	5,107.9	5,016.9	19.8	20.8	-20.46	-17.9	787.9	224.7	186.1	38.64	5.815	
5,191.9	5,148.5	5,199.6	5,106.6	20.2	21.2	-19.29	-23.2	806.2	228.7	189.1	39.62	5.772	
5,200.0	5,156.5	5,207.7	5,114.5	20.3	21.3	-19.19	-23.6	807.9	229.0	189.3	39.70	5.769	
5,300.0	5,255.6	5,307.4	5,212.0	20.7	21.7	-17.92	-29.4	827.8	234.5	193.7	40.79	5.747 SF	
5,400.0	5,354.8	5,407.0	5,309.4	21.1	22.2	-16.59	-35.1	847.7	241.6	199.8	41.86	5.773	
5,500.0	5,454.3	5,506.4	5,406.7	21.5	22.7	-15.23	-40.8	867.6	250.6	207.7	42.90	5.842	
5,600.0	5,553.9	5,605.6	5,503.7	21.9	23.1	-13.88	-46.4	887.4	261.4	217.5	43.93	5.951	
5,700.0	5,653.7	5,704.6	5,600.5	22.3	23.6	-12.57	-52.1	907.2	274.1	229.2	44.93	6.100	
5,800.0	5,753.5	5,803.4	5,697.1	22.6	24.1	-11.30	-57.8	926.9	288.6	242.7	45.89	6.288	
5,900.0	5,853.5	5,901.8	5,793.4	22.9	24.5	-10.10	-63.4	946.6	304.9	258.1	46.81	6.513	
6,000.0	5,953.4	6,000.0	5,889.4	23.2	25.0	-8.98	-69.0	966.2	323.0	275.3	47.66	6.777	
6,046.6	6,000.0	6,045.5	5,934.0	23.2	25.2	88.53	-71.7	975.3	332.0	284.1	47.99	6.919	
6,100.0	6,053.4	6,097.8	5,985.2	23.2	25.4	89.09	-74.7	985.8	342.7	294.4	48.31	7.093	
6,200.0	6,153.4	6,195.6	6,080.8	23.3	25.9	90.04	-80.3	1,005.3	362.7	313.7	48.92	7.413	
6,300.0	6,253.4	6,293.5	6,176.5	23.3	26.3	90.90	-85.9	1,024.9	382.7	333.2	49.51	7.729	
6,400.0	6,353.4	6,391.3	6,272.2	23.3	26.8	91.67	-91.5	1,044.4	402.9	352.8	50.10	8.041	
6,500.0	6,453.4	6,489.1	6,367.9	23.4	27.3	92.36	-97.1	1,064.0	423.1	372.4	50.68	8.347	
6,600.0	6,553.4	6,586.9	6,463.5	23.4	27.7	93.00	-102.7	1,083.5	443.3	392.0	51.26	8.648	
6,700.0	6,653.4	6,684.7	6,559.2	23.4	28.2	93.57	-108.3	1,103.1	463.6	411.8	51.83	8.944	
6,800.0	6,753.4	6,782.5	6,654.9	23.5	28.6	94.10	-113.9	1,122.6	484.0	431.6	52.40	9.235	
6,900.0	6,853.4	6,880.3	6,750.6	23.5	29.1	94.59	-119.5	1,142.2	504.3	451.4	52.97	9.521	
7,000.0	6,953.4	6,978.2	6,846.3	23.5	29.6	95.04	-125.1	1,161.7	524.8	471.2	53.54	9.801	
7,100.0	7,053.4	7,076.0	6,941.9	23.6	30.0	95.45	-130.7	1,181.2	545.2	491.1	54.11	10.076	
7,200.0	7,153.4	7,173.8	7,037.6	23.6	30.5	95.84	-136.3	1,200.8	565.7	511.0	54.68	10.345	
7,300.0	7,253.4	7,271.6	7,133.3	23.6	30.9	96.20	-141.9	1,220.3	586.1	530.9	55.25	10.609	
7,400.0	7,353.4	7,369.4	7,229.0	23.7	31.4	96.53	-147.5	1,239.9	606.7	550.8	55.82	10.868	
7,500.0	7,453.4	7,467.2	7,324.6	23.7	31.9	96.84	-153.1	1,259.4	627.2	570.8	56.39	11.122	
7,600.0	7,553.4	7,573.3	7,428.5	23.7	32.4	97.15	-159.1	1,280.2	647.3	590.3	57.01	11.354	
7,700.0	7,653.4	7,684.1	7,537.4	23.8	32.9	97.43	-164.8	1,300.0	665.7	608.0	57.64	11.549	
7,800.0	7,753.4	7,795.7	7,647.4	23.8	33.4	97.67	-169.9	1,317.9	682.2	623.9	58.24	11.713	
7,900.0	7,853.4	7,908.0	7,758.5	23.9	33.9	97.86	-174.4	1,333.8	696.8	638.0	58.81	11.848	
8,000.0	7,953.4	8,020.9	7,870.4	23.9	34.3	98.03	-178.4	1,347.6	709.4	650.1	59.34	11.955	
8,100.0	8,053.4	8,134.3	7,983.2	23.9	34.8	98.17	-181.8	1,359.5	720.2	660.3	59.83	12.036	
8,200.0	8,153.4	8,248.2	8,096.6	24.0	35.2	98.27	-184.6	1,369.1	728.9	668.6	60.29	12.091	
8,300.0	8,253.4	8,362.5	8,210.6	24.0	35.7	98.36	-186.8	1,376.7	735.7	675.0	60.69	12.122	
8,400.0	8,353.4	8,477.0	8,325.0	24.0	36.1	98.41	-188.3	1,382.1	740.6	679.5	61.04	12.132	
8,500.0	8,453.4	8,591.6	8,439.6	24.1	36.4	98.45	-189.2	1,385.2	743.4	682.1	61.32	12.123	
8,600.0	8,553.4	8,706.4	8,554.4	24.1	36.6	98.46	-189.5	1,386.2	744.3	682.9	61.39	12.124	
8,631.4	8,584.8	8,736.9	8,584.8	24.1	36.6	98.46	-189.5	1,386.2	744.3	682.9	61.41	12.121	
8,700.0	8,653.4	8,805.5	8,653.4	24.2	36.6	98.46	-189.5	1,386.2	744.3	682.9	61.44	12.114	
8,800.0	8,753.4	8,905.5	8,753.4	24.2	36.6	98.46	-189.5	1,386.2	744.3	682.8	61.49	12.105	
8,900.0	8,853.4	9,005.5	8,853.4	24.2	36.6	98.46	-189.5	1,386.2	744.3	682.8	61.54	12.096	
9,000.0	8,953.4	9,105.5	8,953.4	24.3	36.6	98.46	-189.5	1,386.2	744.3	682.7	61.58	12.086	
9,100.0	9,053.4	9,205.5	9,053.4	24.3	36.6	98.46	-189.5	1,386.2	744.3	682.7	61.63	12.076	
9,200.0	9,153.4	9,305.5	9,153.4	24.4	36.7	98.46	-189.5	1,386.2	744.3	682.6	61.68	12.067	
9,300.0	9,253.4	9,405.5	9,253.4	24.4	36.7	98.46	-189.5	1,386.2	744.3	682.6	61.73	12.057	
9,400.0	9,353.4	9,505.5	9,353.4	24.4	36.7	98.46	-189.5	1,386.2	744.3	682.5	61.78	12.047	
9,500.0	9,453.4	9,605.5	9,453.4	24.5	36.7	98.46	-189.5	1,386.2	744.3	682.5	61.83	12.037	
9,600.0	9,553.4	9,705.5	9,553.4	24.5	36.7	98.46	-189.5	1,386.2	744.3	682.4	61.88	12.027	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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: Reference		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			
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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,700.0	9,653.4	9,805.5	9,653.4	24.6	36.7	98.46	-189.5	1,386.2	744.3	682.4	61.94	12.017			
9,800.0	9,753.4	9,905.5	9,753.4	24.6	36.7	98.46	-189.5	1,386.2	744.3	682.3	61.99	12.007			
9,900.0	9,853.4	10,005.5	9,853.4	24.6	36.8	98.46	-189.5	1,386.2	744.3	682.3	62.04	11.997			
10,000.0	9,953.4	10,105.5	9,953.4	24.7	36.8	98.46	-189.5	1,386.2	744.3	682.2	62.09	11.987			
10,100.0	10,053.4	10,205.5	10,053.4	24.7	36.8	98.46	-189.5	1,386.2	744.3	682.2	62.14	11.977			
10,200.0	10,153.4	10,305.5	10,153.4	24.8	36.8	98.46	-189.5	1,386.2	744.3	682.1	62.20	11.967			
10,300.0	10,253.4	10,405.5	10,253.4	24.8	36.8	98.46	-189.5	1,386.2	744.3	682.1	62.25	11.956			
10,400.0	10,353.4	10,505.5	10,353.4	24.9	36.8	98.46	-189.5	1,386.2	744.3	682.0	62.31	11.946			
10,500.0	10,453.4	10,605.5	10,453.4	24.9	36.9	98.46	-189.5	1,386.2	744.3	681.9	62.36	11.936			
10,600.0	10,553.4	10,705.5	10,553.4	24.9	36.9	98.46	-189.5	1,386.2	744.3	681.9	62.41	11.925			
10,700.0	10,653.4	10,805.5	10,653.4	25.0	36.9	98.46	-189.5	1,386.2	744.3	681.8	62.47	11.915			
10,800.0	10,753.4	10,905.5	10,753.4	25.0	36.9	98.46	-189.5	1,386.2	744.3	681.8	62.53	11.904			
10,900.0	10,853.4	11,005.5	10,853.4	25.1	36.9	98.46	-189.5	1,386.2	744.3	681.7	62.58	11.893			
11,000.0	10,953.4	11,105.5	10,953.4	25.1	37.0	98.46	-189.5	1,386.2	744.3	681.7	62.64	11.883			
11,100.0	11,053.4	11,205.5	11,053.4	25.2	37.0	98.46	-189.5	1,386.2	744.3	681.6	62.69	11.872			
11,200.0	11,153.4	11,305.5	11,153.4	25.2	37.0	98.46	-189.5	1,386.2	744.3	681.6	62.75	11.861			
11,300.0	11,253.4	11,405.5	11,253.4	25.2	37.0	98.46	-189.5	1,386.2	744.3	681.5	62.81	11.850			
11,389.1	11,342.5	11,494.5	11,342.5	25.3	37.0	98.46	-189.5	1,386.2	744.3	681.4	62.86	11.842			
11,400.0	11,353.4	11,508.3	11,356.3	25.3	37.0	-78.57	-189.3	1,386.2	744.3	681.4	62.83	11.846			
11,425.0	11,378.4	11,540.9	11,388.8	25.3	37.0	-78.89	-187.4	1,386.2	743.8	681.1	62.74	11.855			
11,450.0	11,403.3	11,572.4	11,420.1	25.3	37.0	-79.54	-183.5	1,386.2	742.9	680.2	62.65	11.857			
11,475.0	11,428.0	11,602.4	11,449.5	25.3	37.0	-80.47	-177.8	1,386.1	741.5	679.0	62.56	11.854			
11,500.0	11,452.5	11,630.2	11,476.4	25.3	37.0	-81.60	-170.9	1,386.1	739.9	677.5	62.46	11.846			
11,525.0	11,476.6	11,655.5	11,500.6	25.3	37.0	-82.85	-163.3	1,386.0	738.2	675.8	62.37	11.836			
11,550.0	11,500.4	11,678.3	11,521.9	25.4	37.0	-84.15	-155.3	1,386.0	736.5	674.2	62.27	11.827			
11,575.0	11,523.8	11,698.4	11,540.4	25.4	37.0	-85.42	-147.5	1,385.9	734.9	672.7	62.17	11.821			
11,600.0	11,546.7	11,715.9	11,556.2	25.4	37.0	-86.60	-140.0	1,385.9	733.7	671.6	62.06	11.822			
11,625.0	11,569.0	11,731.0	11,569.6	25.4	37.0	-87.65	-133.1	1,385.8	732.8	670.9	61.94	11.832			
11,649.7	11,590.4	11,743.6	11,580.7	25.4	37.0	-88.53	-127.0	1,385.8	732.5	670.7	61.79	11.855			
11,650.0	11,590.6	11,743.7	11,580.8	25.4	37.0	-88.54	-126.9	1,385.8	732.5	670.7	61.79	11.855			
11,675.0	11,611.7	11,754.3	11,590.0	25.5	37.0	-89.24	-121.6	1,385.7	732.9	671.2	61.62	11.893			
11,700.0	11,631.9	11,763.0	11,597.4	25.5	37.0	-89.74	-117.0	1,385.7	733.9	672.5	61.43	11.947			
11,725.0	11,651.4	11,770.0	11,603.2	25.5	37.0	-90.04	-113.3	1,385.7	735.7	674.5	61.21	12.019			
11,750.0	11,670.0	11,775.0	11,607.4	25.5	37.0	-90.11	-110.6	1,385.7	738.2	677.3	60.96	12.110			
11,775.0	11,687.8	11,779.3	11,611.0	25.6	37.0	-90.04	-108.2	1,385.6	741.6	680.9	60.67	12.223			
11,800.0	11,704.6	11,782.0	11,613.2	25.6	37.0	-89.74	-106.7	1,385.6	745.8	685.4	60.36	12.355			
11,825.0	11,720.4	11,783.5	11,614.5	25.6	37.0	-89.25	-105.8	1,385.6	750.7	690.7	60.02	12.508			
11,850.0	11,735.1	11,784.1	11,615.0	25.6	37.0	-88.58	-105.5	1,385.6	756.5	696.8	59.65	12.681			
11,875.0	11,748.8	11,783.7	11,614.7	25.7	37.0	-87.75	-105.7	1,385.6	762.9	703.7	59.26	12.875			
11,900.0	11,761.4	11,782.5	11,613.7	25.7	37.0	-86.76	-106.4	1,385.6	770.1	711.3	58.84	13.088			
11,925.0	11,772.8	11,780.6	11,612.1	25.7	37.0	-85.62	-107.5	1,385.6	778.0	719.6	58.41	13.319			
11,950.0	11,783.0	11,775.0	11,607.4	25.8	37.0	-84.12	-110.6	1,385.7	786.4	728.4	58.02	13.554			
11,975.0	11,792.1	11,775.0	11,607.4	25.8	37.0	-82.97	-110.6	1,385.7	795.4	738.0	57.49	13.836			
12,000.0	11,799.9	11,775.0	11,607.4	25.8	37.0	-81.74	-110.6	1,385.7	805.0	748.0	56.94	14.137			
12,025.0	11,806.4	11,766.8	11,600.6	25.9	37.0	-79.86	-115.0	1,385.7	814.9	758.4	56.54	14.413			
12,050.0	11,811.7	11,762.2	11,596.7	25.9	37.0	-78.19	-117.5	1,385.7	825.3	769.2	56.06	14.722			
12,075.0	11,815.7	11,757.1	11,592.3	25.9	37.0	-76.45	-120.1	1,385.7	836.0	780.4	55.57	15.043			
12,100.0	11,818.4	11,750.0	11,586.2	25.9	37.0	-74.56	-123.8	1,385.7	846.9	791.8	55.12	15.365			
12,125.0	11,819.8	11,750.0	11,586.2	26.0	37.0	-73.12	-123.8	1,385.7	858.1	803.6	54.52	15.740			
12,139.1	11,820.0	11,742.6	11,579.8	26.0	37.0	-71.84	-127.5	1,385.8	864.4	810.1	54.33	15.911			
12,200.0	11,820.0	11,725.0	11,564.3	26.1	37.0	-70.53	-135.9	1,385.8	894.0	840.7	53.25	16.788			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
12,300.0	11,820.0	11,708.4	11,549.4	26.3	37.0	-69.00	-143.3	1,385.9	950.2	898.8	51.44	18.473	
12,306.1	11,820.0	11,707.2	11,548.4	26.3	37.0	-68.90	-143.8	1,385.9	954.0	902.6	51.34	18.582	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-90.82	-1.7	-120.0	120.0	113.6	6.43	18.666	
100.0	100.0	100.0	100.0	3.2	3.2	-90.82	-1.7	-120.0	120.0	113.1	6.89	17.411	
200.0	200.0	200.0	200.0	3.5	3.5	-90.82	-1.7	-120.0	120.0	112.7	7.33	16.375	
300.0	300.0	300.0	300.0	3.7	3.7	-90.82	-1.7	-120.0	120.0	112.3	7.74	15.501	
400.0	400.0	400.0	400.0	3.9	3.9	-90.82	-1.7	-120.0	120.0	111.9	8.14	14.750	
500.0	500.0	500.0	500.0	4.1	4.1	-90.82	-1.7	-120.0	120.0	111.5	8.51	14.095	
600.0	600.0	600.0	600.0	4.2	4.2	-90.82	-1.7	-120.0	120.0	111.1	8.88	13.517	
700.0	700.0	700.0	700.0	4.4	4.4	-90.82	-1.7	-120.0	120.0	110.8	9.23	13.002	
800.0	800.0	800.0	800.0	4.6	4.6	-90.82	-1.7	-120.0	120.0	110.4	9.57	12.539	
900.0	900.0	900.0	900.0	4.8	4.8	-90.82	-1.7	-120.0	120.0	110.1	9.90	12.119	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.82	-1.7	-120.0	120.0	109.8	10.22	11.736 CC, ES	
1,100.0	1,100.0	1,095.9	1,095.9	5.2	5.2	172.27	-1.7	-121.6	123.4	112.7	10.71	11.527 SF	
1,200.0	1,199.8	1,191.1	1,190.9	5.4	5.4	172.56	-1.7	-126.4	133.6	122.4	11.18	11.953	
1,300.0	1,299.5	1,285.0	1,284.5	5.7	5.7	172.95	-1.7	-134.2	150.5	138.8	11.66	12.904	
1,400.0	1,398.7	1,377.0	1,375.9	6.0	5.9	173.36	-1.7	-144.8	173.9	161.8	12.16	14.302	
1,427.3	1,425.7	1,400.0	1,398.7	6.0	6.0	173.46	-1.7	-147.9	181.5	169.2	12.24	14.824	
1,500.0	1,497.6	1,466.8	1,464.7	6.2	6.2	173.76	-1.7	-157.9	202.9	190.4	12.56	16.159	
1,600.0	1,596.5	1,554.7	1,551.3	6.4	6.4	174.06	-1.7	-173.5	235.0	222.0	12.99	18.092	
1,700.0	1,695.4	1,646.1	1,640.8	6.7	6.7	174.29	-1.7	-191.9	269.4	255.9	13.47	19.996	
1,800.0	1,794.3	1,740.0	1,732.7	7.0	7.0	174.47	-1.7	-210.9	303.9	289.9	14.03	21.669	
1,900.0	1,893.2	1,833.8	1,824.6	7.3	7.3	174.62	-1.7	-230.0	338.4	323.9	14.59	23.195	
2,000.0	1,992.1	1,927.7	1,916.5	7.6	7.6	174.74	-1.7	-249.0	373.0	357.8	15.19	24.562	
2,100.0	2,090.9	2,021.5	2,008.4	7.9	7.9	174.83	-1.7	-268.0	407.5	391.7	15.80	25.784	
2,200.0	2,189.8	2,115.3	2,100.3	8.2	8.2	174.92	-1.7	-287.0	442.1	425.6	16.45	26.878	
2,300.0	2,288.7	2,209.2	2,192.2	8.6	8.5	174.99	-1.7	-306.1	476.6	459.5	17.11	27.857	
2,400.0	2,387.6	2,303.0	2,284.1	8.9	8.9	175.05	-1.7	-325.1	511.1	493.3	17.79	28.735	
2,500.0	2,486.5	2,396.9	2,376.0	9.3	9.2	175.10	-1.7	-344.1	545.7	527.2	18.48	29.524	
2,600.0	2,585.4	2,490.7	2,467.9	9.7	9.6	175.15	-1.7	-363.1	580.2	561.0	19.19	30.234	
2,700.0	2,684.3	2,584.6	2,559.8	10.0	9.9	175.19	-1.7	-382.2	614.7	594.8	19.91	30.874	
2,800.0	2,783.2	2,678.4	2,651.6	10.4	10.3	175.23	-1.7	-401.2	649.3	628.6	20.64	31.453	
2,900.0	2,882.1	2,772.3	2,743.5	10.8	10.7	175.26	-1.7	-420.2	683.8	662.4	21.38	31.977	
3,000.0	2,981.0	2,866.1	2,835.4	11.2	11.1	175.29	-1.7	-439.2	718.4	696.2	22.13	32.454	
3,100.0	3,079.8	2,960.0	2,927.3	11.6	11.5	175.32	-1.7	-458.3	752.9	730.0	22.89	32.888	
3,200.0	3,178.7	3,053.8	3,019.2	12.0	11.9	175.34	-1.7	-477.3	787.4	763.8	23.66	33.284	
3,300.0	3,277.6	3,147.6	3,111.1	12.4	12.2	175.37	-1.7	-496.3	822.0	797.5	24.43	33.646	
3,400.0	3,376.5	3,241.5	3,203.0	12.8	12.6	175.39	-1.7	-515.4	856.5	831.3	25.21	33.979	
3,500.0	3,475.4	3,335.3	3,294.9	13.2	13.0	175.41	-1.7	-534.4	891.1	865.1	25.99	34.284	
3,600.0	3,574.3	3,429.2	3,386.8	13.6	13.5	175.42	-1.7	-553.4	925.6	898.8	26.78	34.565	
3,700.0	3,673.2	3,523.0	3,478.7	14.0	13.9	175.44	-1.7	-572.4	960.1	932.6	27.57	34.825	
3,800.0	3,772.1	3,616.9	3,570.6	14.4	14.3	175.46	-1.7	-591.5	994.7	966.3	28.37	35.065	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.82	-1.3	-90.0	90.0	83.6	6.43	13.999	
100.0	100.0	100.0	100.0	3.2	3.2	-90.82	-1.3	-90.0	90.0	83.1	6.89	13.058	
200.0	200.0	200.0	200.0	3.5	3.5	-90.82	-1.3	-90.0	90.0	82.7	7.33	12.281	
300.0	300.0	300.0	300.0	3.7	3.7	-90.82	-1.3	-90.0	90.0	82.3	7.74	11.626	
400.0	400.0	400.0	400.0	3.9	3.9	-90.82	-1.3	-90.0	90.0	81.9	8.14	11.063	
500.0	500.0	500.0	500.0	4.1	4.1	-90.82	-1.3	-90.0	90.0	81.5	8.51	10.571	
600.0	600.0	600.0	600.0	4.2	4.2	-90.82	-1.3	-90.0	90.0	81.1	8.88	10.138	
700.0	700.0	700.0	700.0	4.4	4.4	-90.82	-1.3	-90.0	90.0	80.8	9.23	9.751	
800.0	800.0	800.0	800.0	4.6	4.6	-90.82	-1.3	-90.0	90.0	80.4	9.57	9.404	
900.0	900.0	900.0	900.0	4.8	4.8	-90.82	-1.3	-90.0	90.0	80.1	9.90	9.089	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.82	-1.3	-90.0	90.0	79.8	10.22	8.802 CC, ES	
1,100.0	1,100.0	1,096.9	1,096.8	5.2	5.2	172.17	-1.5	-91.6	93.4	82.7	10.71	8.725 SF	
1,200.0	1,199.8	1,193.1	1,192.9	5.4	5.4	172.16	-2.2	-96.4	103.6	92.4	11.17	9.271	
1,300.0	1,299.5	1,288.0	1,287.5	5.7	5.7	172.15	-3.4	-104.3	120.5	108.8	11.66	10.335	
1,400.0	1,398.7	1,380.9	1,379.8	6.0	5.9	172.13	-5.0	-115.0	143.9	131.8	12.16	11.839	
1,427.3	1,425.7	1,405.9	1,404.6	6.0	6.0	172.12	-5.5	-118.4	151.5	139.2	12.25	12.368	
1,500.0	1,497.6	1,473.8	1,471.6	6.2	6.1	172.13	-7.0	-128.4	172.7	160.2	12.47	13.848	
1,600.0	1,596.5	1,569.3	1,566.1	6.4	6.3	172.12	-9.1	-142.8	202.1	189.2	12.92	15.643	
1,700.0	1,695.4	1,664.9	1,660.6	6.7	6.6	172.12	-11.2	-157.1	231.6	218.1	13.42	17.251	
1,800.0	1,794.3	1,760.5	1,755.0	7.0	6.8	172.12	-13.4	-171.5	261.0	247.0	13.96	18.698	
1,900.0	1,893.2	1,856.0	1,849.5	7.3	7.1	172.12	-15.5	-185.8	290.4	275.9	14.52	19.998	
2,000.0	1,992.1	1,951.6	1,944.0	7.6	7.4	172.12	-17.6	-200.2	319.9	304.7	15.11	21.164	
2,100.0	2,090.9	2,047.2	2,038.4	7.9	7.7	172.12	-19.7	-214.5	349.3	333.6	15.73	22.210	
2,200.0	2,189.8	2,142.7	2,132.9	8.2	8.0	172.12	-21.9	-228.9	378.7	362.4	16.36	23.148	
2,300.0	2,288.7	2,238.3	2,227.3	8.6	8.4	172.12	-24.0	-243.2	408.2	391.1	17.01	23.991	
2,400.0	2,387.6	2,333.9	2,321.8	8.9	8.7	172.11	-26.1	-257.5	437.6	419.9	17.68	24.749	
2,500.0	2,486.5	2,429.5	2,416.3	9.3	9.0	172.11	-28.2	-271.9	467.0	448.7	18.36	25.432	
2,600.0	2,585.4	2,525.0	2,510.7	9.7	9.4	172.11	-30.4	-286.2	496.5	477.4	19.06	26.049	
2,700.0	2,684.3	2,620.6	2,605.2	10.0	9.7	172.11	-32.5	-300.6	525.9	506.1	19.77	26.607	
2,800.0	2,783.2	2,716.2	2,699.7	10.4	10.1	172.11	-34.6	-314.9	555.3	534.8	20.48	27.114	
2,900.0	2,882.1	2,811.7	2,794.1	10.8	10.5	172.11	-36.7	-329.3	584.8	563.6	21.21	27.574	
3,000.0	2,981.0	2,907.3	2,888.6	11.2	10.8	172.11	-38.9	-343.6	614.2	592.3	21.94	27.993	
3,100.0	3,079.8	3,002.9	2,983.0	11.6	11.2	172.11	-41.0	-358.0	643.6	621.0	22.68	28.377	
3,200.0	3,178.7	3,098.4	3,077.5	12.0	11.6	172.11	-43.1	-372.3	673.1	649.6	23.43	28.727	
3,300.0	3,277.6	3,194.0	3,172.0	12.4	12.0	172.11	-45.2	-386.7	702.5	678.3	24.18	29.049	
3,400.0	3,376.5	3,289.6	3,266.4	12.8	12.4	172.11	-47.4	-401.0	731.9	707.0	24.94	29.345	
3,500.0	3,475.4	3,385.2	3,360.9	13.2	12.7	172.11	-49.5	-415.4	761.4	735.7	25.71	29.618	
3,600.0	3,574.3	3,480.7	3,455.4	13.6	13.1	172.11	-51.6	-429.7	790.8	764.3	26.48	29.870	
3,700.0	3,673.2	3,576.3	3,549.8	14.0	13.5	172.11	-53.7	-444.1	820.2	793.0	27.25	30.103	
3,800.0	3,772.1	3,671.9	3,644.3	14.4	13.9	172.11	-55.9	-458.4	849.7	821.6	28.02	30.319	
3,900.0	3,871.0	3,767.4	3,738.8	14.8	14.3	172.11	-58.0	-472.8	879.1	850.3	28.80	30.520	
4,000.0	3,969.8	3,863.0	3,833.2	15.2	14.7	172.11	-60.1	-487.1	908.5	879.0	29.59	30.706	
4,100.0	4,068.7	3,958.6	3,927.7	15.6	15.1	172.11	-62.2	-501.5	938.0	907.6	30.37	30.881	
4,200.0	4,167.6	4,054.1	4,022.1	16.1	15.5	172.11	-64.4	-515.8	967.4	936.2	31.16	31.043	
4,300.0	4,266.5	4,149.7	4,116.6	16.5	15.9	172.11	-66.5	-530.2	996.8	964.9	31.95	31.195	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	-90.82	-0.9	-60.0	60.0	53.6	6.43	9.333			
100.0	100.0	100.0	100.0	3.2	3.2	-90.82	-0.9	-60.0	60.0	53.1	6.89	8.705			
200.0	200.0	200.0	200.0	3.5	3.5	-90.82	-0.9	-60.0	60.0	52.7	7.33	8.188			
300.0	300.0	300.0	300.0	3.7	3.7	-90.82	-0.9	-60.0	60.0	52.3	7.74	7.751			
400.0	400.0	400.0	400.0	3.9	3.9	-90.82	-0.9	-60.0	60.0	51.9	8.14	7.375			
500.0	500.0	500.0	500.0	4.1	4.1	-90.82	-0.9	-60.0	60.0	51.5	8.51	7.048			
600.0	600.0	600.0	600.0	4.2	4.2	-90.82	-0.9	-60.0	60.0	51.1	8.88	6.759			
700.0	700.0	700.0	700.0	4.4	4.4	-90.82	-0.9	-60.0	60.0	50.8	9.23	6.501			
800.0	800.0	800.0	800.0	4.6	4.6	-90.82	-0.9	-60.0	60.0	50.4	9.57	6.269			
900.0	900.0	900.0	900.0	4.8	4.8	-90.82	-0.9	-60.0	60.0	50.1	9.90	6.059			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.82	-0.9	-60.0	60.0	49.8	10.22	5.868	CC, ES, SF		
1,100.0	1,100.0	1,097.9	1,097.9	5.2	5.2	171.91	-1.4	-61.6	63.4	52.7	10.70	5.921			
1,200.0	1,199.8	1,195.2	1,195.0	5.4	5.4	171.29	-2.9	-66.3	73.4	62.3	11.16	6.577			
1,300.0	1,299.5	1,291.2	1,290.7	5.7	5.7	170.56	-5.5	-74.0	90.1	78.5	11.64	7.740			
1,400.0	1,398.7	1,385.2	1,384.0	6.0	5.9	169.88	-8.9	-84.6	113.3	101.2	12.14	9.336			
1,427.3	1,425.7	1,410.5	1,409.1	6.0	6.0	169.71	-10.0	-87.9	120.8	108.5	12.22	9.881			
1,500.0	1,497.6	1,478.1	1,475.9	6.2	6.1	169.32	-13.3	-97.7	141.9	129.5	12.44	11.408			
1,600.0	1,596.5	1,573.6	1,570.2	6.4	6.3	168.89	-18.0	-112.1	171.5	158.6	12.88	13.311			
1,700.0	1,695.4	1,669.2	1,664.5	6.7	6.6	168.59	-22.7	-126.4	201.1	187.7	13.38	15.027			
1,800.0	1,794.3	1,764.7	1,758.9	7.0	6.8	168.36	-27.5	-140.8	230.7	216.7	13.91	16.582			
1,900.0	1,893.2	1,860.2	1,853.2	7.3	7.1	168.19	-32.2	-155.1	260.2	245.8	14.47	17.986			
2,000.0	1,992.1	1,955.7	1,947.5	7.6	7.4	168.05	-36.9	-169.4	289.8	274.8	15.05	19.253			
2,100.0	2,090.9	2,051.2	2,041.8	7.9	7.7	167.93	-41.6	-183.8	319.4	303.8	15.66	20.396			
2,200.0	2,189.8	2,146.7	2,136.1	8.2	8.1	167.84	-46.4	-198.1	349.0	332.7	16.29	21.426			
2,300.0	2,288.7	2,242.3	2,230.5	8.6	8.4	167.76	-51.1	-212.5	378.6	361.7	16.94	22.356			
2,400.0	2,387.6	2,337.8	2,324.8	8.9	8.7	167.69	-55.8	-226.8	408.2	390.6	17.60	23.197			
2,500.0	2,486.5	2,433.3	2,419.1	9.3	9.1	167.63	-60.5	-241.2	437.8	419.5	18.27	23.964			
2,600.0	2,585.4	2,532.3	2,516.8	9.7	9.4	167.59	-65.4	-255.9	467.2	448.3	18.99	24.611			
2,700.0	2,684.3	2,636.8	2,620.3	10.0	9.8	167.58	-70.0	-269.9	495.3	475.5	19.78	25.042			
2,800.0	2,783.2	2,742.4	2,725.1	10.4	10.2	167.63	-74.1	-282.3	521.6	501.1	20.54	25.389			
2,900.0	2,882.1	2,849.0	2,831.1	10.8	10.6	167.72	-77.6	-293.0	546.2	524.9	21.31	25.631			
3,000.0	2,981.0	2,956.6	2,938.3	11.2	11.0	167.86	-80.5	-301.8	569.0	546.9	22.07	25.784			
3,100.0	3,079.8	3,065.0	3,046.4	11.6	11.3	168.03	-82.8	-308.8	590.0	567.2	22.81	25.862			
3,200.0	3,178.7	3,174.2	3,155.5	12.0	11.7	168.23	-84.5	-313.8	609.2	585.7	23.54	25.878			
3,300.0	3,277.6	3,284.2	3,265.5	12.4	12.0	168.47	-85.5	-316.9	626.6	602.4	24.24	25.848			
3,400.0	3,376.5	3,394.8	3,376.1	12.8	12.2	168.74	-85.9	-318.0	642.2	617.4	24.83	25.862			
3,500.0	3,475.4	3,494.1	3,475.4	13.2	12.6	168.99	-85.9	-318.0	656.8	631.2	25.61	25.650			
3,600.0	3,574.3	3,593.0	3,574.3	13.6	12.6	169.24	-85.9	-318.0	671.4	645.3	26.09	25.734			
3,700.0	3,673.2	3,691.9	3,673.2	14.0	12.7	169.47	-85.9	-318.0	686.0	659.4	26.56	25.827			
3,800.0	3,772.1	3,790.8	3,772.1	14.4	12.8	169.69	-85.9	-318.0	700.6	673.6	27.04	25.911			
3,900.0	3,871.0	3,889.7	3,871.0	14.8	12.8	169.90	-85.9	-318.0	715.3	687.7	27.52	25.987			
4,000.0	3,969.8	3,988.6	3,969.8	15.2	12.9	170.11	-85.9	-318.0	729.9	701.9	28.01	26.055			
4,100.0	4,068.7	4,087.5	4,068.7	15.6	12.9	170.30	-85.9	-318.0	744.5	716.0	28.51	26.115			
4,200.0	4,167.6	4,186.4	4,167.6	16.1	13.0	170.49	-85.9	-318.0	759.2	730.2	29.01	26.170			
4,300.0	4,266.5	4,285.3	4,266.5	16.5	13.1	170.67	-85.9	-318.0	773.9	744.3	29.52	26.218			
4,400.0	4,365.4	4,384.1	4,365.4	16.9	13.1	170.85	-85.9	-318.0	788.5	758.5	30.03	26.260			
4,500.0	4,464.3	4,483.0	4,464.3	17.3	13.2	171.02	-85.9	-318.0	803.2	772.7	30.54	26.298			
4,600.0	4,563.2	4,581.9	4,563.2	17.7	13.3	171.18	-85.9	-318.0	817.9	786.8	31.06	26.331			
4,700.0	4,662.1	4,680.8	4,662.1	18.2	13.3	171.34	-85.9	-318.0	832.6	801.0	31.59	26.359			
4,800.0	4,761.0	4,779.7	4,761.0	18.6	13.4	171.49	-85.9	-318.0	847.3	815.2	32.11	26.384			
4,900.0	4,859.9	4,878.6	4,859.9	19.0	13.4	171.63	-85.9	-318.0	862.0	829.4	32.65	26.405			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		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)					
5,000.0	4,958.7	4,977.5	4,958.7	19.4	13.5	171.78	-85.9	-318.0	876.7	843.5	33.18	26.423	
5,100.0	5,057.6	5,076.4	5,057.6	19.8	13.6	171.91	-85.9	-318.0	891.4	857.7	33.72	26.438	
5,191.9	5,148.5	5,167.2	5,148.5	20.2	13.6	172.03	-85.9	-318.0	904.9	870.7	34.21	26.452	
5,200.0	5,156.5	5,175.3	5,156.5	20.3	13.6	172.05	-85.9	-318.0	906.1	871.9	34.25	26.455	
5,300.0	5,255.6	5,274.3	5,255.6	20.7	13.7	172.18	-85.9	-318.0	919.9	885.0	34.82	26.416	
5,400.0	5,354.8	5,373.6	5,354.8	21.1	13.8	172.30	-85.9	-318.0	931.9	896.5	35.35	26.364	
5,500.0	5,454.3	5,473.0	5,454.3	21.5	13.8	172.40	-85.9	-318.0	942.2	906.3	35.86	26.276	
5,600.0	5,553.9	5,572.6	5,553.9	21.9	13.9	172.48	-85.9	-318.0	950.8	914.4	36.35	26.154	
5,700.0	5,653.7	5,672.4	5,653.7	22.3	14.0	172.54	-85.9	-318.0	957.6	920.8	36.83	26.004	
5,800.0	5,753.5	5,772.3	5,753.5	22.6	14.0	172.59	-85.9	-318.0	962.8	925.5	37.28	25.828	
5,900.0	5,853.5	5,872.2	5,853.5	22.9	14.1	172.62	-85.9	-318.0	966.2	928.5	37.69	25.634	
6,000.0	5,953.4	5,972.2	5,953.4	23.2	14.1	172.64	-85.9	-318.0	967.8	929.8	38.05	25.438	
6,046.6	6,000.0	6,018.7	6,000.0	23.2	14.2	-90.35	-85.9	-318.0	968.0	929.9	38.13	25.386	
6,100.0	6,053.4	6,072.2	6,053.4	23.2	14.2	-90.35	-85.9	-318.0	968.0	929.8	38.17	25.363	
6,200.0	6,153.4	6,172.2	6,153.4	23.3	14.3	-90.35	-85.9	-318.0	968.0	929.8	38.25	25.305	
6,300.0	6,253.4	6,272.2	6,253.4	23.3	14.3	-90.35	-85.9	-318.0	968.0	929.7	38.34	25.247	
6,400.0	6,353.4	6,372.2	6,353.4	23.3	14.4	-90.35	-85.9	-318.0	968.0	929.6	38.43	25.188	
6,500.0	6,453.4	6,472.2	6,453.4	23.4	14.5	-90.35	-85.9	-318.0	968.0	929.5	38.52	25.130	
6,600.0	6,553.4	6,572.2	6,553.4	23.4	14.5	-90.35	-85.9	-318.0	968.0	929.4	38.61	25.072	
6,700.0	6,653.4	6,672.2	6,653.4	23.4	14.6	-90.35	-85.9	-318.0	968.0	929.3	38.70	25.013	
6,800.0	6,753.4	6,772.2	6,753.4	23.5	14.7	-90.35	-85.9	-318.0	968.0	929.2	38.79	24.955	
6,900.0	6,853.4	6,872.2	6,853.4	23.5	14.7	-90.35	-85.9	-318.0	968.0	929.1	38.88	24.897	
7,000.0	6,953.4	6,972.2	6,953.4	23.5	14.8	-90.35	-85.9	-318.0	968.0	929.0	38.97	24.838	
7,100.0	7,053.4	7,072.2	7,053.4	23.6	14.9	-90.35	-85.9	-318.0	968.0	928.9	39.06	24.780	
7,200.0	7,153.4	7,172.2	7,153.4	23.6	14.9	-90.35	-85.9	-318.0	968.0	928.9	39.16	24.721	
7,300.0	7,253.4	7,272.2	7,253.4	23.6	15.0	-90.35	-85.9	-318.0	968.0	928.8	39.25	24.663	
7,400.0	7,353.4	7,372.2	7,353.4	23.7	15.1	-90.35	-85.9	-318.0	968.0	928.7	39.34	24.604	
7,500.0	7,453.4	7,472.2	7,453.4	23.7	15.1	-90.35	-85.9	-318.0	968.0	928.6	39.44	24.546	
7,600.0	7,553.4	7,572.2	7,553.4	23.7	15.2	-90.35	-85.9	-318.0	968.0	928.5	39.53	24.487	
7,700.0	7,653.4	7,672.2	7,653.4	23.8	15.3	-90.35	-85.9	-318.0	968.0	928.4	39.63	24.429	
7,800.0	7,753.4	7,772.2	7,753.4	23.8	15.4	-90.35	-85.9	-318.0	968.0	928.3	39.72	24.370	
7,900.0	7,853.4	7,872.2	7,853.4	23.9	15.4	-90.35	-85.9	-318.0	968.0	928.2	39.82	24.312	
8,000.0	7,953.4	7,972.2	7,953.4	23.9	15.5	-90.35	-85.9	-318.0	968.0	928.1	39.91	24.254	
8,100.0	8,053.4	8,072.2	8,053.4	23.9	15.6	-90.35	-85.9	-318.0	968.0	928.0	40.01	24.195	
8,200.0	8,153.4	8,172.2	8,153.4	24.0	15.6	-90.35	-85.9	-318.0	968.0	927.9	40.11	24.137	
8,300.0	8,253.4	8,272.2	8,253.4	24.0	15.7	-90.35	-85.9	-318.0	968.0	927.8	40.20	24.079	
8,400.0	8,353.4	8,372.2	8,353.4	24.0	15.8	-90.35	-85.9	-318.0	968.0	927.7	40.30	24.020	
8,500.0	8,453.4	8,472.2	8,453.4	24.1	15.8	-90.35	-85.9	-318.0	968.0	927.6	40.40	23.962	
8,600.0	8,553.4	8,572.2	8,553.4	24.1	15.9	-90.35	-85.9	-318.0	968.0	927.5	40.50	23.904	
8,700.0	8,653.4	8,672.2	8,653.4	24.2	16.0	-90.35	-85.9	-318.0	968.0	927.4	40.59	23.846	
8,800.0	8,753.4	8,772.2	8,753.4	24.2	16.0	-90.35	-85.9	-318.0	968.0	927.3	40.69	23.788	
8,900.0	8,853.4	8,872.2	8,853.4	24.2	16.1	-90.35	-85.9	-318.0	968.0	927.2	40.79	23.730	
9,000.0	8,953.4	8,972.2	8,953.4	24.3	16.2	-90.35	-85.9	-318.0	968.0	927.1	40.89	23.672	
9,100.0	9,053.4	9,072.2	9,053.4	24.3	16.2	-90.35	-85.9	-318.0	968.0	927.0	40.99	23.614	
9,200.0	9,153.4	9,172.2	9,153.4	24.4	16.3	-90.35	-85.9	-318.0	968.0	926.9	41.09	23.556	
9,300.0	9,253.4	9,272.2	9,253.4	24.4	16.4	-90.35	-85.9	-318.0	968.0	926.8	41.20	23.498	
9,400.0	9,353.4	9,372.2	9,353.4	24.4	16.5	-90.35	-85.9	-318.0	968.0	926.7	41.30	23.440	
9,500.0	9,453.4	9,472.2	9,453.4	24.5	16.5	-90.35	-85.9	-318.0	968.0	926.6	41.40	23.382	
9,600.0	9,553.4	9,572.2	9,553.4	24.5	16.6	-90.35	-85.9	-318.0	968.0	926.5	41.50	23.325	
9,700.0	9,653.4	9,672.2	9,653.4	24.6	16.7	-90.35	-85.9	-318.0	968.0	926.4	41.60	23.267	
9,800.0	9,753.4	9,772.2	9,753.4	24.6	16.7	-90.35	-85.9	-318.0	968.0	926.3	41.71	23.210	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.0	9,853.4	9,872.2	9,853.4	24.6	16.8	-90.35	-85.9	-318.0	968.0	926.2	41.81	23.152			
10,000.0	9,953.4	9,972.2	9,953.4	24.7	16.9	-90.35	-85.9	-318.0	968.0	926.1	41.91	23.095			
10,100.0	10,053.4	10,072.2	10,053.4	24.7	17.0	-90.35	-85.9	-318.0	968.0	926.0	42.02	23.038			
10,200.0	10,153.4	10,172.2	10,153.4	24.8	17.0	-90.35	-85.9	-318.0	968.0	925.9	42.12	22.981			
10,300.0	10,253.4	10,272.2	10,253.4	24.8	17.1	-90.35	-85.9	-318.0	968.0	925.8	42.23	22.924			
10,400.0	10,353.4	10,372.2	10,353.4	24.9	17.2	-90.35	-85.9	-318.0	968.0	925.7	42.33	22.867			
10,500.0	10,453.4	10,472.2	10,453.4	24.9	17.2	-90.35	-85.9	-318.0	968.0	925.6	42.44	22.810			
10,600.0	10,553.4	10,572.2	10,553.4	24.9	17.3	-90.35	-85.9	-318.0	968.0	925.5	42.54	22.753			
10,700.0	10,653.4	10,672.2	10,653.4	25.0	17.4	-90.35	-85.9	-318.0	968.0	925.4	42.65	22.696			
10,800.0	10,753.4	10,772.2	10,753.4	25.0	17.4	-90.35	-85.9	-318.0	968.0	925.3	42.76	22.640			
10,900.0	10,853.4	10,872.2	10,853.4	25.1	17.5	-90.35	-85.9	-318.0	968.0	925.1	42.86	22.583			
11,000.0	10,953.4	10,972.2	10,953.4	25.1	17.6	-90.35	-85.9	-318.0	968.0	925.0	42.97	22.527			
11,100.0	11,053.4	11,072.2	11,053.4	25.2	17.7	-90.35	-85.9	-318.0	968.0	924.9	43.08	22.471			
11,200.0	11,153.4	11,172.2	11,153.4	25.2	17.7	-90.35	-85.9	-318.0	968.0	924.8	43.19	22.414			
11,300.0	11,253.4	11,272.2	11,253.4	25.2	17.8	-90.35	-85.9	-318.0	968.0	924.7	43.30	22.358			
11,389.1	11,342.5	11,361.2	11,342.5	25.3	17.9	-90.35	-85.9	-318.0	968.0	924.6	43.38	22.316			
11,400.0	11,353.4	11,374.9	11,356.2	25.3	17.9	92.65	-86.1	-318.0	968.0	924.6	43.38	22.312			
11,425.0	11,378.4	11,406.1	11,387.3	25.3	17.9	92.64	-88.0	-317.8	967.9	924.5	43.39	22.308			
11,450.0	11,403.3	11,437.3	11,418.3	25.3	17.9	92.62	-91.9	-317.4	967.7	924.3	43.39	22.304			
11,475.0	11,428.0	11,468.4	11,448.8	25.3	17.9	92.59	-97.8	-316.7	967.4	924.0	43.39	22.297			
11,500.0	11,452.5	11,499.4	11,478.7	25.3	17.9	92.54	-105.6	-315.9	967.0	923.6	43.39	22.289			
11,525.0	11,476.6	11,530.3	11,508.0	25.3	17.9	92.49	-115.3	-314.9	966.5	923.2	43.38	22.280			
11,550.0	11,500.4	11,560.9	11,536.4	25.4	17.9	92.42	-126.8	-313.7	966.0	922.6	43.38	22.269			
11,575.0	11,523.8	11,591.4	11,563.9	25.4	18.0	92.34	-140.0	-312.3	965.3	921.9	43.37	22.257			
11,600.0	11,546.7	11,621.7	11,590.3	25.4	18.0	92.26	-154.8	-310.7	964.6	921.2	43.36	22.243			
11,625.0	11,569.0	11,651.8	11,615.4	25.4	18.0	92.17	-171.1	-309.0	963.7	920.4	43.36	22.228			
11,650.0	11,590.6	11,681.6	11,639.3	25.4	18.0	92.07	-188.8	-307.2	962.9	919.5	43.35	22.211			
11,675.0	11,611.7	11,711.1	11,661.9	25.5	18.1	91.96	-207.7	-305.2	961.9	918.5	43.34	22.192			
11,700.0	11,631.9	11,740.3	11,683.0	25.5	18.1	91.85	-227.8	-303.1	960.9	917.5	43.34	22.171			
11,725.0	11,651.4	11,769.3	11,702.6	25.5	18.1	91.73	-248.9	-300.9	959.8	916.4	43.33	22.148			
11,750.0	11,670.0	11,797.9	11,720.8	25.5	18.1	91.60	-271.0	-298.5	958.6	915.3	43.33	22.123			
11,775.0	11,687.8	11,826.2	11,737.4	25.6	18.2	91.48	-293.8	-296.1	957.5	914.1	43.33	22.095			
11,800.0	11,704.6	11,854.3	11,752.5	25.6	18.2	91.34	-317.3	-293.7	956.2	912.9	43.34	22.064			
11,825.0	11,720.4	11,882.0	11,766.0	25.6	18.2	91.21	-341.4	-291.1	955.0	911.6	43.35	22.031			
11,850.0	11,735.1	11,909.4	11,777.9	25.6	18.3	91.07	-365.9	-288.6	953.7	910.3	43.36	21.994			
11,875.0	11,748.8	11,936.5	11,788.3	25.7	18.3	90.93	-390.7	-285.9	952.4	909.0	43.38	21.953			
11,900.0	11,761.4	11,963.2	11,797.2	25.7	18.4	90.79	-415.8	-283.3	951.1	907.6	43.41	21.910			
11,925.0	11,772.8	11,989.7	11,804.6	25.7	18.4	90.65	-441.1	-280.7	949.7	906.3	43.44	21.862			
11,950.0	11,783.0	12,015.9	11,810.5	25.8	18.4	90.50	-466.5	-278.0	948.4	904.9	43.48	21.811			
11,975.0	11,792.1	12,041.7	11,814.9	25.8	18.5	90.36	-491.8	-275.3	947.0	903.5	43.53	21.757			
12,000.0	11,799.9	12,067.3	11,817.9	25.8	18.5	90.22	-517.1	-272.7	945.7	902.1	43.58	21.698			
12,025.0	11,806.4	12,092.6	11,819.6	25.9	18.5	90.08	-542.2	-270.0	944.3	900.7	43.64	21.637			
12,050.0	11,811.7	12,111.2	11,820.0	25.9	18.6	90.01	-560.7	-268.1	943.0	899.3	43.73	21.566			
12,075.0	11,815.7	12,134.5	11,820.0	25.9	18.6	89.92	-583.9	-265.7	941.8	898.0	43.82	21.493			
12,100.0	11,818.4	12,153.2	11,820.0	25.9	18.7	89.92	-602.5	-264.0	940.8	896.8	43.92	21.419			
12,125.0	11,819.8	12,172.0	11,820.0	26.0	18.7	89.96	-621.2	-262.4	939.9	895.9	44.03	21.345			
12,139.1	11,820.0	12,182.6	11,820.0	26.0	18.7	90.00	-631.7	-261.5	939.5	895.4	44.10	21.304			
12,200.0	11,820.0	12,228.4	11,820.0	26.1	18.8	90.00	-677.5	-258.2	937.7	893.3	44.41	21.115			
12,300.0	11,820.0	12,300.0	11,820.0	26.3	19.0	90.00	-748.9	-254.6	934.0	889.0	44.97	20.769			
12,306.1	11,820.0	12,300.0	11,820.0	26.3	19.0	90.00	-748.9	-254.6	933.8	888.8	45.00	20.750			
12,400.0	11,820.0	12,379.2	11,820.0	26.5	19.3	90.00	-828.1	-252.6	930.9	885.4	45.54	20.441			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program:		0-r.5 MWD+IFR1		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance	Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
12,500.0	11,820.0	12,468.6	11,820.0	26.8	19.5	90.00	-917.6	-252.4	930.1	883.9	46.16	20.150				
12,600.0	11,820.0	12,568.6	11,820.0	27.0	19.9	90.00	-1,017.6	-252.4	929.5	882.7	46.86	19.837				
12,700.0	11,820.0	12,668.6	11,820.0	27.4	20.3	90.00	-1,117.6	-252.4	928.9	881.3	47.62	19.507				
12,800.0	11,820.0	12,768.6	11,820.0	27.7	20.7	90.00	-1,217.5	-252.4	928.4	879.9	48.45	19.162				
12,900.0	11,820.0	12,868.6	11,820.0	28.1	21.2	90.00	-1,317.5	-252.5	927.8	878.4	49.34	18.806				
13,000.0	11,820.0	12,968.6	11,820.0	28.5	21.7	90.00	-1,417.5	-252.5	927.2	876.9	50.28	18.441				
13,100.0	11,820.0	13,068.6	11,820.0	28.9	22.3	90.00	-1,517.5	-252.5	926.6	875.3	51.27	18.072				
13,200.0	11,820.0	13,168.6	11,820.0	29.4	22.9	90.00	-1,617.5	-252.5	926.0	873.7	52.32	17.699				
13,300.0	11,820.0	13,268.6	11,820.0	29.9	23.5	90.00	-1,717.5	-252.5	925.5	872.0	53.41	17.326				
13,400.0	11,820.0	13,368.6	11,820.0	30.4	24.1	90.00	-1,817.5	-252.5	924.9	870.3	54.55	16.954				
13,500.0	11,820.0	13,468.6	11,820.0	30.9	24.8	90.00	-1,917.5	-252.5	924.3	868.6	55.73	16.585				
13,600.0	11,820.0	13,568.6	11,820.0	31.5	25.5	90.00	-2,017.5	-252.6	923.7	866.8	56.95	16.221				
13,700.0	11,820.0	13,668.6	11,820.0	32.0	26.2	90.00	-2,117.5	-252.6	923.1	864.9	58.20	15.861				
13,800.0	11,820.0	13,768.6	11,820.0	32.6	26.9	90.00	-2,217.5	-252.6	922.6	863.1	59.49	15.508				
13,900.0	11,820.0	13,868.6	11,820.0	33.3	27.7	90.00	-2,317.5	-252.6	922.0	861.2	60.81	15.161				
14,000.0	11,820.0	13,968.6	11,820.0	33.9	28.4	90.00	-2,417.5	-252.6	921.4	859.2	62.16	14.823				
14,100.0	11,820.0	14,068.6	11,820.0	34.5	29.2	90.00	-2,517.5	-252.6	920.8	857.3	63.54	14.492				
14,200.0	11,820.0	14,168.6	11,820.0	35.2	29.9	90.00	-2,617.5	-252.6	920.2	855.3	64.94	14.170				
14,300.0	11,820.0	14,268.6	11,820.0	35.9	30.7	90.00	-2,717.5	-252.7	919.6	853.3	66.37	13.856				
14,400.0	11,820.0	14,368.6	11,820.0	36.5	31.5	90.00	-2,817.5	-252.7	919.1	851.2	67.82	13.551				
14,500.0	11,820.0	14,468.6	11,820.0	37.2	32.3	90.00	-2,917.5	-252.7	918.5	849.2	69.30	13.254				
14,600.0	11,820.0	14,568.6	11,820.0	38.0	33.1	90.00	-3,017.5	-252.7	917.9	847.1	70.79	12.966				
14,700.0	11,820.0	14,668.6	11,820.0	38.7	34.0	90.00	-3,117.5	-252.7	917.3	845.0	72.30	12.687				
14,800.0	11,820.0	14,768.6	11,820.0	39.4	34.8	90.00	-3,217.5	-252.7	916.7	842.9	73.83	12.416				
14,900.0	11,820.0	14,868.6	11,820.0	40.2	35.6	90.00	-3,317.5	-252.7	916.2	840.8	75.38	12.154				
15,000.0	11,820.0	14,968.6	11,820.0	40.9	36.5	90.00	-3,417.5	-252.8	915.6	838.6	76.94	11.900				
15,100.0	11,820.0	15,068.6	11,820.0	41.7	37.3	90.00	-3,517.5	-252.8	915.0	836.5	78.52	11.653				
15,200.0	11,820.0	15,168.6	11,820.0	42.4	38.2	90.00	-3,617.5	-252.8	914.4	834.3	80.11	11.414				
15,300.0	11,820.0	15,268.6	11,820.0	43.2	39.0	90.00	-3,717.5	-252.8	913.8	832.1	81.71	11.183				
15,400.0	11,820.0	15,368.6	11,820.0	44.0	39.9	90.00	-3,817.5	-252.8	913.3	829.9	83.33	10.959				
15,500.0	11,820.0	15,468.6	11,820.0	44.8	40.7	90.00	-3,917.5	-252.8	912.7	827.7	84.96	10.743				
15,600.0	11,820.0	15,568.6	11,820.0	45.6	41.6	90.00	-4,017.5	-252.8	912.1	825.5	86.60	10.533				
15,700.0	11,820.0	15,668.6	11,820.0	46.4	42.5	90.00	-4,117.5	-252.9	911.5	823.3	88.24	10.329				
15,800.0	11,820.0	15,768.6	11,820.0	47.2	43.4	90.00	-4,217.5	-252.9	910.9	821.0	89.90	10.132				
15,900.0	11,820.0	15,868.6	11,820.0	48.0	44.3	90.00	-4,317.5	-252.9	910.3	818.8	91.57	9.941				
16,000.0	11,820.0	15,968.6	11,820.0	48.8	45.1	90.00	-4,417.5	-252.9	909.8	816.5	93.25	9.756				
16,100.0	11,820.0	16,068.6	11,820.0	49.6	46.0	90.00	-4,517.5	-252.9	909.2	814.3	94.93	9.577				
16,200.0	11,820.0	16,168.6	11,820.0	50.5	46.9	90.00	-4,617.5	-252.9	908.6	812.0	96.62	9.403				
16,300.0	11,820.0	16,268.6	11,820.0	51.3	47.8	90.00	-4,717.5	-252.9	908.0	809.7	98.32	9.235				
16,400.0	11,820.0	16,368.6	11,820.0	52.1	48.7	90.00	-4,817.5	-253.0	907.4	807.4	100.03	9.072				
16,500.0	11,820.0	16,468.6	11,820.0	53.0	49.6	90.00	-4,917.5	-253.0	906.9	805.1	101.74	8.913				
16,600.0	11,820.0	16,568.6	11,820.0	53.8	50.5	90.00	-5,017.5	-253.0	906.3	802.8	103.46	8.759				
16,700.0	11,820.0	16,668.6	11,820.0	54.7	51.4	90.00	-5,117.5	-253.0	905.7	800.5	105.19	8.610				
16,800.0	11,820.0	16,768.6	11,820.0	55.5	52.3	90.00	-5,217.5	-253.0	905.1	798.2	106.92	8.465				
16,900.0	11,820.0	16,868.6	11,820.0	56.4	53.2	90.00	-5,317.5	-253.0	904.5	795.9	108.66	8.325				
17,000.0	11,820.0	16,968.6	11,820.0	57.2	54.1	90.00	-5,417.5	-253.0	903.9	793.6	110.40	8.188				
17,100.0	11,820.0	17,068.6	11,820.0	58.1	55.0	90.00	-5,517.5	-253.0	903.4	791.2	112.15	8.055				
17,200.0	11,820.0	17,168.6	11,820.0	59.0	56.0	90.00	-5,617.5	-253.1	902.8	788.9	113.90	7.926				
17,300.0	11,820.0	17,268.6	11,820.0	59.8	56.9	90.00	-5,717.5	-253.1	902.2	786.6	115.65	7.801				
17,400.0	11,820.0	17,368.6	11,820.0	60.7	57.8	90.00	-5,817.5	-253.1	901.6	784.2	117.41	7.679				
17,500.0	11,820.0	17,468.6	11,820.0	61.6	58.7	90.00	-5,917.5	-253.1	901.0	781.9	119.18	7.560				

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #703H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
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	
17,600.0	11,820.0	17,568.5	11,820.0	62.5	59.6	90.00	-6,017.5	-253.1	900.5	779.5	120.95	7.445		
17,700.0	11,820.0	17,668.5	11,820.0	63.3	60.5	90.00	-6,117.5	-253.1	899.9	777.2	122.72	7.333		
17,800.0	11,820.0	17,768.5	11,820.0	64.2	61.5	90.00	-6,217.5	-253.1	899.3	774.8	124.49	7.224		
17,900.0	11,820.0	17,868.5	11,820.0	65.1	62.4	90.00	-6,317.5	-253.2	898.7	772.4	126.27	7.117		
18,000.0	11,820.0	17,968.5	11,820.0	66.0	63.3	90.00	-6,417.5	-253.2	898.1	770.1	128.06	7.014		
18,100.0	11,820.0	18,068.5	11,820.0	66.9	64.2	90.00	-6,517.5	-253.2	897.6	767.7	129.84	6.913		
18,200.0	11,820.0	18,168.5	11,820.0	67.8	65.2	90.00	-6,617.5	-253.2	897.0	765.3	131.63	6.814		
18,300.0	11,820.0	18,268.5	11,820.0	68.7	66.1	90.00	-6,717.5	-253.2	896.4	763.0	133.42	6.718		
18,400.0	11,820.0	18,368.5	11,820.0	69.5	67.0	90.00	-6,817.5	-253.2	895.8	760.6	135.22	6.625		
18,500.0	11,820.0	18,468.5	11,820.0	70.4	67.9	90.00	-6,917.5	-253.2	895.2	758.2	137.01	6.534		
18,600.0	11,820.0	18,568.5	11,820.0	71.3	68.9	90.00	-7,017.5	-253.3	894.6	755.8	138.81	6.445		
18,700.0	11,820.0	18,668.5	11,820.0	72.2	69.8	90.00	-7,117.4	-253.3	894.1	753.5	140.62	6.358		
18,800.0	11,820.0	18,768.5	11,820.0	73.1	70.7	90.00	-7,217.4	-253.3	893.5	751.1	142.42	6.274		
18,900.0	11,820.0	18,868.5	11,820.0	74.0	71.7	90.00	-7,317.4	-253.3	892.9	748.7	144.23	6.191		
19,000.0	11,820.0	18,968.5	11,820.0	74.9	72.6	90.00	-7,417.4	-253.3	892.3	746.3	146.04	6.110		
19,100.0	11,820.0	19,068.5	11,820.0	75.8	73.5	90.00	-7,517.4	-253.3	891.7	743.9	147.85	6.032		
19,200.0	11,820.0	19,168.5	11,820.0	76.7	74.5	90.00	-7,617.4	-253.3	891.2	741.5	149.66	5.955		
19,300.0	11,820.0	19,268.5	11,820.0	77.4	75.4	90.00	-7,717.4	-253.4	890.6	739.4	151.19	5.891		
19,304.3	11,820.0	19,272.8	11,820.0	77.4	75.4	90.00	-7,721.7	-253.4	890.6	739.3	151.25	5.888		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	-90.82	-0.4	-30.0	30.0	23.6	6.43	4.666			
100.0	100.0	100.0	100.0	3.2	3.2	-90.82	-0.4	-30.0	30.0	23.1	6.89	4.353			
200.0	200.0	200.0	200.0	3.5	3.5	-90.82	-0.4	-30.0	30.0	22.7	7.33	4.094			
300.0	300.0	300.0	300.0	3.7	3.7	-90.82	-0.4	-30.0	30.0	22.3	7.74	3.875			
400.0	400.0	400.0	400.0	3.9	3.9	-90.82	-0.4	-30.0	30.0	21.9	8.14	3.688			
500.0	500.0	500.0	500.0	4.1	4.1	-90.82	-0.4	-30.0	30.0	21.5	8.51	3.524			
600.0	600.0	600.0	600.0	4.2	4.2	-90.82	-0.4	-30.0	30.0	21.1	8.88	3.379			
700.0	700.0	700.0	700.0	4.4	4.4	-90.82	-0.4	-30.0	30.0	20.8	9.23	3.250			
800.0	800.0	800.0	800.0	4.6	4.6	-90.82	-0.4	-30.0	30.0	20.4	9.57	3.135			
900.0	900.0	900.0	900.0	4.8	4.8	-90.82	-0.4	-30.0	30.0	20.1	9.90	3.030			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	-90.82	-0.4	-30.0	30.0	19.8	10.22	2.934 CC			
1,100.0	1,100.0	1,101.0	1,100.9	5.2	5.2	171.30	-1.1	-28.4	30.1	19.4	10.70	2.814			
1,200.0	1,199.8	1,201.9	1,201.8	5.4	5.4	168.73	-3.1	-23.4	30.5	19.3	11.15	2.734 ES			
1,300.0	1,299.5	1,302.9	1,302.3	5.7	5.7	164.61	-6.5	-15.2	31.2	19.6	11.60	2.692 SF			
1,400.0	1,398.7	1,403.7	1,402.4	6.0	6.0	159.21	-11.2	-3.7	32.5	20.5	12.03	2.704			
1,427.3	1,425.7	1,431.3	1,429.6	6.0	6.0	157.57	-12.7	0.0	33.0	21.0	12.07	2.736			
1,500.0	1,497.6	1,503.9	1,501.4	6.2	6.2	153.45	-16.8	10.0	34.5	22.3	12.25	2.819			
1,600.0	1,596.5	1,603.8	1,600.3	6.4	6.4	148.38	-22.4	23.7	36.9	24.3	12.59	2.931			
1,700.0	1,695.4	1,703.7	1,699.1	6.7	6.7	143.95	-28.0	37.5	39.5	26.6	12.92	3.056			
1,800.0	1,794.3	1,803.6	1,797.9	7.0	6.9	140.09	-33.6	51.2	42.3	29.1	13.26	3.192			
1,900.0	1,893.2	1,903.6	1,896.7	7.3	7.2	136.72	-39.3	65.0	45.3	31.7	13.58	3.334			
2,000.0	1,992.1	2,003.5	1,995.5	7.6	7.6	133.78	-44.9	78.7	48.4	34.5	13.91	3.480			
2,100.0	2,090.9	2,103.4	2,094.3	7.9	7.9	131.19	-50.5	92.4	51.6	37.4	14.23	3.628			
2,200.0	2,189.8	2,203.3	2,193.1	8.2	8.2	128.92	-56.1	106.2	55.0	40.4	14.55	3.777			
2,300.0	2,288.7	2,303.3	2,292.0	8.6	8.6	126.91	-61.7	119.9	58.4	43.5	14.87	3.925			
2,400.0	2,387.6	2,403.2	2,390.8	8.9	8.9	125.12	-67.4	133.7	61.8	46.6	15.18	4.072			
2,500.0	2,486.5	2,503.1	2,489.6	9.3	9.3	123.52	-73.0	147.4	65.3	49.8	15.49	4.217			
2,600.0	2,585.4	2,602.9	2,588.3	9.7	9.6	122.20	-78.6	161.0	68.9	53.2	15.76	4.374			
2,700.0	2,684.3	2,702.4	2,686.9	10.0	10.0	122.09	-83.6	173.3	73.0	56.8	16.16	4.517			
2,800.0	2,783.2	2,801.9	2,785.8	10.4	10.3	123.21	-87.9	183.9	77.5	60.9	16.65	4.657			
2,900.0	2,882.1	2,901.3	2,884.6	10.8	10.7	125.34	-91.6	193.0	82.7	65.5	17.25	4.794			
3,000.0	2,981.0	3,000.5	2,983.5	11.2	11.0	128.24	-94.7	200.5	88.7	70.7	17.97	4.933			
3,100.0	3,079.8	3,099.4	3,082.2	11.6	11.4	131.69	-97.1	206.3	95.6	76.8	18.80	5.083			
3,200.0	3,178.7	3,198.0	3,180.7	12.0	11.7	135.49	-98.8	210.6	103.6	83.9	19.72	5.254			
3,300.0	3,277.6	3,296.3	3,279.0	12.4	11.9	139.43	-99.9	213.3	113.0	92.3	20.71	5.459			
3,400.0	3,376.5	3,394.2	3,376.8	12.8	12.2	143.37	-100.4	214.5	124.0	102.3	21.71	5.712			
3,500.0	3,475.4	3,492.8	3,475.4	13.2	12.2	147.06	-100.4	214.5	136.2	113.6	22.62	6.022			
3,600.0	3,574.3	3,591.6	3,574.3	13.6	12.3	150.16	-100.4	214.5	148.9	125.5	23.46	6.349			
3,700.0	3,673.2	3,690.5	3,673.2	14.0	12.4	152.77	-100.4	214.5	162.0	137.8	24.24	6.684			
3,800.0	3,772.1	3,789.4	3,772.1	14.4	12.4	154.99	-100.4	214.5	175.4	150.4	24.97	7.023			
3,900.0	3,871.0	3,888.3	3,871.0	14.8	12.5	156.89	-100.4	214.5	189.0	163.3	25.67	7.361			
4,000.0	3,969.8	3,987.2	3,969.8	15.2	12.5	158.54	-100.4	214.5	202.8	176.4	26.34	7.697			
4,100.0	4,068.7	4,086.1	4,068.7	15.6	12.6	159.97	-100.4	214.5	216.7	189.7	26.99	8.027			
4,200.0	4,167.6	4,185.0	4,167.6	16.1	12.7	161.24	-100.4	214.5	230.7	203.1	27.63	8.351			
4,300.0	4,266.5	4,283.9	4,266.5	16.5	12.7	162.35	-100.4	214.5	244.9	216.6	28.25	8.668			
4,400.0	4,365.4	4,382.8	4,365.4	16.9	12.8	163.35	-100.4	214.5	259.1	230.2	28.86	8.977			
4,500.0	4,464.3	4,481.7	4,464.3	17.3	12.9	164.24	-100.4	214.5	273.3	243.9	29.46	9.278			
4,600.0	4,563.2	4,580.5	4,563.2	17.7	12.9	165.04	-100.4	214.5	287.7	257.6	30.06	9.570			
4,700.0	4,662.1	4,679.4	4,662.1	18.2	13.0	165.77	-100.4	214.5	302.1	271.4	30.65	9.855			
4,800.0	4,761.0	4,778.3	4,761.0	18.6	13.0	166.43	-100.4	214.5	316.5	285.3	31.24	10.131			
4,900.0	4,859.9	4,877.2	4,859.9	19.0	13.1	167.04	-100.4	214.5	331.0	299.2	31.83	10.399			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Offset Wellbore Centre			Distance		Rule Assigned:		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,958.7	4,976.1	4,958.7	19.4	13.2	167.59	-100.4	214.5	345.5	313.1	32.41	10.659		
5,100.0	5,057.6	5,075.0	5,057.6	19.8	13.2	168.10	-100.4	214.5	360.0	327.0	33.00	10.911		
5,191.9	5,148.5	5,165.9	5,148.5	20.2	13.3	168.53	-100.4	214.5	373.4	339.9	33.53	11.137		
5,200.0	5,156.5	5,173.9	5,156.5	20.3	13.3	168.57	-100.4	214.5	374.6	341.0	33.57	11.157		
5,300.0	5,255.6	5,272.9	5,255.6	20.7	13.4	169.00	-100.4	214.5	388.2	354.0	34.18	11.357		
5,400.0	5,354.8	5,372.2	5,354.8	21.1	13.4	169.35	-100.4	214.5	400.1	365.4	34.73	11.519		
5,500.0	5,454.3	5,471.6	5,454.3	21.5	13.5	169.64	-100.4	214.5	410.3	375.1	35.27	11.635		
5,600.0	5,553.9	5,571.3	5,553.9	21.9	13.6	169.87	-100.4	214.5	418.8	383.1	35.78	11.706		
5,700.0	5,653.7	5,671.0	5,653.7	22.3	13.6	170.04	-100.4	214.5	425.7	389.4	36.27	11.736		
5,800.0	5,753.5	5,770.9	5,753.5	22.6	13.7	170.17	-100.4	214.5	430.7	394.0	36.73	11.727		
5,900.0	5,853.5	5,870.8	5,853.5	22.9	13.8	170.25	-100.4	214.5	434.1	397.0	37.15	11.685		
6,000.0	5,953.4	5,970.8	5,953.4	23.2	13.8	170.29	-100.4	214.5	435.8	398.3	37.51	11.617		
6,046.6	6,000.0	6,017.4	6,000.0	23.2	13.8	-92.69	-100.4	214.5	436.0	398.4	37.60	11.596		
6,100.0	6,053.4	6,070.8	6,053.4	23.2	13.9	-92.69	-100.4	214.5	436.0	398.3	37.63	11.585		
6,200.0	6,153.4	6,170.8	6,153.4	23.3	13.9	-92.69	-100.4	214.5	436.0	398.3	37.72	11.558		
6,300.0	6,253.4	6,270.8	6,253.4	23.3	14.0	-92.69	-100.4	214.5	436.0	398.2	37.81	11.530		
6,400.0	6,353.4	6,370.8	6,353.4	23.3	14.1	-92.69	-100.4	214.5	436.0	398.1	37.90	11.503		
6,500.0	6,453.4	6,470.8	6,453.4	23.4	14.1	-92.69	-100.4	214.5	436.0	398.0	37.99	11.476		
6,600.0	6,553.4	6,570.8	6,553.4	23.4	14.2	-92.69	-100.4	214.5	436.0	397.9	38.08	11.449		
6,700.0	6,653.4	6,670.8	6,653.4	23.4	14.3	-92.69	-100.4	214.5	436.0	397.8	38.17	11.422		
6,800.0	6,753.4	6,770.8	6,753.4	23.5	14.3	-92.69	-100.4	214.5	436.0	397.7	38.26	11.395		
6,900.0	6,853.4	6,870.8	6,853.4	23.5	14.4	-92.69	-100.4	214.5	436.0	397.6	38.35	11.367		
7,000.0	6,953.4	6,970.8	6,953.4	23.5	14.5	-92.69	-100.4	214.5	436.0	397.5	38.45	11.340		
7,100.0	7,053.4	7,070.8	7,053.4	23.6	14.6	-92.69	-100.4	214.5	436.0	397.4	38.54	11.313		
7,200.0	7,153.4	7,170.8	7,153.4	23.6	14.6	-92.69	-100.4	214.5	436.0	397.3	38.63	11.286		
7,300.0	7,253.4	7,270.8	7,253.4	23.6	14.7	-92.69	-100.4	214.5	436.0	397.3	38.72	11.259		
7,400.0	7,353.4	7,370.8	7,353.4	23.7	14.8	-92.69	-100.4	214.5	436.0	397.2	38.82	11.231		
7,500.0	7,453.4	7,470.8	7,453.4	23.7	14.8	-92.69	-100.4	214.5	436.0	397.1	38.91	11.204		
7,600.0	7,553.4	7,570.8	7,553.4	23.7	14.9	-92.69	-100.4	214.5	436.0	397.0	39.01	11.177		
7,700.0	7,653.4	7,670.8	7,653.4	23.8	15.0	-92.69	-100.4	214.5	436.0	396.9	39.10	11.150		
7,800.0	7,753.4	7,770.8	7,753.4	23.8	15.0	-92.69	-100.4	214.5	436.0	396.8	39.20	11.123		
7,900.0	7,853.4	7,870.8	7,853.4	23.9	15.1	-92.69	-100.4	214.5	436.0	396.7	39.29	11.095		
8,000.0	7,953.4	7,970.8	7,953.4	23.9	15.2	-92.69	-100.4	214.5	436.0	396.6	39.39	11.068		
8,100.0	8,053.4	8,070.8	8,053.4	23.9	15.2	-92.69	-100.4	214.5	436.0	396.5	39.49	11.041		
8,200.0	8,153.4	8,170.8	8,153.4	24.0	15.3	-92.69	-100.4	214.5	436.0	396.4	39.58	11.014		
8,300.0	8,253.4	8,270.8	8,253.4	24.0	15.4	-92.69	-100.4	214.5	436.0	396.3	39.68	10.987		
8,400.0	8,353.4	8,370.8	8,353.4	24.0	15.4	-92.69	-100.4	214.5	436.0	396.2	39.78	10.960		
8,500.0	8,453.4	8,470.8	8,453.4	24.1	15.5	-92.69	-100.4	214.5	436.0	396.1	39.88	10.933		
8,600.0	8,553.4	8,570.8	8,553.4	24.1	15.6	-92.69	-100.4	214.5	436.0	396.0	39.98	10.906		
8,700.0	8,653.4	8,670.8	8,653.4	24.2	15.7	-92.69	-100.4	214.5	436.0	395.9	40.08	10.879		
8,800.0	8,753.4	8,770.8	8,753.4	24.2	15.7	-92.69	-100.4	214.5	436.0	395.8	40.18	10.851		
8,900.0	8,853.4	8,870.8	8,853.4	24.2	15.8	-92.69	-100.4	214.5	436.0	395.7	40.28	10.825		
9,000.0	8,953.4	8,970.8	8,953.4	24.3	15.9	-92.69	-100.4	214.5	436.0	395.6	40.38	10.798		
9,100.0	9,053.4	9,070.8	9,053.4	24.3	15.9	-92.69	-100.4	214.5	436.0	395.5	40.48	10.771		
9,200.0	9,153.4	9,170.8	9,153.4	24.4	16.0	-92.69	-100.4	214.5	436.0	395.4	40.58	10.744		
9,300.0	9,253.4	9,270.8	9,253.4	24.4	16.1	-92.69	-100.4	214.5	436.0	395.3	40.68	10.717		
9,400.0	9,353.4	9,370.8	9,353.4	24.4	16.1	-92.69	-100.4	214.5	436.0	395.2	40.78	10.690		
9,500.0	9,453.4	9,470.8	9,453.4	24.5	16.2	-92.69	-100.4	214.5	436.0	395.1	40.89	10.663		
9,600.0	9,553.4	9,570.8	9,553.4	24.5	16.3	-92.69	-100.4	214.5	436.0	395.0	40.99	10.636		
9,700.0	9,653.4	9,670.8	9,653.4	24.6	16.4	-92.69	-100.4	214.5	436.0	394.9	41.09	10.610		
9,800.0	9,753.4	9,770.8	9,753.4	24.6	16.4	-92.69	-100.4	214.5	436.0	394.8	41.20	10.583		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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
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
9,900.0	9,853.4	9,870.8	9,853.4	24.6	16.5	-92.69	-100.4	214.5	436.0	394.7	41.30	10.556	
10,000.0	9,953.4	9,970.8	9,953.4	24.7	16.6	-92.69	-100.4	214.5	436.0	394.6	41.40	10.530	
10,100.0	10,053.4	10,070.8	10,053.4	24.7	16.6	-92.69	-100.4	214.5	436.0	394.5	41.51	10.503	
10,200.0	10,153.4	10,170.8	10,153.4	24.8	16.7	-92.69	-100.4	214.5	436.0	394.4	41.61	10.477	
10,300.0	10,253.4	10,270.8	10,253.4	24.8	16.8	-92.69	-100.4	214.5	436.0	394.3	41.72	10.450	
10,400.0	10,353.4	10,370.8	10,353.4	24.9	16.9	-92.69	-100.4	214.5	436.0	394.2	41.83	10.424	
10,500.0	10,453.4	10,470.8	10,453.4	24.9	16.9	-92.69	-100.4	214.5	436.0	394.0	41.93	10.397	
10,600.0	10,553.4	10,570.8	10,553.4	24.9	17.0	-92.69	-100.4	214.5	436.0	393.9	42.04	10.371	
10,700.0	10,653.4	10,670.8	10,653.4	25.0	17.1	-92.69	-100.4	214.5	436.0	393.8	42.14	10.345	
10,800.0	10,753.4	10,770.8	10,753.4	25.0	17.1	-92.69	-100.4	214.5	436.0	393.7	42.25	10.318	
10,900.0	10,853.4	10,870.8	10,853.4	25.1	17.2	-92.69	-100.4	214.5	436.0	393.6	42.36	10.292	
11,000.0	10,953.4	10,970.8	10,953.4	25.1	17.3	-92.69	-100.4	214.5	436.0	393.5	42.47	10.266	
11,100.0	11,053.4	11,070.8	11,053.4	25.2	17.4	-92.69	-100.4	214.5	436.0	393.4	42.58	10.240	
11,200.0	11,153.4	11,170.8	11,153.4	25.2	17.4	-92.69	-100.4	214.5	436.0	393.3	42.68	10.215	
11,300.0	11,253.4	11,266.6	11,248.9	25.2	17.5	-93.49	-106.6	214.5	436.3	393.7	42.64	10.233	
11,389.1	11,342.5	11,346.6	11,326.4	25.3	17.5	-96.02	-125.9	214.4	438.3	395.9	42.38	10.343	
11,400.0	11,353.4	11,355.9	11,335.3	25.3	17.6	86.54	-129.0	214.4	438.7	396.4	42.32	10.365	
11,425.0	11,378.4	11,377.1	11,355.0	25.3	17.6	85.54	-136.7	214.4	439.8	397.6	42.20	10.421	
11,450.0	11,403.3	11,398.1	11,374.2	25.3	17.6	84.56	-145.1	214.4	441.1	399.0	42.08	10.482	
11,475.0	11,428.0	11,418.8	11,392.7	25.3	17.6	83.60	-154.3	214.3	442.5	400.6	41.96	10.546	
11,500.0	11,452.5	11,439.2	11,410.7	25.3	17.7	82.65	-164.1	214.3	444.1	402.3	41.84	10.613	
11,525.0	11,476.6	11,459.5	11,428.1	25.3	17.7	81.73	-174.6	214.3	445.8	404.1	41.74	10.682	
11,550.0	11,500.4	11,479.6	11,444.8	25.4	17.7	80.83	-185.7	214.3	447.7	406.0	41.64	10.751	
11,575.0	11,523.8	11,500.0	11,461.3	25.4	17.7	79.94	-197.7	214.2	449.6	408.1	41.55	10.822	
11,600.0	11,546.7	11,519.3	11,476.4	25.4	17.8	79.11	-209.6	214.2	451.7	410.2	41.48	10.889	
11,625.0	11,569.0	11,538.9	11,491.3	25.4	17.8	78.30	-222.4	214.2	453.8	412.3	41.42	10.956	
11,650.0	11,590.6	11,558.4	11,505.5	25.4	17.8	77.51	-235.7	214.1	455.9	414.6	41.37	11.020	
11,675.0	11,611.7	11,577.7	11,519.1	25.5	17.8	76.76	-249.5	214.1	458.1	416.8	41.34	11.082	
11,700.0	11,631.9	11,596.9	11,532.0	25.5	17.9	76.04	-263.7	214.0	460.4	419.1	41.32	11.141	
11,725.0	11,651.4	11,616.0	11,544.3	25.5	17.9	75.36	-278.3	214.0	462.6	421.3	41.32	11.196	
11,750.0	11,670.0	11,635.0	11,555.9	25.5	17.9	74.71	-293.3	213.9	464.9	423.5	41.33	11.247	
11,775.0	11,687.8	11,653.9	11,566.9	25.6	18.0	74.10	-308.7	213.9	467.1	425.8	41.36	11.295	
11,800.0	11,704.6	11,675.0	11,578.4	25.6	18.0	73.49	-326.4	213.9	469.3	428.0	41.36	11.348	
11,825.0	11,720.4	11,691.5	11,586.8	25.6	18.0	73.00	-340.5	213.8	471.5	430.1	41.44	11.378	
11,850.0	11,735.1	11,710.1	11,595.8	25.6	18.0	72.50	-356.9	213.8	473.6	432.1	41.50	11.414	
11,875.0	11,748.8	11,728.7	11,604.0	25.7	18.1	72.05	-373.6	213.7	475.7	434.2	41.56	11.446	
11,900.0	11,761.4	11,750.0	11,612.7	25.7	18.1	71.61	-393.0	213.7	477.7	436.1	41.59	11.486	
11,925.0	11,772.8	11,765.8	11,618.6	25.7	18.1	71.26	-407.7	213.6	479.7	437.9	41.71	11.499	
11,950.0	11,783.0	11,784.3	11,624.8	25.8	18.1	70.93	-425.1	213.6	481.5	439.7	41.80	11.520	
11,975.0	11,792.1	11,800.0	11,629.6	25.8	18.2	70.65	-440.0	213.5	483.3	441.4	41.92	11.528	
12,000.0	11,799.9	11,821.1	11,635.3	25.8	18.2	70.39	-460.4	213.5	484.9	443.0	41.97	11.554	
12,025.0	11,806.4	11,839.5	11,639.5	25.9	18.2	70.18	-478.3	213.4	486.5	444.4	42.06	11.566	
12,050.0	11,811.7	11,857.9	11,642.9	25.9	18.2	70.01	-496.3	213.4	487.9	445.8	42.16	11.575	
12,075.0	11,815.7	11,875.0	11,645.6	25.9	18.3	69.88	-513.2	213.3	489.3	447.0	42.26	11.577	
12,100.0	11,818.4	11,894.6	11,647.8	25.9	18.3	69.80	-532.7	213.3	490.5	448.2	42.34	11.585	
12,125.0	11,819.8	11,913.0	11,649.2	26.0	18.3	69.75	-551.1	213.2	491.6	449.2	42.43	11.587	
12,139.1	11,820.0	11,925.0	11,649.7	26.0	18.3	69.75	-563.0	213.2	492.2	449.8	42.47	11.591	
12,200.0	11,820.0	11,978.3	11,650.0	26.1	18.4	69.89	-616.4	213.0	494.6	452.0	42.61	11.608	
12,300.0	11,820.0	12,078.3	11,650.0	26.3	18.6	69.96	-716.3	212.7	496.2	453.4	42.82	11.588	
12,306.1	11,820.0	12,084.4	11,650.0	26.3	18.6	69.96	-722.5	212.7	496.2	453.3	42.83	11.584	
12,400.0	11,820.0	12,178.3	11,650.0	26.5	18.8	69.95	-816.4	212.4	495.9	452.8	43.07	11.513	

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		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	
12,500.0	11,820.0	12,278.3	11,650.0	26.8	19.1	69.94	-916.4	212.2	495.6	452.2	43.41	11.418		
12,600.0	11,820.0	12,378.3	11,650.0	27.0	19.4	69.93	-1,016.3	211.9	495.3	451.5	43.82	11.305		
12,700.0	11,820.0	12,478.3	11,650.0	27.4	19.8	69.92	-1,116.3	211.6	495.0	450.7	44.30	11.175		
12,800.0	11,820.0	12,578.3	11,650.0	27.7	20.3	69.90	-1,216.3	211.3	494.7	449.9	44.86	11.030		
12,900.0	11,820.0	12,678.3	11,650.0	28.1	20.7	69.89	-1,316.3	211.0	494.5	449.0	45.48	10.871		
13,000.0	11,820.0	12,778.3	11,650.0	28.5	21.3	69.88	-1,416.3	210.7	494.2	448.0	46.17	10.702		
13,100.0	11,820.0	12,878.3	11,650.0	28.9	21.8	69.87	-1,516.3	210.4	493.9	446.9	46.93	10.524		
13,200.0	11,820.0	12,978.3	11,650.0	29.4	22.4	69.85	-1,616.3	210.2	493.6	445.8	47.75	10.338		
13,300.0	11,820.0	13,078.3	11,650.0	29.9	23.0	69.84	-1,716.3	209.9	493.3	444.7	48.62	10.146		
13,400.0	11,820.0	13,178.3	11,650.0	30.4	23.7	69.83	-1,816.3	209.6	493.0	443.5	49.55	9.951		
13,500.0	11,820.0	13,278.3	11,650.0	30.9	24.3	69.82	-1,916.3	209.3	492.7	442.2	50.52	9.752		
13,600.0	11,820.0	13,378.3	11,650.0	31.5	25.0	69.80	-2,016.3	209.0	492.4	440.9	51.55	9.552		
13,700.0	11,820.0	13,478.3	11,650.0	32.0	25.7	69.79	-2,116.3	208.7	492.1	439.5	52.62	9.352		
13,800.0	11,820.0	13,578.3	11,650.0	32.6	26.5	69.78	-2,216.3	208.4	491.9	438.1	53.74	9.153		
13,900.0	11,820.0	13,678.3	11,650.0	33.3	27.2	69.77	-2,316.3	208.1	491.6	436.7	54.89	8.955		
14,000.0	11,820.0	13,778.3	11,650.0	33.9	28.0	69.75	-2,416.3	207.9	491.3	435.2	56.09	8.759		
14,100.0	11,820.0	13,878.3	11,650.0	34.5	28.7	69.74	-2,516.3	207.6	491.0	433.7	57.31	8.567		
14,200.0	11,820.0	13,978.3	11,650.0	35.2	29.5	69.73	-2,616.3	207.3	490.7	432.1	58.57	8.377		
14,300.0	11,820.0	14,078.3	11,650.0	35.9	30.3	69.72	-2,716.3	207.0	490.4	430.5	59.87	8.192		
14,400.0	11,820.0	14,178.3	11,650.0	36.5	31.1	69.70	-2,816.3	206.7	490.1	428.9	61.19	8.010		
14,500.0	11,820.0	14,278.3	11,650.0	37.2	31.9	69.69	-2,916.3	206.4	489.8	427.3	62.53	7.833		
14,600.0	11,820.0	14,378.3	11,650.0	38.0	32.7	69.68	-3,016.3	206.1	489.5	425.6	63.90	7.660		
14,700.0	11,820.0	14,478.3	11,650.0	38.7	33.6	69.67	-3,116.3	205.9	489.2	423.9	65.30	7.492		
14,800.0	11,820.0	14,578.3	11,650.0	39.4	34.4	69.65	-3,216.3	205.6	489.0	422.2	66.72	7.329		
14,900.0	11,820.0	14,678.3	11,650.0	40.2	35.2	69.64	-3,316.3	205.3	488.7	420.5	68.16	7.170		
15,000.0	11,820.0	14,778.3	11,650.0	40.9	36.1	69.63	-3,416.3	205.0	488.4	418.8	69.62	7.015		
15,100.0	11,820.0	14,878.3	11,650.0	41.7	36.9	69.62	-3,516.3	204.7	488.1	417.0	71.09	6.866		
15,200.0	11,820.0	14,978.3	11,650.0	42.4	37.8	69.60	-3,616.3	204.4	487.8	415.2	72.59	6.720		
15,300.0	11,820.0	15,078.3	11,650.0	43.2	38.6	69.59	-3,716.3	204.1	487.5	413.4	74.09	6.580		
15,400.0	11,820.0	15,178.3	11,650.0	44.0	39.5	69.58	-3,816.3	203.8	487.2	411.6	75.62	6.443		
15,500.0	11,820.0	15,278.3	11,650.0	44.8	40.4	69.57	-3,916.3	203.6	486.9	409.8	77.16	6.311		
15,600.0	11,820.0	15,378.3	11,650.0	45.6	41.3	69.55	-4,016.3	203.3	486.6	407.9	78.71	6.183		
15,700.0	11,820.0	15,478.3	11,650.0	46.4	42.1	69.54	-4,116.3	203.0	486.4	406.1	80.27	6.059		
15,800.0	11,820.0	15,578.3	11,650.0	47.2	43.0	69.53	-4,216.3	202.7	486.1	404.2	81.85	5.938		
15,900.0	11,820.0	15,678.3	11,650.0	48.0	43.9	69.52	-4,316.3	202.4	485.8	402.3	83.44	5.822		
16,000.0	11,820.0	15,778.3	11,650.0	48.8	44.8	69.50	-4,416.3	202.1	485.5	400.4	85.04	5.709		
16,100.0	11,820.0	15,878.3	11,650.0	49.6	45.7	69.49	-4,516.3	201.8	485.2	398.6	86.64	5.600		
16,200.0	11,820.0	15,978.3	11,650.0	50.5	46.6	69.48	-4,616.3	201.5	484.9	396.6	88.26	5.494		
16,300.0	11,820.0	16,078.3	11,650.0	51.3	47.5	69.46	-4,716.3	201.3	484.6	394.7	89.89	5.391		
16,400.0	11,820.0	16,178.3	11,650.0	52.1	48.4	69.45	-4,816.3	201.0	484.3	392.8	91.52	5.292		
16,500.0	11,820.0	16,278.3	11,650.0	53.0	49.3	69.44	-4,916.3	200.7	484.0	390.9	93.16	5.196		
16,600.0	11,820.0	16,378.3	11,650.0	53.8	50.2	69.43	-5,016.3	200.4	483.8	388.9	94.81	5.102		
16,700.0	11,820.0	16,478.3	11,650.0	54.7	51.1	69.41	-5,116.3	200.1	483.5	387.0	96.47	5.012		
16,800.0	11,820.0	16,578.3	11,650.0	55.5	52.0	69.40	-5,216.3	199.8	483.2	385.0	98.13	4.924		
16,900.0	11,820.0	16,678.3	11,650.0	56.4	52.9	69.39	-5,316.3	199.5	482.9	383.1	99.80	4.838		
17,000.0	11,820.0	16,778.3	11,650.0	57.2	53.8	69.37	-5,416.3	199.3	482.6	381.1	101.48	4.756		
17,100.0	11,820.0	16,878.3	11,650.0	58.1	54.7	69.36	-5,516.3	199.0	482.3	379.1	103.16	4.675		
17,200.0	11,820.0	16,978.3	11,650.0	59.0	55.6	69.35	-5,616.3	198.7	482.0	377.2	104.85	4.597		
17,300.0	11,820.0	17,078.3	11,650.0	59.8	56.5	69.34	-5,716.3	198.4	481.7	375.2	106.54	4.522		
17,400.0	11,820.0	17,178.3	11,650.0	60.7	57.5	69.32	-5,816.3	198.1	481.4	373.2	108.24	4.448		
17,500.0	11,820.0	17,278.3	11,650.0	61.6	58.4	69.31	-5,916.3	197.8	481.2	371.2	109.94	4.376		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		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		
17,600.0	11,820.0	17,378.3	11,650.0	62.5	59.3	69.30	-6,016.3	197.5	480.9	369.2	111.65	4.307		
17,700.0	11,820.0	17,478.3	11,650.0	63.3	60.2	69.28	-6,116.3	197.2	480.6	367.2	113.36	4.239		
17,800.0	11,820.0	17,578.3	11,650.0	64.2	61.1	69.27	-6,216.3	197.0	480.3	365.2	115.07	4.174		
17,900.0	11,820.0	17,678.3	11,650.0	65.1	62.1	69.26	-6,316.3	196.7	480.0	363.2	116.79	4.110		
18,000.0	11,820.0	17,778.3	11,650.0	66.0	63.0	69.24	-6,416.3	196.4	479.7	361.2	118.52	4.048		
18,100.0	11,820.0	17,878.3	11,650.0	66.9	63.9	69.23	-6,516.3	196.1	479.4	359.2	120.24	3.987		
18,200.0	11,820.0	17,978.3	11,650.0	67.8	64.8	69.22	-6,616.3	195.8	479.1	357.2	121.97	3.928		
18,300.0	11,820.0	18,078.3	11,650.0	68.7	65.8	69.21	-6,716.3	195.5	478.8	355.1	123.70	3.871		
18,400.0	11,820.0	18,178.3	11,650.0	69.5	66.7	69.19	-6,816.3	195.2	478.6	353.1	125.44	3.815		
18,500.0	11,820.0	18,278.3	11,650.0	70.4	67.6	69.18	-6,916.3	194.9	478.3	351.1	127.18	3.761		
18,600.0	11,820.0	18,378.3	11,650.0	71.3	68.5	69.17	-7,016.3	194.7	478.0	349.1	128.92	3.708		
18,700.0	11,820.0	18,478.3	11,650.0	72.2	69.5	69.15	-7,116.3	194.4	477.7	347.0	130.67	3.656		
18,800.0	11,820.0	18,578.3	11,650.0	73.1	70.4	69.14	-7,216.3	194.1	477.4	345.0	132.41	3.605		
18,900.0	11,820.0	18,678.3	11,650.0	74.0	71.3	69.13	-7,316.3	193.8	477.1	343.0	134.16	3.556		
19,000.0	11,820.0	18,778.3	11,650.0	74.9	72.3	69.11	-7,416.3	193.5	476.8	340.9	135.91	3.508		
19,100.0	11,820.0	18,878.3	11,650.0	75.8	73.2	69.10	-7,516.3	193.2	476.5	338.9	137.67	3.461		
19,200.0	11,820.0	18,978.3	11,650.0	76.7	74.1	69.09	-7,616.3	192.9	476.3	336.8	139.42	3.416		
19,300.0	11,820.0	19,078.2	11,650.0	77.4	75.1	69.07	-7,716.3	192.7	476.0	335.1	140.91	3.378		
19,304.3	11,820.0	19,082.5	11,650.0	77.4	75.1	69.07	-7,720.5	192.6	475.9	335.0	140.97	3.376		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1				Rule Assigned:									Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		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		
2,700.0	2,684.3	2,761.5	2,746.4	10.0	10.4	-0.36	-141.5	1,200.0	989.3	970.8	18.49	53.506		
2,800.0	2,783.2	2,858.4	2,842.4	10.4	10.8	-1.12	-128.5	1,195.4	968.4	949.3	19.04	50.860		
2,900.0	2,882.1	2,955.4	2,938.3	10.8	11.1	-1.90	-115.5	1,190.9	947.6	928.0	19.59	48.368		
3,000.0	2,981.0	3,052.3	3,034.3	11.2	11.5	-2.72	-102.6	1,186.3	927.0	906.8	20.14	46.021		
3,100.0	3,079.8	3,149.3	3,130.3	11.6	11.9	-3.58	-89.6	1,181.8	906.6	885.9	20.69	43.810		
3,200.0	3,178.7	3,246.2	3,226.3	12.0	12.3	-4.48	-76.6	1,177.2	886.4	865.1	21.24	41.728		
3,300.0	3,277.6	3,343.2	3,322.2	12.4	12.7	-5.41	-63.6	1,172.6	866.4	844.6	21.79	39.761		
3,400.0	3,376.5	3,438.6	3,416.7	12.8	13.0	-6.37	-50.9	1,168.2	846.6	824.3	22.33	37.907		
3,500.0	3,475.4	3,531.2	3,508.5	13.2	13.4	-7.27	-39.7	1,164.2	827.6	804.7	22.87	36.181		
3,600.0	3,574.3	3,624.4	3,601.1	13.6	13.8	-8.11	-29.8	1,160.7	809.2	785.8	23.41	34.562		
3,700.0	3,673.2	3,718.1	3,694.4	14.0	14.1	-8.88	-21.2	1,157.7	791.6	767.6	23.95	33.046		
3,800.0	3,772.1	3,812.4	3,788.3	14.4	14.4	-9.58	-14.1	1,155.2	774.6	750.1	24.49	31.623		
3,900.0	3,871.0	3,907.0	3,882.8	14.8	14.8	-10.20	-8.4	1,153.2	758.1	733.1	25.03	30.284		
4,000.0	3,969.8	4,002.0	3,977.7	15.2	15.1	-10.73	-4.2	1,151.8	742.2	716.6	25.57	29.021		
4,100.0	4,068.7	4,097.4	4,073.0	15.6	15.4	-11.17	-1.5	1,150.8	726.8	700.7	26.12	27.827		
4,200.0	4,167.6	4,193.0	4,168.6	16.1	15.6	-11.49	-0.2	1,150.4	711.9	685.2	26.66	26.697		
4,300.0	4,266.5	4,290.9	4,266.5	16.5	15.7	-11.74	-0.1	1,150.3	697.3	670.1	27.18	25.651		
4,400.0	4,365.4	4,389.8	4,365.4	16.9	15.7	-11.99	-0.1	1,150.3	682.7	655.0	27.72	24.631		
4,500.0	4,464.3	4,488.7	4,464.3	17.3	15.8	-12.26	-0.1	1,150.3	668.2	639.9	28.26	23.648		
4,600.0	4,563.2	4,587.6	4,563.2	17.7	15.9	-12.54	-0.1	1,150.3	653.7	624.9	28.79	22.702		
4,700.0	4,662.1	4,686.5	4,662.1	18.2	15.9	-12.82	-0.1	1,150.3	639.2	609.8	29.33	21.790		
4,800.0	4,761.0	4,785.4	4,761.0	18.6	16.0	-13.13	-0.1	1,150.3	624.7	594.8	29.87	20.913		
4,900.0	4,859.9	4,884.2	4,859.9	19.0	16.1	-13.44	-0.1	1,150.3	610.2	579.8	30.41	20.067		
5,000.0	4,958.7	4,983.1	4,958.7	19.4	16.1	-13.78	-0.1	1,150.3	595.7	564.8	30.95	19.252		
5,100.0	5,057.6	5,082.0	5,057.6	19.8	16.2	-14.12	-0.1	1,150.3	581.3	549.8	31.48	18.465		
5,191.9	5,148.5	5,172.9	5,148.5	20.2	16.2	-14.46	-0.1	1,150.3	568.1	536.1	31.97	17.770		
5,200.0	5,156.5	5,180.9	5,156.5	20.3	16.2	-14.49	-0.1	1,150.3	566.9	534.9	32.01	17.711		
5,300.0	5,255.6	5,279.9	5,255.6	20.7	16.3	-14.81	-0.1	1,150.3	553.5	520.9	32.57	16.993		
5,400.0	5,354.8	5,379.2	5,354.8	21.1	16.4	-15.11	-0.1	1,150.3	541.8	508.7	33.09	16.374		
5,500.0	5,454.3	5,478.7	5,454.3	21.5	16.4	-15.37	-0.1	1,150.3	531.7	498.1	33.59	15.830		
5,600.0	5,553.9	5,578.3	5,553.9	21.9	16.5	-15.60	-0.1	1,150.3	523.4	489.3	34.08	15.359		
5,700.0	5,653.7	5,678.0	5,653.7	22.3	16.6	-15.79	-0.1	1,150.3	516.7	482.2	34.55	14.957		
5,800.0	5,753.5	5,777.9	5,753.5	22.6	16.6	-15.93	-0.1	1,150.3	511.8	476.8	35.00	14.623		
5,900.0	5,853.5	5,877.9	5,853.5	22.9	16.7	-16.03	-0.1	1,150.3	508.5	473.0	35.42	14.357		
6,000.0	5,953.4	5,977.8	5,953.4	23.2	16.8	-16.08	-0.1	1,150.3	506.8	471.1	35.78	14.165		
6,046.6	6,000.0	6,024.4	6,000.0	23.2	16.8	80.93	-0.1	1,150.3	506.7	470.8	35.87	14.124		
6,100.0	6,053.4	6,077.8	6,053.4	23.2	16.8	80.93	-0.1	1,150.3	506.7	470.7	35.91	14.107		
6,200.0	6,153.4	6,177.8	6,153.4	23.3	16.9	80.93	-0.1	1,150.3	506.7	470.6	36.02	14.067		
6,300.0	6,253.4	6,277.8	6,253.4	23.3	17.0	80.93	-0.1	1,150.3	506.7	470.5	36.12	14.028		
6,400.0	6,353.4	6,377.8	6,353.4	23.3	17.0	80.93	-0.1	1,150.3	506.7	470.4	36.22	13.988		
6,500.0	6,453.4	6,477.8	6,453.4	23.4	17.1	80.93	-0.1	1,150.3	506.7	470.3	36.33	13.948		
6,600.0	6,553.4	6,577.8	6,553.4	23.4	17.2	80.93	-0.1	1,150.3	506.7	470.2	36.43	13.908		
6,700.0	6,653.4	6,677.8	6,653.4	23.4	17.2	80.93	-0.1	1,150.3	506.7	470.1	36.53	13.869		
6,800.0	6,753.4	6,777.8	6,753.4	23.5	17.3	80.93	-0.1	1,150.3	506.7	470.0	36.64	13.829		
6,900.0	6,853.4	6,877.8	6,853.4	23.5	17.4	80.93	-0.1	1,150.3	506.7	469.9	36.74	13.789		
7,000.0	6,953.4	6,977.8	6,953.4	23.5	17.4	80.93	-0.1	1,150.3	506.7	469.8	36.85	13.750		
7,100.0	7,053.4	7,077.8	7,053.4	23.6	17.5	80.93	-0.1	1,150.3	506.7	469.7	36.95	13.711		
7,200.0	7,153.4	7,177.8	7,153.4	23.6	17.6	80.93	-0.1	1,150.3	506.7	469.6	37.06	13.671		
7,300.0	7,253.4	7,277.8	7,253.4	23.6	17.6	80.93	-0.1	1,150.3	506.7	469.5	37.17	13.632		
7,400.0	7,353.4	7,377.8	7,353.4	23.7	17.7	80.93	-0.1	1,150.3	506.7	469.4	37.27	13.593		
7,500.0	7,453.4	7,477.8	7,453.4	23.7	17.8	80.93	-0.1	1,150.3	506.7	469.3	37.38	13.554		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 MWD+IFR1 Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,600.0	7,553.4	7,577.8	7,553.4	23.7	17.8	80.93	-0.1	1,150.3	506.7	469.2	37.49	13.515		
7,700.0	7,653.4	7,677.8	7,653.4	23.8	17.9	80.93	-0.1	1,150.3	506.7	469.1	37.60	13.476		
7,800.0	7,753.4	7,777.8	7,753.4	23.8	18.0	80.93	-0.1	1,150.3	506.7	469.0	37.71	13.437		
7,900.0	7,853.4	7,877.8	7,853.4	23.9	18.1	80.93	-0.1	1,150.3	506.7	468.8	37.81	13.398		
8,000.0	7,953.4	7,977.8	7,953.4	23.9	18.1	80.93	-0.1	1,150.3	506.7	468.7	37.92	13.360		
8,100.0	8,053.4	8,077.8	8,053.4	23.9	18.2	80.93	-0.1	1,150.3	506.7	468.6	38.03	13.321		
8,200.0	8,153.4	8,177.8	8,153.4	24.0	18.3	80.93	-0.1	1,150.3	506.7	468.5	38.14	13.283		
8,300.0	8,253.4	8,277.8	8,253.4	24.0	18.3	80.93	-0.1	1,150.3	506.7	468.4	38.25	13.245		
8,400.0	8,353.4	8,377.8	8,353.4	24.0	18.4	80.93	-0.1	1,150.3	506.7	468.3	38.37	13.206		
8,500.0	8,453.4	8,477.8	8,453.4	24.1	18.5	80.93	-0.1	1,150.3	506.7	468.2	38.48	13.168		
8,600.0	8,553.4	8,577.8	8,553.4	24.1	18.5	80.93	-0.1	1,150.3	506.7	468.1	38.59	13.130		
8,700.0	8,653.4	8,677.8	8,653.4	24.2	18.6	80.93	-0.1	1,150.3	506.7	468.0	38.70	13.092		
8,800.0	8,753.4	8,777.8	8,753.4	24.2	18.7	80.93	-0.1	1,150.3	506.7	467.8	38.81	13.054		
8,900.0	8,853.4	8,877.8	8,853.4	24.2	18.7	80.93	-0.1	1,150.3	506.7	467.7	38.92	13.017		
9,000.0	8,953.4	8,977.8	8,953.4	24.3	18.8	80.93	-0.1	1,150.3	506.7	467.6	39.04	12.979		
9,100.0	9,053.4	9,077.8	9,053.4	24.3	18.9	80.93	-0.1	1,150.3	506.7	467.5	39.15	12.941		
9,200.0	9,153.4	9,177.8	9,153.4	24.4	19.0	80.93	-0.1	1,150.3	506.7	467.4	39.26	12.904		
9,300.0	9,253.4	9,277.8	9,253.4	24.4	19.0	80.93	-0.1	1,150.3	506.7	467.3	39.38	12.867		
9,400.0	9,353.4	9,377.8	9,353.4	24.4	19.1	80.93	-0.1	1,150.3	506.7	467.2	39.49	12.829		
9,500.0	9,453.4	9,477.8	9,453.4	24.5	19.2	80.93	-0.1	1,150.3	506.7	467.1	39.61	12.792		
9,600.0	9,553.4	9,577.8	9,553.4	24.5	19.2	80.93	-0.1	1,150.3	506.7	466.9	39.72	12.755		
9,700.0	9,653.4	9,677.8	9,653.4	24.6	19.3	80.93	-0.1	1,150.3	506.7	466.8	39.84	12.718		
9,800.0	9,753.4	9,777.8	9,753.4	24.6	19.4	80.93	-0.1	1,150.3	506.7	466.7	39.95	12.682		
9,900.0	9,853.4	9,877.8	9,853.4	24.6	19.4	80.93	-0.1	1,150.3	506.7	466.6	40.07	12.645		
10,000.0	9,953.4	9,977.8	9,953.4	24.7	19.5	80.93	-0.1	1,150.3	506.7	466.5	40.18	12.608		
10,100.0	10,053.4	10,077.8	10,053.4	24.7	19.6	80.93	-0.1	1,150.3	506.7	466.4	40.30	12.572		
10,200.0	10,153.4	10,177.8	10,153.4	24.8	19.7	80.93	-0.1	1,150.3	506.7	466.2	40.42	12.536		
10,300.0	10,253.4	10,277.8	10,253.4	24.8	19.7	80.93	-0.1	1,150.3	506.7	466.1	40.53	12.499		
10,400.0	10,353.4	10,377.8	10,353.4	24.9	19.8	80.93	-0.1	1,150.3	506.7	466.0	40.65	12.463		
10,500.0	10,453.4	10,477.8	10,453.4	24.9	19.9	80.93	-0.1	1,150.3	506.7	465.9	40.77	12.427		
10,600.0	10,553.4	10,577.8	10,553.4	24.9	19.9	80.93	-0.1	1,150.3	506.7	465.8	40.89	12.391		
10,700.0	10,653.4	10,677.8	10,653.4	25.0	20.0	80.93	-0.1	1,150.3	506.7	465.7	41.01	12.356		
10,800.0	10,753.4	10,777.8	10,753.4	25.0	20.1	80.93	-0.1	1,150.3	506.7	465.5	41.12	12.320		
10,900.0	10,853.4	10,877.8	10,853.4	25.1	20.2	80.93	-0.1	1,150.3	506.7	465.4	41.24	12.285		
11,000.0	10,953.4	10,977.8	10,953.4	25.1	20.2	80.93	-0.1	1,150.3	506.7	465.3	41.36	12.249		
11,100.0	11,053.4	11,077.8	11,053.4	25.2	20.3	80.93	-0.1	1,150.3	506.7	465.2	41.48	12.214		
11,200.0	11,153.4	11,177.8	11,153.4	25.2	20.4	80.93	-0.1	1,150.3	506.7	465.1	41.60	12.179		
11,300.0	11,253.4	11,293.8	11,268.8	25.2	20.2	82.03	-9.9	1,150.2	505.4	463.7	41.70	12.119		
11,389.1	11,342.5	11,391.7	11,362.0	25.3	19.9	85.35	-39.3	1,150.0	502.0	460.0	42.00	11.952		
11,400.0	11,353.4	11,402.8	11,372.1	25.3	19.9	-91.20	-43.9	1,149.9	501.6	459.6	42.05	11.930		
11,425.0	11,378.4	11,427.9	11,394.6	25.3	19.8	-90.16	-54.9	1,149.9	500.7	458.6	42.14	11.884		
11,450.0	11,403.3	11,452.3	11,415.9	25.3	19.7	-89.14	-66.9	1,149.7	500.0	457.8	42.23	11.841		
11,475.0	11,428.0	11,476.3	11,436.2	25.3	19.7	-88.13	-79.6	1,149.6	499.4	457.1	42.31	11.802		
11,500.0	11,452.5	11,499.8	11,455.5	25.3	19.6	-87.14	-93.0	1,149.5	498.9	456.5	42.40	11.767		
11,525.0	11,476.6	11,522.8	11,473.7	25.3	19.5	-86.15	-107.1	1,149.4	498.5	456.0	42.48	11.734		
11,550.0	11,500.4	11,545.4	11,490.9	25.4	19.5	-85.18	-121.8	1,149.3	498.2	455.6	42.56	11.705		
11,575.0	11,523.8	11,567.7	11,507.1	25.4	19.4	-84.23	-137.0	1,149.1	498.0	455.4	42.65	11.677		
11,600.0	11,546.7	11,589.5	11,522.3	25.4	19.4	-83.29	-152.7	1,149.0	497.9	455.2	42.73	11.652		
11,608.7	11,554.5	11,597.1	11,527.5	25.4	19.4	-82.97	-158.3	1,149.0	497.9	455.2	42.76	11.644		
11,625.0	11,569.0	11,611.0	11,536.6	25.4	19.3	-82.37	-168.8	1,148.9	497.9	455.1	42.82	11.629		
11,650.0	11,590.6	11,632.3	11,550.0	25.4	19.3	-81.48	-185.2	1,148.7	498.0	455.1	42.91	11.606		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
11,675.0	11,611.7	11,653.2	11,562.4	25.5	19.3	-80.60	-202.1	1,148.6	498.2	455.2	43.01	11.585		
11,700.0	11,631.9	11,675.0	11,574.6	25.5	19.2	-79.70	-220.2	1,148.4	498.4	455.3	43.11	11.563		
11,725.0	11,651.4	11,694.2	11,584.7	25.5	19.2	-78.92	-236.6	1,148.3	498.7	455.5	43.21	11.542		
11,750.0	11,670.0	11,714.4	11,594.5	25.5	19.2	-78.12	-254.2	1,148.1	499.1	455.7	43.32	11.521		
11,775.0	11,687.8	11,734.3	11,603.4	25.6	19.1	-77.34	-272.0	1,148.0	499.4	456.0	43.43	11.499		
11,800.0	11,704.6	11,754.1	11,611.6	25.6	19.1	-76.60	-290.0	1,147.8	499.8	456.3	43.55	11.477		
11,825.0	11,720.4	11,775.0	11,619.4	25.6	19.1	-75.83	-309.4	1,147.6	500.2	456.5	43.68	11.453		
11,850.0	11,735.1	11,793.0	11,625.4	25.6	19.1	-75.19	-326.3	1,147.5	500.6	456.8	43.80	11.429		
11,875.0	11,748.8	11,812.2	11,631.1	25.7	19.1	-74.53	-344.7	1,147.3	501.0	457.1	43.93	11.404		
11,900.0	11,761.4	11,831.3	11,636.0	25.7	19.0	-73.91	-363.1	1,147.2	501.4	457.3	44.07	11.378		
11,925.0	11,772.8	11,850.0	11,640.2	25.7	19.0	-73.32	-381.4	1,147.0	501.7	457.5	44.20	11.351		
11,950.0	11,783.0	11,869.0	11,643.6	25.8	19.0	-72.76	-400.0	1,146.9	502.0	457.7	44.34	11.322		
11,975.0	11,792.1	11,887.7	11,646.3	25.8	19.0	-72.24	-418.5	1,146.7	502.3	457.8	44.48	11.292		
12,000.0	11,799.9	11,906.3	11,648.2	25.8	19.0	-71.75	-437.0	1,146.5	502.4	457.8	44.61	11.262		
12,025.0	11,806.4	11,925.0	11,649.5	25.9	19.0	-71.30	-455.7	1,146.4	502.6	457.8	44.75	11.230		
12,050.0	11,811.7	11,943.1	11,649.9	25.9	19.0	-70.89	-473.8	1,146.2	502.6	457.7	44.88	11.199		
12,075.0	11,815.7	11,966.5	11,650.0	25.9	19.0	-70.45	-497.2	1,146.0	502.5	457.4	45.05	11.154		
12,100.0	11,818.4	11,991.3	11,650.0	25.9	19.1	-70.17	-522.0	1,145.8	502.0	456.7	45.21	11.102		
12,125.0	11,819.8	12,016.2	11,650.0	26.0	19.1	-70.07	-546.9	1,145.6	501.0	455.6	45.37	11.042		
12,139.1	11,820.0	12,030.2	11,650.0	26.0	19.1	-70.10	-560.9	1,145.5	500.3	454.8	45.45	11.006		
12,200.0	11,820.0	12,091.1	11,650.0	26.1	19.1	-70.00	-621.8	1,144.9	497.4	451.6	45.80	10.859		
12,300.0	11,820.0	12,191.0	11,650.0	26.3	19.2	-69.92	-721.7	1,144.1	495.3	448.8	46.45	10.662		
12,306.1	11,820.0	12,197.2	11,650.0	26.3	19.2	-69.92	-727.8	1,144.0	495.2	448.8	46.49	10.652		
12,400.0	11,820.0	12,291.0	11,650.0	26.5	19.3	-69.91	-821.7	1,143.2	495.0	447.9	47.13	10.503		
12,500.0	11,820.0	12,391.0	11,650.0	26.8	19.4	-69.90	-921.7	1,142.3	494.7	446.9	47.87	10.335		
12,600.0	11,820.0	12,491.0	11,650.0	27.0	19.5	-69.89	-1,021.7	1,141.4	494.5	445.8	48.67	10.159		
12,700.0	11,820.0	12,591.0	11,650.0	27.4	19.8	-69.88	-1,121.7	1,140.6	494.2	444.7	49.53	9.978		
12,800.0	11,820.0	12,691.0	11,650.0	27.7	20.0	-69.87	-1,221.7	1,139.7	494.0	443.5	50.44	9.792		
12,900.0	11,820.0	12,791.0	11,650.0	28.1	20.4	-69.86	-1,321.7	1,138.8	493.7	442.3	51.41	9.604		
13,000.0	11,820.0	12,891.0	11,650.0	28.5	20.8	-69.85	-1,421.7	1,138.0	493.5	441.0	52.42	9.413		
13,100.0	11,820.0	12,991.0	11,650.0	28.9	21.3	-69.84	-1,521.7	1,137.1	493.2	439.7	53.48	9.222		
13,200.0	11,820.0	13,091.0	11,650.0	29.4	21.9	-69.83	-1,621.7	1,136.2	492.9	438.4	54.58	9.032		
13,300.0	11,820.0	13,191.0	11,650.0	29.9	22.4	-69.82	-1,721.7	1,135.4	492.7	437.0	55.72	8.842		
13,400.0	11,820.0	13,291.0	11,650.0	30.4	23.1	-69.80	-1,821.7	1,134.5	492.4	435.5	56.90	8.654		
13,500.0	11,820.0	13,391.0	11,650.0	30.9	23.7	-69.79	-1,921.7	1,133.6	492.2	434.1	58.12	8.469		
13,600.0	11,820.0	13,491.0	11,650.0	31.5	24.4	-69.78	-2,021.7	1,132.7	491.9	432.5	59.36	8.286		
13,700.0	11,820.0	13,591.0	11,650.0	32.0	25.1	-69.77	-2,121.7	1,131.9	491.7	431.0	60.64	8.107		
13,800.0	11,820.0	13,691.0	11,650.0	32.6	25.8	-69.76	-2,221.7	1,131.0	491.4	429.4	61.95	7.932		
13,900.0	11,820.0	13,791.0	11,650.0	33.3	26.5	-69.75	-2,321.7	1,130.1	491.1	427.8	63.29	7.760		
14,000.0	11,820.0	13,891.0	11,650.0	33.9	27.3	-69.74	-2,421.7	1,129.3	490.9	426.2	64.65	7.593		
14,100.0	11,820.0	13,991.0	11,650.0	34.5	28.1	-69.73	-2,521.7	1,128.4	490.6	424.6	66.04	7.429		
14,200.0	11,820.0	14,091.0	11,650.0	35.2	28.8	-69.72	-2,621.7	1,127.5	490.4	422.9	67.45	7.270		
14,300.0	11,820.0	14,191.0	11,650.0	35.9	29.6	-69.70	-2,721.7	1,126.7	490.1	421.2	68.88	7.116		
14,400.0	11,820.0	14,291.0	11,650.0	36.5	30.4	-69.69	-2,821.6	1,125.8	489.9	419.5	70.33	6.965		
14,500.0	11,820.0	14,391.0	11,650.0	37.2	31.2	-69.68	-2,921.6	1,124.9	489.6	417.8	71.80	6.819		
14,600.0	11,820.0	14,491.0	11,650.0	38.0	32.1	-69.67	-3,021.6	1,124.0	489.3	416.1	73.28	6.677		
14,700.0	11,820.0	14,591.0	11,650.0	38.7	32.9	-69.66	-3,121.6	1,123.2	489.1	414.3	74.79	6.540		
14,800.0	11,820.0	14,691.0	11,650.0	39.4	33.7	-69.65	-3,221.6	1,122.3	488.8	412.5	76.30	6.406		
14,900.0	11,820.0	14,791.0	11,650.0	40.2	34.6	-69.64	-3,321.6	1,121.4	488.6	410.7	77.84	6.277		
15,000.0	11,820.0	14,891.0	11,650.0	40.9	35.4	-69.63	-3,421.6	1,120.6	488.3	408.9	79.38	6.151		
15,100.0	11,820.0	14,991.0	11,650.0	41.7	36.2	-69.62	-3,521.6	1,119.7	488.1	407.1	80.94	6.029		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
15,200.0	11,820.0	15,091.0	11,650.0	42.4	37.1	-69.60	-3,621.6	1,118.8	487.8	405.3	82.52	5.911			
15,300.0	11,820.0	15,191.0	11,650.0	43.2	38.0	-69.59	-3,721.6	1,118.0	487.5	403.4	84.10	5.797			
15,400.0	11,820.0	15,291.0	11,650.0	44.0	38.8	-69.58	-3,821.6	1,117.1	487.3	401.6	85.69	5.686			
15,500.0	11,820.0	15,391.0	11,650.0	44.8	39.7	-69.57	-3,921.6	1,116.2	487.0	399.7	87.30	5.579			
15,600.0	11,820.0	15,491.0	11,650.0	45.6	40.6	-69.56	-4,021.6	1,115.3	486.8	397.9	88.91	5.475			
15,700.0	11,820.0	15,591.0	11,650.0	46.4	41.5	-69.55	-4,121.6	1,114.5	486.5	396.0	90.54	5.374			
15,800.0	11,820.0	15,691.0	11,650.0	47.2	42.3	-69.54	-4,221.6	1,113.6	486.3	394.1	92.17	5.276			
15,900.0	11,820.0	15,791.0	11,650.0	48.0	43.2	-69.53	-4,321.6	1,112.7	486.0	392.2	93.81	5.181			
16,000.0	11,820.0	15,891.0	11,650.0	48.8	44.1	-69.51	-4,421.6	1,111.9	485.7	390.3	95.46	5.089			
16,100.0	11,820.0	15,991.0	11,650.0	49.6	45.0	-69.50	-4,521.6	1,111.0	485.5	388.4	97.11	4.999			
16,200.0	11,820.0	16,091.0	11,650.0	50.5	45.9	-69.49	-4,621.6	1,110.1	485.2	386.4	98.77	4.912			
16,300.0	11,820.0	16,191.0	11,650.0	51.3	46.8	-69.48	-4,721.6	1,109.3	485.0	384.5	100.44	4.828			
16,400.0	11,820.0	16,291.0	11,650.0	52.1	47.7	-69.47	-4,821.6	1,108.4	484.7	382.6	102.12	4.747			
16,500.0	11,820.0	16,391.0	11,650.0	53.0	48.6	-69.46	-4,921.6	1,107.5	484.5	380.7	103.80	4.667			
16,600.0	11,820.0	16,491.0	11,650.0	53.8	49.5	-69.45	-5,021.6	1,106.7	484.2	378.7	105.49	4.590			
16,700.0	11,820.0	16,591.0	11,650.0	54.7	50.4	-69.43	-5,121.6	1,105.8	483.9	376.8	107.18	4.515			
16,800.0	11,820.0	16,691.0	11,650.0	55.5	51.3	-69.42	-5,221.5	1,104.9	483.7	374.8	108.88	4.442			
16,900.0	11,820.0	16,791.0	11,650.0	56.4	52.2	-69.41	-5,321.5	1,104.0	483.4	372.8	110.58	4.372			
17,000.0	11,820.0	16,891.0	11,650.0	57.2	53.1	-69.40	-5,421.5	1,103.2	483.2	370.9	112.29	4.303			
17,100.0	11,820.0	16,991.0	11,650.0	58.1	54.0	-69.39	-5,521.5	1,102.3	482.9	368.9	114.00	4.236			
17,200.0	11,820.0	17,091.0	11,650.0	59.0	55.0	-69.38	-5,621.5	1,101.4	482.7	366.9	115.72	4.171			
17,300.0	11,820.0	17,191.0	11,650.0	59.8	55.9	-69.37	-5,721.5	1,100.6	482.4	365.0	117.44	4.108			
17,400.0	11,820.0	17,291.0	11,650.0	60.7	56.8	-69.35	-5,821.5	1,099.7	482.1	363.0	119.16	4.046			
17,500.0	11,820.0	17,391.0	11,650.0	61.6	57.7	-69.34	-5,921.5	1,098.8	481.9	361.0	120.89	3.986			
17,600.0	11,820.0	17,491.0	11,650.0	62.5	58.6	-69.33	-6,021.5	1,098.0	481.6	359.0	122.62	3.928			
17,700.0	11,820.0	17,591.0	11,650.0	63.3	59.5	-69.32	-6,121.5	1,097.1	481.4	357.0	124.35	3.871			
17,800.0	11,820.0	17,691.0	11,650.0	64.2	60.5	-69.31	-6,221.5	1,096.2	481.1	355.0	126.09	3.816			
17,900.0	11,820.0	17,791.0	11,650.0	65.1	61.4	-69.30	-6,321.5	1,095.3	480.9	353.0	127.83	3.762			
18,000.0	11,820.0	17,891.0	11,650.0	66.0	62.3	-69.28	-6,421.5	1,094.5	480.6	351.0	129.58	3.709			
18,100.0	11,820.0	17,991.0	11,650.0	66.9	63.2	-69.27	-6,521.5	1,093.6	480.3	349.0	131.32	3.658			
18,200.0	11,820.0	18,091.0	11,650.0	67.8	64.2	-69.26	-6,621.5	1,092.7	480.1	347.0	133.07	3.608			
18,300.0	11,820.0	18,191.0	11,650.0	68.7	65.1	-69.25	-6,721.5	1,091.9	479.8	345.0	134.83	3.559			
18,400.0	11,820.0	18,291.0	11,650.0	69.5	66.0	-69.24	-6,821.5	1,091.0	479.6	343.0	136.58	3.511			
18,500.0	11,820.0	18,391.0	11,650.0	70.4	66.9	-69.23	-6,921.5	1,090.1	479.3	341.0	138.34	3.465			
18,600.0	11,820.0	18,491.0	11,650.0	71.3	67.9	-69.22	-7,021.5	1,089.3	479.1	339.0	140.10	3.419			
18,700.0	11,820.0	18,591.0	11,650.0	72.2	68.8	-69.20	-7,121.5	1,088.4	478.8	336.9	141.86	3.375			
18,800.0	11,820.0	18,691.0	11,650.0	73.1	69.7	-69.19	-7,221.5	1,087.5	478.5	334.9	143.63	3.332			
18,900.0	11,820.0	18,791.0	11,650.0	74.0	70.7	-69.18	-7,321.5	1,086.6	478.3	332.9	145.39	3.290			
19,000.0	11,820.0	18,891.0	11,650.0	74.9	71.6	-69.17	-7,421.5	1,085.8	478.0	330.9	147.16	3.248			
19,100.0	11,820.0	18,991.0	11,650.0	75.8	72.5	-69.16	-7,521.5	1,084.9	477.8	328.9	148.93	3.208			
19,200.0	11,820.0	19,091.0	11,650.0	76.7	73.5	-69.15	-7,621.4	1,084.0	477.5	326.8	150.70	3.169			
19,287.8	11,820.0	19,178.8	11,650.0	77.3	74.3	-69.13	-7,709.2	1,083.3	477.3	325.3	151.98	3.141			
19,300.0	11,820.0	19,188.8	11,650.0	77.4	74.4	-69.13	-7,719.2	1,083.2	477.3	325.1	152.16	3.137	CC		
19,304.3	11,820.0	19,188.8	11,650.0	77.4	74.4	-69.13	-7,719.2	1,083.2	477.3	325.1	152.22	3.136	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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,500.0	5,454.3	5,485.6	5,454.3	21.5	18.8	-11.51	0.3	1,616.3	995.2	958.0	37.18	26.766			
5,600.0	5,553.9	5,585.2	5,553.9	21.9	18.8	-11.59	0.3	1,616.3	986.7	949.0	37.66	26.201			
5,700.0	5,653.7	5,685.0	5,653.7	22.3	18.9	-11.66	0.3	1,616.3	979.9	941.8	38.12	25.708			
5,800.0	5,753.5	5,784.8	5,753.5	22.6	18.9	-11.71	0.3	1,616.3	974.8	936.3	38.55	25.287			
5,900.0	5,853.5	5,884.8	5,853.5	22.9	19.0	-11.75	0.3	1,616.3	971.5	932.5	38.95	24.941			
6,000.0	5,953.4	5,984.7	5,953.4	23.2	19.1	-11.76	0.3	1,616.3	969.8	930.5	39.30	24.680			
6,046.6	6,000.0	6,031.3	6,000.0	23.2	19.1	85.25	0.3	1,616.3	969.7	930.3	39.38	24.623			
6,100.0	6,053.4	6,084.7	6,053.4	23.2	19.1	85.25	0.3	1,616.3	969.7	930.2	39.42	24.600			
6,200.0	6,153.4	6,184.7	6,153.4	23.3	19.2	85.25	0.3	1,616.3	969.7	930.1	39.51	24.544			
6,300.0	6,253.4	6,284.7	6,253.4	23.3	19.2	85.25	0.3	1,616.3	969.7	930.1	39.60	24.488			
6,400.0	6,353.4	6,384.7	6,353.4	23.3	19.3	85.25	0.3	1,616.3	969.7	930.0	39.69	24.431			
6,500.0	6,453.4	6,484.7	6,453.4	23.4	19.3	85.25	0.3	1,616.3	969.7	929.9	39.78	24.375			
6,600.0	6,553.4	6,584.7	6,553.4	23.4	19.4	85.25	0.3	1,616.3	969.7	929.8	39.87	24.319			
6,700.0	6,653.4	6,684.7	6,653.4	23.4	19.5	85.25	0.3	1,616.3	969.7	929.7	39.97	24.262			
6,800.0	6,753.4	6,784.7	6,753.4	23.5	19.5	85.25	0.3	1,616.3	969.7	929.6	40.06	24.206			
6,900.0	6,853.4	6,884.7	6,853.4	23.5	19.6	85.25	0.3	1,616.3	969.7	929.5	40.15	24.150			
7,000.0	6,953.4	6,984.7	6,953.4	23.5	19.6	85.25	0.3	1,616.3	969.7	929.4	40.25	24.094			
7,100.0	7,053.4	7,084.7	7,053.4	23.6	19.7	85.25	0.3	1,616.3	969.7	929.3	40.34	24.037			
7,200.0	7,153.4	7,184.7	7,153.4	23.6	19.7	85.25	0.3	1,616.3	969.7	929.2	40.43	23.981			
7,300.0	7,253.4	7,284.7	7,253.4	23.6	19.8	85.25	0.3	1,616.3	969.7	929.1	40.53	23.925			
7,400.0	7,353.4	7,384.7	7,353.4	23.7	19.9	85.25	0.3	1,616.3	969.7	929.0	40.62	23.869			
7,500.0	7,453.4	7,484.7	7,453.4	23.7	19.9	85.25	0.3	1,616.3	969.7	928.9	40.72	23.812			
7,600.0	7,553.4	7,584.7	7,553.4	23.7	20.0	85.25	0.3	1,616.3	969.7	928.8	40.82	23.756			
7,700.0	7,653.4	7,684.7	7,653.4	23.8	20.0	85.25	0.3	1,616.3	969.7	928.7	40.91	23.700			
7,800.0	7,753.4	7,784.7	7,753.4	23.8	20.1	85.25	0.3	1,616.3	969.7	928.6	41.01	23.644			
7,900.0	7,853.4	7,884.7	7,853.4	23.9	20.1	85.25	0.3	1,616.3	969.7	928.5	41.11	23.588			
8,000.0	7,953.4	7,984.7	7,953.4	23.9	20.2	85.25	0.3	1,616.3	969.7	928.4	41.21	23.532			
8,100.0	8,053.4	8,084.7	8,053.4	23.9	20.3	85.25	0.3	1,616.3	969.7	928.3	41.30	23.475			
8,200.0	8,153.4	8,184.7	8,153.4	24.0	20.3	85.25	0.3	1,616.3	969.7	928.3	41.40	23.419			
8,300.0	8,253.4	8,284.7	8,253.4	24.0	20.4	85.25	0.3	1,616.3	969.7	928.2	41.50	23.364			
8,400.0	8,353.4	8,384.7	8,353.4	24.0	20.4	85.25	0.3	1,616.3	969.7	928.1	41.60	23.308			
8,500.0	8,453.4	8,484.7	8,453.4	24.1	20.5	85.25	0.3	1,616.3	969.7	928.0	41.70	23.252			
8,600.0	8,553.4	8,584.7	8,553.4	24.1	20.6	85.25	0.3	1,616.3	969.7	927.9	41.80	23.196			
8,700.0	8,653.4	8,684.7	8,653.4	24.2	20.6	85.25	0.3	1,616.3	969.7	927.8	41.90	23.140			
8,800.0	8,753.4	8,784.7	8,753.4	24.2	20.7	85.25	0.3	1,616.3	969.7	927.6	42.00	23.085			
8,900.0	8,853.4	8,884.7	8,853.4	24.2	20.7	85.25	0.3	1,616.3	969.7	927.5	42.11	23.029			
9,000.0	8,953.4	8,984.7	8,953.4	24.3	20.8	85.25	0.3	1,616.3	969.7	927.4	42.21	22.973			
9,100.0	9,053.4	9,084.7	9,053.4	24.3	20.9	85.25	0.3	1,616.3	969.7	927.3	42.31	22.918			
9,200.0	9,153.4	9,184.7	9,153.4	24.4	20.9	85.25	0.3	1,616.3	969.7	927.2	42.41	22.862			
9,300.0	9,253.4	9,284.7	9,253.4	24.4	21.0	85.25	0.3	1,616.3	969.7	927.1	42.52	22.807			
9,400.0	9,353.4	9,384.7	9,353.4	24.4	21.0	85.25	0.3	1,616.3	969.7	927.0	42.62	22.752			
9,500.0	9,453.4	9,484.7	9,453.4	24.5	21.1	85.25	0.3	1,616.3	969.7	926.9	42.72	22.697			
9,600.0	9,553.4	9,584.7	9,553.4	24.5	21.2	85.25	0.3	1,616.3	969.7	926.8	42.83	22.641			
9,700.0	9,653.4	9,684.7	9,653.4	24.6	21.2	85.25	0.3	1,616.3	969.7	926.7	42.93	22.586			
9,800.0	9,753.4	9,784.7	9,753.4	24.6	21.3	85.25	0.3	1,616.3	969.7	926.6	43.04	22.531			
9,900.0	9,853.4	9,884.7	9,853.4	24.6	21.4	85.25	0.3	1,616.3	969.7	926.5	43.14	22.476			
10,000.0	9,953.4	9,984.7	9,953.4	24.7	21.4	85.25	0.3	1,616.3	969.7	926.4	43.25	22.422			
10,100.0	10,053.4	10,084.7	10,053.4	24.7	21.5	85.25	0.3	1,616.3	969.7	926.3	43.35	22.367			
10,200.0	10,153.4	10,184.7	10,153.4	24.8	21.5	85.25	0.3	1,616.3	969.7	926.2	43.46	22.312			
10,300.0	10,253.4	10,284.7	10,253.4	24.8	21.6	85.25	0.3	1,616.3	969.7	926.1	43.56	22.258			
10,400.0	10,353.4	10,384.7	10,353.4	24.9	21.7	85.25	0.3	1,616.3	969.7	926.0	43.67	22.203			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,500.0	10,453.4	10,484.7	10,453.4	24.9	21.7	85.25	0.3	1,616.3	969.7	925.9	43.78	22.149		
10,600.0	10,553.4	10,584.7	10,553.4	24.9	21.8	85.25	0.3	1,616.3	969.7	925.8	43.89	22.095		
10,700.0	10,653.4	10,684.7	10,653.4	25.0	21.9	85.25	0.3	1,616.3	969.7	925.7	43.99	22.041		
10,800.0	10,753.4	10,784.7	10,753.4	25.0	21.9	85.25	0.3	1,616.3	969.7	925.6	44.10	21.987		
10,900.0	10,853.4	10,884.7	10,853.4	25.1	22.0	85.25	0.3	1,616.3	969.7	925.4	44.21	21.933		
11,000.0	10,953.4	10,984.7	10,953.4	25.1	22.0	85.25	0.3	1,616.3	969.7	925.3	44.32	21.879		
11,100.0	11,053.4	11,084.7	11,053.4	25.2	22.1	85.25	0.3	1,616.3	969.7	925.2	44.43	21.825		
11,200.0	11,153.4	11,184.7	11,153.4	25.2	22.2	85.25	0.3	1,616.3	969.7	925.1	44.54	21.772		
11,300.0	11,253.4	11,284.7	11,253.4	25.2	22.2	85.25	0.3	1,616.3	969.7	925.0	44.65	21.718		
11,389.1	11,342.5	11,373.8	11,342.5	25.3	22.3	85.25	0.3	1,616.3	969.7	924.9	44.73	21.677		
11,400.0	11,353.4	11,387.3	11,356.0	25.3	22.3	-91.75	0.1	1,616.3	969.6	924.9	44.73	21.679		
11,425.0	11,378.4	11,418.2	11,386.9	25.3	22.2	-91.74	-1.8	1,616.3	969.5	924.8	44.70	21.690		
11,450.0	11,403.3	11,449.1	11,417.4	25.3	22.1	-91.72	-5.6	1,616.3	969.3	924.7	44.66	21.704		
11,475.0	11,428.0	11,479.8	11,447.7	25.3	22.1	-91.70	-11.5	1,616.2	969.0	924.4	44.62	21.717		
11,500.0	11,452.5	11,510.5	11,477.3	25.3	22.0	-91.67	-19.2	1,616.1	968.6	924.0	44.58	21.727		
11,525.0	11,476.6	11,541.0	11,506.3	25.3	21.9	-91.62	-28.7	1,616.0	968.0	923.5	44.54	21.736		
11,550.0	11,500.4	11,571.4	11,534.5	25.4	21.8	-91.58	-40.0	1,615.9	967.4	922.9	44.49	21.741		
11,575.0	11,523.8	11,601.6	11,561.8	25.4	21.7	-91.52	-53.1	1,615.7	966.6	922.2	44.45	21.744		
11,600.0	11,546.7	11,631.7	11,588.0	25.4	21.7	-91.46	-67.7	1,615.6	965.8	921.4	44.42	21.744		
11,625.0	11,569.0	11,661.4	11,613.1	25.4	21.6	-91.39	-83.8	1,615.4	964.9	920.5	44.38	21.740		
11,650.0	11,590.6	11,691.0	11,636.9	25.4	21.5	-91.32	-101.3	1,615.2	963.9	919.5	44.35	21.733		
11,675.0	11,611.7	11,720.3	11,659.4	25.5	21.4	-91.24	-120.0	1,615.0	962.8	918.4	44.32	21.721		
11,700.0	11,631.9	11,749.3	11,680.5	25.5	21.4	-91.16	-140.0	1,614.7	961.6	917.3	44.30	21.705		
11,725.0	11,651.4	11,778.1	11,700.2	25.5	21.3	-91.07	-160.9	1,614.5	960.4	916.1	44.29	21.684		
11,750.0	11,670.0	11,806.6	11,718.4	25.5	21.3	-90.98	-182.8	1,614.3	959.1	914.8	44.28	21.659		
11,775.0	11,687.8	11,834.8	11,735.1	25.6	21.2	-90.89	-205.5	1,614.0	957.7	913.4	44.28	21.629		
11,800.0	11,704.6	11,862.7	11,750.3	25.6	21.2	-90.79	-228.9	1,613.7	956.3	912.0	44.28	21.594		
11,825.0	11,720.4	11,890.3	11,764.0	25.6	21.1	-90.70	-252.9	1,613.5	954.8	910.5	44.30	21.555		
11,850.0	11,735.1	11,917.6	11,776.1	25.6	21.1	-90.60	-277.3	1,613.2	953.3	909.0	44.32	21.510		
11,875.0	11,748.8	11,944.6	11,786.7	25.7	21.1	-90.50	-302.1	1,612.9	951.8	907.5	44.35	21.460		
11,900.0	11,761.4	11,971.3	11,795.8	25.7	21.1	-90.40	-327.3	1,612.6	950.3	905.9	44.39	21.405		
11,925.0	11,772.8	11,997.7	11,803.4	25.7	21.1	-90.31	-352.6	1,612.3	948.7	904.2	44.44	21.346		
11,950.0	11,783.0	12,023.9	11,809.5	25.8	21.0	-90.21	-378.0	1,612.1	947.1	902.6	44.50	21.281		
11,975.0	11,792.1	12,049.7	11,814.2	25.8	21.0	-90.11	-403.4	1,611.8	945.5	900.9	44.57	21.213		
12,000.0	11,799.9	12,075.3	11,817.5	25.8	21.1	-90.01	-428.8	1,611.5	943.9	899.2	44.65	21.140		
12,025.0	11,806.4	12,100.6	11,819.4	25.9	21.1	-89.91	-454.0	1,611.2	942.3	897.5	44.74	21.063		
12,050.0	11,811.7	12,125.6	11,820.0	25.9	21.1	-89.82	-479.0	1,610.9	940.7	895.8	44.83	20.983		
12,075.0	11,815.7	12,150.3	11,820.0	25.9	21.1	-89.77	-503.6	1,610.6	939.1	894.1	44.93	20.900		
12,100.0	11,818.4	12,175.1	11,820.0	25.9	21.1	-89.80	-528.4	1,610.4	937.5	892.4	45.03	20.820		
12,125.0	11,819.8	12,200.0	11,820.0	26.0	21.2	-89.91	-553.3	1,610.1	935.9	890.8	45.12	20.744		
12,139.1	11,820.0	12,214.0	11,820.0	26.0	21.2	-90.00	-567.4	1,609.9	935.0	889.8	45.17	20.700		
12,200.0	11,820.0	12,274.9	11,820.0	26.1	21.3	-90.00	-628.2	1,609.2	931.8	886.4	45.40	20.521		
12,300.0	11,820.0	12,374.8	11,820.0	26.3	21.4	-90.00	-728.2	1,608.1	929.3	883.4	45.88	20.254		
12,306.1	11,820.0	12,380.9	11,820.0	26.3	21.4	-90.00	-734.3	1,608.0	929.2	883.3	45.91	20.240		
12,400.0	11,820.0	12,474.8	11,820.0	26.5	21.6	-90.00	-828.2	1,607.0	928.7	882.3	46.40	20.017		
12,500.0	11,820.0	12,574.8	11,820.0	26.8	21.8	-90.00	-928.2	1,605.8	928.2	881.2	46.99	19.755		
12,600.0	11,820.0	12,674.8	11,820.0	27.0	22.1	-90.00	-1,028.2	1,604.7	927.7	880.0	47.64	19.471		
12,700.0	11,820.0	12,774.8	11,820.0	27.4	22.3	-90.00	-1,128.2	1,603.6	927.1	878.8	48.37	19.169		
12,800.0	11,820.0	12,874.8	11,820.0	27.7	22.7	-90.00	-1,228.1	1,602.5	926.6	877.4	49.15	18.852		
12,900.0	11,820.0	12,974.8	11,820.0	28.1	23.0	-90.00	-1,328.1	1,601.3	926.1	876.1	50.00	18.522		
13,000.0	11,820.0	13,074.8	11,820.0	28.5	23.4	-90.00	-1,428.1	1,600.2	925.5	874.6	50.90	18.184		

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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:			Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
13,100.0	11,820.0	13,174.8	11,820.0	28.9	23.8	-90.00	-1,528.1	1,599.1	925.0	873.1	51.85	17.838			
13,200.0	11,820.0	13,274.8	11,820.0	29.4	24.3	-90.00	-1,628.1	1,597.9	924.5	871.6	52.86	17.488			
13,300.0	11,820.0	13,374.8	11,820.0	29.9	24.8	-90.00	-1,728.1	1,596.8	923.9	870.0	53.92	17.137			
13,400.0	11,820.0	13,474.8	11,820.0	30.4	25.3	-90.00	-1,828.1	1,595.7	923.4	868.4	55.01	16.784			
13,500.0	11,820.0	13,574.8	11,820.0	30.9	25.9	-90.00	-1,928.1	1,594.5	922.9	866.7	56.16	16.433			
13,600.0	11,820.0	13,674.8	11,820.0	31.5	26.5	-90.00	-2,028.1	1,593.4	922.3	865.0	57.34	16.085			
13,700.0	11,820.0	13,774.8	11,820.0	32.0	27.1	-90.00	-2,128.1	1,592.3	921.8	863.2	58.56	15.741			
13,800.0	11,820.0	13,874.8	11,820.0	32.6	27.7	-90.00	-2,228.1	1,591.2	921.3	861.4	59.81	15.402			
13,900.0	11,820.0	13,974.8	11,820.0	33.3	28.4	-90.00	-2,328.1	1,590.0	920.7	859.6	61.10	15.069			
14,000.0	11,820.0	14,074.8	11,820.0	33.9	29.1	-90.00	-2,428.0	1,588.9	920.2	857.8	62.42	14.742			
14,100.0	11,820.0	14,174.8	11,820.0	34.5	29.8	-90.00	-2,528.0	1,587.8	919.6	855.9	63.77	14.422			
14,200.0	11,820.0	14,274.8	11,820.0	35.2	30.5	-90.00	-2,628.0	1,586.6	919.1	854.0	65.14	14.110			
14,300.0	11,820.0	14,374.8	11,820.0	35.9	31.2	-90.00	-2,728.0	1,585.5	918.6	852.0	66.54	13.805			
14,400.0	11,820.0	14,474.8	11,820.0	36.5	32.0	-90.00	-2,828.0	1,584.4	918.0	850.1	67.96	13.508			
14,500.0	11,820.0	14,574.8	11,820.0	37.2	32.7	-90.00	-2,928.0	1,583.3	917.5	848.1	69.41	13.219			
14,600.0	11,820.0	14,674.8	11,820.0	38.0	33.5	-90.00	-3,028.0	1,582.1	917.0	846.1	70.88	12.937			
14,700.0	11,820.0	14,774.8	11,820.0	38.7	34.3	-90.00	-3,128.0	1,581.0	916.4	844.1	72.37	12.664			
14,800.0	11,820.0	14,874.8	11,820.0	39.4	35.0	-90.00	-3,228.0	1,579.9	915.9	842.0	73.87	12.399			
14,900.0	11,820.0	14,974.8	11,820.0	40.2	35.8	-90.00	-3,328.0	1,578.7	915.4	840.0	75.39	12.141			
15,000.0	11,820.0	15,074.8	11,820.0	40.9	36.6	-90.00	-3,428.0	1,577.6	914.8	837.9	76.93	11.891			
15,100.0	11,820.0	15,174.8	11,820.0	41.7	37.5	-90.00	-3,528.0	1,576.5	914.3	835.8	78.49	11.649			
15,200.0	11,820.0	15,274.8	11,820.0	42.4	38.3	-90.00	-3,628.0	1,575.4	913.8	833.7	80.06	11.414			
15,300.0	11,820.0	15,374.8	11,820.0	43.2	39.1	-90.00	-3,727.9	1,574.2	913.2	831.6	81.64	11.186			
15,400.0	11,820.0	15,474.8	11,820.0	44.0	39.9	-90.00	-3,827.9	1,573.1	912.7	829.5	83.24	10.965			
15,500.0	11,820.0	15,574.8	11,820.0	44.8	40.8	-90.00	-3,927.9	1,572.0	912.2	827.3	84.84	10.751			
15,600.0	11,820.0	15,674.8	11,820.0	45.6	41.6	-90.00	-4,027.9	1,570.8	911.6	825.2	86.46	10.544			
15,700.0	11,820.0	15,774.8	11,820.0	46.4	42.5	-90.00	-4,127.9	1,569.7	911.1	823.0	88.09	10.342			
15,800.0	11,820.0	15,874.8	11,820.0	47.2	43.3	-90.00	-4,227.9	1,568.6	910.6	820.8	89.73	10.147			
15,900.0	11,820.0	15,974.8	11,820.0	48.0	44.2	-90.00	-4,327.9	1,567.4	910.0	818.7	91.39	9.958			
16,000.0	11,820.0	16,074.8	11,820.0	48.8	45.0	-90.00	-4,427.9	1,566.3	909.5	816.5	93.04	9.775			
16,100.0	11,820.0	16,174.8	11,820.0	49.6	45.9	-90.00	-4,527.9	1,565.2	909.0	814.3	94.71	9.597			
16,200.0	11,820.0	16,274.8	11,820.0	50.5	46.8	-90.00	-4,627.9	1,564.1	908.4	812.1	96.39	9.425			
16,300.0	11,820.0	16,374.8	11,820.0	51.3	47.7	-90.00	-4,727.9	1,562.9	907.9	809.8	98.07	9.257			
16,400.0	11,820.0	16,474.8	11,820.0	52.1	48.5	-90.00	-4,827.9	1,561.8	907.4	807.6	99.76	9.095			
16,500.0	11,820.0	16,574.8	11,820.0	53.0	49.4	-90.00	-4,927.9	1,560.7	906.8	805.4	101.46	8.938			
16,600.0	11,820.0	16,674.8	11,820.0	53.8	50.3	-90.00	-5,027.8	1,559.5	906.3	803.1	103.17	8.785			
16,700.0	11,820.0	16,774.8	11,820.0	54.7	51.2	-90.00	-5,127.8	1,558.4	905.8	800.9	104.88	8.636			
16,800.0	11,820.0	16,874.8	11,820.0	55.5	52.1	-90.00	-5,227.8	1,557.3	905.2	798.6	106.60	8.492			
16,900.0	11,820.0	16,974.8	11,820.0	56.4	53.0	-90.00	-5,327.8	1,556.2	904.7	796.4	108.32	8.352			
17,000.0	11,820.0	17,074.8	11,820.0	57.2	53.9	-90.00	-5,427.8	1,555.0	904.2	794.1	110.05	8.216			
17,100.0	11,820.0	17,174.8	11,820.0	58.1	54.7	-90.00	-5,527.8	1,553.9	903.6	791.9	111.78	8.084			
17,200.0	11,820.0	17,274.8	11,820.0	59.0	55.6	-90.00	-5,627.8	1,552.8	903.1	789.6	113.52	7.955			
17,300.0	11,820.0	17,374.8	11,820.0	59.8	56.5	-90.00	-5,727.8	1,551.6	902.6	787.3	115.27	7.830			
17,400.0	11,820.0	17,474.8	11,820.0	60.7	57.4	-90.00	-5,827.8	1,550.5	902.0	785.0	117.01	7.709			
17,500.0	11,820.0	17,574.8	11,820.0	61.6	58.3	-90.00	-5,927.8	1,549.4	901.5	782.7	118.77	7.590			
17,600.0	11,820.0	17,674.8	11,820.0	62.5	59.3	-90.00	-6,027.8	1,548.2	901.0	780.4	120.52	7.475			
17,700.0	11,820.0	17,774.8	11,820.0	63.3	60.2	-90.00	-6,127.8	1,547.1	900.4	778.1	122.28	7.363			
17,800.0	11,820.0	17,874.8	11,820.0	64.2	61.1	-90.00	-6,227.8	1,546.0	899.9	775.8	124.05	7.254			
17,900.0	11,820.0	17,974.8	11,820.0	65.1	62.0	-90.00	-6,327.7	1,544.9	899.4	773.5	125.82	7.148			
18,000.0	11,820.0	18,074.8	11,820.0	66.0	62.9	-90.00	-6,427.7	1,543.7	898.8	771.2	127.59	7.045			
18,100.0	11,820.0	18,174.7	11,820.0	66.9	63.8	-90.00	-6,527.7	1,542.6	898.3	768.9	129.36	6.944			

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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,200.0	11,820.0	18,274.7	11,820.0	67.8	64.7	-90.00	-6,627.7	1,541.5	897.8	766.6	131.14	6.846	
18,300.0	11,820.0	18,374.7	11,820.0	68.7	65.6	-90.00	-6,727.7	1,540.3	897.2	764.3	132.92	6.750	
18,400.0	11,820.0	18,474.7	11,820.0	69.5	66.6	-90.00	-6,827.7	1,539.2	896.7	762.0	134.71	6.657	
18,500.0	11,820.0	18,574.7	11,820.0	70.4	67.5	-90.00	-6,927.7	1,538.1	896.2	759.7	136.50	6.565	
18,600.0	11,820.0	18,674.7	11,820.0	71.3	68.4	-90.00	-7,027.7	1,537.0	895.6	757.3	138.29	6.477	
18,700.0	11,820.0	18,774.7	11,820.0	72.2	69.3	-90.00	-7,127.7	1,535.8	895.1	755.0	140.08	6.390	
18,800.0	11,820.0	18,874.7	11,820.0	73.1	70.2	-90.00	-7,227.7	1,534.7	894.6	752.7	141.87	6.305	
18,900.0	11,820.0	18,974.7	11,820.0	74.0	71.1	-90.00	-7,327.7	1,533.6	894.0	750.4	143.67	6.223	
19,000.0	11,820.0	19,074.7	11,820.0	74.9	72.1	-90.00	-7,427.7	1,532.4	893.5	748.0	145.47	6.142	
19,100.0	11,820.0	19,174.7	11,820.0	75.8	73.0	-90.00	-7,527.7	1,531.3	893.0	745.7	147.27	6.063	
19,200.0	11,820.0	19,274.7	11,820.0	76.7	73.9	-90.00	-7,627.6	1,530.2	892.4	743.3	149.08	5.986	
19,292.0	11,820.0	19,363.6	11,820.0	77.3	74.6	-90.00	-7,716.5	1,529.2	891.9	741.7	150.27	5.936 CC	
19,300.0	11,820.0	19,363.6	11,820.0	77.4	74.6	-90.00	-7,716.5	1,529.2	892.0	741.6	150.36	5.932	
19,304.3	11,820.0	19,363.6	11,820.0	77.4	74.6	-90.00	-7,716.5	1,529.2	892.0	741.6	150.40	5.931 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 #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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:		Distance		Minimum		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
8,300.0	8,253.4	13,450.0	9,020.8	24.0	79.8	-147.57	-560.4	344.8	955.4	893.0	62.46	15.297
8,400.0	8,353.4	13,450.0	9,020.8	24.0	79.8	-147.57	-560.4	344.8	877.1	814.0	63.13	13.893
8,500.0	8,453.4	13,450.0	9,020.8	24.1	79.8	-147.57	-560.4	344.8	803.7	739.7	63.92	12.572
8,600.0	8,553.4	13,450.0	9,020.8	24.1	79.8	-147.57	-560.4	344.8	736.5	671.6	64.83	11.361
8,700.0	8,653.4	13,450.0	9,020.8	24.2	79.8	-147.57	-560.4	344.8	677.4	611.6	65.82	10.293
8,800.0	8,753.4	13,450.0	9,020.8	24.2	79.8	-147.57	-560.4	344.8	628.8	562.0	66.82	9.411
8,900.0	8,853.4	13,450.0	9,020.8	24.2	79.8	-147.57	-560.4	344.8	593.2	525.5	67.70	8.763
9,000.0	8,953.4	13,450.0	9,020.8	24.3	79.8	-147.57	-560.4	344.8	573.1	504.8	68.29	8.392
9,067.4	9,020.8	13,450.0	9,020.8	24.3	79.8	-147.57	-560.4	344.8	569.1	500.7	68.45	8.315 CC, ES, SF
9,100.0	9,053.4	13,450.0	9,020.8	24.3	79.8	-147.57	-560.4	344.8	570.1	501.6	68.45	8.328
9,200.0	9,153.4	13,450.0	9,020.8	24.4	79.8	-147.57	-560.4	344.8	584.4	516.2	68.16	8.574
9,300.0	9,253.4	13,450.0	9,020.8	24.4	79.8	-147.57	-560.4	344.8	614.8	547.3	67.54	9.103
9,400.0	9,353.4	13,450.0	9,020.8	24.4	79.8	-147.57	-560.4	344.8	659.2	592.4	66.78	9.871
9,500.0	9,453.4	13,450.0	9,020.8	24.5	79.8	-147.57	-560.4	344.8	714.9	648.9	66.03	10.827
9,600.0	9,553.4	13,450.0	9,020.8	24.5	79.8	-147.57	-560.4	344.8	779.5	714.1	65.37	11.924
9,700.0	9,653.4	13,450.0	9,020.8	24.6	79.8	-147.57	-560.4	344.8	850.9	786.1	64.83	13.125
9,800.0	9,753.4	13,450.0	9,020.8	24.6	79.8	-147.57	-560.4	344.8	927.7	863.3	64.42	14.400

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

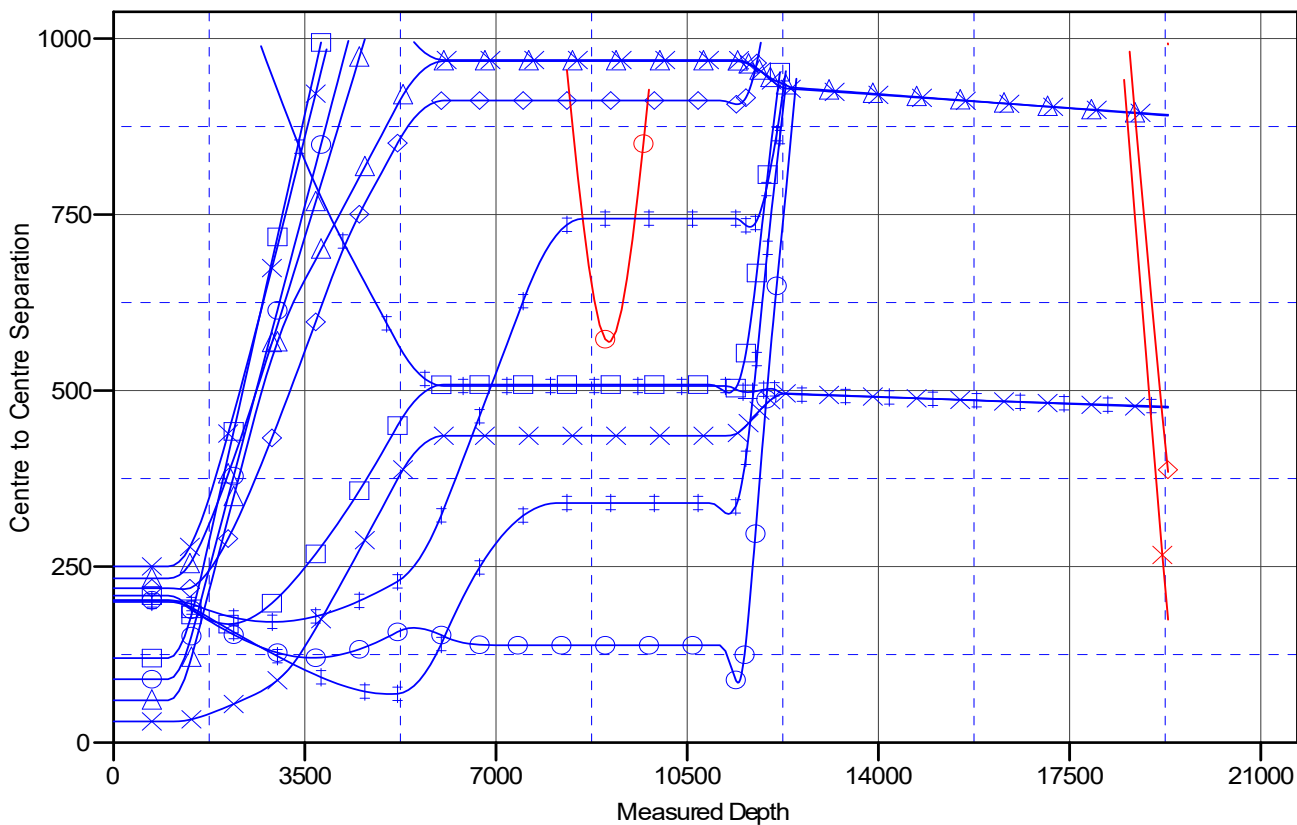
ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #705H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Ladder Plot



LEGEND

- | | | |
|---|---|--|
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | GOLDEN SPUR FEDERAL #1H (P&A), STD1, AWP V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 |
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | LINDSAY 3-10L-55-1 #426H, OWB, AWP V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 |
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | LINDSAY 2 #4H, OWB, AWP V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 |
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | LINDSAY 2 #441H, OWB, AWP V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 |
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP1 V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 |
| *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0 | ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0 | |

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

ConocoPhillips

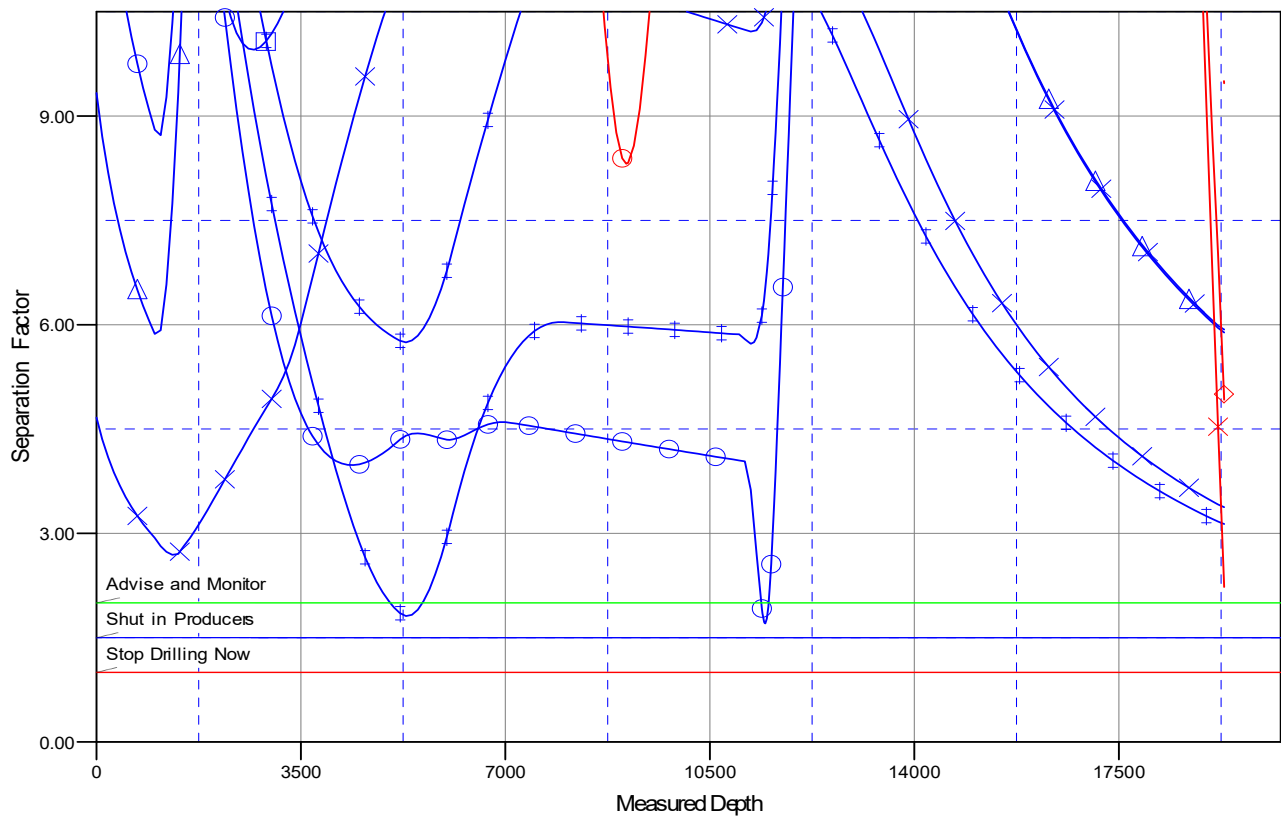
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Project:	ZIA HILLS UNIT PROSPECT	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Reference Site:	ZIA HILLS UNIT 2531 PROJECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	*ZIA HILLS UNIT 2531 WC #705H	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 #705H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

*ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0
 *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0
 *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0
 *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0
 *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0
 *ZIA HILLS UNIT 2531 WC #705H, OWB, PWP0 V0

GOLDEN SPUR FEDERAL #1H (P&A), S101, AWP V0
 LINDSAY 3-10L-55-1 #426H, OWB, AWP V0
 LINDSAY 2 #4H, OWB, AWP V0
 LINDSAY 2 #441H, OWB, AWP V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP1 V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0

ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0
 ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H**

OWB

Plan: PWP0

Standard Planning Report

10 August, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	8/9/2023	6.37	59.54	47,302.49223432

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	175.28

Plan Survey Tool Program	Date	8/10/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,303.4 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1	rev.5

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,427.3	8.55	97.02	1,425.7	-3.9	31.6	2.00	2.00	0.00	97.02	
5,191.9	8.55	97.02	5,148.5	-72.2	586.9	0.00	0.00	0.00	0.00	
6,046.6	0.00	0.00	6,000.0	-80.0	650.0	1.00	-1.00	0.00	180.00	
11,389.1	0.00	0.00	11,342.5	-80.0	650.0	0.00	0.00	0.00	0.00	
12,139.1	90.00	177.00	11,820.0	-556.8	675.0	12.00	12.00	0.00	177.00	
12,306.1	90.00	180.34	11,820.0	-723.8	678.9	2.00	0.00	2.00	90.00	
19,304.3	90.00	180.34	11,820.0	-7,721.8	637.2	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	2.00	97.02	1,100.0	-0.2	1.7	0.4	2.00	2.00	0.00	
1,200.0	4.00	97.02	1,199.8	-0.9	6.9	1.4	2.00	2.00	0.00	
1,300.0	6.00	97.02	1,299.5	-1.9	15.6	3.2	2.00	2.00	0.00	
1,400.0	8.00	97.02	1,398.7	-3.4	27.7	5.7	2.00	2.00	0.00	
1,427.3	8.55	97.02	1,425.7	-3.9	31.6	6.5	2.00	2.00	0.00	
1,500.0	8.55	97.02	1,497.6	-5.2	42.3	8.7	0.00	0.00	0.00	
1,600.0	8.55	97.02	1,596.5	-7.0	57.0	11.7	0.00	0.00	0.00	
1,700.0	8.55	97.02	1,695.4	-8.8	71.8	14.7	0.00	0.00	0.00	
1,800.0	8.55	97.02	1,794.3	-10.7	86.5	17.7	0.00	0.00	0.00	
1,900.0	8.55	97.02	1,893.2	-12.5	101.3	20.8	0.00	0.00	0.00	
2,000.0	8.55	97.02	1,992.1	-14.3	116.0	23.8	0.00	0.00	0.00	
2,100.0	8.55	97.02	2,090.9	-16.1	130.8	26.8	0.00	0.00	0.00	
2,200.0	8.55	97.02	2,189.8	-17.9	145.5	29.8	0.00	0.00	0.00	
2,300.0	8.55	97.02	2,288.7	-19.7	160.3	32.8	0.00	0.00	0.00	
2,400.0	8.55	97.02	2,387.6	-21.5	175.0	35.9	0.00	0.00	0.00	
2,500.0	8.55	97.02	2,486.5	-23.4	189.8	38.9	0.00	0.00	0.00	
2,600.0	8.55	97.02	2,585.4	-25.2	204.5	41.9	0.00	0.00	0.00	
2,700.0	8.55	97.02	2,684.3	-27.0	219.3	44.9	0.00	0.00	0.00	
2,800.0	8.55	97.02	2,783.2	-28.8	234.0	48.0	0.00	0.00	0.00	
2,900.0	8.55	97.02	2,882.1	-30.6	248.8	51.0	0.00	0.00	0.00	
3,000.0	8.55	97.02	2,981.0	-32.4	263.5	54.0	0.00	0.00	0.00	
3,100.0	8.55	97.02	3,079.8	-34.3	278.3	57.0	0.00	0.00	0.00	
3,200.0	8.55	97.02	3,178.7	-36.1	293.0	60.0	0.00	0.00	0.00	
3,300.0	8.55	97.02	3,277.6	-37.9	307.8	63.1	0.00	0.00	0.00	
3,400.0	8.55	97.02	3,376.5	-39.7	322.5	66.1	0.00	0.00	0.00	
3,500.0	8.55	97.02	3,475.4	-41.5	337.3	69.1	0.00	0.00	0.00	
3,600.0	8.55	97.02	3,574.3	-43.3	352.0	72.1	0.00	0.00	0.00	
3,700.0	8.55	97.02	3,673.2	-45.1	366.8	75.2	0.00	0.00	0.00	
3,800.0	8.55	97.02	3,772.1	-47.0	381.5	78.2	0.00	0.00	0.00	
3,900.0	8.55	97.02	3,871.0	-48.8	396.3	81.2	0.00	0.00	0.00	
4,000.0	8.55	97.02	3,969.8	-50.6	411.0	84.2	0.00	0.00	0.00	
4,100.0	8.55	97.02	4,068.7	-52.4	425.8	87.2	0.00	0.00	0.00	
4,200.0	8.55	97.02	4,167.6	-54.2	440.5	90.3	0.00	0.00	0.00	
4,300.0	8.55	97.02	4,266.5	-56.0	455.3	93.3	0.00	0.00	0.00	
4,400.0	8.55	97.02	4,365.4	-57.9	470.0	96.3	0.00	0.00	0.00	
4,500.0	8.55	97.02	4,464.3	-59.7	484.8	99.3	0.00	0.00	0.00	
4,600.0	8.55	97.02	4,563.2	-61.5	499.5	102.4	0.00	0.00	0.00	
4,700.0	8.55	97.02	4,662.1	-63.3	514.3	105.4	0.00	0.00	0.00	
4,800.0	8.55	97.02	4,761.0	-65.1	529.0	108.4	0.00	0.00	0.00	
4,900.0	8.55	97.02	4,859.9	-66.9	543.8	111.4	0.00	0.00	0.00	
5,000.0	8.55	97.02	4,958.7	-68.7	558.5	114.4	0.00	0.00	0.00	
5,100.0	8.55	97.02	5,057.6	-70.6	573.3	117.5	0.00	0.00	0.00	

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Planning Report

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Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	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)	
5,191.9	8.55	97.02	5,148.5	-72.2	586.9	120.2	0.00	0.00	0.00	
5,200.0	8.47	97.02	5,156.5	-72.4	588.0	120.5	1.00	-1.00	0.00	
5,300.0	7.47	97.02	5,255.6	-74.1	601.8	123.3	1.00	-1.00	0.00	
5,400.0	6.47	97.02	5,354.8	-75.5	613.8	125.8	1.00	-1.00	0.00	
5,500.0	5.47	97.02	5,454.3	-76.8	624.1	127.9	1.00	-1.00	0.00	
5,600.0	4.47	97.02	5,553.9	-77.9	632.7	129.6	1.00	-1.00	0.00	
5,700.0	3.47	97.02	5,653.7	-78.7	639.6	131.1	1.00	-1.00	0.00	
5,800.0	2.47	97.02	5,753.5	-79.4	644.7	132.1	1.00	-1.00	0.00	
5,900.0	1.47	97.02	5,853.5	-79.8	648.1	132.8	1.00	-1.00	0.00	
6,000.0	0.47	97.02	5,953.4	-80.0	649.8	133.1	1.00	-1.00	0.00	
6,046.6	0.00	0.00	6,000.0	-80.0	650.0	133.2	1.00	-1.00	0.00	
6,100.0	0.00	0.00	6,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,353.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,453.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,553.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,653.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,753.4	-80.0	650.0	133.2	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,853.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,953.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,353.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,453.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,553.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,653.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,753.4	-80.0	650.0	133.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,853.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,953.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,353.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,453.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,553.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,653.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,753.4	-80.0	650.0	133.2	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,853.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,953.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,353.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,453.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,553.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,653.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,753.4	-80.0	650.0	133.2	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,853.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,953.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	

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Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #705H - Slot ZHU 2531 WC #705H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	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	10,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,353.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,453.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,553.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,653.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,753.4	-80.0	650.0	133.2	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,853.4	-80.0	650.0	133.2	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,953.4	-80.0	650.0	133.2	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,053.4	-80.0	650.0	133.2	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,153.4	-80.0	650.0	133.2	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,253.4	-80.0	650.0	133.2	0.00	0.00	0.00	
11,389.1	0.00	0.00	11,342.5	-80.0	650.0	133.2	0.00	0.00	0.00	
11,400.0	1.31	177.00	11,353.4	-80.1	650.0	133.3	12.00	12.00	0.00	
11,425.0	4.31	177.00	11,378.4	-81.4	650.1	134.5	12.00	12.00	0.00	
11,450.0	7.31	177.00	11,403.3	-83.9	650.2	137.1	12.00	12.00	0.00	
11,475.0	10.31	177.00	11,428.0	-87.7	650.4	140.9	12.00	12.00	0.00	
11,500.0	13.31	177.00	11,452.5	-92.8	650.7	146.0	12.00	12.00	0.00	
11,525.0	16.31	177.00	11,476.6	-99.2	651.0	152.4	12.00	12.00	0.00	
11,550.0	19.31	177.00	11,500.4	-106.8	651.4	160.0	12.00	12.00	0.00	
11,575.0	22.31	177.00	11,523.8	-115.7	651.9	168.9	12.00	12.00	0.00	
11,600.0	25.31	177.00	11,546.7	-125.8	652.4	179.0	12.00	12.00	0.00	
11,625.0	28.31	177.00	11,569.0	-137.0	653.0	190.3	12.00	12.00	0.00	
11,650.0	31.31	177.00	11,590.6	-149.5	653.6	202.7	12.00	12.00	0.00	
11,675.0	34.31	177.00	11,611.7	-163.0	654.3	216.2	12.00	12.00	0.00	
11,700.0	37.31	177.00	11,631.9	-177.6	655.1	230.9	12.00	12.00	0.00	
11,725.0	40.31	177.00	11,651.4	-193.2	655.9	246.5	12.00	12.00	0.00	
11,750.0	43.31	177.00	11,670.0	-209.9	656.8	263.2	12.00	12.00	0.00	
11,775.0	46.31	177.00	11,687.8	-227.5	657.7	280.8	12.00	12.00	0.00	
11,800.0	49.31	177.00	11,704.6	-246.0	658.7	299.3	12.00	12.00	0.00	
11,825.0	52.31	177.00	11,720.4	-265.3	659.7	318.7	12.00	12.00	0.00	
11,850.0	55.31	177.00	11,735.1	-285.5	660.8	338.8	12.00	12.00	0.00	
11,875.0	58.31	177.00	11,748.8	-306.4	661.9	359.7	12.00	12.00	0.00	
11,900.0	61.31	177.00	11,761.4	-327.9	663.0	381.3	12.00	12.00	0.00	
11,925.0	64.31	177.00	11,772.8	-350.1	664.2	403.6	12.00	12.00	0.00	
11,950.0	67.31	177.00	11,783.0	-372.9	665.4	426.4	12.00	12.00	0.00	
11,975.0	70.31	177.00	11,792.1	-396.2	666.6	449.7	12.00	12.00	0.00	
12,000.0	73.31	177.00	11,799.9	-419.9	667.8	473.4	12.00	12.00	0.00	
12,025.0	76.31	177.00	11,806.4	-444.0	669.1	497.5	12.00	12.00	0.00	
12,050.0	79.31	177.00	11,811.7	-468.4	670.4	521.9	12.00	12.00	0.00	
12,075.0	82.31	177.00	11,815.7	-493.0	671.6	546.6	12.00	12.00	0.00	
12,100.0	85.31	177.00	11,818.4	-517.9	672.9	571.4	12.00	12.00	0.00	
12,125.0	88.31	177.00	11,819.8	-542.8	674.3	596.4	12.00	12.00	0.00	
12,139.1	90.00	177.00	11,820.0	-556.8	675.0	610.4	12.00	12.00	0.00	
12,200.0	90.00	178.22	11,820.0	-617.7	677.5	671.3	2.00	0.00	2.00	
12,306.1	90.00	180.34	11,820.0	-723.8	678.9	777.2	2.00	0.00	2.00	
12,400.0	90.00	180.34	11,820.0	-817.7	678.3	870.7	0.00	0.00	0.00	
12,500.0	90.00	180.34	11,820.0	-917.7	677.7	970.3	0.00	0.00	0.00	
12,600.0	90.00	180.34	11,820.0	-1,017.7	677.1	1,069.9	0.00	0.00	0.00	
12,700.0	90.00	180.34	11,820.0	-1,117.7	676.5	1,169.5	0.00	0.00	0.00	
12,800.0	90.00	180.34	11,820.0	-1,217.7	675.9	1,269.1	0.00	0.00	0.00	
12,900.0	90.00	180.34	11,820.0	-1,317.7	675.3	1,368.8	0.00	0.00	0.00	
13,000.0	90.00	180.34	11,820.0	-1,417.7	674.7	1,468.4	0.00	0.00	0.00	
13,100.0	90.00	180.34	11,820.0	-1,517.7	674.1	1,568.0	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 #705H - Slot ZHU 2531 WC #705H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

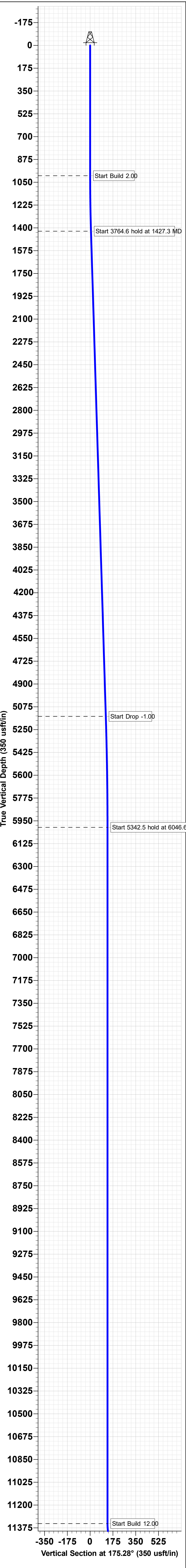
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,200.0	90.00	180.34	11,820.0	-1,617.7	673.5	1,667.6	0.00	0.00	0.00	
13,300.0	90.00	180.34	11,820.0	-1,717.7	672.9	1,767.2	0.00	0.00	0.00	
13,400.0	90.00	180.34	11,820.0	-1,817.7	672.4	1,866.8	0.00	0.00	0.00	
13,500.0	90.00	180.34	11,820.0	-1,917.7	671.8	1,966.4	0.00	0.00	0.00	
13,600.0	90.00	180.34	11,820.0	-2,017.7	671.2	2,066.0	0.00	0.00	0.00	
13,700.0	90.00	180.34	11,820.0	-2,117.7	670.6	2,165.6	0.00	0.00	0.00	
13,800.0	90.00	180.34	11,820.0	-2,217.7	670.0	2,265.2	0.00	0.00	0.00	
13,900.0	90.00	180.34	11,820.0	-2,317.7	669.4	2,364.9	0.00	0.00	0.00	
14,000.0	90.00	180.34	11,820.0	-2,417.7	668.8	2,464.5	0.00	0.00	0.00	
14,100.0	90.00	180.34	11,820.0	-2,517.7	668.2	2,564.1	0.00	0.00	0.00	
14,200.0	90.00	180.34	11,820.0	-2,617.7	667.6	2,663.7	0.00	0.00	0.00	
14,300.0	90.00	180.34	11,820.0	-2,717.7	667.0	2,763.3	0.00	0.00	0.00	
14,400.0	90.00	180.34	11,820.0	-2,817.7	666.4	2,862.9	0.00	0.00	0.00	
14,500.0	90.00	180.34	11,820.0	-2,917.6	665.8	2,962.5	0.00	0.00	0.00	
14,600.0	90.00	180.34	11,820.0	-3,017.6	665.2	3,062.1	0.00	0.00	0.00	
14,700.0	90.00	180.34	11,820.0	-3,117.6	664.6	3,161.7	0.00	0.00	0.00	
14,800.0	90.00	180.34	11,820.0	-3,217.6	664.0	3,261.4	0.00	0.00	0.00	
14,900.0	90.00	180.34	11,820.0	-3,317.6	663.4	3,361.0	0.00	0.00	0.00	
15,000.0	90.00	180.34	11,820.0	-3,417.6	662.8	3,460.6	0.00	0.00	0.00	
15,100.0	90.00	180.34	11,820.0	-3,517.6	662.2	3,560.2	0.00	0.00	0.00	
15,200.0	90.00	180.34	11,820.0	-3,617.6	661.6	3,659.8	0.00	0.00	0.00	
15,300.0	90.00	180.34	11,820.0	-3,717.6	661.0	3,759.4	0.00	0.00	0.00	
15,400.0	90.00	180.34	11,820.0	-3,817.6	660.4	3,859.0	0.00	0.00	0.00	
15,500.0	90.00	180.34	11,820.0	-3,917.6	659.8	3,958.6	0.00	0.00	0.00	
15,600.0	90.00	180.34	11,820.0	-4,017.6	659.3	4,058.2	0.00	0.00	0.00	
15,700.0	90.00	180.34	11,820.0	-4,117.6	658.7	4,157.8	0.00	0.00	0.00	
15,800.0	90.00	180.34	11,820.0	-4,217.6	658.1	4,257.5	0.00	0.00	0.00	
15,900.0	90.00	180.34	11,820.0	-4,317.6	657.5	4,357.1	0.00	0.00	0.00	
16,000.0	90.00	180.34	11,820.0	-4,417.6	656.9	4,456.7	0.00	0.00	0.00	
16,100.0	90.00	180.34	11,820.0	-4,517.6	656.3	4,556.3	0.00	0.00	0.00	
16,200.0	90.00	180.34	11,820.0	-4,617.6	655.7	4,655.9	0.00	0.00	0.00	
16,300.0	90.00	180.34	11,820.0	-4,717.6	655.1	4,755.5	0.00	0.00	0.00	
16,400.0	90.00	180.34	11,820.0	-4,817.6	654.5	4,855.1	0.00	0.00	0.00	
16,500.0	90.00	180.34	11,820.0	-4,917.6	653.9	4,954.7	0.00	0.00	0.00	
16,600.0	90.00	180.34	11,820.0	-5,017.6	653.3	5,054.3	0.00	0.00	0.00	
16,700.0	90.00	180.34	11,820.0	-5,117.6	652.7	5,154.0	0.00	0.00	0.00	
16,800.0	90.00	180.34	11,820.0	-5,217.6	652.1	5,253.6	0.00	0.00	0.00	
16,900.0	90.00	180.34	11,820.0	-5,317.6	651.5	5,353.2	0.00	0.00	0.00	
17,000.0	90.00	180.34	11,820.0	-5,417.6	650.9	5,452.8	0.00	0.00	0.00	
17,100.0	90.00	180.34	11,820.0	-5,517.6	650.3	5,552.4	0.00	0.00	0.00	
17,200.0	90.00	180.34	11,820.0	-5,617.6	649.7	5,652.0	0.00	0.00	0.00	
17,300.0	90.00	180.34	11,820.0	-5,717.6	649.1	5,751.6	0.00	0.00	0.00	
17,400.0	90.00	180.34	11,820.0	-5,817.6	648.5	5,851.2	0.00	0.00	0.00	
17,500.0	90.00	180.34	11,820.0	-5,917.6	647.9	5,950.8	0.00	0.00	0.00	
17,600.0	90.00	180.34	11,820.0	-6,017.6	647.3	6,050.4	0.00	0.00	0.00	
17,700.0	90.00	180.34	11,820.0	-6,117.6	646.7	6,150.1	0.00	0.00	0.00	
17,800.0	90.00	180.34	11,820.0	-6,217.6	646.2	6,249.7	0.00	0.00	0.00	
17,900.0	90.00	180.34	11,820.0	-6,317.6	645.6	6,349.3	0.00	0.00	0.00	
18,000.0	90.00	180.34	11,820.0	-6,417.6	645.0	6,448.9	0.00	0.00	0.00	
18,100.0	90.00	180.34	11,820.0	-6,517.6	644.4	6,548.5	0.00	0.00	0.00	
18,200.0	90.00	180.34	11,820.0	-6,617.6	643.8	6,648.1	0.00	0.00	0.00	
18,300.0	90.00	180.34	11,820.0	-6,717.6	643.2	6,747.7	0.00	0.00	0.00	
18,400.0	90.00	180.34	11,820.0	-6,817.6	642.6	6,847.3	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 #705H - Slot ZHU 2531 WC #705H
Company:	DELAWARE BASIN EAST	TVD Reference:	WELL @ 3200.0usft (Original Well Elev)
Project:	ZIA HILLS UNIT PROSPECT	MD Reference:	WELL @ 3200.0usft (Original Well Elev)
Site:	ZIA HILLS UNIT 2531 PROJECT	North Reference:	Grid
Well:	*ZIA HILLS UNIT 2531 WC #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

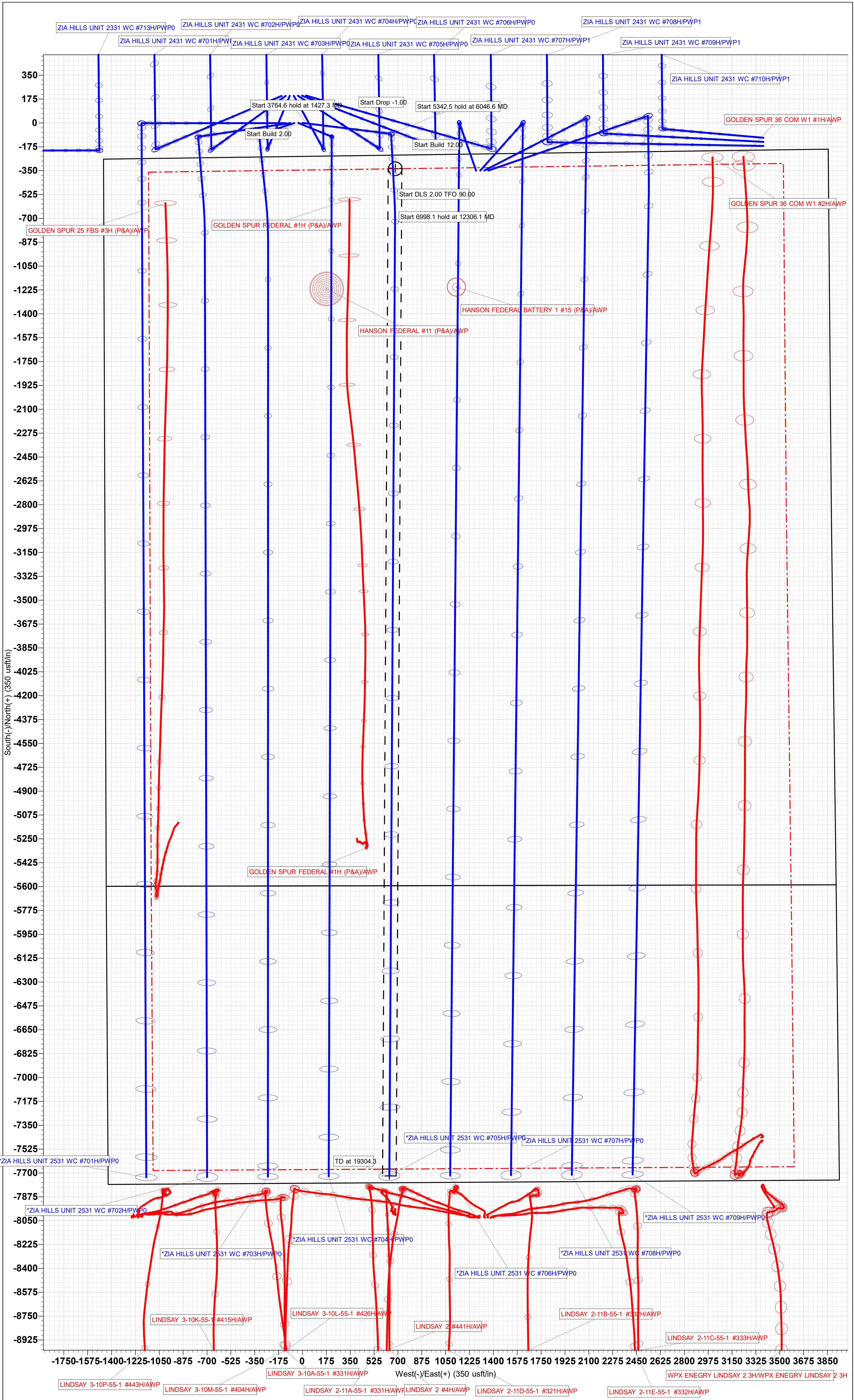
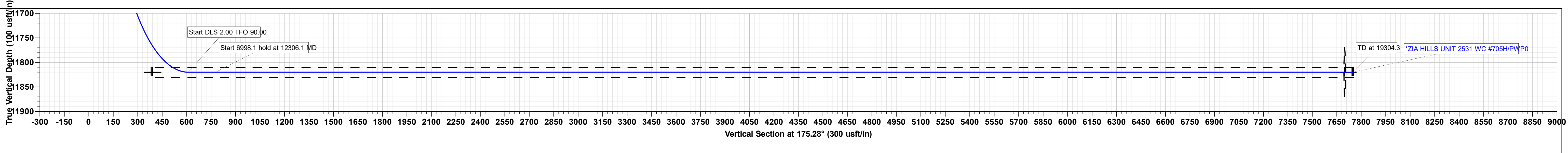
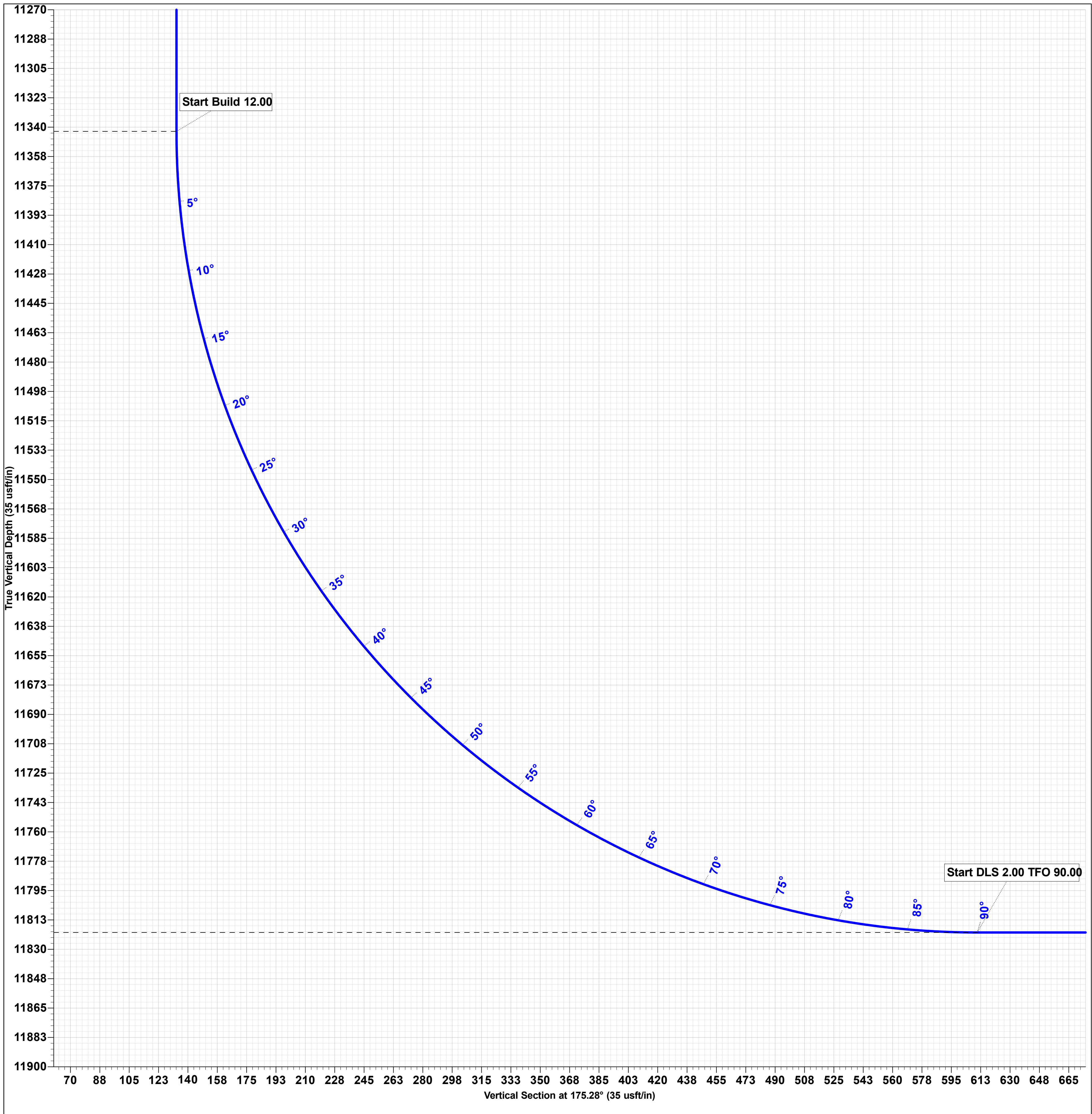
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	90.00	180.34	11,820.0	-6,917.6	642.0	6,946.9	0.00	0.00	0.00	
18,600.0	90.00	180.34	11,820.0	-7,017.6	641.4	7,046.6	0.00	0.00	0.00	
18,700.0	90.00	180.34	11,820.0	-7,117.6	640.8	7,146.2	0.00	0.00	0.00	
18,800.0	90.00	180.34	11,820.0	-7,217.6	640.2	7,245.8	0.00	0.00	0.00	
18,900.0	90.00	180.34	11,820.0	-7,317.6	639.6	7,345.4	0.00	0.00	0.00	
19,000.0	90.00	180.34	11,820.0	-7,417.6	639.0	7,445.0	0.00	0.00	0.00	
19,100.0	90.00	180.34	11,820.0	-7,517.6	638.4	7,544.6	0.00	0.00	0.00	
19,200.0	90.00	180.34	11,820.0	-7,617.6	637.8	7,644.2	0.00	0.00	0.00	
19,304.3	90.00	180.34	11,820.0	-7,721.8	637.2	7,748.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
FTP (ZHU 2531 WC #705H)	0.00	0.00	11,820.0	-336.1	680.6	371,708.54	686,124.60	32° 1' 13.869 N	103° 43' 58.052 W	
- plan misses target center by 51.3usft at 11932.3usft MD (11775.9 TVD, -356.8 N, 664.5 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #705H)	0.00	0.32	11,820.0	-7,721.8	637.2	364,322.81	686,081.17	32° 0' 0.781 N	103° 43' 59.033 W	
- plan hits target center										
- Rectangle (sides W100.0 H7,389.5 D20.0)										
LTP (ZHU 2531 WC #705H)	90.00	179.74	11,820.0	-7,671.8	636.9	364,372.80	686,080.87	32° 0' 1.275 N	103° 43' 59.033 W	
- plan misses target center by 0.6usft at 19254.3usft MD (11820.0 TVD, -7671.8 N, 637.5 E)										
- Circle (radius 50.0)										



Project: ZIA HILLS UNIT PROSPECT
Site: ZIA HILLS UNIT 2531 PROJECT
Well: *ZIA HILLS UNIT 2531 WC #705H
Wellbore: OWB
Design: PWP0

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
1427.3	8.55	97.02	1425.7	-3.9	31.6	2.00	97.02	6.5	
5191.9	8.55	97.02	5148.5	-72.2	586.9	0.00	0.00	120.2	
6046.6	0.00	0.00	6000.0	-80.0	650.0	1.00	180.00	133.2	
11389.1	0.00	0.00	11342.5	-80.0	650.0	0.00	0.00	133.2	
12139.1	90.00	177.00	11820.0	-556.8	675.0	12.00	177.00	610.4	
12306.1	90.00	180.34	11820.0	-723.8	678.9	2.00	90.00	777.2	
19304.3	90.00	180.34	11820.0	-7721.8	637.2	0.00	0.00	7748.1	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 705H
SURFACE HOLE FOOTAGE:	245'/S & 1460'/W
BOTTOM HOLE FOOTAGE:	50'/S & 2060'/W
LOCATION:	Section 24, T.26 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

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

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

Contingency Casing Design:

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

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

C. PRESSURE CONTROL

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

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

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

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

BOPE Break Testing Variance

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

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

Casing Clearance:

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

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

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

(575) 689-5981

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

- against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - v. The results of the test shall be reported to the appropriate BLM office.
 - vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
 - viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

JS 10/3/2024

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 430636

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 430636
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
stanwagner	Cement is required to circulate on both surface and intermediate1 strings of casing.	2/11/2025
stanwagner	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	2/11/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/21/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/21/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/21/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/21/2025