

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. 30-015-56232
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)



Approval Date: 02/05/2025

Additional Operator Remarks

Location of Well

0. SHL: SESW / 245 FSL / 1400 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0215768 / LONG: -103.7356514 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 1210 FWL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206241 / LONG: -103.7362622 (TVD: 11780 feet, MD: 11914 feet)

BHL: LOT 4 / 50 FSL / 1170 FWL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003409 / LONG: -103.7364146 (TVD: 11820 feet, MD: 19278 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- 56232	Pool Code 98081	Pool Name Zia Hills; Wolfcamp
Property Code 336586	Property Name ZIA HILLS UNIT 2531 WC	Well Number 703H
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 1,400' FWL	Latitude 32.021577°	Longitude -103.735651°	County EDDY
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Bottom Hole Location

UL LOT 4	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 50' FSL	Ft. from E/W 1,170' FWL	Latitude 32.000341°	Longitude -103.736415°	County EDDY
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Dedicated Acres 900	Infill or Defining Well Defining	Defining Well API	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 1,400' FWL	Latitude 32.021577°	Longitude -103.735651°	County EDDY
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First Take Point (FTP)

UL D	Section 25	Township 26S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1,210' FWL	Latitude 32.020624°	Longitude -103.736262°	County EDDY
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Last Take Point (LTP)

UL LOT 4	Section 36	Township 26S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1,170' FWL	Latitude 32.000478°	Longitude -103.736415°	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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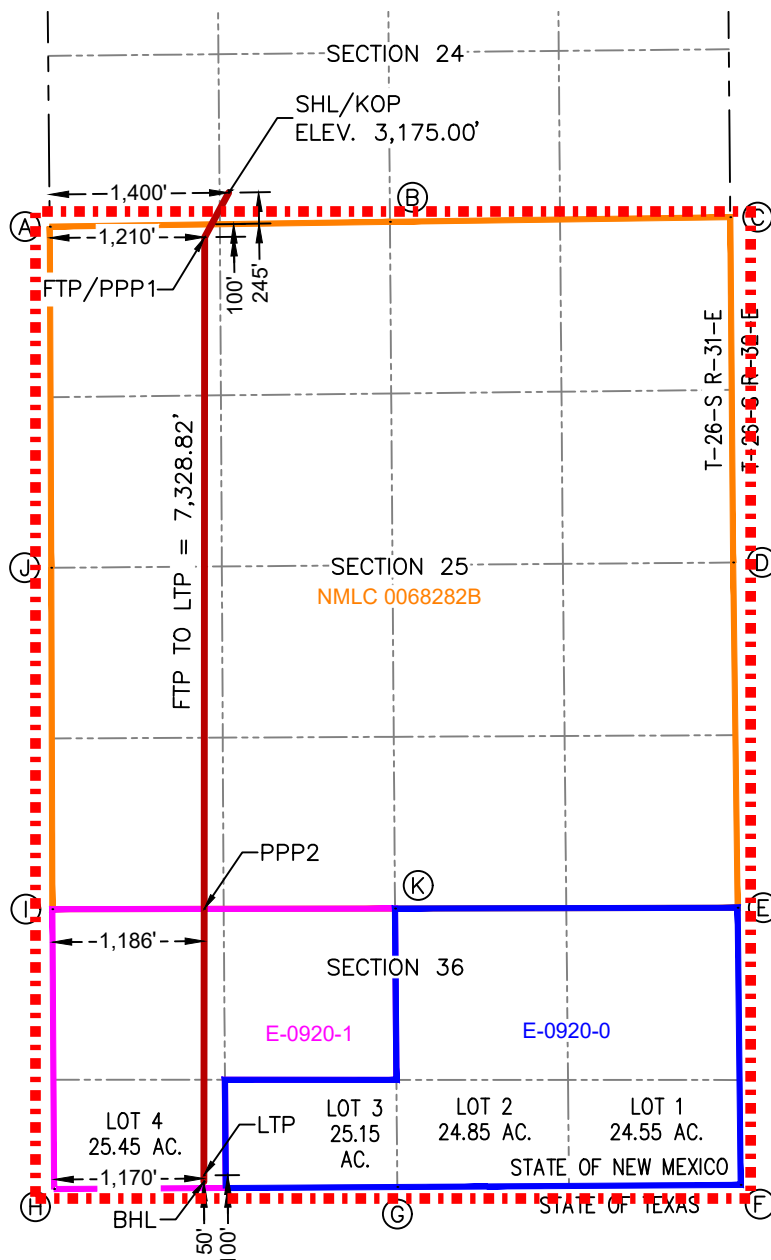
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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. 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 Stan Wagner		Signature and Seal of Professional Surveyor	
Printed Name		Certificate Number 12177	Date of Survey 11/21/2024
Email Address			

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

ACREAGE DEDICATION PLATS

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

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



**SURFACE HOLE LOCATION
& KICK-OFF POINT**
245' FSL & 1,400' FWL
ELEV.=3,175.00'

NAD 83 X = 726,569.82'
NAD 83 Y = 372,100.81'
NAD 83 LAT = 32.021577°
NAD 83 LONG = -103.735651°

**FIRST TAKE POINT &
PENETRATION POINT 1**
100' FNL & 1,210' FWL
NAD 83 X = 726,382.45'
NAD 83 Y = 371,753.18'
NAD 83 LAT = 32.020624°
NAD 83 LONG = -103.736262°

PENETRATION POINT 2
0' FNL & 1,186' FWL
NAD 83 X = 726,377.57'
NAD 83 Y = 366,506.14'
NAD 83 LAT = 32.006201°
NAD 83 LONG = -103.736371°

LAST TAKE POINT
100' FSL & 1,170' FWL
NAD 83 X = 726,375.63'
NAD 83 Y = 364,424.36'
NAD 83 LAT = 32.000478°
NAD 83 LONG = -103.736415°

BOTTOM HOLE LOCATION
50' FSL & 1,170' FWL
NAD 83 X = 726,375.96'
NAD 83 Y = 364,374.36'
NAD 83 LAT = 32.000341°
NAD 83 LONG = -103.736415°

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

Submit Electronically
Via E-permitting

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 703H

1. Geologic Formations

TVD of target	11,518' EOL	Pilot hole depth	NA
MD at TD:	19,278'	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	11200	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.21	1.93
6.75"	0	11000	5.5"	23	P110-CY	BTC	1.88	2.19	2.88	2.88
6.75"	11000	19,278	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	11200	7.625"	29.7	P110-ICY	W513	1.26	1.60	3.21	1.93
6.75"	0	11000	5.5"	23	P110-CY	BTC	1.88	2.19	2.88	2.88
6.75"	11000	19,278	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 703H

	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 703H

3. Cementing Program

Casing	# Skis	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	710	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	690	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	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	10,700'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Skis	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	10,950'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 703H

4. Pressure Control Equipment

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

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

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

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

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 703H

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 703H**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

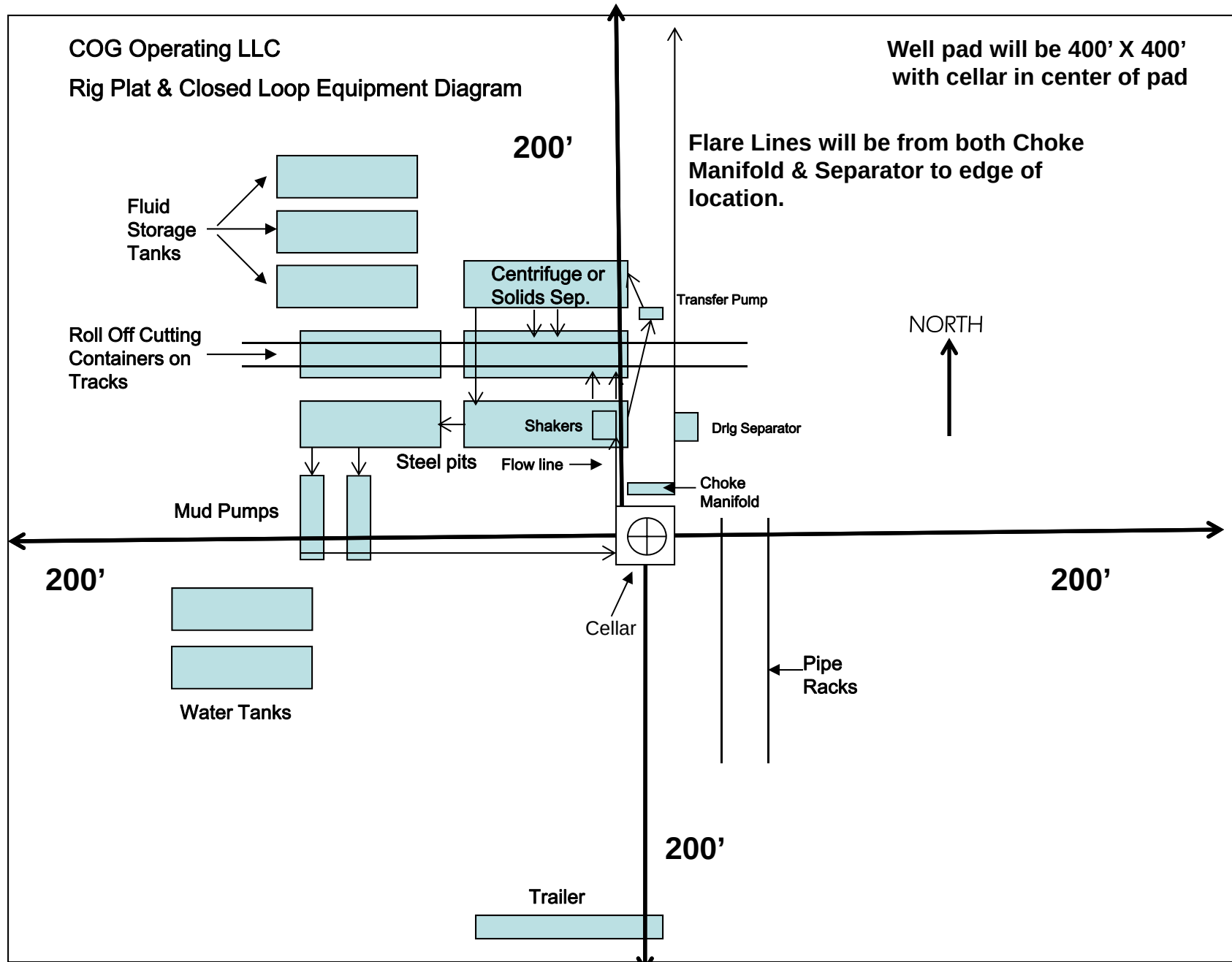


Exhibit 1

"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 #703H**

OWB

PWP0

Anticollision Report

10 August, 2023

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	2,665.4	2,666.1	203.4	188.6	13.695	CC
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	2,700.0	2,700.7	203.5	188.5	13.558	ES
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	3,500.0	3,492.4	245.1	223.8	11.491	SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	3,524.0	3,529.9	115.4	97.6	6.475	CC
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	3,600.0	3,605.2	115.9	97.5	6.325	ES
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	4,000.0	4,001.3	133.0	110.6	5.928	SF
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	11,403.0	11,435.3	61.0	28.6	1.881	Advise and Monitor, CC, ES
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	11,425.0	11,451.3	62.8	29.0	1.858	Advise and Monitor, SF
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,493.5	1,513.9	184.9	173.6	16.281	CC
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,500.0	1,520.3	184.9	173.5	16.254	ES
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	11,100.0	11,149.3	476.6	443.2	14.265	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,092.0	1,098.3	202.0	192.2	20.665	CC
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,200.0	1,208.9	202.3	192.1	19.930	ES
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,400.0	1,409.2	208.1	197.2	19.123	SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,000.0	1,003.1	208.6	199.1	21.970	CC
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,004.4	1,007.6	208.6	199.1	21.941	ES
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,300.0	1,302.2	217.9	207.4	20.753	SF
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	913.0	923.0	219.1	209.8	23.698	CC
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,000.0	1,009.9	219.1	209.6	23.089	ES
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,300.0	1,304.0	233.3	222.7	22.117	SF
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1						Out of range
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,300.0	1,293.8	60.6	49.0	5.208	ES
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	1,454.9	1,445.4	61.9	49.6	5.029	SF
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,300.0	1,296.9	30.5	18.9	2.627	ES
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,700.0	1,695.3	33.3	20.2	2.547	SF
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,000.0	1,000.0	30.0	19.8	2.934	CC, ES, SF
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC, ES, SF
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0						Out of range
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0						Out of range
*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	9,521.3	14,160.0	850.6	756.0	8.994	CC, ES
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,600.0	14,160.0	854.2	758.9	8.961	SF
GOLDEN SPUR FEDERAL #1H (P&A) - OWB - AWP						Out of range
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	9,039.6	13,450.0	815.1	722.6	8.812	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
STATE LINE OFFSETS						
LINDSAY 2 #441H - OWB - AWP	19,278.3	11,851.6	985.8	876.0	8.975	CC, ES, SF
LINDSAY 2 #4H - OWB - AWP	19,278.3	11,528.1	953.2	852.6	9.476	CC, ES, SF
LINDSAY 2-11A-55-1 #331H - OWB - AWP	19,278.3	10,813.0				Out of Range @TD
LINDSAY 2-11B-55-1 #332H - OWB - AWP	19,278.3	10,713.0				Out of Range @TD
LINDSAY 2-11D-55-1 #321H - OWB - AWP	19,278.3	9,958.0				Out of Range @TD
LINDSAY 3-100-55-1 #442H - OWB - AWP	19,278.3	11,657.2				Out of Range @TD
LINDSAY 3-10A-55-1 #331H - OWB - AWP	19,278.3	10,852.4				Out of Range @TD
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,278.3	11,490.6	658.4	566.3	7.153	CC, ES, SF
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,278.3	11,597.8	438.1	362.0	5.753	CC, ES, SF
LINDSAY 3-10M-55-1 #404H - OWB - AWP	19,278.3	11,425.1	665.7	584.2	8.163	CC, ES, SF
LINDSAY 3-10P-55-1 #443H - OWB - AWP	19,278.3	11,680.1	793.1	686.5	7.437	CC, ES, SF
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #711H - OWB - PWP0	19,278.3	11,025.0				Out of Range @TD
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	19,278.3	11,225.0				Out of Range @TD
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	19,278.3	11,100.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	19,278.3	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	19,278.3	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,278.3	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,278.3	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,278.3	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,278.3	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,278.3	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #708H - OWB - PWP1	19,278.3	11,375.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0	19,278.3	19,447.0	892.0	737.9	5.790	
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	19,278.3	19,123.4	477.4	321.0	3.052	
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	19,278.3	19,086.5	477.3	330.4	3.249	
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	19,278.3	19,304.3	890.6	739.3	5.886	
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,278.3	19,188.8				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,278.3	19,363.6				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	19,278.3	19,267.3				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	19,278.3	19,502.3				Out of Range @TD
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	19,278.3	9,317.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - OWB - AWP	19,278.3	9,200.0				Out of Range @TD
GOLDEN SPUR FEDERAL #1H (P&A) - ST01 - AWP	19,278.3	8,876.0				Out of Range @TD
HANSON FEDERAL #11 (P&A) - OWB - AWP	19,278.3	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
Measured	Vertical	Measured	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,278.3	11,820.0	11,851.6	11,863.5	75.5	23.9	-92.57	-7,898.8	776.3	985.8	876.0	109.84	8.975	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design:	STATE LINE OFFSETS - LINDSAY 2 #4H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	25-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)					
19,200.0	11,820.0	11,507.0	11,535.0	74.8	14.9	-71.92	-7,983.2	679.6	977.6	879.9	97.70	10.006	
19,278.3	11,820.0	11,528.1	11,551.3	75.5	14.9	-72.91	-7,996.5	680.4	953.2	852.6	100.60	9.476 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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 3-10K-55-1 #415H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	31-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)		Reference	Offset	Between Centres (usft)	Between Ellipses (usft)					
18,800.0	11,820.0	11,320.6	11,302.4		71.0	22.0	36.57	-7,981.5	-577.4	976.4	903.4	73.04	13.368
18,900.0	11,820.0	11,347.0	11,323.6		72.0	22.1	37.68	-7,997.3	-576.7	902.7	826.1	76.60	11.785
19,000.0	11,820.0	11,381.3	11,350.4		72.9	22.1	39.16	-8,018.8	-575.8	832.2	752.0	80.25	10.370
19,100.0	11,820.0	11,414.5	11,375.2		73.8	22.2	40.62	-8,040.8	-575.0	765.7	681.3	84.43	9.069
19,200.0	11,820.0	11,441.0	11,394.3		74.8	22.2	41.82	-8,059.2	-574.3	703.9	614.4	89.46	7.867
19,278.3	11,820.0	11,490.6	11,428.2		75.5	22.3	44.07	-8,095.2	-572.7	658.4	566.3	92.04	7.153 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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	Rule Assigned:												
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,600.0	11,820.0	11,380.5	11,344.7	69.2	29.1	1.71	-7,918.3	-207.6	991.7	931.5	60.24	16.463	
18,700.0	11,820.0	11,402.2	11,363.5	70.1	29.1	1.67	-7,929.0	-206.7	904.6	842.6	62.00	14.592	
18,800.0	11,820.0	11,440.0	11,395.6	71.0	29.1	1.59	-7,948.9	-205.2	819.4	756.1	63.25	12.954	
18,900.0	11,820.0	11,440.0	11,395.6	72.0	29.1	1.59	-7,948.9	-205.2	735.7	668.7	66.99	10.981	
19,000.0	11,820.0	11,489.7	11,436.5	72.9	29.1	1.35	-7,977.1	-202.5	653.5	585.3	68.18	9.585	
19,100.0	11,820.0	11,535.0	11,472.4	73.8	29.2	0.91	-8,004.4	-198.9	573.7	503.7	69.92	8.204	
19,200.0	11,820.0	11,565.6	11,495.9	74.8	29.2	0.48	-8,023.8	-196.2	496.3	422.7	73.51	6.751	
19,278.3	11,820.0	11,597.8	11,519.7	75.5	29.3	-0.05	-8,045.3	-193.2	438.1	362.0	76.16	5.753 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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 3-10M-55-1 #404H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	137-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
18,900.0	11,820.0	11,299.7	11,223.6	72.0	29.2	-9.58	-8,054.9	-92.7	930.3	860.0	70.30	13.234	
19,000.0	11,820.0	11,346.0	11,258.3	72.9	29.3	-10.51	-8,085.4	-89.2	855.9	783.8	72.10	11.871	
19,100.0	11,820.0	11,361.8	11,269.7	73.8	29.3	-10.85	-8,096.3	-88.0	783.9	708.2	75.78	10.344	
19,200.0	11,820.0	11,391.0	11,289.9	74.8	29.4	-11.50	-8,117.2	-85.6	716.0	636.8	79.23	9.038	
19,278.3	11,820.0	11,425.1	11,312.4	75.5	29.4	-12.28	-8,142.7	-83.0	665.7	584.2	81.56	8.163 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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 3-10P-55-1 #443H - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program:	184-r.5 MWD											Offset Well Error:	3.0 usft
Reference	Rule Assigned:												
Measured	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,800.0	11,820.0	11,619.0	11,665.6	71.0	15.6	78.69	-7,853.7	-965.4	993.4	909.0	84.38	11.772	
18,900.0	11,820.0	11,619.0	11,665.6	72.0	15.6	78.69	-7,853.7	-965.4	935.8	846.1	89.62	10.441	
19,000.0	11,820.0	11,619.0	11,665.6	72.9	15.6	78.69	-7,853.7	-965.4	885.7	790.8	94.94	9.330	
19,100.0	11,820.0	11,646.5	11,691.5	73.8	15.9	80.55	-7,862.6	-965.5	843.6	744.0	99.55	8.474	
19,200.0	11,820.0	11,663.7	11,707.5	74.8	16.1	81.72	-7,869.1	-965.7	811.2	707.3	103.87	7.810	
19,278.3	11,820.0	11,680.1	11,722.4	75.5	16.3	82.80	-7,875.9	-966.1	793.1	686.5	106.65	7.437 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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.2	0.0	3.0	3.0	-25.16		198.7	-93.3	219.6	213.1	6.43	34.151	
100.0	100.0	102.2	100.0	3.2	3.1	-25.16		198.7	-93.3	219.6	212.8	6.72	32.685	
200.0	200.0	202.2	200.0	3.5	3.2	-25.16		198.7	-93.3	219.6	212.5	7.06	31.088	
300.0	300.0	302.2	300.0	3.7	3.3	-25.16		198.7	-93.3	219.6	212.2	7.39	29.691	
400.0	400.0	402.2	400.0	3.9	3.4	-25.16		198.7	-93.3	219.6	211.8	7.72	28.454	
500.0	500.0	502.2	500.0	4.1	3.6	-25.16		198.7	-93.3	219.6	211.5	8.03	27.348	
600.0	600.0	602.2	600.0	4.2	3.7	-25.16		198.7	-93.3	219.6	211.2	8.33	26.350	
700.0	700.0	702.2	700.0	4.4	3.8	-25.16		198.7	-93.3	219.6	210.9	8.63	25.445	
800.0	800.0	802.2	800.0	4.6	3.9	-25.16		198.7	-93.3	219.6	210.6	8.92	24.617	
900.0	900.0	902.2	900.0	4.8	4.0	-25.16		198.7	-93.3	219.6	210.3	9.20	23.857	
965.9	965.9	968.1	965.9	4.9	4.1	-25.16		198.7	-93.3	219.6	210.2	9.39	23.392	
1,000.0	1,000.0	1,002.2	1,000.0	4.9	4.2	-25.16		198.7	-93.3	219.6	210.1	9.48	23.156	
1,100.0	1,100.0	1,102.0	1,099.8	5.2	4.3	83.17		198.2	-94.6	219.4	209.7	9.74	22.536	
1,200.0	1,199.8	1,201.8	1,199.5	5.4	4.5	83.50		196.6	-98.3	218.9	208.9	10.04	21.807	
1,300.0	1,299.5	1,301.6	1,299.1	5.7	4.7	84.06		194.1	-104.3	218.1	207.8	10.34	21.099	
1,400.0	1,398.7	1,401.5	1,398.5	6.0	5.0	84.86		190.5	-112.8	217.1	206.4	10.64	20.410	
1,454.9	1,453.0	1,456.4	1,453.1	6.1	5.1	85.40		188.1	-118.4	216.4	205.6	10.76	20.114	
1,500.0	1,497.5	1,501.4	1,497.8	6.1	5.3	85.80		185.9	-123.6	215.8	205.0	10.86	19.881	
1,600.0	1,596.3	1,601.5	1,596.8	6.4	5.6	86.17		180.3	-136.8	214.5	203.4	11.16	19.224	
1,700.0	1,695.0	1,701.5	1,695.4	6.7	5.9	85.85		173.6	-152.5	213.2	201.7	11.47	18.594	
1,800.0	1,793.7	1,801.5	1,793.5	6.9	6.2	84.97		166.2	-169.9	211.9	200.2	11.72	18.084	
1,900.0	1,892.5	1,901.4	1,891.6	7.2	6.5	84.06		158.8	-187.5	210.6	198.6	12.04	17.494	
2,000.0	1,991.2	2,001.3	1,989.7	7.6	6.9	83.13		151.3	-205.0	209.4	197.0	12.37	16.929	
2,100.0	2,090.0	2,101.3	2,087.8	7.9	7.3	82.19		143.9	-222.6	208.2	195.5	12.71	16.388	
2,200.0	2,188.7	2,201.2	2,185.9	8.2	7.6	81.24		136.4	-240.1	207.1	194.1	13.05	15.869	
2,300.0	2,287.5	2,301.1	2,284.0	8.6	8.0	80.28		129.0	-257.7	206.1	192.7	13.41	15.371	
2,400.0	2,386.2	2,401.1	2,382.1	8.9	8.4	79.31		121.5	-275.2	205.1	191.3	13.77	14.891	
2,488.9	2,473.9	2,489.9	2,469.3	9.3	8.8	78.44		114.9	-290.8	204.3	190.2	14.09	14.495	
2,500.0	2,484.9	2,501.0	2,480.2	9.3	8.8	78.32		114.1	-292.8	204.2	190.1	14.13	14.454	
2,600.0	2,583.8	2,600.9	2,578.3	9.7	9.2	77.04		106.6	-310.3	203.6	189.0	14.58	13.962	
2,665.4	2,648.6	2,666.1	2,642.3	9.9	9.5	75.94		101.8	-321.8	203.4	188.6	14.85	13.695 CC	
2,700.0	2,683.0	2,700.7	2,676.2	10.1	9.6	75.28		99.2	-327.9	203.5	188.5	15.01	13.558 ES	
2,800.0	2,782.4	2,800.4	2,774.1	10.4	10.1	73.06		91.7	-345.4	204.1	188.6	15.48	13.179	
2,900.0	2,881.9	2,899.9	2,871.8	10.8	10.5	70.41		84.3	-362.8	205.6	189.5	16.03	12.826	
3,000.0	2,981.6	2,999.3	2,969.3	11.1	10.9	67.38		76.9	-380.3	208.2	191.5	16.65	12.501	
3,100.0	3,081.4	3,098.4	3,066.6	11.4	11.3	64.03		69.5	-397.7	212.1	194.7	17.37	12.209	
3,200.0	3,181.3	3,197.3	3,163.7	11.8	11.8	60.44		62.2	-415.1	217.6	199.4	18.19	11.962	
3,300.0	3,281.3	3,295.9	3,260.5	12.0	12.2	56.70		54.8	-432.4	224.9	205.8	19.10	11.776	
3,398.7	3,380.0	3,393.0	3,355.8	12.2	12.6	-55.30		47.6	-449.5	234.1	214.1	20.02	11.693	
3,400.0	3,381.3	3,394.2	3,357.0	12.2	12.6	-55.35		47.5	-449.7	234.2	214.2	20.03	11.693	
3,500.0	3,481.3	3,492.4	3,453.4	12.6	13.1	-59.08		40.2	-466.9	245.1	223.8	21.33	11.491 SF	
3,600.0	3,581.3	3,590.6	3,549.7	12.6	13.5	-62.48		32.8	-484.2	256.9	234.7	22.21	11.570	
3,700.0	3,681.3	3,688.7	3,646.1	12.7	13.9	-65.58		25.5	-501.4	269.6	246.5	23.06	11.690	
3,800.0	3,781.3	3,786.9	3,742.5	12.8	14.4	-68.40		18.2	-518.6	283.0	259.1	23.89	11.843	
3,900.0	3,881.3	3,885.1	3,838.8	12.8	14.8	-70.96		10.9	-535.9	297.0	272.3	24.70	12.023	
4,000.0	3,981.3	3,983.2	3,935.2	12.9	15.2	-73.30		3.6	-553.1	311.5	286.1	25.49	12.223	
4,100.0	4,081.3	4,081.4	4,031.5	13.0	15.7	-75.42		-3.8	-570.4	326.6	300.3	26.25	12.438	
4,200.0	4,181.3	4,179.5	4,127.9	13.0	16.1	-77.36		-11.1	-587.6	342.0	315.0	27.00	12.665	
4,300.0	4,281.3	4,277.7	4,224.3	13.1	16.6	-79.13		-18.4	-604.8	357.7	330.0	27.73	12.901	
4,400.0	4,381.3	4,375.9	4,320.6	13.1	17.0	-80.75		-25.7	-622.1	373.8	345.4	28.45	13.141	
4,500.0	4,481.3	4,474.0	4,417.0	13.2	17.4	-82.24		-33.0	-639.3	390.2	361.0	29.15	13.385	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
4,600.0	4,581.3	4,572.2	4,513.3	13.3	17.9	-83.61	-40.4	-656.6	406.8	376.9	29.84	13.630	
4,700.0	4,681.3	4,670.4	4,609.7	13.3	18.3	-84.87	-47.7	-673.8	423.6	393.0	30.53	13.876	
4,800.0	4,781.3	4,768.5	4,706.1	13.4	18.8	-86.04	-55.0	-691.0	440.6	409.4	31.20	14.119	
4,900.0	4,881.3	4,866.7	4,802.4	13.5	19.2	-87.12	-62.3	-708.3	457.7	425.8	31.87	14.361	
5,000.0	4,981.3	4,964.8	4,898.8	13.5	19.7	-88.12	-69.6	-725.5	475.0	442.5	32.53	14.600	
5,100.0	5,081.3	5,063.0	4,995.1	13.6	20.1	-89.05	-76.9	-742.8	492.4	459.2	33.19	14.835	
5,200.0	5,181.3	5,161.2	5,091.5	13.6	20.6	-89.92	-84.3	-760.0	510.0	476.1	33.85	15.067	
5,300.0	5,281.3	5,259.3	5,187.9	13.7	21.0	-90.73	-91.6	-777.3	527.6	493.1	34.50	15.294	
5,400.0	5,381.3	5,357.5	5,284.2	13.8	21.5	-91.48	-98.9	-794.5	545.4	510.2	35.15	15.517	
5,500.0	5,481.3	5,455.7	5,380.6	13.8	21.9	-92.19	-106.2	-811.7	563.2	527.4	35.79	15.735	
5,600.0	5,581.3	5,555.4	5,478.5	13.9	22.4	-92.87	-113.6	-829.2	581.1	544.7	36.44	15.948	
5,700.0	5,681.3	5,658.7	5,580.1	14.0	22.8	-93.50	-121.0	-846.7	598.4	561.3	37.10	16.129	
5,800.0	5,781.3	5,762.4	5,682.1	14.0	23.3	-94.07	-128.1	-863.3	614.9	577.2	37.76	16.286	
5,900.0	5,881.3	5,866.4	5,784.7	14.1	23.8	-94.59	-134.9	-879.2	630.6	592.2	38.40	16.422	
6,000.0	5,981.3	5,970.6	5,887.7	14.2	24.2	-95.05	-141.2	-894.2	645.5	606.5	39.04	16.537	
6,100.0	6,081.3	6,075.2	5,991.1	14.2	24.7	-95.47	-147.3	-908.5	659.6	620.0	39.66	16.633	
6,200.0	6,181.3	6,180.1	6,094.9	14.3	25.1	-95.85	-153.0	-921.8	672.9	632.6	40.27	16.709	
6,300.0	6,281.3	6,285.2	6,199.2	14.4	25.6	-96.18	-158.3	-934.4	685.3	644.4	40.87	16.768	
6,400.0	6,381.3	6,390.6	6,303.8	14.4	26.0	-96.49	-163.2	-946.1	696.8	655.4	41.45	16.810	
6,500.0	6,481.3	6,496.2	6,408.7	14.5	26.4	-96.76	-167.8	-956.9	707.5	665.5	42.03	16.835	
6,600.0	6,581.3	6,602.0	6,513.9	14.6	26.9	-97.00	-172.1	-966.9	717.3	674.8	42.59	16.845	
6,700.0	6,681.3	6,707.9	6,619.5	14.6	27.3	-97.22	-175.9	-975.9	726.3	683.2	43.13	16.840	
6,800.0	6,781.3	6,814.1	6,725.3	14.7	27.7	-97.41	-179.4	-984.1	734.4	690.7	43.66	16.821	
6,900.0	6,881.3	6,920.4	6,831.3	14.8	28.1	-97.57	-182.5	-991.4	741.5	697.4	44.17	16.789	
7,000.0	6,981.3	7,026.9	6,937.5	14.8	28.5	-97.71	-185.2	-997.8	747.8	703.2	44.66	16.745	
7,100.0	7,081.3	7,133.5	7,043.9	14.9	28.8	-97.83	-187.5	-1,003.3	753.2	708.1	45.13	16.689	
7,200.0	7,181.3	7,240.1	7,150.5	15.0	29.2	-97.93	-189.5	-1,007.9	757.8	712.2	45.58	16.624	
7,300.0	7,281.3	7,346.9	7,257.2	15.0	29.5	-98.01	-191.0	-1,011.6	761.4	715.4	46.01	16.549	
7,400.0	7,381.3	7,453.7	7,364.0	15.1	29.9	-98.07	-192.2	-1,014.3	764.1	717.7	46.40	16.467	
7,500.0	7,481.3	7,560.6	7,470.8	15.2	30.2	-98.11	-193.0	-1,016.2	765.9	719.1	46.75	16.381	
7,600.0	7,581.3	7,667.5	7,577.7	15.2	30.4	-98.13	-193.4	-1,017.1	766.8	719.8	47.05	16.299	
7,700.0	7,681.3	7,771.1	7,681.3	15.3	30.5	-98.13	-193.4	-1,017.2	766.9	719.7	47.17	16.257	
7,800.0	7,781.3	7,871.1	7,781.3	15.4	30.5	-98.13	-193.4	-1,017.2	766.9	719.7	47.24	16.235	
7,900.0	7,881.3	7,971.1	7,881.3	15.4	30.5	-98.13	-193.4	-1,017.2	766.9	719.6	47.31	16.212	
8,000.0	7,981.3	8,071.1	7,981.3	15.5	30.5	-98.13	-193.4	-1,017.2	766.9	719.5	47.37	16.189	
8,100.0	8,081.3	8,171.1	8,081.3	15.6	30.6	-98.13	-193.4	-1,017.2	766.9	719.5	47.44	16.166	
8,200.0	8,181.3	8,271.1	8,181.3	15.6	30.6	-98.13	-193.4	-1,017.2	766.9	719.4	47.51	16.143	
8,300.0	8,281.3	8,371.1	8,281.3	15.7	30.6	-98.13	-193.4	-1,017.2	766.9	719.3	47.58	16.119	
8,400.0	8,381.3	8,471.1	8,381.3	15.8	30.6	-98.13	-193.4	-1,017.2	766.9	719.3	47.65	16.096	
8,500.0	8,481.3	8,571.1	8,481.3	15.9	30.6	-98.13	-193.4	-1,017.2	766.9	719.2	47.72	16.073	
8,600.0	8,581.3	8,671.1	8,581.3	15.9	30.7	-98.13	-193.4	-1,017.2	766.9	719.1	47.79	16.049	
8,700.0	8,681.3	8,771.1	8,681.3	16.0	30.7	-98.13	-193.4	-1,017.2	766.9	719.1	47.86	16.025	
8,800.0	8,781.3	8,871.1	8,781.3	16.1	30.7	-98.13	-193.4	-1,017.2	766.9	719.0	47.93	16.002	
8,900.0	8,881.3	8,971.1	8,881.3	16.1	30.7	-98.13	-193.4	-1,017.2	766.9	718.9	48.00	15.978	
9,000.0	8,981.3	9,071.1	8,981.3	16.2	30.7	-98.13	-193.4	-1,017.2	766.9	718.8	48.07	15.954	
9,100.0	9,081.3	9,171.1	9,081.3	16.3	30.8	-98.13	-193.4	-1,017.2	766.9	718.8	48.14	15.930	
9,200.0	9,181.3	9,271.1	9,181.3	16.3	30.8	-98.13	-193.4	-1,017.2	766.9	718.7	48.21	15.906	
9,300.0	9,281.3	9,371.1	9,281.3	16.4	30.8	-98.13	-193.4	-1,017.2	766.9	718.6	48.29	15.882	
9,400.0	9,381.3	9,471.1	9,381.3	16.5	30.8	-98.13	-193.4	-1,017.2	766.9	718.6	48.36	15.858	
9,500.0	9,481.3	9,571.1	9,481.3	16.5	30.9	-98.13	-193.4	-1,017.2	766.9	718.5	48.43	15.834	
9,600.0	9,581.3	9,671.1	9,581.3	16.6	30.9	-98.13	-193.4	-1,017.2	766.9	718.4	48.51	15.810	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	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
9,700.0	9,681.3	9,771.1	9,681.3	16.7	30.9	-98.13	-193.4	-1,017.2	766.9	718.3	48.58	15.786
9,800.0	9,781.3	9,871.1	9,781.3	16.8	30.9	-98.13	-193.4	-1,017.2	766.9	718.3	48.66	15.761
9,900.0	9,881.3	9,971.1	9,881.3	16.8	30.9	-98.13	-193.4	-1,017.2	766.9	718.2	48.73	15.737
10,000.0	9,981.3	10,071.1	9,981.3	16.9	31.0	-98.13	-193.4	-1,017.2	766.9	718.1	48.81	15.712
10,100.0	10,081.3	10,171.1	10,081.3	17.0	31.0	-98.13	-193.4	-1,017.2	766.9	718.0	48.89	15.688
10,200.0	10,181.3	10,271.1	10,181.3	17.0	31.0	-98.13	-193.4	-1,017.2	766.9	718.0	48.96	15.663
10,300.0	10,281.3	10,371.1	10,281.3	17.1	31.0	-98.13	-193.4	-1,017.2	766.9	717.9	49.04	15.639
10,400.0	10,381.3	10,471.1	10,381.3	17.2	31.1	-98.13	-193.4	-1,017.2	766.9	717.8	49.12	15.614
10,500.0	10,481.3	10,571.1	10,481.3	17.3	31.1	-98.13	-193.4	-1,017.2	766.9	717.7	49.20	15.589
10,600.0	10,581.3	10,671.1	10,581.3	17.3	31.1	-98.13	-193.4	-1,017.2	766.9	717.6	49.27	15.564
10,700.0	10,681.3	10,771.1	10,681.3	17.4	31.1	-98.13	-193.4	-1,017.2	766.9	717.6	49.35	15.539
10,800.0	10,781.3	10,871.1	10,781.3	17.5	31.2	-98.13	-193.4	-1,017.2	766.9	717.5	49.43	15.515
10,900.0	10,881.3	10,971.1	10,881.3	17.5	31.2	-98.13	-193.4	-1,017.2	766.9	717.4	49.51	15.490
11,000.0	10,981.3	11,071.1	10,981.3	17.6	31.2	-98.13	-193.4	-1,017.2	766.9	717.3	49.59	15.465
11,100.0	11,081.3	11,176.5	11,086.7	17.7	31.2	-98.06	-192.5	-1,017.2	766.8	717.2	49.62	15.454
11,200.0	11,181.3	11,294.0	11,202.5	17.8	31.3	-96.69	-174.1	-1,017.4	765.0	715.6	49.40	15.486
11,300.0	11,281.3	11,400.0	11,301.8	17.8	31.3	-93.95	-137.5	-1,017.9	762.0	712.9	49.05	15.536
11,361.2	11,342.5	11,457.2	11,352.1	17.9	31.3	-91.90	-110.3	-1,018.2	760.7	711.9	48.79	15.590
11,375.0	11,356.3	11,469.1	11,362.2	17.9	31.3	94.59	-104.0	-1,018.3	760.6	711.9	48.73	15.608
11,384.3	11,365.6	11,476.9	11,368.8	17.9	31.3	94.93	-99.8	-1,018.4	760.6	711.9	48.68	15.623
11,400.0	11,381.2	11,489.3	11,379.1	17.9	31.3	95.49	-92.9	-1,018.5	760.6	712.0	48.60	15.651
11,425.0	11,406.1	11,507.6	11,394.0	17.9	31.3	96.35	-82.3	-1,018.6	761.2	712.7	48.46	15.706
11,450.0	11,430.8	11,524.1	11,407.2	17.9	31.3	97.11	-72.3	-1,018.7	762.2	713.9	48.32	15.775
11,475.0	11,455.2	11,538.7	11,418.5	17.9	31.3	97.76	-63.2	-1,018.8	763.9	715.8	48.16	15.861
11,500.0	11,479.3	11,550.0	11,427.2	17.9	31.3	98.17	-55.9	-1,018.9	766.3	718.3	48.03	15.957
11,525.0	11,503.1	11,562.5	11,436.6	17.9	31.3	98.58	-47.7	-1,019.0	769.5	721.7	47.84	16.086
11,550.0	11,526.4	11,571.9	11,443.6	17.9	31.3	98.73	-41.4	-1,019.1	773.6	725.9	47.67	16.228
11,575.0	11,549.2	11,579.7	11,449.3	17.9	31.3	98.68	-36.0	-1,019.2	778.5	731.0	47.50	16.390
11,600.0	11,571.4	11,586.2	11,453.9	18.0	31.3	98.43	-31.6	-1,019.2	784.2	736.9	47.32	16.573
11,625.0	11,593.0	11,591.2	11,457.6	18.0	31.3	97.98	-28.0	-1,019.3	790.9	743.7	47.14	16.778
11,650.0	11,614.0	11,600.0	11,463.8	18.0	31.3	97.69	-21.8	-1,019.3	798.4	751.6	46.87	17.036
11,675.0	11,634.2	11,600.0	11,463.8	18.0	31.3	96.64	-21.8	-1,019.3	806.8	760.0	46.73	17.263
11,700.0	11,653.5	11,600.0	11,463.8	18.0	31.3	95.47	-21.8	-1,019.3	815.9	769.3	46.58	17.517
11,725.0	11,672.1	11,600.0	11,463.8	18.1	31.3	94.17	-21.8	-1,019.3	825.9	779.4	46.40	17.797
11,750.0	11,689.7	11,600.0	11,463.8	18.1	31.3	92.76	-21.8	-1,019.3	836.5	790.3	46.21	18.100
11,775.0	11,706.4	11,600.0	11,463.8	18.1	31.3	91.24	-21.8	-1,019.3	847.8	801.8	46.01	18.427
11,800.0	11,722.1	11,600.0	11,463.8	18.1	31.3	89.62	-21.8	-1,019.3	859.7	813.9	45.79	18.776
11,825.0	11,736.7	11,600.0	11,463.8	18.2	31.3	87.89	-21.8	-1,019.3	872.2	826.6	45.55	19.146
11,850.0	11,750.3	11,600.0	11,463.8	18.2	31.3	86.08	-21.8	-1,019.3	885.1	839.8	45.31	19.535
11,875.0	11,762.7	11,588.3	11,455.5	18.2	31.3	83.35	-30.1	-1,019.2	898.4	853.1	45.27	19.844
11,900.0	11,774.0	11,584.2	11,452.6	18.3	31.3	81.12	-32.9	-1,019.2	912.0	866.9	45.08	20.230
11,925.0	11,784.1	11,579.6	11,449.2	18.3	31.3	78.83	-36.1	-1,019.2	925.9	881.0	44.89	20.626
11,950.0	11,793.0	11,574.6	11,445.5	18.3	31.3	76.49	-39.6	-1,019.1	940.0	895.3	44.70	21.030
11,975.0	11,800.7	11,569.1	11,441.5	18.4	31.3	74.13	-43.3	-1,019.1	954.3	909.8	44.51	21.441
12,000.0	11,807.1	11,563.2	11,437.2	18.4	31.3	71.76	-47.2	-1,019.0	968.6	924.3	44.32	21.857
12,025.0	11,812.2	11,550.0	11,427.2	18.4	31.3	69.03	-55.9	-1,018.9	983.1	938.8	44.25	22.217
12,050.0	11,816.0	11,550.0	11,427.2	18.5	31.3	67.09	-55.9	-1,018.9	997.3	953.4	43.94	22.698

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	2.6	0.0	3.0	3.0	-17.66	199.0	-63.4	208.9	202.4	6.43	32.489		
100.0	100.0	102.6	100.0	3.2	3.1	-17.66	199.0	-63.4	208.9	202.1	6.72	31.093		
200.0	200.0	202.6	200.0	3.5	3.2	-17.66	199.0	-63.4	208.9	201.8	7.06	29.572		
300.0	300.0	302.6	300.0	3.7	3.3	-17.66	199.0	-63.4	208.9	201.5	7.40	28.240		
400.0	400.0	402.6	400.0	3.9	3.4	-17.66	199.0	-63.4	208.9	201.1	7.72	27.060		
500.0	500.0	502.6	500.0	4.1	3.6	-17.66	199.0	-63.4	208.9	200.8	8.03	26.005		
600.0	600.0	602.6	600.0	4.2	3.7	-17.66	199.0	-63.4	208.9	200.5	8.34	25.053		
700.0	700.0	702.6	700.0	4.4	3.8	-17.66	199.0	-63.4	208.9	200.2	8.64	24.188		
800.0	800.0	802.6	800.0	4.6	3.9	-17.66	199.0	-63.4	208.9	199.9	8.93	23.398		
900.0	900.0	902.6	900.0	4.8	4.0	-17.66	199.0	-63.4	208.9	199.7	9.21	22.672		
1,000.0	1,000.0	1,002.7	1,000.1	4.9	4.2	-17.66	199.0	-63.4	208.9	199.4	9.49	22.000		
1,100.0	1,100.0	1,105.0	1,102.4	5.2	4.3	90.57	197.9	-64.9	208.3	198.5	9.76	21.339		
1,200.0	1,199.8	1,207.3	1,204.5	5.4	4.6	90.62	194.6	-69.4	206.6	196.6	10.08	20.505		
1,300.0	1,299.5	1,309.6	1,306.4	5.7	4.9	90.72	189.2	-76.9	203.9	193.5	10.39	19.622		
1,400.0	1,398.7	1,411.5	1,407.5	6.0	5.3	90.89	181.7	-87.2	200.1	189.4	10.70	18.690		
1,454.9	1,453.0	1,466.4	1,461.9	6.1	5.4	91.20	177.2	-93.4	197.7	186.9	10.83	18.251		
1,500.0	1,497.5	1,511.4	1,506.4	6.1	5.5	91.55	173.5	-98.5	195.9	184.9	10.94	17.903		
1,600.0	1,596.3	1,611.3	1,605.3	6.4	5.8	92.35	165.3	-109.7	191.7	180.4	11.26	17.018		
1,700.0	1,695.0	1,711.2	1,704.2	6.7	6.1	93.19	157.2	-121.0	187.6	176.0	11.60	16.176		
1,800.0	1,793.7	1,811.1	1,803.2	6.9	6.4	94.07	149.0	-132.2	183.5	171.6	11.94	15.373		
1,900.0	1,892.5	1,910.9	1,902.1	7.2	6.7	94.98	140.8	-143.5	179.5	167.2	12.29	14.607		
2,000.0	1,991.2	2,010.8	2,001.0	7.6	7.1	95.94	132.7	-154.7	175.5	162.8	12.65	13.875		
2,100.0	2,090.0	2,110.7	2,099.9	7.9	7.4	96.94	124.5	-166.0	171.6	158.5	13.02	13.175		
2,200.0	2,188.7	2,210.6	2,198.8	8.2	7.8	97.99	116.3	-177.2	167.7	154.3	13.41	12.506		
2,300.0	2,287.5	2,310.4	2,297.7	8.6	8.1	99.08	108.2	-188.4	163.9	150.0	13.81	11.864		
2,400.0	2,386.2	2,410.3	2,396.6	8.9	8.5	100.23	100.0	-199.7	160.1	145.9	14.23	11.250		
2,488.9	2,473.9	2,499.1	2,484.5	9.3	8.8	101.30	92.7	-209.7	156.8	142.2	14.61	10.735		
2,500.0	2,484.9	2,510.2	2,495.5	9.3	8.9	101.43	91.8	-210.9	156.4	141.8	14.65	10.677		
2,600.0	2,583.8	2,610.1	2,594.4	9.7	9.3	102.26	83.6	-222.2	152.6	137.4	15.14	10.077		
2,700.0	2,683.0	2,710.0	2,693.3	10.1	9.6	102.48	75.5	-233.4	148.4	132.8	15.54	9.546		
2,800.0	2,782.4	2,809.9	2,792.3	10.4	10.0	102.03	67.3	-244.7	143.8	127.9	15.90	9.046		
2,900.0	2,881.9	2,909.7	2,891.1	10.8	10.4	100.84	59.1	-255.9	138.9	122.7	16.19	8.581		
3,000.0	2,981.6	3,009.5	2,989.9	11.1	10.8	98.84	51.0	-267.1	133.8	117.4	16.40	8.157		
3,100.0	3,081.4	3,109.1	3,088.6	11.4	11.2	95.91	42.8	-278.4	128.6	112.1	16.53	7.779		
3,200.0	3,181.3	3,208.6	3,187.1	11.8	11.6	91.95	34.7	-289.6	123.8	107.1	16.61	7.452		
3,300.0	3,281.3	3,308.0	3,285.5	12.0	12.0	86.89	26.6	-300.8	119.6	102.9	16.67	7.172		
3,398.7	3,380.0	3,405.9	3,382.4	12.2	12.4	-27.45	18.5	-311.8	116.7	99.9	16.83	6.933		
3,400.0	3,381.3	3,407.1	3,383.7	12.2	12.4	-27.53	18.4	-311.9	116.7	99.8	16.83	6.931		
3,500.0	3,481.3	3,506.1	3,481.7	12.6	12.8	-34.31	10.3	-323.1	115.4	97.7	17.69	6.524		
3,524.0	3,505.3	3,529.9	3,505.3	12.6	12.9	-35.96	8.4	-325.7	115.4	97.6	17.82	6.475 CC		
3,600.0	3,581.3	3,605.2	3,579.8	12.6	13.2	-41.14	2.2	-334.2	115.9	97.5	18.32	6.325 ES		
3,700.0	3,681.3	3,704.2	3,677.9	12.7	13.6	-47.83	-5.9	-345.4	117.9	98.8	19.17	6.151		
3,800.0	3,781.3	3,803.2	3,775.9	12.8	14.0	-54.21	-14.0	-356.5	121.6	101.4	20.19	6.020		
3,900.0	3,881.3	3,902.2	3,874.0	12.8	14.4	-60.15	-22.1	-367.7	126.7	105.4	21.30	5.945		
4,000.0	3,981.3	4,001.3	3,972.1	12.9	14.8	-65.59	-30.2	-378.8	133.0	110.6	22.44	5.928 SF		
4,100.0	4,081.3	4,100.3	4,070.1	13.0	15.3	-70.50	-38.3	-390.0	140.4	116.9	23.55	5.964		
4,200.0	4,181.3	4,199.3	4,168.2	13.0	15.7	-74.89	-46.4	-401.1	148.8	124.2	24.61	6.047		
4,300.0	4,281.3	4,298.3	4,266.2	13.1	16.1	-78.80	-54.5	-412.3	158.0	132.4	25.62	6.167		
4,400.0	4,381.3	4,397.4	4,364.3	13.1	16.5	-82.28	-62.6	-423.4	167.8	141.2	26.56	6.318		
4,500.0	4,481.3	4,496.4	4,462.4	13.2	16.9	-85.36	-70.7	-434.6	178.2	150.7	27.45	6.490		
4,600.0	4,581.3	4,595.4	4,560.4	13.3	17.3	-88.10	-78.8	-445.7	189.0	160.7	28.29	6.680		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	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	
4,700.0	4,681.3	4,694.5	4,658.5	13.3	17.7	-90.54	-86.9	-456.9	200.2	171.1	29.09	6.882	
4,800.0	4,781.3	4,793.5	4,756.6	13.4	18.2	-92.72	-95.0	-468.0	211.7	181.9	29.85	7.092	
4,900.0	4,881.3	4,892.5	4,854.6	13.5	18.6	-94.67	-103.1	-479.2	223.5	192.9	30.58	7.308	
5,000.0	4,981.3	4,991.5	4,952.7	13.5	19.0	-96.43	-111.2	-490.3	235.5	204.2	31.29	7.528	
5,100.0	5,081.3	5,090.6	5,050.7	13.6	19.4	-98.01	-119.3	-501.5	247.8	215.8	31.98	7.748	
5,200.0	5,181.3	5,189.6	5,148.8	13.6	19.8	-99.45	-127.4	-512.6	260.1	227.5	32.65	7.969	
5,300.0	5,281.3	5,289.7	5,248.0	13.7	20.2	-100.76	-135.5	-523.8	272.6	239.3	33.28	8.190	
5,400.0	5,381.3	5,391.1	5,348.5	13.8	20.7	-101.90	-143.3	-534.5	284.5	250.5	33.92	8.385	
5,500.0	5,481.3	5,492.7	5,449.4	13.8	21.1	-102.88	-150.5	-544.5	295.6	261.1	34.54	8.558	
5,600.0	5,581.3	5,594.6	5,550.5	13.9	21.5	-103.73	-157.3	-553.8	306.0	270.9	35.14	8.710	
5,700.0	5,681.3	5,696.6	5,652.0	14.0	21.9	-104.46	-163.5	-562.4	315.7	280.0	35.71	8.840	
5,800.0	5,781.3	5,798.8	5,753.8	14.0	22.3	-105.10	-169.2	-570.2	324.5	288.3	36.27	8.949	
5,900.0	5,881.3	5,901.2	5,855.8	14.1	22.7	-105.64	-174.4	-577.4	332.6	295.8	36.81	9.037	
6,000.0	5,981.3	6,003.7	5,958.0	14.2	23.1	-106.11	-179.1	-583.8	339.9	302.5	37.32	9.106	
6,100.0	6,081.3	6,106.4	6,060.4	14.2	23.5	-106.50	-183.2	-589.4	346.3	308.5	37.82	9.156	
6,200.0	6,181.3	6,209.1	6,163.0	14.3	23.8	-106.83	-186.8	-594.4	351.9	313.6	38.30	9.188	
6,300.0	6,281.3	6,312.0	6,265.8	14.4	24.2	-107.11	-189.8	-598.6	356.7	317.9	38.76	9.202	
6,400.0	6,381.3	6,415.0	6,368.6	14.4	24.5	-107.33	-192.3	-602.0	360.6	321.4	39.19	9.201	
6,500.0	6,481.3	6,518.0	6,471.6	14.5	24.8	-107.50	-194.3	-604.7	363.7	324.1	39.60	9.184	
6,600.0	6,581.3	6,621.1	6,574.7	14.6	25.1	-107.62	-195.7	-606.7	365.9	325.9	39.97	9.153	
6,700.0	6,681.3	6,724.2	6,677.8	14.6	25.4	-107.69	-196.6	-607.9	367.3	327.0	40.31	9.112	
6,800.0	6,781.3	6,827.4	6,780.9	14.7	25.6	-107.72	-196.9	-608.4	367.8	327.3	40.55	9.071	
6,900.0	6,881.3	6,927.7	6,881.3	14.8	25.6	-107.72	-196.9	-608.4	367.8	327.2	40.61	9.056	
7,000.0	6,981.3	7,027.7	6,981.3	14.8	25.6	-107.72	-196.9	-608.4	367.8	327.1	40.69	9.040	
7,100.0	7,081.3	7,127.7	7,081.3	14.9	25.6	-107.72	-196.9	-608.4	367.8	327.0	40.76	9.024	
7,200.0	7,181.3	7,227.7	7,181.3	15.0	25.7	-107.72	-196.9	-608.4	367.8	327.0	40.83	9.008	
7,300.0	7,281.3	7,327.7	7,281.3	15.0	25.7	-107.72	-196.9	-608.4	367.8	326.9	40.91	8.992	
7,400.0	7,381.3	7,427.7	7,381.3	15.1	25.7	-107.72	-196.9	-608.4	367.8	326.8	40.98	8.975	
7,500.0	7,481.3	7,527.7	7,481.3	15.2	25.7	-107.72	-196.9	-608.4	367.8	326.8	41.05	8.959	
7,600.0	7,581.3	7,627.7	7,581.3	15.2	25.7	-107.72	-196.9	-608.4	367.8	326.7	41.13	8.943	
7,700.0	7,681.3	7,727.7	7,681.3	15.3	25.8	-107.72	-196.9	-608.4	367.8	326.6	41.21	8.926	
7,800.0	7,781.3	7,827.7	7,781.3	15.4	25.8	-107.72	-196.9	-608.4	367.8	326.5	41.28	8.910	
7,900.0	7,881.3	7,927.7	7,881.3	15.4	25.8	-107.72	-196.9	-608.4	367.8	326.4	41.36	8.893	
8,000.0	7,981.3	8,027.7	7,981.3	15.5	25.8	-107.72	-196.9	-608.4	367.8	326.4	41.44	8.877	
8,100.0	8,081.3	8,127.7	8,081.3	15.6	25.8	-107.72	-196.9	-608.4	367.8	326.3	41.51	8.860	
8,200.0	8,181.3	8,227.7	8,181.3	15.6	25.9	-107.72	-196.9	-608.4	367.8	326.2	41.59	8.843	
8,300.0	8,281.3	8,327.7	8,281.3	15.7	25.9	-107.72	-196.9	-608.4	367.8	326.1	41.67	8.827	
8,400.0	8,381.3	8,427.7	8,381.3	15.8	25.9	-107.72	-196.9	-608.4	367.8	326.1	41.75	8.810	
8,500.0	8,481.3	8,527.7	8,481.3	15.9	25.9	-107.72	-196.9	-608.4	367.8	326.0	41.83	8.793	
8,600.0	8,581.3	8,627.7	8,581.3	15.9	26.0	-107.72	-196.9	-608.4	367.8	325.9	41.91	8.776	
8,700.0	8,681.3	8,727.7	8,681.3	16.0	26.0	-107.72	-196.9	-608.4	367.8	325.8	41.99	8.760	
8,800.0	8,781.3	8,827.7	8,781.3	16.1	26.0	-107.72	-196.9	-608.4	367.8	325.7	42.07	8.743	
8,900.0	8,881.3	8,927.7	8,881.3	16.1	26.0	-107.72	-196.9	-608.4	367.8	325.7	42.15	8.726	
9,000.0	8,981.3	9,027.7	8,981.3	16.2	26.1	-107.72	-196.9	-608.4	367.8	325.6	42.23	8.709	
9,100.0	9,081.3	9,127.7	9,081.3	16.3	26.1	-107.72	-196.9	-608.4	367.8	325.5	42.32	8.692	
9,200.0	9,181.3	9,227.7	9,181.3	16.3	26.1	-107.72	-196.9	-608.4	367.8	325.4	42.40	8.675	
9,300.0	9,281.3	9,327.7	9,281.3	16.4	26.1	-107.72	-196.9	-608.4	367.8	325.3	42.48	8.658	
9,400.0	9,381.3	9,427.7	9,381.3	16.5	26.2	-107.72	-196.9	-608.4	367.8	325.2	42.56	8.641	
9,500.0	9,481.3	9,527.7	9,481.3	16.5	26.2	-107.72	-196.9	-608.4	367.8	325.2	42.65	8.624	
9,600.0	9,581.3	9,627.7	9,581.3	16.6	26.2	-107.72	-196.9	-608.4	367.8	325.1	42.73	8.607	
9,700.0	9,681.3	9,727.7	9,681.3	16.7	26.2	-107.72	-196.9	-608.4	367.8	325.0	42.82	8.590	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
9,800.0	9,781.3	9,827.7	9,781.3	16.8	26.3	-107.72		-196.9	-608.4	367.8	324.9	42.90	8.573
9,900.0	9,881.3	9,927.7	9,881.3	16.8	26.3	-107.72		-196.9	-608.4	367.8	324.8	42.99	8.556
10,000.0	9,981.3	10,027.7	9,981.3	16.9	26.3	-107.72		-196.9	-608.4	367.8	324.7	43.08	8.539
10,100.0	10,081.3	10,127.7	10,081.3	17.0	26.4	-107.72		-196.9	-608.4	367.8	324.6	43.16	8.521
10,200.0	10,181.3	10,227.7	10,181.3	17.0	26.4	-107.72		-196.9	-608.4	367.8	324.6	43.25	8.504
10,300.0	10,281.3	10,327.7	10,281.3	17.1	26.4	-107.72		-196.9	-608.4	367.8	324.5	43.34	8.487
10,400.0	10,381.3	10,427.7	10,381.3	17.2	26.4	-107.72		-196.9	-608.4	367.8	324.4	43.43	8.470
10,500.0	10,481.3	10,527.7	10,481.3	17.3	26.5	-107.72		-196.9	-608.4	367.8	324.3	43.51	8.453
10,600.0	10,581.3	10,627.7	10,581.3	17.3	26.5	-107.72		-196.9	-608.4	367.8	324.2	43.60	8.435
10,700.0	10,681.3	10,727.7	10,681.3	17.4	26.5	-107.72		-196.9	-608.4	367.8	324.1	43.69	8.418
10,800.0	10,781.3	10,827.7	10,781.3	17.5	26.6	-107.72		-196.9	-608.4	367.8	324.0	43.78	8.401
10,900.0	10,881.3	10,927.7	10,881.3	17.5	26.6	-107.72		-196.9	-608.4	367.8	323.9	43.87	8.385
11,000.0	10,981.3	11,048.4	11,001.1	17.6	26.6	-105.91		-184.9	-608.5	365.0	321.5	43.56	8.380
11,100.0	11,081.3	11,160.1	11,107.6	17.7	26.7	-100.76		-151.7	-608.9	358.2	315.4	42.84	8.362
11,200.0	11,181.3	11,256.1	11,192.5	17.8	26.7	-93.60		-107.1	-609.5	352.4	310.7	41.72	8.447
11,237.2	11,218.4	11,287.5	11,218.4	17.8	26.7	-90.74		-89.5	-609.7	351.8	310.5	41.24	8.531
11,300.0	11,281.3	11,335.3	11,256.1	17.8	26.8	-85.94		-60.0	-610.1	353.9	313.5	40.44	8.751
11,361.2	11,342.5	11,376.2	11,286.3	17.9	26.8	-81.51		-32.4	-610.5	360.8	321.0	39.80	9.066
11,375.0	11,356.3	11,384.6	11,292.2	17.9	26.8	105.16		-26.5	-610.6	363.1	323.4	39.68	9.152
11,400.0	11,381.2	11,400.0	11,302.9	17.9	26.8	106.38		-15.4	-610.7	368.4	329.0	39.42	9.346
11,425.0	11,406.1	11,410.8	11,310.2	17.9	26.8	106.95		-7.4	-610.8	375.1	335.7	39.31	9.541
11,450.0	11,430.8	11,421.6	11,317.3	17.9	26.8	107.38		0.6	-610.9	383.2	344.0	39.20	9.776
11,475.0	11,455.2	11,430.9	11,323.3	17.9	26.8	107.47		7.7	-611.0	392.7	353.6	39.13	10.037
11,500.0	11,479.3	11,438.7	11,328.3	17.9	26.8	107.18		13.7	-611.1	403.8	364.6	39.11	10.322
11,525.0	11,503.1	11,450.0	11,335.4	17.9	26.8	107.21		22.6	-611.2	416.2	377.2	38.95	10.684
11,550.0	11,526.4	11,450.0	11,335.4	17.9	26.8	105.33		22.6	-611.2	429.8	390.6	39.23	10.957
11,575.0	11,549.2	11,450.0	11,335.4	17.9	26.8	103.17		22.6	-611.2	444.7	405.2	39.47	11.266
11,600.0	11,571.4	11,450.0	11,335.4	18.0	26.8	100.72		22.6	-611.2	460.7	421.0	39.69	11.607
11,625.0	11,593.0	11,459.7	11,341.3	18.0	26.8	99.60		30.2	-611.3	477.5	438.0	39.53	12.080
11,650.0	11,614.0	11,460.8	11,342.0	18.0	26.8	96.79		31.1	-611.3	495.3	455.6	39.66	12.488
11,675.0	11,634.2	11,461.1	11,342.1	18.0	26.8	93.58		31.3	-611.3	513.7	473.9	39.78	12.912
11,700.0	11,653.5	11,460.6	11,341.8	18.0	26.8	89.97		30.9	-611.3	532.7	492.8	39.90	13.350
11,725.0	11,672.1	11,450.0	11,335.4	18.1	26.8	84.49		22.6	-611.2	552.3	512.0	40.30	13.706
11,750.0	11,689.7	11,450.0	11,335.4	18.1	26.8	80.63		22.6	-611.2	572.1	531.8	40.33	14.188
11,775.0	11,706.4	11,450.0	11,335.4	18.1	26.8	76.66		22.6	-611.2	592.2	551.9	40.33	14.685
11,800.0	11,722.1	11,450.0	11,335.4	18.1	26.8	72.66		22.6	-611.2	612.5	572.2	40.30	15.196
11,825.0	11,736.7	11,450.0	11,335.4	18.2	26.8	68.67		22.6	-611.2	632.9	592.6	40.26	15.721
11,850.0	11,750.3	11,450.0	11,335.4	18.2	26.8	64.76		22.6	-611.2	653.3	613.1	40.19	16.257
11,875.0	11,762.7	11,450.0	11,335.4	18.2	26.8	60.97		22.6	-611.2	673.7	633.7	40.10	16.803
11,900.0	11,774.0	11,434.3	11,325.5	18.3	26.8	55.78		10.3	-611.0	693.8	653.4	40.36	17.189
11,925.0	11,784.1	11,428.9	11,322.1	18.3	26.8	52.06		6.2	-611.0	713.8	673.4	40.35	17.691
11,950.0	11,793.0	11,423.2	11,318.4	18.3	26.8	48.62		1.8	-610.9	733.5	693.2	40.31	18.194
11,975.0	11,800.7	11,417.1	11,314.4	18.4	26.8	45.48		-2.7	-610.9	752.9	712.7	40.27	18.697
12,000.0	11,807.1	11,400.0	11,302.9	18.4	26.8	42.01		-15.4	-610.7	772.2	731.7	40.44	19.096
12,025.0	11,812.2	11,400.0	11,302.9	18.4	26.8	39.84		-15.4	-610.7	790.7	750.5	40.22	19.659
12,050.0	11,816.0	11,400.0	11,302.9	18.5	26.8	37.84		-15.4	-610.7	808.9	768.9	39.99	20.226
12,075.0	11,818.6	11,400.0	11,302.9	18.5	26.8	36.00		-15.4	-610.7	826.8	787.0	39.76	20.796
12,100.0	11,819.8	11,382.6	11,290.8	18.6	26.8	33.75		-27.9	-610.5	843.9	804.0	39.84	21.181
12,111.2	11,820.0	11,379.2	11,288.4	18.6	26.8	32.97		-30.3	-610.5	851.4	811.6	39.79	21.400
12,200.0	11,820.0	11,350.0	11,267.2	18.8	26.8	33.43		-50.4	-610.2	911.7	872.2	39.47	23.099
12,300.0	11,820.0	11,327.3	11,249.9	19.0	26.7	34.29		-65.2	-610.1	981.8	942.7	39.06	25.134

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	2.5	0.0	3.0	3.0	-9.55	199.4	-33.5	202.2	195.7	6.43	31.448	
100.0	100.0	102.5	100.0	3.2	3.1	-9.55	199.4	-33.5	202.2	195.5	6.72	30.097	
200.0	200.0	202.5	200.0	3.5	3.2	-9.55	199.4	-33.5	202.2	195.1	7.06	28.623	
300.0	300.0	302.5	300.0	3.7	3.3	-9.55	199.4	-33.5	202.2	194.8	7.40	27.333	
400.0	400.0	402.5	400.0	3.9	3.4	-9.55	199.4	-33.5	202.2	194.5	7.72	26.189	
500.0	500.0	502.5	500.0	4.1	3.6	-9.55	199.4	-33.5	202.2	194.1	8.03	25.165	
600.0	600.0	602.5	600.0	4.2	3.7	-9.55	199.4	-33.5	202.2	193.8	8.34	24.241	
700.0	700.0	702.5	700.0	4.4	3.8	-9.55	199.4	-33.5	202.2	193.5	8.64	23.402	
800.0	800.0	802.5	800.0	4.6	3.9	-9.55	199.4	-33.5	202.2	193.2	8.93	22.635	
900.0	900.0	902.5	900.0	4.8	4.0	-9.55	199.4	-33.5	202.2	193.0	9.22	21.930	
1,000.0	1,000.0	1,002.7	1,000.2	4.9	4.2	-9.55	199.4	-33.5	202.2	192.7	9.50	21.274	
1,100.0	1,100.0	1,109.0	1,106.5	5.2	4.4	98.93	197.5	-34.3	200.8	190.9	9.85	20.388	
1,200.0	1,199.8	1,215.2	1,212.5	5.4	4.7	99.68	191.9	-36.6	196.8	186.6	10.25	19.207	
1,300.0	1,299.5	1,321.0	1,317.8	5.7	5.0	101.01	182.8	-40.4	190.3	179.7	10.66	17.859	
1,400.0	1,398.7	1,425.0	1,420.9	6.0	5.4	102.99	170.4	-45.6	181.5	170.5	11.08	16.388	
1,454.9	1,453.0	1,479.5	1,474.9	6.1	5.5	104.50	163.4	-48.5	176.6	165.4	11.26	15.687	
1,500.0	1,497.5	1,524.2	1,519.2	6.1	5.6	105.85	157.7	-50.9	172.8	161.4	11.42	15.139	
1,600.0	1,596.3	1,623.4	1,617.5	6.4	5.9	109.07	144.9	-56.2	164.8	152.9	11.88	13.873	
1,700.0	1,695.0	1,722.6	1,715.7	6.7	6.2	112.61	132.2	-61.5	157.3	144.9	12.38	12.703	
1,800.0	1,793.7	1,821.9	1,814.0	6.9	6.5	116.48	119.4	-66.8	150.4	137.5	12.93	11.632	
1,900.0	1,892.5	1,921.1	1,912.2	7.2	6.8	120.69	106.7	-72.1	144.3	130.8	13.53	10.666	
2,000.0	1,991.2	2,020.3	2,010.5	7.6	7.1	125.25	93.9	-77.4	139.1	124.9	14.18	9.808	
2,100.0	2,090.0	2,119.5	2,108.7	7.9	7.5	130.12	81.2	-82.7	134.8	119.9	14.87	9.062	
2,200.0	2,188.7	2,218.7	2,207.0	8.2	7.8	135.26	68.4	-88.0	131.5	115.9	15.60	8.432	
2,300.0	2,287.5	2,318.0	2,305.2	8.6	8.2	140.62	55.7	-93.3	129.4	113.1	16.35	7.917	
2,400.0	2,386.2	2,417.2	2,403.5	8.9	8.6	146.10	42.9	-98.6	128.5	111.4	17.10	7.516	
2,427.7	2,413.6	2,444.7	2,430.7	9.0	8.7	147.63	39.4	-100.1	128.4	111.1	17.30	7.425	
2,488.9	2,473.9	2,505.4	2,490.8	9.3	8.9	151.00	31.6	-103.4	128.7	110.9	17.74	7.254	
2,500.0	2,484.9	2,516.4	2,501.7	9.3	8.9	151.61	30.2	-104.0	128.7	110.9	17.81	7.229	
2,600.0	2,583.8	2,615.7	2,600.1	9.7	9.3	156.88	17.4	-109.3	129.2	110.7	18.55	6.967	
2,700.0	2,683.0	2,715.1	2,698.5	10.1	9.7	161.82	4.7	-114.6	129.2	110.0	19.20	6.728	
2,800.0	2,782.4	2,814.5	2,796.9	10.4	10.1	166.56	-8.1	-119.9	128.3	108.6	19.79	6.486	
2,900.0	2,881.9	2,913.9	2,895.4	10.8	10.5	171.21	-20.9	-125.2	126.7	106.4	20.32	6.237	
3,000.0	2,981.6	3,013.4	2,993.9	11.1	10.9	175.90	-33.7	-130.5	124.2	103.4	20.77	5.981	
3,100.0	3,081.4	3,112.8	3,092.3	11.4	11.3	-179.25	-46.4	-135.8	120.8	99.7	21.12	5.720	
3,200.0	3,181.3	3,212.1	3,190.6	11.8	11.6	-174.07	-59.2	-141.2	116.6	95.3	21.35	5.462	
3,300.0	3,281.3	3,311.3	3,288.9	12.0	12.0	-168.37	-71.9	-146.5	111.7	90.3	21.42	5.217	
3,398.7	3,380.0	3,409.2	3,385.8	12.2	12.4	89.74	-84.5	-151.7	106.5	85.3	21.20	5.021	
3,400.0	3,381.3	3,410.4	3,387.0	12.2	12.4	89.82	-84.7	-151.8	106.4	85.2	21.20	5.019	
3,500.0	3,481.3	3,509.4	3,485.1	12.6	12.8	97.00	-97.4	-157.1	101.8	80.6	21.14	4.814	
3,600.0	3,581.3	3,608.5	3,583.2	12.6	13.3	104.71	-110.1	-162.4	98.9	78.3	20.64	4.793	
3,698.4	3,679.7	3,705.9	3,679.7	12.7	13.7	112.60	-122.6	-167.6	97.9	77.7	20.21	4.846	
3,700.0	3,681.3	3,707.5	3,681.2	12.7	13.7	112.73	-122.8	-167.7	97.9	77.7	20.21	4.848	
3,800.0	3,781.3	3,806.5	3,779.3	12.8	14.1	120.73	-135.6	-173.0	99.0	79.0	19.98	4.954	
3,900.0	3,881.3	3,905.9	3,877.8	12.8	14.5	128.16	-147.8	-178.0	101.7	81.7	20.03	5.080	
4,000.0	3,981.3	4,005.8	3,977.0	12.9	14.9	134.26	-158.6	-182.5	105.5	85.1	20.36	5.180	
4,100.0	4,081.3	4,106.1	4,076.8	13.0	15.2	139.10	-167.7	-186.3	109.5	88.7	20.85	5.254	
4,200.0	4,181.3	4,206.7	4,177.1	13.0	15.6	142.82	-175.3	-189.5	113.4	92.1	21.38	5.305	
4,300.0	4,281.3	4,307.6	4,277.7	13.1	16.0	145.57	-181.3	-192.0	116.8	94.9	21.91	5.331	
4,400.0	4,381.3	4,408.6	4,378.7	13.1	16.3	147.46	-185.6	-193.8	119.4	97.0	22.38	5.335	
4,500.0	4,481.3	4,509.8	4,479.8	13.2	16.6	148.60	-188.3	-194.9	121.1	98.3	22.78	5.316	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,600.0	4,581.3	4,611.1	4,581.1	13.3	16.8	149.03	-189.4	-195.4	121.7	98.7	23.06	5.280	
4,700.0	4,681.3	4,711.3	4,681.3	13.3	16.9	149.04	-189.4	-195.4	121.8	98.6	23.16	5.256	
4,800.0	4,781.3	4,811.3	4,781.3	13.4	16.9	149.04	-189.4	-195.4	121.8	98.5	23.28	5.230	
4,900.0	4,881.3	4,911.3	4,881.3	13.5	16.9	149.04	-189.4	-195.4	121.8	98.4	23.40	5.203	
5,000.0	4,981.3	5,011.3	4,981.3	13.5	17.0	149.04	-189.4	-195.4	121.8	98.2	23.52	5.177	
5,100.0	5,081.3	5,111.3	5,081.3	13.6	17.0	149.04	-189.4	-195.4	121.8	98.1	23.64	5.151	
5,200.0	5,181.3	5,211.3	5,181.3	13.6	17.0	149.04	-189.4	-195.4	121.8	98.0	23.76	5.125	
5,300.0	5,281.3	5,311.3	5,281.3	13.7	17.1	149.04	-189.4	-195.4	121.8	97.9	23.88	5.099	
5,400.0	5,381.3	5,411.3	5,381.3	13.8	17.1	149.04	-189.4	-195.4	121.8	97.8	24.00	5.074	
5,500.0	5,481.3	5,511.3	5,481.3	13.8	17.1	149.04	-189.4	-195.4	121.8	97.6	24.12	5.048	
5,600.0	5,581.3	5,611.3	5,581.3	13.9	17.2	149.04	-189.4	-195.4	121.8	97.5	24.24	5.023	
5,700.0	5,681.3	5,711.3	5,681.3	14.0	17.2	149.04	-189.4	-195.4	121.8	97.4	24.36	4.997	
5,800.0	5,781.3	5,811.3	5,781.3	14.0	17.2	149.04	-189.4	-195.4	121.8	97.3	24.49	4.972	
5,900.0	5,881.3	5,911.3	5,881.3	14.1	17.3	149.04	-189.4	-195.4	121.8	97.1	24.61	4.948	
6,000.0	5,981.3	6,011.3	5,981.3	14.2	17.3	149.04	-189.4	-195.4	121.8	97.0	24.73	4.923	
6,100.0	6,081.3	6,111.3	6,081.3	14.2	17.3	149.04	-189.4	-195.4	121.8	96.9	24.86	4.898	
6,200.0	6,181.3	6,211.3	6,181.3	14.3	17.4	149.04	-189.4	-195.4	121.8	96.8	24.98	4.874	
6,300.0	6,281.3	6,311.3	6,281.3	14.4	17.4	149.04	-189.4	-195.4	121.8	96.6	25.11	4.850	
6,400.0	6,381.3	6,411.3	6,381.3	14.4	17.4	149.04	-189.4	-195.4	121.8	96.5	25.23	4.826	
6,500.0	6,481.3	6,511.3	6,481.3	14.5	17.5	149.04	-189.4	-195.4	121.8	96.4	25.36	4.802	
6,600.0	6,581.3	6,611.3	6,581.3	14.6	17.5	149.04	-189.4	-195.4	121.8	96.3	25.48	4.778	
6,700.0	6,681.3	6,711.3	6,681.3	14.6	17.5	149.04	-189.4	-195.4	121.8	96.1	25.61	4.754	
6,800.0	6,781.3	6,811.3	6,781.3	14.7	17.6	149.04	-189.4	-195.4	121.8	96.0	25.74	4.731	
6,900.0	6,881.3	6,911.3	6,881.3	14.8	17.6	149.04	-189.4	-195.4	121.8	95.9	25.86	4.708	
7,000.0	6,981.3	7,011.3	6,981.3	14.8	17.7	149.04	-189.4	-195.4	121.8	95.8	25.99	4.684	
7,100.0	7,081.3	7,111.3	7,081.3	14.9	17.7	149.04	-189.4	-195.4	121.8	95.6	26.12	4.662	
7,200.0	7,181.3	7,211.3	7,181.3	15.0	17.7	149.04	-189.4	-195.4	121.8	95.5	26.25	4.639	
7,300.0	7,281.3	7,311.3	7,281.3	15.0	17.8	149.04	-189.4	-195.4	121.8	95.4	26.38	4.616	
7,400.0	7,381.3	7,411.3	7,381.3	15.1	17.8	149.04	-189.4	-195.4	121.8	95.2	26.50	4.594	
7,500.0	7,481.3	7,511.3	7,481.3	15.2	17.9	149.04	-189.4	-195.4	121.8	95.1	26.63	4.571	
7,600.0	7,581.3	7,611.3	7,581.3	15.2	17.9	149.04	-189.4	-195.4	121.8	95.0	26.76	4.549	
7,700.0	7,681.3	7,711.3	7,681.3	15.3	17.9	149.04	-189.4	-195.4	121.8	94.9	26.89	4.527	
7,800.0	7,781.3	7,811.3	7,781.3	15.4	18.0	149.04	-189.4	-195.4	121.8	94.7	27.02	4.505	
7,900.0	7,881.3	7,911.3	7,881.3	15.4	18.0	149.04	-189.4	-195.4	121.8	94.6	27.16	4.483	
8,000.0	7,981.3	8,011.3	7,981.3	15.5	18.1	149.04	-189.4	-195.4	121.8	94.5	27.29	4.462	
8,100.0	8,081.3	8,111.3	8,081.3	15.6	18.1	149.04	-189.4	-195.4	121.8	94.3	27.42	4.441	
8,200.0	8,181.3	8,211.3	8,181.3	15.6	18.1	149.04	-189.4	-195.4	121.8	94.2	27.55	4.419	
8,300.0	8,281.3	8,311.3	8,281.3	15.7	18.2	149.04	-189.4	-195.4	121.8	94.1	27.68	4.398	
8,400.0	8,381.3	8,411.3	8,381.3	15.8	18.2	149.04	-189.4	-195.4	121.8	93.9	27.81	4.377	
8,500.0	8,481.3	8,511.3	8,481.3	15.9	18.3	149.04	-189.4	-195.4	121.8	93.8	27.95	4.356	
8,600.0	8,581.3	8,611.3	8,581.3	15.9	18.3	149.04	-189.4	-195.4	121.8	93.7	28.08	4.336	
8,700.0	8,681.3	8,711.3	8,681.3	16.0	18.3	149.04	-189.4	-195.4	121.8	93.5	28.21	4.315	
8,800.0	8,781.3	8,811.3	8,781.3	16.1	18.4	149.04	-189.4	-195.4	121.8	93.4	28.35	4.295	
8,900.0	8,881.3	8,911.3	8,881.3	16.1	18.4	149.04	-189.4	-195.4	121.8	93.3	28.48	4.275	
9,000.0	8,981.3	9,011.3	8,981.3	16.2	18.5	149.04	-189.4	-195.4	121.8	93.1	28.62	4.255	
9,100.0	9,081.3	9,111.3	9,081.3	16.3	18.5	149.04	-189.4	-195.4	121.8	93.0	28.75	4.235	
9,200.0	9,181.3	9,211.3	9,181.3	16.3	18.6	149.04	-189.4	-195.4	121.8	92.9	28.88	4.215	
9,300.0	9,281.3	9,311.3	9,281.3	16.4	18.6	149.04	-189.4	-195.4	121.8	92.7	29.02	4.196	
9,400.0	9,381.3	9,411.3	9,381.3	16.5	18.7	149.04	-189.4	-195.4	121.8	92.6	29.15	4.176	
9,500.0	9,481.3	9,511.3	9,481.3	16.5	18.7	149.04	-189.4	-195.4	121.8	92.5	29.29	4.157	
9,600.0	9,581.3	9,611.3	9,581.3	16.6	18.7	149.04	-189.4	-195.4	121.8	92.3	29.43	4.138	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,700.0	9,681.3	9,711.3	9,681.3	16.7	18.8	149.04	-189.4	-195.4	121.8	92.2	29.56	4.118	
9,800.0	9,781.3	9,811.3	9,781.3	16.8	18.8	149.04	-189.4	-195.4	121.8	92.1	29.70	4.100	
9,900.0	9,881.3	9,911.3	9,881.3	16.8	18.9	149.04	-189.4	-195.4	121.8	91.9	29.84	4.081	
10,000.0	9,981.3	10,011.3	9,981.3	16.9	18.9	149.04	-189.4	-195.4	121.8	91.8	29.97	4.062	
10,100.0	10,081.3	10,111.3	10,081.3	17.0	19.0	149.04	-189.4	-195.4	121.8	91.6	30.11	4.044	
10,200.0	10,181.3	10,211.3	10,181.3	17.0	19.0	149.04	-189.4	-195.4	121.8	91.5	30.25	4.025	
10,300.0	10,281.3	10,311.3	10,281.3	17.1	19.1	149.04	-189.4	-195.4	121.8	91.4	30.38	4.007	
10,400.0	10,381.3	10,411.3	10,381.3	17.2	19.1	149.04	-189.4	-195.4	121.8	91.2	30.52	3.989	
10,500.0	10,481.3	10,511.3	10,481.3	17.3	19.2	149.04	-189.4	-195.4	121.8	91.1	30.66	3.971	
10,600.0	10,581.3	10,611.3	10,581.3	17.3	19.2	149.04	-189.4	-195.4	121.8	91.0	30.80	3.953	
10,700.0	10,681.3	10,711.3	10,681.3	17.4	19.3	149.04	-189.4	-195.4	121.8	90.8	30.94	3.936	
10,800.0	10,781.3	10,811.3	10,781.3	17.5	19.3	149.04	-189.4	-195.4	121.8	90.7	31.07	3.918	
10,900.0	10,881.3	10,911.3	10,881.3	17.5	19.4	149.04	-189.4	-195.4	121.8	90.5	31.21	3.901	
11,000.0	10,981.3	11,011.3	10,981.3	17.6	19.4	149.04	-189.4	-195.4	121.8	90.4	31.35	3.884	
11,100.0	11,081.3	11,117.2	11,087.2	17.7	19.4	148.82	-188.5	-195.4	121.1	89.6	31.47	3.847	
11,200.0	11,181.3	11,236.1	11,204.4	17.8	19.6	143.56	-169.5	-195.6	107.5	75.5	31.97	3.362	
11,300.0	11,281.3	11,343.2	11,304.5	17.8	19.7	127.25	-132.0	-196.1	81.1	48.9	32.19	2.519	
11,361.2	11,342.5	11,400.7	11,354.9	17.9	19.8	107.48	-104.4	-196.5	65.6	33.8	31.78	2.065	
11,375.0	11,356.3	11,412.7	11,365.0	17.9	19.8	-72.46	-98.0	-196.6	63.3	31.5	31.80	1.991 Advise and Monitor	
11,400.0	11,381.2	11,433.0	11,381.9	17.9	19.8	-83.95	-86.7	-196.8	61.1	28.7	32.32	1.889 Advise and Monitor	
11,403.0	11,384.2	11,435.3	11,383.8	17.9	19.8	-85.35	-85.4	-196.8	61.0	28.6	32.45	1.881 Advise and Monitor, CC, ES	
11,425.0	11,406.1	11,451.3	11,396.8	17.9	19.9	-95.16	-76.0	-196.9	62.8	29.0	33.78	1.858 Advise and Monitor, SF	
11,450.0	11,430.8	11,467.8	11,409.9	17.9	19.9	-104.85	-65.9	-197.1	69.2	33.4	35.81	1.933 Advise and Monitor	
11,475.0	11,455.2	11,482.4	11,421.2	17.9	19.9	-112.44	-56.8	-197.2	80.1	42.5	37.68	2.127	
11,500.0	11,479.3	11,495.1	11,430.9	17.9	19.9	-117.91	-48.5	-197.3	94.7	55.6	39.08	2.423	
11,525.0	11,503.1	11,506.1	11,439.1	17.9	19.9	-121.50	-41.2	-197.4	111.9	71.9	40.07	2.793	
11,550.0	11,526.4	11,515.4	11,446.0	17.9	19.9	-123.43	-34.9	-197.5	131.2	90.4	40.76	3.218	
11,575.0	11,549.2	11,523.2	11,451.6	17.9	19.9	-123.86	-29.5	-197.6	151.9	110.6	41.26	3.681	
11,600.0	11,571.4	11,529.6	11,456.2	18.0	19.9	-122.82	-25.1	-197.6	173.7	132.1	41.63	4.172	
11,625.0	11,593.0	11,534.6	11,459.7	18.0	20.0	-120.22	-21.6	-197.7	196.3	154.4	41.91	4.685	
11,650.0	11,614.0	11,538.3	11,462.4	18.0	20.0	-115.82	-18.9	-197.7	219.6	177.5	42.13	5.213	
11,675.0	11,634.2	11,541.0	11,464.2	18.0	20.0	-109.28	-17.0	-197.7	243.3	201.0	42.29	5.754	
11,700.0	11,653.5	11,550.0	11,470.5	18.0	20.0	-106.14	-10.5	-197.8	267.5	225.4	42.10	6.354	
11,725.0	11,672.1	11,550.0	11,470.5	18.1	20.0	-94.55	-10.5	-197.8	291.8	249.5	42.24	6.907	
11,750.0	11,689.7	11,550.0	11,470.5	18.1	20.0	-81.48	-10.5	-197.8	316.1	273.8	42.32	7.471	
11,775.0	11,706.4	11,550.0	11,470.5	18.1	20.0	-68.29	-10.5	-197.8	340.6	298.2	42.33	8.045	
11,800.0	11,722.1	11,540.1	11,463.6	18.1	20.0	-50.74	-17.7	-197.7	364.7	322.1	42.62	8.558	
11,825.0	11,736.7	11,537.6	11,461.8	18.2	20.0	-41.22	-19.4	-197.7	389.0	346.3	42.61	9.127	
11,850.0	11,750.3	11,534.5	11,459.7	18.2	20.0	-33.81	-21.6	-197.7	413.0	370.4	42.59	9.698	
11,875.0	11,762.7	11,530.8	11,457.0	18.2	19.9	-28.12	-24.2	-197.6	436.8	394.2	42.54	10.267	
11,900.0	11,774.0	11,526.6	11,454.0	18.3	19.9	-23.74	-27.2	-197.6	460.3	417.8	42.48	10.836	
11,925.0	11,784.1	11,521.9	11,450.7	18.3	19.9	-20.34	-30.4	-197.5	483.5	441.1	42.40	11.403	
11,950.0	11,793.0	11,516.8	11,446.9	18.3	19.9	-17.64	-33.9	-197.5	506.3	464.0	42.31	11.966	
11,975.0	11,800.7	11,500.0	11,434.5	18.4	19.9	-14.72	-45.3	-197.3	528.9	486.5	42.45	12.458	
12,000.0	11,807.1	11,500.0	11,434.5	18.4	19.9	-13.43	-45.3	-197.3	550.7	508.5	42.20	13.049	
12,025.0	11,812.2	11,500.0	11,434.5	18.4	19.9	-12.32	-45.3	-197.3	572.1	530.2	41.94	13.642	
12,050.0	11,816.0	11,500.0	11,434.5	18.5	19.9	-11.36	-45.3	-197.3	593.1	551.5	41.66	14.237	
12,075.0	11,818.6	11,485.6	11,423.6	18.5	19.9	-10.06	-54.7	-197.2	613.4	571.8	41.66	14.725	
12,100.0	11,819.8	11,478.4	11,418.1	18.6	19.9	-9.20	-59.3	-197.1	633.3	591.8	41.50	15.260	
12,111.2	11,820.0	11,475.1	11,415.6	18.6	19.9	-8.86	-61.4	-197.1	642.0	600.6	41.42	15.499	
12,200.0	11,820.0	11,450.0	11,395.7	18.8	19.8	-6.10	-76.8	-196.9	711.8	670.9	40.88	17.411	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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		Offset Wellbore Centre			Rule Assigned:							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance						
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		Warning		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)					
12,300.0	11,820.0	11,425.3	11,375.6	19.0	19.8	-3.01	-91.0	-196.7	793.2	752.9	40.36	19.653				
12,400.0	11,820.0	11,400.0	11,354.3	19.3	19.8	0.15	-104.7	-196.5	877.1	837.2	39.98	21.939				
12,411.6	11,820.0	11,400.0	11,354.3	19.4	19.8	0.52	-104.7	-196.5	887.0	847.1	39.91	22.228				
12,500.0	11,820.0	11,383.4	11,340.1	19.6	19.8	0.49	-113.2	-196.4	963.0	923.4	39.59	24.322				

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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	-0.99	199.8	-3.4	199.9	193.4	6.43	31.090	
100.0	100.0	102.9	100.0	3.2	3.1	-0.99	199.8	-3.4	199.9	193.2	6.72	29.753	
200.0	200.0	202.9	200.0	3.5	3.2	-0.99	199.8	-3.4	199.9	192.8	7.06	28.296	
300.0	300.0	302.9	300.0	3.7	3.3	-0.99	199.8	-3.4	199.9	192.5	7.40	27.019	
400.0	400.0	402.9	400.0	3.9	3.4	-0.99	199.8	-3.4	199.9	192.2	7.72	25.887	
500.0	500.0	502.9	500.0	4.1	3.6	-0.99	199.8	-3.4	199.9	191.8	8.04	24.874	
600.0	600.0	602.9	600.0	4.2	3.7	-0.99	199.8	-3.4	199.9	191.5	8.34	23.960	
700.0	700.0	702.9	700.0	4.4	3.8	-0.99	199.8	-3.4	199.9	191.2	8.64	23.130	
800.0	800.0	802.9	800.0	4.6	3.9	-0.99	199.8	-3.4	199.9	190.9	8.94	22.370	
900.0	900.0	902.9	900.0	4.8	4.0	-0.99	199.8	-3.4	199.9	190.7	9.22	21.672	
1,000.0	1,000.0	1,003.1	1,000.2	4.9	4.2	-0.99	199.8	-3.4	199.9	190.4	9.51	21.023	
1,100.0	1,100.0	1,109.6	1,106.6	5.2	4.4	108.06	198.0	-2.4	198.7	188.8	9.87	20.136	
1,200.0	1,199.8	1,215.5	1,212.4	5.4	4.7	110.52	192.8	0.5	195.5	185.2	10.27	19.030	
1,300.0	1,299.5	1,320.5	1,316.9	5.7	5.0	114.70	184.2	5.2	191.0	180.3	10.68	17.883	
1,400.0	1,398.7	1,422.8	1,418.4	6.0	5.3	120.58	172.7	11.6	186.4	175.3	11.08	16.819	
1,454.9	1,453.0	1,476.4	1,471.5	6.1	5.5	124.23	166.2	15.2	185.1	173.9	11.25	16.463	
1,493.5	1,491.1	1,513.9	1,508.6	6.1	5.6	126.88	161.6	17.8	184.9	173.6	11.36	16.281	CC
1,500.0	1,497.5	1,520.3	1,514.9	6.1	5.6	127.32	160.8	18.2	184.9	173.5	11.38	16.254	ES
1,600.0	1,596.3	1,617.7	1,611.3	6.4	5.9	134.16	149.0	24.8	186.5	174.7	11.77	15.846	
1,700.0	1,695.0	1,715.0	1,707.8	6.7	6.1	140.79	137.1	31.3	190.8	178.6	12.19	15.657	
1,800.0	1,793.7	1,812.4	1,804.2	6.9	6.5	147.07	125.3	37.9	197.7	185.0	12.63	15.651	
1,900.0	1,892.5	1,909.8	1,900.6	7.2	6.8	152.87	113.4	44.5	206.8	193.7	13.10	15.790	
2,000.0	1,991.2	2,007.1	1,997.0	7.6	7.1	158.16	101.6	51.0	218.0	204.4	13.59	16.038	
2,100.0	2,090.0	2,104.5	2,093.5	7.9	7.4	162.92	89.7	57.6	230.9	216.7	14.11	16.364	
2,200.0	2,188.7	2,201.9	2,189.9	8.2	7.8	167.16	77.9	64.2	245.2	230.5	14.64	16.743	
2,300.0	2,287.5	2,299.2	2,286.3	8.6	8.1	170.93	66.0	70.7	260.7	245.5	15.20	17.155	
2,400.0	2,386.2	2,396.6	2,382.7	8.9	8.5	174.28	54.2	77.3	277.2	261.5	15.77	17.585	
2,488.9	2,473.9	2,483.1	2,468.4	9.3	8.8	176.93	43.6	83.2	292.6	276.4	16.27	17.987	
2,500.0	2,484.9	2,494.0	2,479.1	9.3	8.8	177.25	42.3	83.9	294.6	278.3	16.33	18.044	
2,600.0	2,583.8	2,591.5	2,575.8	9.7	9.2	179.89	30.4	90.5	311.6	294.6	16.96	18.375	
2,700.0	2,683.0	2,689.4	2,672.6	10.1	9.6	-177.74	18.5	97.1	327.5	309.9	17.54	18.668	
2,800.0	2,782.4	2,787.5	2,769.8	10.4	10.0	-175.56	6.6	103.7	342.2	324.0	18.13	18.877	
2,900.0	2,881.9	2,885.8	2,867.1	10.8	10.3	-173.55	-5.4	110.3	355.6	336.9	18.70	19.010	
3,000.0	2,981.6	2,984.3	2,964.7	11.1	10.7	-171.64	-17.4	117.0	367.7	348.4	19.27	19.076	
3,100.0	3,081.4	3,083.0	3,062.4	11.4	11.1	-169.81	-29.4	123.6	378.5	358.6	19.83	19.082	
3,200.0	3,181.3	3,181.8	3,160.3	11.8	11.5	-168.03	-41.4	130.3	387.9	367.6	20.38	19.039	
3,300.0	3,281.3	3,280.8	3,258.3	12.0	11.9	-166.28	-53.5	137.0	396.1	375.2	20.89	18.958	
3,398.7	3,380.0	3,378.5	3,355.1	12.2	12.3	87.20	-65.4	143.6	402.8	381.5	21.29	18.924	
3,400.0	3,381.3	3,379.8	3,356.3	12.2	12.3	87.22	-65.5	143.6	402.9	381.6	21.29	18.926	
3,500.0	3,481.3	3,478.8	3,454.4	12.6	12.7	88.96	-77.6	150.3	409.3	387.3	21.98	18.621	
3,600.0	3,581.3	3,577.8	3,552.4	12.6	13.1	90.64	-89.6	157.0	416.0	393.7	22.30	18.655	
3,700.0	3,681.3	3,676.8	3,650.5	12.7	13.5	92.27	-101.7	163.7	423.1	400.5	22.64	18.689	
3,800.0	3,781.3	3,775.9	3,748.5	12.8	13.9	93.84	-113.7	170.4	430.6	407.6	23.00	18.722	
3,900.0	3,881.3	3,874.9	3,846.6	12.8	14.3	95.36	-125.8	177.1	438.3	415.0	23.37	18.754	
4,000.0	3,981.3	3,973.9	3,944.7	12.9	14.8	96.82	-137.8	183.7	446.4	422.6	23.76	18.784	
4,100.0	4,081.3	4,075.3	4,045.1	13.0	15.2	98.25	-150.0	190.5	454.6	430.4	24.16	18.814	
4,200.0	4,181.3	4,179.7	4,148.7	13.0	15.6	99.51	-161.1	196.6	462.1	437.5	24.59	18.791	
4,300.0	4,281.3	4,284.5	4,253.0	13.1	16.0	100.55	-170.6	201.9	468.7	443.6	25.02	18.734	
4,400.0	4,381.3	4,389.7	4,357.8	13.1	16.4	101.38	-178.5	206.3	474.2	448.7	25.43	18.649	
4,500.0	4,481.3	4,495.2	4,463.1	13.2	16.8	102.03	-184.7	209.7	478.5	452.7	25.81	18.540	
4,600.0	4,581.3	4,601.0	4,568.7	13.3	17.1	102.49	-189.2	212.2	481.7	455.6	26.17	18.409	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Ellipses (usft)			Warning
4,700.0	4,681.3	4,706.9	4,674.5	13.3	17.4	102.77		-192.0	213.7	483.8	457.3	26.49	18.264
4,800.0	4,781.3	4,812.8	4,780.5	13.4	17.7	102.88		-193.0	214.3	484.5	457.8	26.74	18.122
4,900.0	4,881.3	4,913.6	4,881.3	13.5	17.7	102.89		-193.1	214.3	484.5	457.7	26.82	18.063
5,000.0	4,981.3	5,013.6	4,981.3	13.5	17.7	102.89		-193.1	214.3	484.5	457.6	26.92	17.997
5,100.0	5,081.3	5,113.6	5,081.3	13.6	17.8	102.89		-193.1	214.3	484.5	457.5	27.02	17.930
5,200.0	5,181.3	5,213.6	5,181.3	13.6	17.8	102.89		-193.1	214.3	484.5	457.4	27.12	17.864
5,300.0	5,281.3	5,313.6	5,281.3	13.7	17.8	102.89		-193.1	214.3	484.5	457.3	27.22	17.798
5,400.0	5,381.3	5,413.6	5,381.3	13.8	17.8	102.89		-193.1	214.3	484.5	457.2	27.33	17.732
5,500.0	5,481.3	5,513.6	5,481.3	13.8	17.9	102.89		-193.1	214.3	484.5	457.1	27.43	17.666
5,600.0	5,581.3	5,613.6	5,581.3	13.9	17.9	102.89		-193.1	214.3	484.5	457.0	27.53	17.600
5,700.0	5,681.3	5,713.6	5,681.3	14.0	17.9	102.89		-193.1	214.3	484.5	456.9	27.63	17.535
5,800.0	5,781.3	5,813.6	5,781.3	14.0	18.0	102.89		-193.1	214.3	484.5	456.8	27.74	17.469
5,900.0	5,881.3	5,913.6	5,881.3	14.1	18.0	102.89		-193.1	214.3	484.5	456.7	27.84	17.404
6,000.0	5,981.3	6,013.6	5,981.3	14.2	18.0	102.89		-193.1	214.3	484.5	456.6	27.95	17.338
6,100.0	6,081.3	6,113.6	6,081.3	14.2	18.1	102.89		-193.1	214.3	484.5	456.5	28.05	17.273
6,200.0	6,181.3	6,213.6	6,181.3	14.3	18.1	102.89		-193.1	214.3	484.5	456.4	28.16	17.208
6,300.0	6,281.3	6,313.6	6,281.3	14.4	18.1	102.89		-193.1	214.3	484.5	456.3	28.26	17.143
6,400.0	6,381.3	6,413.6	6,381.3	14.4	18.2	102.89		-193.1	214.3	484.5	456.2	28.37	17.079
6,500.0	6,481.3	6,513.6	6,481.3	14.5	18.2	102.89		-193.1	214.3	484.5	456.1	28.48	17.014
6,600.0	6,581.3	6,613.6	6,581.3	14.6	18.2	102.89		-193.1	214.3	484.5	456.0	28.59	16.950
6,700.0	6,681.3	6,713.6	6,681.3	14.6	18.3	102.89		-193.1	214.3	484.5	455.8	28.69	16.886
6,800.0	6,781.3	6,813.6	6,781.3	14.7	18.3	102.89		-193.1	214.3	484.5	455.7	28.80	16.822
6,900.0	6,881.3	6,913.6	6,881.3	14.8	18.3	102.89		-193.1	214.3	484.5	455.6	28.91	16.759
7,000.0	6,981.3	7,013.6	6,981.3	14.8	18.4	102.89		-193.1	214.3	484.5	455.5	29.02	16.695
7,100.0	7,081.3	7,113.6	7,081.3	14.9	18.4	102.89		-193.1	214.3	484.5	455.4	29.13	16.632
7,200.0	7,181.3	7,213.6	7,181.3	15.0	18.5	102.89		-193.1	214.3	484.5	455.3	29.24	16.569
7,300.0	7,281.3	7,313.6	7,281.3	15.0	18.5	102.89		-193.1	214.3	484.5	455.2	29.36	16.506
7,400.0	7,381.3	7,413.6	7,381.3	15.1	18.5	102.89		-193.1	214.3	484.5	455.1	29.47	16.443
7,500.0	7,481.3	7,513.6	7,481.3	15.2	18.6	102.89		-193.1	214.3	484.5	455.0	29.58	16.381
7,600.0	7,581.3	7,613.6	7,581.3	15.2	18.6	102.89		-193.1	214.3	484.5	454.9	29.69	16.319
7,700.0	7,681.3	7,713.6	7,681.3	15.3	18.6	102.89		-193.1	214.3	484.5	454.7	29.81	16.257
7,800.0	7,781.3	7,813.6	7,781.3	15.4	18.7	102.89		-193.1	214.3	484.5	454.6	29.92	16.195
7,900.0	7,881.3	7,913.6	7,881.3	15.4	18.7	102.89		-193.1	214.3	484.5	454.5	30.03	16.133
8,000.0	7,981.3	8,013.6	7,981.3	15.5	18.8	102.89		-193.1	214.3	484.5	454.4	30.15	16.072
8,100.0	8,081.3	8,113.6	8,081.3	15.6	18.8	102.89		-193.1	214.3	484.5	454.3	30.26	16.011
8,200.0	8,181.3	8,213.6	8,181.3	15.6	18.8	102.89		-193.1	214.3	484.5	454.2	30.38	15.950
8,300.0	8,281.3	8,313.6	8,281.3	15.7	18.9	102.89		-193.1	214.3	484.5	454.1	30.49	15.890
8,400.0	8,381.3	8,413.6	8,381.3	15.8	18.9	102.89		-193.1	214.3	484.5	453.9	30.61	15.829
8,500.0	8,481.3	8,513.6	8,481.3	15.9	19.0	102.89		-193.1	214.3	484.5	453.8	30.73	15.769
8,600.0	8,581.3	8,613.6	8,581.3	15.9	19.0	102.89		-193.1	214.3	484.5	453.7	30.84	15.709
8,700.0	8,681.3	8,713.6	8,681.3	16.0	19.0	102.89		-193.1	214.3	484.5	453.6	30.96	15.650
8,800.0	8,781.3	8,813.6	8,781.3	16.1	19.1	102.89		-193.1	214.3	484.5	453.5	31.08	15.591
8,900.0	8,881.3	8,913.6	8,881.3	16.1	19.1	102.89		-193.1	214.3	484.5	453.3	31.20	15.531
9,000.0	8,981.3	9,013.6	8,981.3	16.2	19.2	102.89		-193.1	214.3	484.5	453.2	31.32	15.473
9,100.0	9,081.3	9,113.6	9,081.3	16.3	19.2	102.89		-193.1	214.3	484.5	453.1	31.44	15.414
9,200.0	9,181.3	9,213.6	9,181.3	16.3	19.2	102.89		-193.1	214.3	484.5	453.0	31.55	15.356
9,300.0	9,281.3	9,313.6	9,281.3	16.4	19.3	102.89		-193.1	214.3	484.5	452.9	31.67	15.298
9,400.0	9,381.3	9,413.6	9,381.3	16.5	19.3	102.89		-193.1	214.3	484.5	452.8	31.79	15.240
9,500.0	9,481.3	9,513.6	9,481.3	16.5	19.4	102.89		-193.1	214.3	484.5	452.6	31.91	15.182
9,600.0	9,581.3	9,613.6	9,581.3	16.6	19.4	102.89		-193.1	214.3	484.5	452.5	32.04	15.125
9,700.0	9,681.3	9,713.6	9,681.3	16.7	19.5	102.89		-193.1	214.3	484.5	452.4	32.16	15.068

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10917-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
9,800.0	9,781.3	9,813.6	9,781.3	16.8	19.5	102.89	-193.1	214.3	484.5	452.3	32.28	15.011	
9,900.0	9,881.3	9,913.6	9,881.3	16.8	19.5	102.89	-193.1	214.3	484.5	452.1	32.40	14.955	
10,000.0	9,981.3	10,013.6	9,981.3	16.9	19.6	102.89	-193.1	214.3	484.5	452.0	32.52	14.899	
10,100.0	10,081.3	10,113.6	10,081.3	17.0	19.6	102.89	-193.1	214.3	484.5	451.9	32.65	14.843	
10,200.0	10,181.3	10,213.6	10,181.3	17.0	19.7	102.89	-193.1	214.3	484.5	451.8	32.77	14.787	
10,300.0	10,281.3	10,313.6	10,281.3	17.1	19.7	102.89	-193.1	214.3	484.5	451.7	32.89	14.732	
10,400.0	10,381.3	10,413.6	10,381.3	17.2	19.8	102.89	-193.1	214.3	484.5	451.5	33.01	14.677	
10,500.0	10,481.3	10,513.6	10,481.3	17.3	19.8	102.89	-193.1	214.3	484.5	451.4	33.14	14.622	
10,600.0	10,581.3	10,613.6	10,581.3	17.3	19.9	102.89	-193.1	214.3	484.5	451.3	33.26	14.567	
10,700.0	10,681.3	10,713.6	10,681.3	17.4	19.9	102.89	-193.1	214.3	484.5	451.2	33.39	14.513	
10,800.0	10,781.3	10,813.6	10,781.3	17.5	19.9	102.89	-193.1	214.3	484.5	451.0	33.51	14.459	
10,900.0	10,881.3	10,913.6	10,881.3	17.5	20.0	102.89	-193.1	214.3	484.5	450.9	33.63	14.407	
11,000.0	10,981.3	11,036.2	11,003.0	17.6	20.1	101.45	-180.6	214.2	482.2	448.6	33.61	14.347	
11,100.0	11,081.3	11,149.3	11,110.6	17.7	20.2	97.42	-146.4	213.7	476.6	443.2	33.41	14.265 SF	
11,200.0	11,181.3	11,246.1	11,195.9	17.8	20.3	91.92	-100.8	213.0	471.5	438.5	33.05	14.267	
11,246.9	11,228.2	11,285.5	11,228.2	17.8	20.4	89.18	-78.3	212.7	470.7	437.9	32.88	14.316	
11,300.0	11,281.3	11,325.7	11,259.4	17.8	20.4	86.12	-53.1	212.3	471.9	439.2	32.76	14.404	
11,361.2	11,342.5	11,366.6	11,289.4	17.9	20.5	82.74	-25.2	211.9	476.7	443.9	32.77	14.546	
11,375.0	11,356.3	11,375.0	11,295.2	17.9	20.5	-91.78	-19.2	211.9	478.4	445.6	32.80	14.584	
11,400.0	11,381.2	11,388.9	11,304.8	17.9	20.5	-92.61	-9.1	211.7	482.0	449.1	32.88	14.659	
11,425.0	11,406.1	11,400.0	11,312.3	17.9	20.5	-93.12	-0.9	211.6	486.5	453.5	33.03	14.732	
11,450.0	11,430.8	11,411.8	11,320.0	17.9	20.5	-93.64	8.0	211.5	492.0	458.8	33.20	14.822	
11,475.0	11,455.2	11,421.0	11,325.9	17.9	20.5	-93.79	15.0	211.4	498.6	465.1	33.43	14.912	
11,500.0	11,479.3	11,428.8	11,330.8	17.9	20.5	-93.68	21.1	211.3	506.1	472.4	33.72	15.009	
11,525.0	11,503.1	11,435.2	11,334.8	17.9	20.5	-93.29	26.1	211.2	514.8	480.7	34.05	15.117	
11,550.0	11,526.4	11,440.4	11,338.0	17.9	20.5	-92.62	30.2	211.2	524.4	490.0	34.42	15.238	
11,575.0	11,549.2	11,450.0	11,343.8	17.9	20.6	-92.33	37.9	211.0	535.1	500.4	34.71	15.417	
11,600.0	11,571.4	11,450.0	11,343.8	18.0	20.6	-90.76	37.9	211.0	546.7	511.5	35.16	15.547	
11,625.0	11,593.0	11,450.0	11,343.8	18.0	20.6	-89.04	37.9	211.0	559.1	523.5	35.61	15.704	
11,650.0	11,614.0	11,450.0	11,343.8	18.0	20.6	-87.16	37.9	211.0	572.4	536.4	36.03	15.887	
11,675.0	11,634.2	11,450.0	11,343.8	18.0	20.6	-85.15	37.9	211.0	586.4	549.9	36.43	16.097	
11,700.0	11,653.5	11,450.0	11,343.8	18.0	20.6	-83.00	37.9	211.0	601.0	564.2	36.80	16.332	
11,725.0	11,672.1	11,450.0	11,343.8	18.1	20.6	-80.74	37.9	211.0	616.1	579.0	37.13	16.592	
11,750.0	11,689.7	11,450.0	11,343.8	18.1	20.6	-78.38	37.9	211.0	631.7	594.3	37.43	16.875	
11,775.0	11,706.4	11,450.0	11,343.8	18.1	20.6	-75.95	37.9	211.0	647.7	610.0	37.70	17.180	
11,800.0	11,722.1	11,450.0	11,343.8	18.1	20.6	-73.46	37.9	211.0	664.0	626.1	37.93	17.505	
11,825.0	11,736.7	11,436.8	11,335.8	18.2	20.5	-69.57	27.4	211.2	680.3	642.0	38.33	17.748	
11,850.0	11,750.3	11,432.6	11,333.2	18.2	20.5	-66.68	24.0	211.2	696.9	658.4	38.56	18.075	
11,875.0	11,762.7	11,427.9	11,330.3	18.2	20.5	-63.81	20.4	211.3	713.6	674.8	38.75	18.414	
11,900.0	11,774.0	11,422.8	11,327.1	18.3	20.5	-60.98	16.5	211.3	730.2	691.3	38.92	18.762	
11,925.0	11,784.1	11,417.4	11,323.6	18.3	20.5	-58.24	12.2	211.4	746.7	707.7	39.06	19.119	
11,950.0	11,793.0	11,400.0	11,312.3	18.3	20.5	-54.74	-0.9	211.6	763.3	724.0	39.34	19.406	
11,975.0	11,800.7	11,400.0	11,312.3	18.4	20.5	-52.71	-0.9	211.6	779.4	740.1	39.34	19.815	
12,000.0	11,807.1	11,400.0	11,312.3	18.4	20.5	-50.76	-0.9	211.6	795.4	756.1	39.31	20.234	
12,025.0	11,812.2	11,400.0	11,312.3	18.4	20.5	-48.89	-0.9	211.6	811.2	771.9	39.26	20.661	
12,050.0	11,816.0	11,385.2	11,302.3	18.5	20.5	-46.33	-11.8	211.8	826.5	787.1	39.39	20.983	
12,075.0	11,818.6	11,378.0	11,297.3	18.5	20.5	-44.37	-17.0	211.8	841.5	802.1	39.39	21.363	
12,100.0	11,819.8	11,370.6	11,292.2	18.6	20.5	-42.55	-22.4	211.9	856.1	816.7	39.37	21.743	
12,111.2	11,820.0	11,367.2	11,289.7	18.6	20.5	-41.78	-24.8	211.9	862.5	823.1	39.35	21.915	
12,200.0	11,820.0	11,350.0	11,277.4	18.8	20.4	-40.06	-36.8	212.1	915.6	876.4	39.13	23.398	
12,300.0	11,820.0	11,300.0	11,239.6	19.0	20.4	-36.74	-69.4	212.6	981.4	942.1	39.25	25.006	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	3.4	0.0	3.0	3.0	7.48	200.3	26.3	202.0	195.6	6.43	31.426	
100.0	100.0	103.4	100.0	3.2	3.1	7.48	200.3	26.3	202.0	195.3	6.72	30.073	
200.0	200.0	203.4	200.0	3.5	3.2	7.48	200.3	26.3	202.0	195.0	7.06	28.600	
300.0	300.0	303.4	300.0	3.7	3.3	7.48	200.3	26.3	202.0	194.6	7.40	27.310	
400.0	400.0	403.4	400.0	3.9	3.4	7.48	200.3	26.3	202.0	194.3	7.72	26.167	
500.0	500.0	503.4	500.0	4.1	3.6	7.48	200.3	26.3	202.0	194.0	8.04	25.144	
600.0	600.0	603.4	600.0	4.2	3.7	7.48	200.3	26.3	202.0	193.7	8.34	24.220	
700.0	700.0	703.4	700.0	4.4	3.8	7.48	200.3	26.3	202.0	193.4	8.64	23.381	
800.0	800.0	803.4	800.0	4.6	3.9	7.48	200.3	26.3	202.0	193.1	8.93	22.614	
900.0	900.0	903.4	900.0	4.8	4.0	7.48	200.3	26.3	202.0	192.8	9.22	21.910	
1,000.0	1,000.0	1,003.5	1,000.1	4.9	4.2	7.48	200.3	26.3	202.0	192.5	9.50	21.257	
1,092.0	1,092.0	1,098.3	1,094.9	5.2	4.3	116.54	199.4	27.7	202.0	192.2	9.77	20.665 CC	
1,100.0	1,100.0	1,106.5	1,103.1	5.2	4.3	116.68	199.2	28.0	202.0	192.2	9.80	20.606	
1,200.0	1,199.8	1,208.9	1,205.3	5.4	4.6	119.48	196.2	32.7	202.3	192.1	10.15	19.930 ES	
1,300.0	1,299.5	1,310.0	1,306.0	5.7	4.9	123.99	191.2	40.4	203.8	193.3	10.50	19.407	
1,400.0	1,398.7	1,409.2	1,404.4	6.0	5.3	129.92	184.4	50.8	208.1	197.2	10.88	19.123 SF	
1,454.9	1,453.0	1,462.3	1,456.9	6.1	5.4	133.44	180.4	57.0	212.3	201.3	11.05	19.213	
1,500.0	1,497.5	1,505.7	1,500.0	6.1	5.5	136.33	177.1	62.0	216.7	205.5	11.19	19.366	
1,600.0	1,596.3	1,602.1	1,595.4	6.4	5.8	142.35	169.8	73.3	228.4	216.8	11.61	19.672	
1,700.0	1,695.0	1,698.5	1,690.9	6.7	6.0	147.75	162.5	84.5	242.5	230.4	12.07	20.088	
1,800.0	1,793.7	1,794.9	1,786.4	6.9	6.3	152.55	155.2	95.8	258.5	245.9	12.57	20.568	
1,900.0	1,892.5	1,891.3	1,881.8	7.2	6.7	156.79	147.9	107.0	276.2	263.1	13.10	21.080	
2,000.0	1,991.2	1,987.7	1,977.3	7.6	7.0	160.52	140.6	118.3	295.2	281.5	13.66	21.602	
2,100.0	2,090.0	2,084.1	2,072.8	7.9	7.3	163.80	133.3	129.5	315.3	301.0	14.25	22.119	
2,200.0	2,188.7	2,180.5	2,168.2	8.2	7.7	166.70	126.0	140.8	336.3	321.4	14.87	22.620	
2,300.0	2,287.5	2,276.9	2,263.7	8.6	8.0	169.25	118.7	152.0	358.0	342.5	15.50	23.102	
2,400.0	2,386.2	2,373.3	2,359.2	8.9	8.4	171.52	111.4	163.3	380.4	364.2	16.14	23.560	
2,488.9	2,473.9	2,459.0	2,444.0	9.3	8.7	173.32	104.9	173.3	400.7	383.9	16.72	23.963	
2,500.0	2,484.9	2,469.7	2,454.6	9.3	8.7	173.53	104.0	174.6	403.2	386.4	16.79	24.020	
2,600.0	2,583.8	2,566.4	2,550.3	9.7	9.1	175.34	96.7	185.8	425.5	408.0	17.50	24.316	
2,700.0	2,683.0	2,663.4	2,646.4	10.1	9.5	176.96	89.4	197.2	446.4	428.2	18.17	24.573	
2,800.0	2,782.4	2,760.8	2,742.9	10.4	9.8	178.42	82.0	208.5	465.9	447.1	18.84	24.737	
2,900.0	2,881.9	2,858.6	2,839.7	10.8	10.2	179.76	74.6	219.9	484.0	464.5	19.50	24.819	
3,000.0	2,981.6	2,956.6	2,936.8	11.1	10.6	-179.00	67.1	231.4	500.6	480.5	20.16	24.830	
3,100.0	3,081.4	3,054.9	3,034.1	11.4	11.0	-177.83	59.7	242.9	515.7	494.9	20.81	24.779	
3,200.0	3,181.3	3,153.5	3,131.7	11.8	11.4	-176.72	52.2	254.4	529.3	507.9	21.45	24.677	
3,300.0	3,281.3	3,252.2	3,229.5	12.0	11.8	-175.66	44.7	265.9	541.3	519.3	22.06	24.539	
3,398.7	3,380.0	3,349.9	3,326.3	12.2	12.2	77.13	37.3	277.3	551.7	529.2	22.55	24.469	
3,400.0	3,381.3	3,351.2	3,327.5	12.2	12.2	77.14	37.2	277.4	551.8	529.3	22.55	24.470	
3,500.0	3,481.3	3,450.2	3,425.6	12.6	12.6	78.15	29.7	289.0	561.7	538.4	23.31	24.096	
3,600.0	3,581.3	3,549.2	3,523.6	12.6	13.0	79.13	22.2	300.6	571.7	548.0	23.71	24.106	
3,700.0	3,681.3	3,648.3	3,621.7	12.7	13.4	80.08	14.7	312.1	581.8	557.7	24.13	24.112	
3,800.0	3,781.3	3,747.3	3,719.8	12.8	13.8	80.99	7.2	323.7	592.1	567.6	24.56	24.114	
3,900.0	3,881.3	3,846.3	3,817.8	12.8	14.2	81.87	-0.3	335.2	602.6	577.6	24.99	24.113	
4,000.0	3,981.3	3,945.4	3,915.9	12.9	14.6	82.73	-7.8	346.8	613.2	587.8	25.43	24.109	
4,100.0	4,081.3	4,044.4	4,013.9	13.0	15.0	83.55	-15.3	358.3	623.9	598.0	25.89	24.101	
4,200.0	4,181.3	4,143.4	4,112.0	13.0	15.4	84.34	-22.8	369.9	634.8	608.4	26.35	24.091	
4,300.0	4,281.3	4,242.4	4,210.1	13.1	15.8	85.11	-30.3	381.5	645.7	618.9	26.82	24.078	
4,400.0	4,381.3	4,341.5	4,308.1	13.1	16.3	85.86	-37.8	393.0	656.8	629.5	27.30	24.063	
4,500.0	4,481.3	4,440.5	4,406.2	13.2	16.7	86.57	-45.3	404.6	668.0	640.2	27.78	24.046	
4,600.0	4,581.3	4,539.5	4,504.3	13.3	17.1	87.27	-52.8	416.1	679.3	651.0	28.27	24.027	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		
4,700.0	4,681.3	4,638.5	4,602.3	13.3	17.5	87.94	-60.3	427.7	690.7	661.9	28.77	24.007		
4,800.0	4,781.3	4,737.6	4,700.4	13.4	17.9	88.59	-67.9	439.3	702.1	672.9	29.27	23.985		
4,900.0	4,881.3	4,836.6	4,798.5	13.5	18.3	89.22	-75.4	450.8	713.7	683.9	29.78	23.962		
5,000.0	4,981.3	4,935.6	4,896.5	13.5	18.8	89.83	-82.9	462.4	725.3	695.0	30.30	23.939		
5,100.0	5,081.3	5,034.6	4,994.6	13.6	19.2	90.42	-90.4	473.9	737.1	706.2	30.82	23.914		
5,200.0	5,181.3	5,133.7	5,092.6	13.6	19.6	90.99	-97.9	485.5	748.9	717.5	31.35	23.889		
5,300.0	5,281.3	5,232.7	5,190.7	13.7	20.0	91.55	-105.4	497.0	760.7	728.9	31.88	23.863		
5,400.0	5,381.3	5,331.7	5,288.8	13.8	20.4	92.08	-112.9	508.6	772.7	740.3	32.41	23.837		
5,500.0	5,481.3	5,430.8	5,386.8	13.8	20.9	92.60	-120.4	520.2	784.7	751.7	32.95	23.811		
5,600.0	5,581.3	5,529.8	5,484.9	13.9	21.3	93.11	-127.9	531.7	796.7	763.2	33.49	23.790		
5,700.0	5,681.3	5,634.5	5,588.7	14.0	21.7	93.61	-135.6	543.6	808.6	774.5	34.05	23.745		
5,800.0	5,781.3	5,740.3	5,693.6	14.0	22.1	94.08	-142.9	554.9	819.6	785.0	34.63	23.670		
5,900.0	5,881.3	5,846.3	5,798.9	14.1	22.6	94.49	-149.7	565.3	829.9	794.7	35.19	23.583		
6,000.0	5,981.3	5,952.6	5,904.5	14.2	23.0	94.87	-156.0	574.9	839.5	803.7	35.75	23.485		
6,100.0	6,081.3	6,059.0	6,010.4	14.2	23.4	95.21	-161.7	583.8	848.2	811.9	36.29	23.375		
6,200.0	6,181.3	6,165.6	6,116.6	14.3	23.8	95.51	-166.9	591.8	856.2	819.4	36.82	23.255		
6,300.0	6,281.3	6,272.4	6,223.1	14.4	24.2	95.77	-171.6	599.0	863.3	826.0	37.33	23.125		
6,400.0	6,381.3	6,379.4	6,329.7	14.4	24.6	96.00	-175.7	605.4	869.7	831.8	37.83	22.988		
6,500.0	6,481.3	6,486.5	6,436.6	14.5	25.0	96.20	-179.3	610.9	875.2	836.9	38.31	22.842		
6,600.0	6,581.3	6,593.6	6,543.7	14.6	25.4	96.36	-182.4	615.6	879.9	841.1	38.78	22.691		
6,700.0	6,681.3	6,700.9	6,650.9	14.6	25.7	96.50	-184.9	619.5	883.7	844.5	39.22	22.534		
6,800.0	6,781.3	6,808.3	6,758.2	14.7	26.1	96.60	-186.9	622.6	886.7	847.1	39.63	22.375		
6,900.0	6,881.3	6,915.7	6,865.6	14.8	26.4	96.68	-188.3	624.8	888.9	848.9	40.01	22.216		
7,000.0	6,981.3	7,023.2	6,973.0	14.8	26.7	96.72	-189.2	626.1	890.3	849.9	40.35	22.062		
7,100.0	7,081.3	7,130.7	7,080.5	14.9	26.9	96.74	-189.5	626.6	890.8	850.2	40.60	21.939		
7,200.0	7,181.3	7,231.5	7,181.3	15.0	26.9	96.74	-189.5	626.6	890.8	850.1	40.67	21.902		
7,300.0	7,281.3	7,331.5	7,281.3	15.0	26.9	96.74	-189.5	626.6	890.8	850.0	40.74	21.863		
7,400.0	7,381.3	7,431.5	7,381.3	15.1	26.9	96.74	-189.5	626.6	890.8	850.0	40.82	21.823		
7,500.0	7,481.3	7,531.5	7,481.3	15.2	26.9	96.74	-189.5	626.6	890.8	849.9	40.89	21.784		
7,600.0	7,581.3	7,631.5	7,581.3	15.2	27.0	96.74	-189.5	626.6	890.8	849.8	40.97	21.744		
7,700.0	7,681.3	7,731.5	7,681.3	15.3	27.0	96.74	-189.5	626.6	890.8	849.7	41.04	21.705		
7,800.0	7,781.3	7,831.5	7,781.3	15.4	27.0	96.74	-189.5	626.6	890.8	849.7	41.12	21.665		
7,900.0	7,881.3	7,931.5	7,881.3	15.4	27.0	96.74	-189.5	626.6	890.8	849.6	41.19	21.625		
8,000.0	7,981.3	8,031.5	7,981.3	15.5	27.0	96.74	-189.5	626.6	890.8	849.5	41.27	21.585		
8,100.0	8,081.3	8,131.5	8,081.3	15.6	27.1	96.74	-189.5	626.6	890.8	849.4	41.35	21.544		
8,200.0	8,181.3	8,231.5	8,181.3	15.6	27.1	96.74	-189.5	626.6	890.8	849.4	41.42	21.504		
8,300.0	8,281.3	8,331.5	8,281.3	15.7	27.1	96.74	-189.5	626.6	890.8	849.3	41.50	21.464		
8,400.0	8,381.3	8,431.5	8,381.3	15.8	27.1	96.74	-189.5	626.6	890.8	849.2	41.58	21.423		
8,500.0	8,481.3	8,531.5	8,481.3	15.9	27.2	96.74	-189.5	626.6	890.8	849.1	41.66	21.382		
8,600.0	8,581.3	8,631.5	8,581.3	15.9	27.2	96.74	-189.5	626.6	890.8	849.0	41.74	21.342		
8,700.0	8,681.3	8,731.5	8,681.3	16.0	27.2	96.74	-189.5	626.6	890.8	849.0	41.82	21.301		
8,800.0	8,781.3	8,831.5	8,781.3	16.1	27.2	96.74	-189.5	626.6	890.8	848.9	41.90	21.260		
8,900.0	8,881.3	8,931.5	8,881.3	16.1	27.2	96.74	-189.5	626.6	890.8	848.8	41.98	21.219		
9,000.0	8,981.3	9,031.5	8,981.3	16.2	27.3	96.74	-189.5	626.6	890.8	848.7	42.06	21.178		
9,100.0	9,081.3	9,131.5	9,081.3	16.3	27.3	96.74	-189.5	626.6	890.8	848.6	42.14	21.137		
9,200.0	9,181.3	9,231.5	9,181.3	16.3	27.3	96.74	-189.5	626.6	890.8	848.6	42.23	21.096		
9,300.0	9,281.3	9,331.5	9,281.3	16.4	27.3	96.74	-189.5	626.6	890.8	848.5	42.31	21.055		
9,400.0	9,381.3	9,431.5	9,381.3	16.5	27.4	96.74	-189.5	626.6	890.8	848.4	42.39	21.013		
9,500.0	9,481.3	9,531.5	9,481.3	16.5	27.4	96.74	-189.5	626.6	890.8	848.3	42.48	20.972		
9,600.0	9,581.3	9,631.5	9,581.3	16.6	27.4	96.74	-189.5	626.6	890.8	848.2	42.56	20.930		
9,700.0	9,681.3	9,731.5	9,681.3	16.7	27.4	96.74	-189.5	626.6	890.8	848.1	42.64	20.889		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
Rule Assigned:													
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,800.0	9,781.3	9,831.5	9,781.3	16.8	27.5	96.74	-189.5	626.6	890.8	848.1	42.73	20.847	
9,900.0	9,881.3	9,931.5	9,881.3	16.8	27.5	96.74	-189.5	626.6	890.8	848.0	42.81	20.806	
10,000.0	9,981.3	10,031.5	9,981.3	16.9	27.5	96.74	-189.5	626.6	890.8	847.9	42.90	20.764	
10,100.0	10,081.3	10,131.5	10,081.3	17.0	27.5	96.74	-189.5	626.6	890.8	847.8	42.99	20.722	
10,200.0	10,181.3	10,231.5	10,181.3	17.0	27.6	96.74	-189.5	626.6	890.8	847.7	43.07	20.681	
10,300.0	10,281.3	10,331.5	10,281.3	17.1	27.6	96.74	-189.5	626.6	890.8	847.6	43.16	20.639	
10,400.0	10,381.3	10,431.5	10,381.3	17.2	27.6	96.74	-189.5	626.6	890.8	847.5	43.25	20.597	
10,500.0	10,481.3	10,531.5	10,481.3	17.3	27.6	96.74	-189.5	626.6	890.8	847.5	43.34	20.555	
10,600.0	10,581.3	10,631.5	10,581.3	17.3	27.7	96.74	-189.5	626.6	890.8	847.4	43.42	20.514	
10,700.0	10,681.3	10,731.5	10,681.3	17.4	27.7	96.74	-189.5	626.6	890.8	847.3	43.51	20.472	
10,800.0	10,781.3	10,831.5	10,781.3	17.5	27.7	96.74	-189.5	626.6	890.8	847.2	43.60	20.430	
10,900.0	10,881.3	10,931.5	10,881.3	17.5	27.8	96.74	-189.5	626.6	890.8	847.1	43.69	20.388	
11,000.0	10,981.3	11,031.5	10,981.3	17.6	27.8	96.74	-189.5	626.6	890.8	847.0	43.78	20.346	
11,100.0	11,081.3	11,138.6	11,088.4	17.7	27.8	96.67	-188.5	626.6	890.7	846.8	43.84	20.317	
11,200.0	11,181.3	11,260.5	11,208.3	17.8	27.9	95.38	-168.3	626.3	888.6	845.0	43.66	20.354	
11,300.0	11,281.3	11,369.6	11,309.9	17.8	27.9	92.85	-129.0	625.7	885.3	842.0	43.31	20.440	
11,361.2	11,342.5	11,427.9	11,360.7	17.9	27.9	90.99	-100.3	625.3	883.6	840.6	43.04	20.528	
11,375.0	11,356.3	11,439.9	11,370.8	17.9	27.9	-83.47	-93.8	625.2	883.3	840.4	42.97	20.555	
11,400.0	11,381.2	11,460.4	11,387.6	17.9	27.9	-84.34	-82.2	625.0	882.9	840.0	42.84	20.611	
11,425.0	11,406.1	11,478.8	11,402.4	17.9	27.9	-85.18	-71.2	624.8	882.6	839.9	42.69	20.674	
11,441.0	11,421.9	11,489.6	11,410.9	17.9	27.9	-85.70	-64.5	624.7	882.5	839.9	42.59	20.719	
11,450.0	11,430.8	11,495.3	11,415.3	17.9	27.9	-85.98	-60.9	624.7	882.6	840.0	42.54	20.746	
11,475.0	11,455.2	11,509.8	11,426.5	17.9	28.0	-86.68	-51.6	624.6	882.9	840.5	42.39	20.827	
11,500.0	11,479.3	11,522.5	11,436.0	17.9	28.0	-87.28	-43.3	624.4	883.5	841.3	42.24	20.917	
11,525.0	11,503.1	11,533.3	11,444.0	17.9	28.0	-87.76	-36.0	624.3	884.7	842.6	42.09	21.019	
11,550.0	11,526.4	11,542.5	11,450.7	17.9	28.0	-88.09	-29.7	624.2	886.4	844.5	41.95	21.133	
11,575.0	11,549.2	11,550.0	11,456.1	17.9	28.0	-88.27	-24.4	624.1	888.7	846.9	41.80	21.258	
11,600.0	11,571.4	11,556.3	11,460.5	18.0	28.0	-88.31	-20.0	624.1	891.5	849.8	41.66	21.398	
11,625.0	11,593.0	11,561.1	11,463.9	18.0	28.0	-88.20	-16.5	624.0	895.0	853.4	41.53	21.550	
11,650.0	11,614.0	11,564.7	11,466.4	18.0	28.0	-87.93	-14.0	624.0	899.0	857.6	41.40	21.717	
11,675.0	11,634.2	11,567.2	11,468.1	18.0	28.0	-87.52	-12.2	624.0	903.7	862.4	41.27	21.897	
11,700.0	11,653.5	11,568.6	11,469.1	18.0	28.0	-86.96	-11.2	623.9	909.0	867.8	41.15	22.091	
11,725.0	11,672.1	11,569.0	11,469.4	18.1	28.0	-86.26	-10.9	623.9	914.8	873.8	41.03	22.299	
11,750.0	11,689.7	11,568.6	11,469.1	18.1	28.0	-85.44	-11.2	623.9	921.3	880.4	40.91	22.521	
11,775.0	11,706.4	11,567.3	11,468.2	18.1	28.0	-84.49	-12.1	624.0	928.2	887.4	40.79	22.755	
11,800.0	11,722.1	11,565.3	11,466.8	18.1	28.0	-83.44	-13.5	624.0	935.7	895.0	40.68	23.003	
11,825.0	11,736.7	11,562.7	11,465.0	18.2	28.0	-82.28	-15.4	624.0	943.6	903.0	40.56	23.263	
11,850.0	11,750.3	11,550.0	11,456.1	18.2	28.0	-80.45	-24.4	624.1	952.0	911.4	40.58	23.461	
11,875.0	11,762.7	11,550.0	11,456.1	18.2	28.0	-79.36	-24.4	624.1	960.6	920.2	40.41	23.773	
11,900.0	11,774.0	11,550.0	11,456.1	18.3	28.0	-78.23	-24.4	624.1	969.5	929.3	40.23	24.101	
11,925.0	11,784.1	11,550.0	11,456.1	18.3	28.0	-77.06	-24.4	624.1	978.8	938.8	40.04	24.444	
11,950.0	11,793.0	11,550.0	11,456.1	18.3	28.0	-75.85	-24.4	624.1	988.4	948.5	39.85	24.802	
11,975.0	11,800.7	11,535.4	11,445.5	18.4	28.0	-73.82	-34.6	624.3	998.0	958.1	39.85	25.046	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	15.76	200.8	56.7	208.6	202.2	6.43	32.453	
100.0	100.0	103.1	100.0	3.2	3.1	15.76	200.8	56.7	208.6	201.9	6.72	31.057	
200.0	200.0	203.1	200.0	3.5	3.2	15.76	200.8	56.7	208.6	201.6	7.06	29.537	
300.0	300.0	303.1	300.0	3.7	3.3	15.76	200.8	56.7	208.6	201.2	7.40	28.206	
400.0	400.0	403.1	400.0	3.9	3.4	15.76	200.8	56.7	208.6	200.9	7.72	27.027	
500.0	500.0	503.1	500.0	4.1	3.6	15.76	200.8	56.7	208.6	200.6	8.03	25.973	
600.0	600.0	603.1	600.0	4.2	3.7	15.76	200.8	56.7	208.6	200.3	8.34	25.021	
700.0	700.0	703.1	700.0	4.4	3.8	15.76	200.8	56.7	208.6	200.0	8.64	24.157	
800.0	800.0	803.1	800.0	4.6	3.9	15.76	200.8	56.7	208.6	199.7	8.93	23.367	
900.0	900.0	903.1	900.0	4.8	4.0	15.76	200.8	56.7	208.6	199.4	9.22	22.641	
1,000.0	1,000.0	1,003.1	1,000.0	4.9	4.2	15.76	200.8	56.7	208.6	199.1	9.50	21.970 CC	
1,004.4	1,004.4	1,007.6	1,004.5	4.9	4.2	124.00	200.8	56.7	208.6	199.1	9.51	21.941 ES	
1,100.0	1,100.0	1,103.7	1,100.6	5.2	4.3	124.89	200.1	58.4	209.5	199.7	9.79	21.407	
1,200.0	1,199.8	1,203.6	1,200.3	5.4	4.6	127.44	198.2	63.4	212.3	202.1	10.13	20.952	
1,300.0	1,299.5	1,302.2	1,298.5	5.7	4.9	131.43	195.1	71.5	217.9	207.4	10.50	20.753 SF	
1,400.0	1,398.7	1,398.8	1,394.5	6.0	5.2	136.50	190.9	82.5	227.5	216.6	10.91	20.853	
1,454.9	1,453.0	1,451.0	1,446.0	6.1	5.4	139.57	188.1	89.7	234.9	223.8	11.10	21.168	
1,500.0	1,497.5	1,493.2	1,487.7	6.1	5.5	142.22	185.6	96.2	242.0	230.8	11.25	21.505	
1,600.0	1,596.3	1,587.8	1,580.8	6.4	5.8	147.90	179.6	111.9	260.1	248.4	11.73	22.179	
1,700.0	1,695.0	1,682.8	1,674.2	6.7	6.1	152.88	173.6	127.6	280.5	268.3	12.24	22.922	
1,800.0	1,793.7	1,777.8	1,767.7	6.9	6.4	157.19	167.5	143.4	302.8	290.0	12.78	23.688	
1,900.0	1,892.5	1,872.7	1,861.2	7.2	6.7	160.92	161.4	159.2	326.6	313.2	13.36	24.441	
2,000.0	1,991.2	1,967.7	1,954.6	7.6	7.0	164.15	155.4	175.0	351.5	337.5	13.97	25.164	
2,100.0	2,090.0	2,062.7	2,048.1	7.9	7.4	166.96	149.3	190.8	377.4	362.8	14.60	25.848	
2,200.0	2,188.7	2,157.7	2,141.6	8.2	7.7	169.42	143.3	206.5	404.0	388.8	15.25	26.488	
2,300.0	2,287.5	2,252.7	2,235.1	8.6	8.1	171.57	137.2	222.3	431.3	415.4	15.92	27.084	
2,400.0	2,386.2	2,347.7	2,328.5	8.9	8.4	173.48	131.2	238.1	459.1	442.5	16.61	27.636	
2,488.9	2,473.9	2,432.1	2,411.6	9.3	8.8	174.99	125.8	252.1	484.1	466.9	17.22	28.110	
2,500.0	2,484.9	2,442.7	2,422.0	9.3	8.8	175.17	125.1	253.9	487.3	470.0	17.29	28.177	
2,600.0	2,583.8	2,538.0	2,515.8	9.7	9.2	176.69	119.0	269.7	514.8	496.7	18.04	28.533	
2,700.0	2,683.0	2,633.7	2,610.0	10.1	9.6	178.04	112.9	285.6	540.9	522.2	18.75	28.849	
2,800.0	2,782.4	2,729.9	2,704.7	10.4	10.0	179.27	106.8	301.6	565.6	546.2	19.46	29.065	
2,900.0	2,881.9	2,826.6	2,799.8	10.8	10.4	-179.62	100.6	317.6	588.9	568.7	20.17	29.194	
3,000.0	2,981.6	2,923.6	2,895.3	11.1	10.8	-178.58	94.4	333.8	610.6	589.8	20.88	29.248	
3,100.0	3,081.4	3,021.0	2,991.1	11.4	11.2	-177.62	88.2	349.9	630.9	609.3	21.58	29.239	
3,200.0	3,181.3	3,118.7	3,087.2	11.8	11.6	-176.71	82.0	366.2	649.5	627.3	22.26	29.179	
3,300.0	3,281.3	3,216.7	3,183.7	12.0	12.0	-175.84	75.7	382.5	666.7	643.7	22.92	29.083	
3,398.7	3,380.0	3,313.7	3,279.2	12.2	12.4	76.75	69.5	398.6	682.0	658.5	23.47	29.063	
3,400.0	3,381.3	3,315.0	3,280.4	12.2	12.4	76.76	69.5	398.8	682.2	658.7	23.47	29.065	
3,500.0	3,481.3	3,413.4	3,377.2	12.6	12.8	77.58	63.2	415.1	697.1	672.8	24.27	28.716	
3,600.0	3,581.3	3,511.8	3,474.1	12.6	13.3	78.37	56.9	431.5	712.0	687.3	24.74	28.778	
3,700.0	3,681.3	3,610.2	3,570.9	12.7	13.7	79.12	50.6	447.8	727.2	701.9	25.22	28.833	
3,800.0	3,781.3	3,708.6	3,667.7	12.8	14.1	79.84	44.4	464.2	742.4	716.7	25.71	28.881	
3,900.0	3,881.3	3,807.0	3,764.6	12.8	14.5	80.54	38.1	480.5	757.7	731.5	26.20	28.922	
4,000.0	3,981.3	3,905.4	3,861.4	12.9	15.0	81.20	31.8	496.9	773.2	746.5	26.70	28.957	
4,100.0	4,081.3	4,003.8	3,958.2	13.0	15.4	81.84	25.5	513.2	788.8	761.5	27.21	28.987	
4,200.0	4,181.3	4,102.2	4,055.1	13.0	15.8	82.46	19.3	529.6	804.4	776.7	27.73	29.011	
4,300.0	4,281.3	4,200.6	4,151.9	13.1	16.3	83.05	13.0	545.9	820.1	791.9	28.25	29.031	
4,400.0	4,381.3	4,299.0	4,248.7	13.1	16.7	83.62	6.7	562.3	835.9	807.2	28.78	29.046	
4,500.0	4,481.3	4,397.4	4,345.6	13.2	17.1	84.17	0.4	578.6	851.8	822.5	29.32	29.058	
4,600.0	4,581.3	4,495.8	4,442.4	13.3	17.6	84.70	-5.8	595.0	867.8	837.9	29.86	29.066	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error:		0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS													Offset Well Error:		3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Rule Assigned:			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation			Warning
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		(usft)	(usft)	(usft)				
4,700.0	4,681.3	4,594.2	4,539.2	13.3	18.0	85.21	-12.1	611.3		883.8	853.4	30.40	29.071			
4,800.0	4,781.3	4,692.6	4,636.1	13.4	18.5	85.70	-18.4	627.6		899.9	869.0	30.95	29.073			
4,900.0	4,881.3	4,791.1	4,732.9	13.5	18.9	86.17	-24.7	644.0		916.1	884.6	31.51	29.073			
5,000.0	4,981.3	4,889.5	4,829.7	13.5	19.3	86.63	-30.9	660.3		932.3	900.3	32.07	29.071			
5,100.0	5,081.3	4,987.9	4,926.6	13.6	19.8	87.07	-37.2	676.7		948.6	916.0	32.64	29.066			
5,200.0	5,181.3	5,086.3	5,023.4	13.6	20.2	87.50	-43.5	693.0		964.9	931.7	33.20	29.060			
5,300.0	5,281.3	5,184.7	5,120.2	13.7	20.7	87.91	-49.8	709.4		981.3	947.5	33.78	29.053			
5,400.0	5,381.3	5,283.1	5,217.1	13.8	21.1	88.31	-56.0	725.7		997.8	963.4	34.35	29.044			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
0.0	0.0	10.0	0.0	3.0	3.0	23.30	201.2	86.7	219.1	212.7	6.43	34.075	
100.0	100.0	110.0	100.0	3.2	3.1	23.30	201.2	86.7	219.1	212.4	6.72	32.608	
200.0	200.0	210.0	200.0	3.5	3.2	23.30	201.2	86.7	219.1	212.0	7.07	31.008	
300.0	300.0	310.0	300.0	3.7	3.3	23.30	201.2	86.7	219.1	211.7	7.40	29.613	
400.0	400.0	410.0	400.0	3.9	3.4	23.30	201.2	86.7	219.1	211.4	7.72	28.378	
500.0	500.0	510.0	500.0	4.1	3.6	23.30	201.2	86.7	219.1	211.1	8.03	27.274	
600.0	600.0	610.0	600.0	4.2	3.7	23.30	201.2	86.7	219.1	210.7	8.34	26.278	
700.0	700.0	710.0	700.0	4.4	3.8	23.30	201.2	86.7	219.1	210.4	8.63	25.375	
800.0	800.0	810.0	800.0	4.6	3.9	23.30	201.2	86.7	219.1	210.2	8.92	24.549	
900.0	900.0	910.0	900.0	4.8	4.0	23.30	201.2	86.7	219.1	209.9	9.21	23.790	
913.0	913.0	923.0	913.0	4.8	4.1	23.30	201.2	86.7	219.1	209.8	9.24	23.698 CC	
1,000.0	1,000.0	1,009.9	999.9	4.9	4.2	23.30	201.2	86.7	219.1	209.6	9.49	23.089 ES	
1,100.0	1,100.0	1,108.8	1,098.8	5.2	4.3	132.38	200.6	88.6	220.5	210.7	9.79	22.520	
1,200.0	1,199.8	1,207.0	1,196.9	5.4	4.6	134.65	199.2	93.8	225.0	214.9	10.16	22.157	
1,300.0	1,299.5	1,304.0	1,293.4	5.7	4.9	138.10	196.8	102.1	233.3	222.7	10.55	22.117 SF	
1,400.0	1,398.7	1,400.0	1,388.7	6.0	5.2	142.44	193.5	113.5	246.1	235.2	10.99	22.405	
1,454.9	1,453.0	1,450.2	1,438.3	6.1	5.4	144.95	191.5	120.6	255.5	244.4	11.18	22.851	
1,500.0	1,497.5	1,491.6	1,479.2	6.1	5.5	147.17	189.6	127.1	264.3	253.0	11.35	23.290	
1,600.0	1,596.3	1,582.3	1,568.3	6.4	5.8	151.94	185.0	143.3	286.2	274.4	11.83	24.200	
1,700.0	1,695.0	1,675.3	1,659.3	6.7	6.1	156.47	179.6	161.9	311.1	298.7	12.35	25.184	
1,800.0	1,793.7	1,769.2	1,751.1	6.9	6.4	160.39	174.3	180.6	337.6	324.7	12.91	26.147	
1,900.0	1,892.5	1,863.1	1,842.9	7.2	6.8	163.76	168.9	199.4	365.6	352.0	13.51	27.064	
2,000.0	1,991.2	1,956.9	1,934.8	7.6	7.1	166.66	163.5	218.2	394.5	380.4	14.13	27.923	
2,100.0	2,090.0	2,050.8	2,026.6	7.9	7.4	169.16	158.1	236.9	424.3	409.5	14.77	28.719	
2,200.0	2,188.7	2,144.7	2,118.4	8.2	7.8	171.35	152.7	255.7	454.7	439.3	15.44	29.452	
2,300.0	2,287.5	2,238.5	2,210.2	8.6	8.1	173.27	147.4	274.4	485.7	469.6	16.12	30.124	
2,400.0	2,386.2	2,332.4	2,302.0	8.9	8.5	174.96	142.0	293.2	517.1	500.3	16.82	30.740	
2,488.9	2,473.9	2,415.8	2,383.6	9.3	8.8	176.30	137.2	309.9	545.4	527.9	17.45	31.262	
2,500.0	2,484.9	2,426.3	2,393.8	9.3	8.9	176.46	136.6	312.0	548.9	531.4	17.52	31.334	
2,600.0	2,583.8	2,520.5	2,486.0	9.7	9.3	177.81	131.2	330.8	580.0	561.7	18.28	31.731	
2,700.0	2,683.0	2,615.2	2,578.6	10.1	9.7	179.01	125.8	349.7	609.7	590.7	19.00	32.084	
2,800.0	2,782.4	2,710.5	2,671.8	10.4	10.1	-179.90	120.3	368.8	637.9	618.2	19.73	32.333	
2,900.0	2,881.9	2,806.2	2,765.4	10.8	10.5	-178.90	114.8	387.9	664.7	644.2	20.46	32.491	
3,000.0	2,981.6	2,902.3	2,859.5	11.1	10.9	-177.98	109.3	407.1	689.9	668.8	21.18	32.572	
3,100.0	3,081.4	2,998.9	2,954.0	11.4	11.3	-177.12	103.8	426.4	713.7	691.8	21.90	32.588	
3,200.0	3,181.3	3,095.9	3,048.8	11.8	11.7	-176.32	98.2	445.8	735.8	713.2	22.61	32.552	
3,300.0	3,281.3	3,193.2	3,144.0	12.0	12.1	-175.55	92.7	465.3	756.5	733.2	23.29	32.480	
3,398.7	3,380.0	3,289.7	3,238.4	12.2	12.6	76.95	87.1	484.5	775.3	751.4	23.86	32.492	
3,400.0	3,381.3	3,290.9	3,239.6	12.2	12.6	76.96	87.1	484.8	775.5	751.6	23.87	32.495	
3,500.0	3,481.3	3,388.7	3,335.3	12.6	13.0	77.68	81.5	504.3	793.8	769.1	24.69	32.154	
3,600.0	3,581.3	3,486.5	3,430.9	12.6	13.4	78.38	75.8	523.9	812.3	787.1	25.19	32.251	
3,700.0	3,681.3	3,584.3	3,526.6	12.7	13.9	79.04	70.2	543.4	830.8	805.1	25.69	32.337	
3,800.0	3,781.3	3,682.2	3,622.3	12.8	14.3	79.67	64.6	563.0	849.5	823.3	26.21	32.414	
3,900.0	3,881.3	3,780.0	3,718.0	12.8	14.7	80.28	59.0	582.5	868.3	841.5	26.73	32.482	
4,000.0	3,981.3	3,877.8	3,813.6	12.9	15.2	80.86	53.4	602.1	887.1	859.9	27.26	32.541	
4,100.0	4,081.3	3,975.6	3,909.3	13.0	15.6	81.41	47.8	621.6	906.0	878.3	27.80	32.594	
4,200.0	4,181.3	4,073.4	4,005.0	13.0	16.1	81.95	42.2	641.2	925.1	896.7	28.34	32.639	
4,300.0	4,281.3	4,171.2	4,100.7	13.1	16.5	82.46	36.6	660.7	944.2	915.3	28.89	32.678	
4,400.0	4,381.3	4,269.1	4,196.4	13.1	17.0	82.95	31.0	680.3	963.3	933.9	29.45	32.711	
4,500.0	4,481.3	4,366.9	4,292.0	13.2	17.4	83.42	25.4	699.8	982.5	952.5	30.01	32.739	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		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		
1,100.0	1,100.0	1,097.9	1,097.9	5.2	5.2	17.93	-0.9	-61.7	60.0	49.3	10.70	5.611			
1,200.0	1,199.8	1,195.9	1,195.7	5.4	5.4	19.45	-0.9	-66.7	60.2	49.1	11.16	5.394			
1,300.0	1,299.5	1,293.8	1,293.3	5.7	5.7	21.97	-0.9	-75.0	60.6	49.0	11.63	5.208	ES		
1,400.0	1,398.7	1,391.6	1,390.4	6.0	6.0	25.42	-0.9	-86.7	61.3	49.2	12.11	5.062			
1,454.9	1,453.0	1,445.4	1,443.6	6.1	6.1	27.69	-0.9	-94.5	61.9	49.6	12.31	5.029	SF		
1,500.0	1,497.5	1,489.4	1,487.1	6.1	6.3	29.56	-0.9	-101.7	62.9	50.4	12.47	5.042			
1,600.0	1,596.3	1,587.1	1,583.0	6.4	6.5	32.97	-0.9	-119.9	67.6	54.7	12.86	5.256			
1,700.0	1,695.0	1,686.9	1,680.7	6.7	6.8	35.60	-0.9	-140.2	74.1	60.8	13.34	5.554			
1,800.0	1,793.7	1,786.6	1,778.4	6.9	7.1	37.80	-0.9	-160.4	80.7	66.9	13.83	5.837			
1,900.0	1,892.5	1,886.3	1,876.0	7.2	7.4	39.67	-0.9	-180.6	87.5	73.1	14.33	6.102			
2,000.0	1,991.2	1,986.1	1,973.7	7.6	7.7	41.27	-0.9	-200.8	94.3	79.4	14.85	6.348			
2,100.0	2,090.0	2,085.8	2,071.4	7.9	8.1	42.65	-0.9	-221.1	101.1	85.7	15.38	6.575			
2,200.0	2,188.7	2,185.5	2,169.0	8.2	8.4	43.86	-0.9	-241.3	108.1	92.1	15.93	6.785			
2,300.0	2,287.5	2,285.3	2,266.7	8.6	8.8	44.92	-0.9	-261.5	115.0	98.5	16.48	6.979			
2,400.0	2,386.2	2,385.0	2,364.3	8.9	9.2	45.86	-0.9	-281.7	122.0	105.0	17.04	7.159			
2,488.9	2,473.9	2,473.7	2,451.1	9.3	9.5	46.61	-0.9	-299.7	128.3	110.7	17.54	7.313			
2,500.0	2,484.9	2,484.8	2,462.0	9.3	9.6	46.70	-0.9	-301.9	129.0	111.4	17.59	7.335			
2,600.0	2,583.8	2,584.4	2,559.6	9.7	9.9	47.18	-0.9	-322.2	136.8	118.6	18.24	7.503			
2,700.0	2,683.0	2,684.0	2,657.2	10.1	10.3	47.11	-0.9	-342.3	145.8	126.9	18.87	7.723			
2,800.0	2,782.4	2,783.5	2,754.6	10.4	10.7	46.60	-0.9	-362.5	155.9	136.4	19.55	7.974			
2,900.0	2,881.9	2,882.8	2,851.8	10.8	11.1	45.73	-0.9	-382.6	167.3	147.0	20.27	8.252			
3,000.0	2,981.6	2,982.0	2,948.9	11.1	11.6	44.60	-0.9	-402.7	179.9	158.9	21.02	8.559			
3,100.0	3,081.4	3,080.9	3,045.7	11.4	12.0	43.28	-0.9	-422.8	193.9	172.1	21.80	8.896			
3,200.0	3,181.3	3,179.5	3,142.4	11.8	12.4	41.83	-0.9	-442.8	209.3	186.7	22.59	9.265			
3,300.0	3,281.3	3,277.9	3,238.7	12.0	12.8	40.31	-0.9	-462.8	226.1	202.7	23.37	9.671			
3,398.7	3,380.0	3,374.8	3,333.5	12.2	13.2	-69.44	-0.9	-482.4	244.1	220.0	24.09	10.132			
3,400.0	3,381.3	3,376.0	3,334.8	12.2	13.2	-69.47	-0.9	-482.6	244.3	220.2	24.10	10.139			
3,500.0	3,481.3	3,473.9	3,430.6	12.6	13.6	-71.01	-0.9	-502.5	263.5	238.4	25.08	10.507			
3,600.0	3,581.3	3,571.9	3,526.5	12.6	14.1	-72.34	-0.9	-522.3	282.8	257.1	25.71	10.999			
3,700.0	3,681.3	3,669.8	3,622.4	12.7	14.5	-73.51	-0.9	-542.2	302.2	275.8	26.33	11.478			
3,800.0	3,781.3	3,767.7	3,718.3	12.8	14.9	-74.53	-0.9	-562.1	321.7	294.8	26.94	11.942			
3,900.0	3,881.3	3,865.6	3,814.2	12.8	15.4	-75.44	-0.9	-581.9	341.3	313.8	27.54	12.391			
4,000.0	3,981.3	3,963.5	3,910.1	12.9	15.8	-76.25	-0.9	-601.8	361.0	332.8	28.15	12.825			
4,100.0	4,081.3	4,061.5	4,006.0	13.0	16.2	-76.97	-0.9	-621.6	380.7	352.0	28.75	13.244			
4,200.0	4,181.3	4,159.4	4,101.9	13.0	16.7	-77.62	-0.9	-641.5	400.5	371.2	29.35	13.649			
4,300.0	4,281.3	4,257.3	4,197.8	13.1	17.1	-78.22	-0.9	-661.3	420.4	390.4	29.94	14.039			
4,400.0	4,381.3	4,355.2	4,293.6	13.1	17.5	-78.75	-0.9	-681.2	440.3	409.7	30.54	14.416			
4,500.0	4,481.3	4,453.2	4,389.5	13.2	18.0	-79.25	-0.9	-701.0	460.2	429.0	31.14	14.778			
4,600.0	4,581.3	4,551.1	4,485.4	13.3	18.4	-79.70	-0.9	-720.9	480.1	448.4	31.74	15.128			
4,700.0	4,681.3	4,649.0	4,581.3	13.3	18.9	-80.11	-0.9	-740.7	500.1	467.8	32.34	15.466			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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: 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
4,800.0	4,781.3	4,746.9	4,677.2	13.4	19.3	-80.50	-0.9	-760.6	520.1	487.2	32.94	15.791	
4,900.0	4,881.3	4,844.9	4,773.1	13.5	19.7	-80.85	-0.9	-780.4	540.1	506.6	33.54	16.104	
5,000.0	4,981.3	4,942.8	4,869.0	13.5	20.2	-81.18	-0.9	-800.3	560.2	526.0	34.14	16.407	
5,100.0	5,081.3	5,040.7	4,964.9	13.6	20.6	-81.49	-0.9	-820.1	580.2	545.5	34.75	16.699	
5,200.0	5,181.3	5,138.6	5,060.8	13.6	21.1	-81.77	-0.9	-840.0	600.3	564.9	35.35	16.980	
5,300.0	5,281.3	5,236.5	5,156.6	13.7	21.5	-82.04	-0.9	-859.9	620.4	584.4	35.96	17.252	
5,400.0	5,381.3	5,334.5	5,252.5	13.8	22.0	-82.29	-0.9	-879.7	640.4	603.9	36.57	17.514	
5,500.0	5,481.3	5,432.4	5,348.4	13.8	22.4	-82.53	-0.9	-899.6	660.5	623.4	37.18	17.767	
5,600.0	5,581.3	5,530.3	5,444.3	13.9	22.9	-82.75	-0.9	-919.4	680.7	642.9	37.79	18.012	
5,700.0	5,681.3	5,628.2	5,540.2	14.0	23.3	-82.96	-0.9	-939.3	700.8	662.4	38.40	18.248	
5,800.0	5,781.3	5,726.2	5,636.1	14.0	23.8	-83.16	-0.9	-959.1	720.9	681.9	39.02	18.477	
5,900.0	5,881.3	5,824.1	5,732.0	14.1	24.2	-83.34	-0.9	-979.0	741.1	701.4	39.63	18.698	
6,000.0	5,981.3	5,922.0	5,827.9	14.2	24.7	-83.52	-0.9	-998.8	761.2	721.0	40.25	18.914	
6,100.0	6,081.3	6,033.6	5,937.3	14.2	25.2	-83.70	-0.9	-1,020.6	780.6	739.7	40.93	19.070	
6,200.0	6,181.3	6,147.7	6,049.6	14.3	25.7	-83.86	-0.9	-1,040.6	798.1	756.4	41.62	19.174	
6,300.0	6,281.3	6,262.5	6,163.1	14.4	26.2	-84.00	-0.9	-1,058.5	813.6	771.3	42.28	19.240	
6,400.0	6,381.3	6,378.0	6,277.5	14.4	26.7	-84.11	-0.9	-1,074.3	827.1	784.2	42.92	19.272	
6,500.0	6,481.3	6,494.2	6,392.8	14.5	27.2	-84.21	-0.9	-1,087.7	838.7	795.1	43.52	19.272	
6,600.0	6,581.3	6,610.8	6,508.9	14.6	27.6	-84.29	-0.9	-1,098.9	848.2	804.1	44.08	19.244	
6,700.0	6,681.3	6,727.8	6,625.6	14.6	28.1	-84.34	-0.9	-1,107.7	855.7	811.1	44.59	19.191	
6,800.0	6,781.3	6,845.2	6,742.8	14.7	28.5	-84.39	-0.9	-1,114.2	861.2	816.1	45.05	19.116	
6,900.0	6,881.3	6,962.7	6,860.3	14.8	28.8	-84.41	-0.9	-1,118.3	864.6	819.2	45.45	19.025	
7,000.0	6,981.3	7,080.4	6,977.9	14.8	29.0	-84.42	-0.9	-1,120.0	866.1	820.4	45.66	18.967	
7,100.0	7,081.3	7,183.7	7,081.3	14.9	29.1	-84.42	-0.9	-1,120.0	866.1	820.3	45.75	18.931	
7,200.0	7,181.3	7,283.7	7,181.3	15.0	29.1	-84.42	-0.9	-1,120.0	866.1	820.3	45.83	18.899	
7,300.0	7,281.3	7,383.7	7,281.3	15.0	29.2	-84.42	-0.9	-1,120.0	866.1	820.2	45.91	18.867	
7,400.0	7,381.3	7,483.7	7,381.3	15.1	29.2	-84.42	-0.9	-1,120.0	866.1	820.1	45.98	18.835	
7,500.0	7,481.3	7,583.7	7,481.3	15.2	29.2	-84.42	-0.9	-1,120.0	866.1	820.0	46.06	18.802	
7,600.0	7,581.3	7,683.7	7,581.3	15.2	29.2	-84.42	-0.9	-1,120.0	866.1	819.9	46.14	18.770	
7,700.0	7,681.3	7,783.7	7,681.3	15.3	29.3	-84.42	-0.9	-1,120.0	866.1	819.9	46.22	18.737	
7,800.0	7,781.3	7,883.7	7,781.3	15.4	29.3	-84.42	-0.9	-1,120.0	866.1	819.8	46.30	18.705	
7,900.0	7,881.3	7,983.7	7,881.3	15.4	29.3	-84.42	-0.9	-1,120.0	866.1	819.7	46.38	18.672	
8,000.0	7,981.3	8,083.7	7,981.3	15.5	29.4	-84.42	-0.9	-1,120.0	866.1	819.6	46.47	18.640	
8,100.0	8,081.3	8,183.7	8,081.3	15.6	29.4	-84.42	-0.9	-1,120.0	866.1	819.5	46.55	18.607	
8,200.0	8,181.3	8,283.7	8,181.3	15.6	29.4	-84.42	-0.9	-1,120.0	866.1	819.5	46.63	18.574	
8,300.0	8,281.3	8,383.7	8,281.3	15.7	29.5	-84.42	-0.9	-1,120.0	866.1	819.4	46.71	18.541	
8,400.0	8,381.3	8,483.7	8,381.3	15.8	29.5	-84.42	-0.9	-1,120.0	866.1	819.3	46.79	18.508	
8,500.0	8,481.3	8,583.7	8,481.3	15.9	29.5	-84.42	-0.9	-1,120.0	866.1	819.2	46.88	18.476	
8,600.0	8,581.3	8,683.7	8,581.3	15.9	29.5	-84.42	-0.9	-1,120.0	866.1	819.1	46.96	18.443	
8,700.0	8,681.3	8,783.7	8,681.3	16.0	29.6	-84.42	-0.9	-1,120.0	866.1	819.0	47.05	18.410	
8,800.0	8,781.3	8,883.7	8,781.3	16.1	29.6	-84.42	-0.9	-1,120.0	866.1	819.0	47.13	18.377	
8,900.0	8,881.3	8,983.7	8,881.3	16.1	29.6	-84.42	-0.9	-1,120.0	866.1	818.9	47.21	18.344	
9,000.0	8,981.3	9,083.7	8,981.3	16.2	29.7	-84.42	-0.9	-1,120.0	866.1	818.8	47.30	18.310	
9,100.0	9,081.3	9,183.7	9,081.3	16.3	29.7	-84.42	-0.9	-1,120.0	866.1	818.7	47.39	18.277	
9,200.0	9,181.3	9,283.7	9,181.3	16.3	29.7	-84.42	-0.9	-1,120.0	866.1	818.6	47.47	18.244	
9,300.0	9,281.3	9,383.7	9,281.3	16.4	29.8	-84.42	-0.9	-1,120.0	866.1	818.5	47.56	18.211	
9,400.0	9,381.3	9,483.7	9,381.3	16.5	29.8	-84.42	-0.9	-1,120.0	866.1	818.4	47.65	18.178	
9,500.0	9,481.3	9,583.7	9,481.3	16.5	29.8	-84.42	-0.9	-1,120.0	866.1	818.4	47.73	18.145	
9,600.0	9,581.3	9,683.7	9,581.3	16.6	29.9	-84.42	-0.9	-1,120.0	866.1	818.3	47.82	18.111	
9,700.0	9,681.3	9,783.7	9,681.3	16.7	29.9	-84.42	-0.9	-1,120.0	866.1	818.2	47.91	18.078	
9,800.0	9,781.3	9,883.7	9,781.3	16.8	29.9	-84.42	-0.9	-1,120.0	866.1	818.1	48.00	18.045	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,881.3	9,983.7	9,881.3	16.8	30.0	-84.42	-0.9	-1,120.0	866.1	818.0	48.09	18.011	
10,000.0	9,981.3	10,083.7	9,981.3	16.9	30.0	-84.42	-0.9	-1,120.0	866.1	817.9	48.18	17.978	
10,100.0	10,081.3	10,183.7	10,081.3	17.0	30.0	-84.42	-0.9	-1,120.0	866.1	817.8	48.26	17.945	
10,200.0	10,181.3	10,283.7	10,181.3	17.0	30.1	-84.42	-0.9	-1,120.0	866.1	817.7	48.35	17.911	
10,300.0	10,281.3	10,383.7	10,281.3	17.1	30.1	-84.42	-0.9	-1,120.0	866.1	817.6	48.45	17.878	
10,400.0	10,381.3	10,483.7	10,381.3	17.2	30.1	-84.42	-0.9	-1,120.0	866.1	817.6	48.54	17.844	
10,500.0	10,481.3	10,583.7	10,481.3	17.3	30.2	-84.42	-0.9	-1,120.0	866.1	817.5	48.63	17.811	
10,600.0	10,581.3	10,683.7	10,581.3	17.3	30.2	-84.42	-0.9	-1,120.0	866.1	817.4	48.72	17.777	
10,700.0	10,681.3	10,783.7	10,681.3	17.4	30.2	-84.42	-0.9	-1,120.0	866.1	817.3	48.81	17.744	
10,800.0	10,781.3	10,883.7	10,781.3	17.5	30.3	-84.42	-0.9	-1,120.0	866.1	817.2	48.90	17.711	
10,900.0	10,881.3	10,983.7	10,881.3	17.5	30.3	-84.42	-0.9	-1,120.0	866.1	817.1	48.99	17.677	
11,000.0	10,981.3	11,083.7	10,981.3	17.6	30.3	-84.42	-0.9	-1,120.0	866.1	817.0	49.09	17.644	
11,100.0	11,081.3	11,183.7	11,081.3	17.7	30.4	-84.42	-0.9	-1,120.0	866.1	816.9	49.18	17.610	
11,200.0	11,181.3	11,283.7	11,181.3	17.8	30.4	-84.42	-0.9	-1,120.0	866.1	816.8	49.27	17.577	
11,300.0	11,281.3	11,383.7	11,281.3	17.8	30.4	-84.42	-0.9	-1,120.0	866.1	816.7	49.37	17.543	
11,361.2	11,342.5	11,445.0	11,342.5	17.9	30.5	-84.42	-0.9	-1,120.0	866.1	816.7	49.41	17.529	
11,375.0	11,356.3	11,461.8	11,359.4	17.9	30.5	101.57	-1.2	-1,120.0	866.1	816.7	49.39	17.537	
11,400.0	11,381.2	11,492.5	11,389.9	17.9	30.5	101.53	-3.2	-1,120.0	866.2	816.9	49.34	17.556	
11,425.0	11,406.1	11,523.1	11,420.2	17.9	30.4	101.45	-7.2	-1,120.0	866.4	817.1	49.29	17.579	
11,450.0	11,430.8	11,553.6	11,450.2	17.9	30.4	101.34	-13.2	-1,119.9	866.7	817.5	49.24	17.603	
11,475.0	11,455.2	11,584.0	11,479.6	17.9	30.4	101.19	-21.0	-1,119.9	867.1	817.9	49.19	17.628	
11,500.0	11,479.3	11,614.3	11,508.3	17.9	30.4	101.01	-30.6	-1,119.9	867.6	818.5	49.15	17.654	
11,525.0	11,503.1	11,644.4	11,536.2	17.9	30.4	100.79	-41.9	-1,119.8	868.2	819.1	49.11	17.681	
11,550.0	11,526.4	11,674.4	11,563.2	17.9	30.4	100.54	-54.9	-1,119.8	868.9	819.9	49.07	17.708	
11,575.0	11,549.2	11,704.1	11,589.1	17.9	30.4	100.26	-69.5	-1,119.7	869.8	820.7	49.04	17.735	
11,600.0	11,571.4	11,733.7	11,613.9	18.0	30.4	99.95	-85.5	-1,119.6	870.7	821.7	49.02	17.761	
11,625.0	11,593.0	11,763.0	11,637.5	18.0	30.4	99.60	-102.9	-1,119.5	871.7	822.7	49.00	17.788	
11,650.0	11,614.0	11,792.1	11,659.8	18.0	30.5	99.23	-121.6	-1,119.5	872.8	823.8	49.00	17.814	
11,675.0	11,634.2	11,820.9	11,680.8	18.0	30.5	98.84	-141.4	-1,119.4	874.0	825.0	48.99	17.839	
11,700.0	11,653.5	11,849.5	11,700.3	18.0	30.5	98.42	-162.2	-1,119.3	875.4	826.4	49.00	17.864	
11,725.0	11,672.1	11,877.7	11,718.4	18.1	30.5	97.97	-183.9	-1,119.2	876.8	827.8	49.02	17.888	
11,750.0	11,689.7	11,905.7	11,735.0	18.1	30.5	97.51	-206.5	-1,119.1	878.3	829.3	49.04	17.911	
11,775.0	11,706.4	11,933.4	11,750.1	18.1	30.5	97.03	-229.7	-1,119.0	879.9	830.9	49.07	17.933	
11,800.0	11,722.1	11,960.9	11,763.7	18.1	30.5	96.53	-253.5	-1,118.9	881.7	832.6	49.11	17.953	
11,825.0	11,736.7	11,988.0	11,775.8	18.2	30.5	96.01	-277.8	-1,118.8	883.5	834.3	49.16	17.972	
11,850.0	11,750.3	12,014.9	11,786.4	18.2	30.6	95.48	-302.5	-1,118.6	885.4	836.2	49.21	17.990	
11,875.0	11,762.7	12,041.4	11,795.5	18.2	30.6	94.94	-327.4	-1,118.5	887.4	838.1	49.28	18.007	
11,900.0	11,774.0	12,067.7	11,803.1	18.3	30.6	94.39	-352.6	-1,118.4	889.4	840.1	49.35	18.022	
11,925.0	11,784.1	12,093.8	11,809.3	18.3	30.6	93.82	-377.9	-1,118.3	891.6	842.2	49.44	18.035	
11,950.0	11,793.0	12,119.5	11,814.0	18.3	30.6	93.26	-403.2	-1,118.2	893.8	844.3	49.53	18.048	
11,975.0	11,800.7	12,145.0	11,817.4	18.4	30.7	92.68	-428.5	-1,118.1	896.1	846.5	49.62	18.058	
12,000.0	11,807.1	12,170.2	11,819.3	18.4	30.7	92.10	-453.6	-1,118.0	898.4	848.7	49.73	18.068	
12,025.0	11,812.2	12,195.2	11,820.0	18.4	30.7	91.52	-478.6	-1,117.9	900.8	851.0	49.84	18.076	
12,050.0	11,816.0	12,219.8	11,820.0	18.5	30.8	90.98	-503.2	-1,117.7	903.3	853.3	49.95	18.084	
12,075.0	11,818.6	12,244.6	11,820.0	18.5	30.8	90.52	-527.9	-1,117.6	905.8	855.7	50.06	18.095	
12,100.0	11,819.8	12,269.4	11,820.0	18.6	30.8	90.14	-552.7	-1,117.5	908.3	858.1	50.15	18.109	
12,111.2	11,820.0	12,280.6	11,820.0	18.6	30.8	90.00	-563.9	-1,117.5	909.4	859.2	50.19	18.117	
12,200.0	11,820.0	12,369.0	11,820.0	18.8	31.0	90.00	-652.4	-1,117.1	916.9	866.3	50.56	18.134	
12,300.0	11,820.0	12,468.9	11,820.0	19.0	31.2	90.00	-752.2	-1,116.6	922.1	871.0	51.05	18.063	
12,400.0	11,820.0	12,568.9	11,820.0	19.3	31.4	90.00	-852.2	-1,116.2	923.8	872.2	51.60	17.903	
12,411.6	11,820.0	12,580.5	11,820.0	19.4	31.4	90.00	-863.8	-1,116.1	923.7	872.1	51.66	17.881	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,500.0	11,820.0	12,668.9	11,820.0	19.6	31.7	90.00	-952.2	-1,115.7	923.3	871.1	52.18	17.693			
12,600.0	11,820.0	12,768.9	11,820.0	20.0	31.9	90.00	-1,052.2	-1,115.3	922.9	870.0	52.84	17.466			
12,700.0	11,820.0	12,868.9	11,820.0	20.4	32.2	90.00	-1,152.2	-1,114.8	922.4	868.8	53.55	17.225			
12,800.0	11,820.0	12,968.9	11,820.0	20.9	32.6	90.00	-1,252.2	-1,114.4	921.9	867.6	54.32	16.972			
12,900.0	11,820.0	13,068.9	11,820.0	21.4	32.9	90.00	-1,352.2	-1,113.9	921.5	866.3	55.15	16.709			
13,000.0	11,820.0	13,168.8	11,820.0	21.9	33.3	90.00	-1,452.2	-1,113.5	921.0	865.0	56.03	16.439			
13,100.0	11,820.0	13,268.8	11,820.0	22.5	33.7	90.00	-1,552.2	-1,113.0	920.6	863.6	56.96	16.163			
13,200.0	11,820.0	13,368.8	11,820.0	23.1	34.1	90.00	-1,652.2	-1,112.6	920.1	862.2	57.93	15.882			
13,300.0	11,820.0	13,468.8	11,820.0	23.7	34.6	90.00	-1,752.2	-1,112.1	919.6	860.7	58.95	15.599			
13,400.0	11,820.0	13,568.8	11,820.0	24.3	35.1	90.00	-1,852.2	-1,111.7	919.2	859.1	60.02	15.315			
13,500.0	11,820.0	13,668.8	11,820.0	25.0	35.6	90.00	-1,952.2	-1,111.2	918.7	857.6	61.12	15.030			
13,600.0	11,820.0	13,768.8	11,820.0	25.7	36.1	90.00	-2,052.2	-1,110.8	918.2	856.0	62.27	14.747			
13,700.0	11,820.0	13,868.8	11,820.0	26.4	36.6	90.00	-2,152.2	-1,110.3	917.8	854.3	63.45	14.465			
13,800.0	11,820.0	13,968.8	11,820.0	27.1	37.2	90.00	-2,252.2	-1,109.9	917.3	852.7	64.66	14.186			
13,900.0	11,820.0	14,068.8	11,820.0	27.9	37.7	90.00	-2,352.2	-1,109.4	916.9	850.9	65.91	13.911			
14,000.0	11,820.0	14,168.8	11,820.0	28.6	38.3	90.00	-2,452.2	-1,109.0	916.4	849.2	67.19	13.639			
14,100.0	11,820.0	14,268.8	11,820.0	29.4	38.9	90.00	-2,552.2	-1,108.6	915.9	847.4	68.49	13.372			
14,200.0	11,820.0	14,368.8	11,820.0	30.2	39.5	90.00	-2,652.2	-1,108.1	915.5	845.6	69.83	13.110			
14,300.0	11,820.0	14,468.8	11,820.0	31.0	40.1	90.00	-2,752.2	-1,107.7	915.0	843.8	71.19	12.853			
14,400.0	11,820.0	14,568.8	11,820.0	31.8	40.8	90.00	-2,852.2	-1,107.2	914.5	842.0	72.57	12.602			
14,500.0	11,820.0	14,668.8	11,820.0	32.6	41.4	90.00	-2,952.2	-1,106.8	914.1	840.1	73.98	12.356			
14,600.0	11,820.0	14,768.8	11,820.0	33.4	42.1	90.00	-3,052.2	-1,106.3	913.6	838.2	75.41	12.116			
14,700.0	11,820.0	14,868.8	11,820.0	34.2	42.8	90.00	-3,152.2	-1,105.9	913.1	836.3	76.86	11.881			
14,800.0	11,820.0	14,968.8	11,820.0	35.0	43.4	90.00	-3,252.2	-1,105.4	912.7	834.4	78.33	11.652			
14,900.0	11,820.0	15,068.8	11,820.0	35.9	44.1	90.00	-3,352.2	-1,105.0	912.2	832.4	79.81	11.430			
15,000.0	11,820.0	15,168.8	11,820.0	36.7	44.8	90.00	-3,452.2	-1,104.5	911.8	830.4	81.32	11.212			
15,100.0	11,820.0	15,268.8	11,820.0	37.6	45.6	90.00	-3,552.1	-1,104.1	911.3	828.5	82.84	11.001			
15,200.0	11,820.0	15,368.8	11,820.0	38.4	46.3	90.00	-3,652.1	-1,103.6	910.8	826.5	84.37	10.795			
15,300.0	11,820.0	15,468.8	11,820.0	39.3	47.0	90.00	-3,752.1	-1,103.2	910.4	824.5	85.92	10.595			
15,400.0	11,820.0	15,568.8	11,820.0	40.1	47.8	90.00	-3,852.1	-1,102.7	909.9	822.4	87.49	10.401			
15,500.0	11,820.0	15,668.8	11,820.0	41.0	48.5	90.00	-3,952.1	-1,102.3	909.4	820.4	89.06	10.211			
15,600.0	11,820.0	15,768.8	11,820.0	41.9	49.3	90.00	-4,052.1	-1,101.8	909.0	818.3	90.65	10.027			
15,700.0	11,820.0	15,868.8	11,820.0	42.8	50.0	90.00	-4,152.1	-1,101.4	908.5	816.3	92.25	9.848			
15,800.0	11,820.0	15,968.8	11,820.0	43.6	50.8	90.00	-4,252.1	-1,100.9	908.1	814.2	93.87	9.674			
15,900.0	11,820.0	16,068.8	11,820.0	44.5	51.6	90.00	-4,352.1	-1,100.5	907.6	812.1	95.49	9.505			
16,000.0	11,820.0	16,168.8	11,820.0	45.4	52.3	90.00	-4,452.1	-1,100.0	907.1	810.0	97.12	9.340			
16,100.0	11,820.0	16,268.8	11,820.0	46.3	53.1	90.00	-4,552.1	-1,099.6	906.7	807.9	98.76	9.180			
16,200.0	11,820.0	16,368.8	11,820.0	47.2	53.9	90.00	-4,652.1	-1,099.1	906.2	805.8	100.41	9.025			
16,300.0	11,820.0	16,468.8	11,820.0	48.1	54.7	90.00	-4,752.1	-1,098.7	905.7	803.7	102.07	8.873			
16,400.0	11,820.0	16,568.8	11,820.0	49.0	55.5	90.00	-4,852.1	-1,098.2	905.3	801.5	103.74	8.726			
16,500.0	11,820.0	16,668.8	11,820.0	49.9	56.3	90.00	-4,952.1	-1,097.8	904.8	799.4	105.42	8.583			
16,600.0	11,820.0	16,768.8	11,820.0	50.8	57.2	90.00	-5,052.1	-1,097.3	904.4	797.3	107.10	8.444			
16,700.0	11,820.0	16,868.8	11,820.0	51.7	58.0	90.00	-5,152.1	-1,096.9	903.9	795.1	108.79	8.309			
16,800.0	11,820.0	16,968.8	11,820.0	52.6	58.8	90.00	-5,252.1	-1,096.4	903.4	792.9	110.49	8.177			
16,900.0	11,820.0	17,068.8	11,820.0	53.5	59.6	90.00	-5,352.1	-1,096.0	903.0	790.8	112.19	8.048			
17,000.0	11,820.0	17,168.8	11,820.0	54.4	60.5	90.00	-5,452.1	-1,095.5	902.5	788.6	113.90	7.924			
17,100.0	11,820.0	17,268.8	11,820.0	55.3	61.3	90.00	-5,552.1	-1,095.1	902.0	786.4	115.62	7.802			
17,200.0	11,820.0	17,368.8	11,820.0	56.2	62.1	90.00	-5,652.1	-1,094.6	901.6	784.2	117.34	7.684			
17,300.0	11,820.0	17,468.8	11,820.0	57.2	63.0	90.00	-5,752.1	-1,094.2	901.1	782.1	119.06	7.568			
17,400.0	11,820.0	17,568.8	11,820.0	58.1	63.8	90.00	-5,852.1	-1,093.8	900.7	779.9	120.80	7.456			
17,500.0	11,820.0	17,668.8	11,820.0	59.0	64.7	90.00	-5,952.1	-1,093.3	900.2	777.7	122.53	7.347			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		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
17,600.0	11,820.0	17,768.8	11,820.0	59.9	65.5	90.00	-6,052.1	-1,092.9	899.7	775.5	124.27	7.240	
17,700.0	11,820.0	17,868.8	11,820.0	60.8	66.4	90.00	-6,152.1	-1,092.4	899.3	773.3	126.02	7.136	
17,800.0	11,820.0	17,968.8	11,820.0	61.8	67.2	90.00	-6,252.1	-1,092.0	898.8	771.0	127.77	7.035	
17,900.0	11,820.0	18,068.8	11,820.0	62.7	68.1	90.00	-6,352.1	-1,091.5	898.3	768.8	129.52	6.936	
18,000.0	11,820.0	18,168.8	11,820.0	63.6	68.9	90.00	-6,452.1	-1,091.1	897.9	766.6	131.28	6.839	
18,100.0	11,820.0	18,268.8	11,820.0	64.5	69.8	90.00	-6,552.1	-1,090.6	897.4	764.4	133.05	6.745	
18,200.0	11,820.0	18,368.8	11,820.0	65.5	70.7	90.00	-6,652.1	-1,090.2	897.0	762.1	134.81	6.653	
18,300.0	11,820.0	18,468.8	11,820.0	66.4	71.5	90.00	-6,752.1	-1,089.7	896.5	759.9	136.58	6.564	
18,400.0	11,820.0	18,568.8	11,820.0	67.3	72.4	90.00	-6,852.1	-1,089.3	896.0	757.7	138.35	6.476	
18,500.0	11,820.0	18,668.8	11,820.0	68.2	73.3	90.00	-6,952.1	-1,088.8	895.6	755.4	140.13	6.391	
18,600.0	11,820.0	18,768.8	11,820.0	69.2	74.2	90.00	-7,052.1	-1,088.4	895.1	753.2	141.91	6.308	
18,700.0	11,820.0	18,868.8	11,820.0	70.1	75.1	90.00	-7,152.1	-1,087.9	894.6	751.0	143.69	6.226	
18,800.0	11,820.0	18,968.8	11,820.0	71.0	75.9	90.00	-7,252.1	-1,087.5	894.2	748.7	145.48	6.147	
18,900.0	11,820.0	19,068.8	11,820.0	72.0	76.8	90.00	-7,352.1	-1,087.0	893.7	746.5	147.26	6.069	
19,000.0	11,820.0	19,168.8	11,820.0	72.9	77.7	90.00	-7,452.1	-1,086.6	893.3	744.2	149.06	5.993	
19,100.0	11,820.0	19,268.8	11,820.0	73.8	78.6	90.00	-7,552.1	-1,086.1	892.8	741.9	150.85	5.918	
19,200.0	11,820.0	19,368.8	11,820.0	74.8	79.5	90.00	-7,652.1	-1,085.7	892.3	739.7	152.64	5.846	
19,278.3	11,820.0	19,447.0	11,820.0	75.5	80.2	90.00	-7,730.3	-1,085.3	892.0	737.9	154.05	5.790	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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: Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
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	1,099.0	1,099.0	5.2	5.2	17.97	-0.7	-31.7	30.0	19.3	10.70	2.808		
1,200.0	1,199.8	1,197.9	1,197.8	5.4	5.4	19.62	-1.4	-36.8	30.2	19.1	11.16	2.707		
1,300.0	1,299.5	1,296.9	1,296.4	5.7	5.7	22.32	-2.7	-45.2	30.5	18.9	11.62	2.627 ES		
1,400.0	1,398.7	1,395.8	1,394.6	6.0	6.0	26.00	-4.4	-57.0	31.1	19.0	12.09	2.572		
1,454.9	1,453.0	1,450.3	1,448.5	6.1	6.1	28.40	-5.6	-64.9	31.5	19.3	12.21	2.581		
1,500.0	1,497.5	1,495.4	1,493.0	6.1	6.1	30.58	-6.6	-71.7	31.8	19.4	12.32	2.577		
1,600.0	1,596.3	1,595.4	1,591.8	6.4	6.4	35.30	-8.8	-86.7	32.4	19.7	12.70	2.554		
1,700.0	1,695.0	1,695.3	1,690.6	6.7	6.6	39.78	-11.0	-101.7	33.3	20.2	13.08	2.547 SF		
1,800.0	1,793.7	1,795.3	1,789.4	6.9	6.9	44.01	-13.3	-116.7	34.4	21.0	13.45	2.558		
1,900.0	1,892.5	1,895.2	1,888.2	7.2	7.2	47.97	-15.5	-131.7	35.7	21.9	13.81	2.583		
2,000.0	1,991.2	1,995.2	1,987.0	7.6	7.6	51.63	-17.7	-146.7	37.1	22.9	14.15	2.621		
2,100.0	2,090.0	2,095.2	2,085.9	7.9	7.9	55.02	-19.9	-161.7	38.6	24.2	14.48	2.669		
2,200.0	2,188.7	2,195.1	2,184.7	8.2	8.2	58.13	-22.2	-176.7	40.3	25.5	14.79	2.727		
2,300.0	2,287.5	2,295.1	2,283.5	8.6	8.6	60.98	-24.4	-191.7	42.1	27.0	15.09	2.792		
2,400.0	2,386.2	2,395.1	2,382.3	8.9	8.9	63.60	-26.6	-206.7	44.0	28.6	15.38	2.862		
2,488.9	2,473.9	2,483.9	2,470.1	9.3	9.2	65.74	-28.6	-220.1	45.8	30.1	15.61	2.931		
2,500.0	2,484.9	2,495.0	2,481.1	9.3	9.3	65.98	-28.8	-221.7	46.0	30.4	15.63	2.941		
2,600.0	2,583.8	2,595.0	2,579.9	9.7	9.7	67.03	-31.1	-236.8	48.4	32.4	16.04	3.020		
2,700.0	2,683.0	2,694.9	2,678.7	10.1	10.0	66.19	-33.3	-251.8	51.6	35.1	16.54	3.119		
2,800.0	2,782.4	2,794.8	2,777.4	10.4	10.4	63.81	-35.5	-266.8	55.5	38.3	17.19	3.229		
2,900.0	2,881.9	2,894.6	2,876.1	10.8	10.8	60.31	-37.7	-281.7	60.3	42.3	18.00	3.352		
3,000.0	2,981.6	2,994.4	2,974.6	11.1	11.2	56.08	-39.9	-296.7	66.3	47.4	18.94	3.501		
3,100.0	3,081.4	3,093.9	3,073.0	11.4	11.6	51.50	-42.2	-311.7	73.7	53.7	20.00	3.685		
3,200.0	3,181.3	3,193.3	3,171.3	11.8	12.0	46.91	-44.4	-326.6	82.6	61.5	21.10	3.917		
3,300.0	3,281.3	3,292.5	3,269.3	12.0	12.4	42.51	-46.6	-341.5	93.3	71.1	22.19	4.204		
3,398.7	3,380.0	3,390.2	3,365.9	12.2	12.8	-69.73	-48.7	-356.1	105.6	82.4	23.16	4.558		
3,400.0	3,381.3	3,391.5	3,367.1	12.2	12.8	-69.78	-48.8	-356.3	105.7	82.6	23.17	4.563		
3,500.0	3,481.3	3,490.3	3,464.8	12.6	13.2	-73.26	-51.0	-371.2	119.3	95.0	24.35	4.900		
3,600.0	3,581.3	3,589.2	3,562.5	12.6	13.6	-76.04	-53.2	-386.0	133.2	108.1	25.09	5.311		
3,700.0	3,681.3	3,688.0	3,660.2	12.7	14.0	-78.28	-55.4	-400.8	147.4	121.6	25.77	5.720		
3,800.0	3,781.3	3,786.8	3,757.9	12.8	14.4	-80.13	-57.6	-415.7	161.7	135.3	26.41	6.124		
3,900.0	3,881.3	3,885.7	3,855.6	12.8	14.8	-81.68	-59.8	-430.5	176.2	149.2	27.03	6.520		
4,000.0	3,981.3	3,984.5	3,953.3	12.9	15.2	-82.99	-62.0	-445.4	190.8	163.2	27.63	6.907		
4,100.0	4,081.3	4,083.4	4,051.0	13.0	15.6	-84.12	-64.2	-460.2	205.5	177.3	28.21	7.284		
4,200.0	4,181.3	4,182.2	4,148.7	13.0	16.0	-85.09	-66.4	-475.0	220.3	191.5	28.79	7.651		
4,300.0	4,281.3	4,281.0	4,246.4	13.1	16.4	-85.94	-68.6	-489.9	235.1	205.7	29.36	8.006		
4,400.0	4,381.3	4,379.9	4,344.1	13.1	16.9	-86.70	-70.8	-504.7	249.9	220.0	29.93	8.351		
4,500.0	4,481.3	4,478.7	4,441.8	13.2	17.3	-87.36	-73.0	-519.6	264.8	234.3	30.49	8.685		
4,600.0	4,581.3	4,577.6	4,539.5	13.3	17.7	-87.96	-75.2	-534.4	279.7	248.7	31.05	9.009		
4,700.0	4,681.3	4,676.4	4,637.2	13.3	18.1	-88.50	-77.4	-549.2	294.7	263.0	31.61	9.322		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
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)			
4,800.0	4,781.3	4,775.3	4,734.9	13.4	18.5	-88.98	-79.6	-564.1	309.6	277.4	32.17	9.625	
4,900.0	4,881.3	4,874.1	4,832.6	13.5	18.9	-89.42	-81.7	-578.9	324.6	291.9	32.73	9.918	
5,000.0	4,981.3	4,972.9	4,930.3	13.5	19.4	-89.82	-83.9	-593.8	339.6	306.3	33.29	10.201	
5,100.0	5,081.3	5,071.8	5,028.0	13.6	19.8	-90.19	-86.1	-608.6	354.6	320.8	33.85	10.476	
5,200.0	5,181.3	5,170.6	5,125.7	13.6	20.2	-90.52	-88.3	-623.4	369.6	335.2	34.41	10.741	
5,300.0	5,281.3	5,269.5	5,223.4	13.7	20.6	-90.84	-90.5	-638.3	384.7	349.7	34.97	11.001	
5,400.0	5,381.3	5,375.1	5,327.9	13.8	21.1	-91.13	-92.8	-653.3	399.0	363.4	35.56	11.219	
5,500.0	5,481.3	5,481.8	5,433.8	13.8	21.5	-91.36	-94.7	-666.6	411.4	375.3	36.14	11.384	
5,600.0	5,581.3	5,589.0	5,540.3	13.9	21.9	-91.56	-96.4	-677.9	422.0	385.3	36.69	11.503	
5,700.0	5,681.3	5,696.5	5,647.5	14.0	22.3	-91.71	-97.8	-687.3	430.8	393.6	37.21	11.578	
5,800.0	5,781.3	5,804.4	5,755.1	14.0	22.7	-91.82	-98.9	-694.7	437.7	400.0	37.69	11.613	
5,900.0	5,881.3	5,912.5	5,863.1	14.1	23.1	-91.91	-99.7	-700.1	442.8	404.6	38.13	11.611	
6,000.0	5,981.3	6,020.8	5,971.3	14.2	23.4	-91.96	-100.2	-703.6	445.9	407.4	38.52	11.577	
6,100.0	6,081.3	6,129.2	6,079.7	14.2	23.7	-91.98	-100.4	-705.0	447.2	408.4	38.79	11.530	
6,200.0	6,181.3	6,230.8	6,181.3	14.3	23.7	-91.98	-100.4	-705.0	447.3	408.4	38.87	11.506	
6,300.0	6,281.3	6,330.8	6,281.3	14.4	23.7	-91.98	-100.4	-705.0	447.3	408.3	38.96	11.481	
6,400.0	6,381.3	6,430.8	6,381.3	14.4	23.8	-91.98	-100.4	-705.0	447.3	408.2	39.04	11.456	
6,500.0	6,481.3	6,530.8	6,481.3	14.5	23.8	-91.98	-100.4	-705.0	447.3	408.1	39.13	11.430	
6,600.0	6,581.3	6,630.8	6,581.3	14.6	23.8	-91.98	-100.4	-705.0	447.3	408.0	39.22	11.405	
6,700.0	6,681.3	6,730.8	6,681.3	14.6	23.9	-91.98	-100.4	-705.0	447.3	408.0	39.31	11.379	
6,800.0	6,781.3	6,830.8	6,781.3	14.7	23.9	-91.98	-100.4	-705.0	447.3	407.9	39.39	11.353	
6,900.0	6,881.3	6,930.8	6,881.3	14.8	23.9	-91.98	-100.4	-705.0	447.3	407.8	39.48	11.328	
7,000.0	6,981.3	7,030.8	6,981.3	14.8	24.0	-91.98	-100.4	-705.0	447.3	407.7	39.57	11.302	
7,100.0	7,081.3	7,130.8	7,081.3	14.9	24.0	-91.98	-100.4	-705.0	447.3	407.6	39.66	11.277	
7,200.0	7,181.3	7,230.8	7,181.3	15.0	24.0	-91.98	-100.4	-705.0	447.3	407.5	39.75	11.251	
7,300.0	7,281.3	7,330.8	7,281.3	15.0	24.1	-91.98	-100.4	-705.0	447.3	407.4	39.84	11.226	
7,400.0	7,381.3	7,430.8	7,381.3	15.1	24.1	-91.98	-100.4	-705.0	447.3	407.3	39.93	11.200	
7,500.0	7,481.3	7,530.8	7,481.3	15.2	24.1	-91.98	-100.4	-705.0	447.3	407.2	40.03	11.174	
7,600.0	7,581.3	7,630.8	7,581.3	15.2	24.2	-91.98	-100.4	-705.0	447.3	407.1	40.12	11.149	
7,700.0	7,681.3	7,730.8	7,681.3	15.3	24.2	-91.98	-100.4	-705.0	447.3	407.1	40.21	11.123	
7,800.0	7,781.3	7,830.8	7,781.3	15.4	24.3	-91.98	-100.4	-705.0	447.3	407.0	40.30	11.097	
7,900.0	7,881.3	7,930.8	7,881.3	15.4	24.3	-91.98	-100.4	-705.0	447.3	406.9	40.40	11.072	
8,000.0	7,981.3	8,030.8	7,981.3	15.5	24.3	-91.98	-100.4	-705.0	447.3	406.8	40.49	11.046	
8,100.0	8,081.3	8,130.8	8,081.3	15.6	24.4	-91.98	-100.4	-705.0	447.3	406.7	40.59	11.020	
8,200.0	8,181.3	8,230.8	8,181.3	15.6	24.4	-91.98	-100.4	-705.0	447.3	406.6	40.68	10.995	
8,300.0	8,281.3	8,330.8	8,281.3	15.7	24.4	-91.98	-100.4	-705.0	447.3	406.5	40.77	10.969	
8,400.0	8,381.3	8,430.8	8,381.3	15.8	24.5	-91.98	-100.4	-705.0	447.3	406.4	40.87	10.943	
8,500.0	8,481.3	8,530.8	8,481.3	15.9	24.5	-91.98	-100.4	-705.0	447.3	406.3	40.97	10.918	
8,600.0	8,581.3	8,630.8	8,581.3	15.9	24.5	-91.98	-100.4	-705.0	447.3	406.2	41.06	10.892	
8,700.0	8,681.3	8,730.8	8,681.3	16.0	24.6	-91.98	-100.4	-705.0	447.3	406.1	41.16	10.867	
8,800.0	8,781.3	8,830.8	8,781.3	16.1	24.6	-91.98	-100.4	-705.0	447.3	406.0	41.26	10.841	
8,900.0	8,881.3	8,930.8	8,881.3	16.1	24.7	-91.98	-100.4	-705.0	447.3	405.9	41.35	10.815	
9,000.0	8,981.3	9,030.8	8,981.3	16.2	24.7	-91.98	-100.4	-705.0	447.3	405.8	41.45	10.790	
9,100.0	9,081.3	9,130.8	9,081.3	16.3	24.7	-91.98	-100.4	-705.0	447.3	405.7	41.55	10.764	
9,200.0	9,181.3	9,230.8	9,181.3	16.3	24.8	-91.98	-100.4	-705.0	447.3	405.6	41.65	10.739	
9,300.0	9,281.3	9,330.8	9,281.3	16.4	24.8	-91.98	-100.4	-705.0	447.3	405.5	41.75	10.713	
9,400.0	9,381.3	9,430.8	9,381.3	16.5	24.9	-91.98	-100.4	-705.0	447.3	405.4	41.85	10.688	
9,500.0	9,481.3	9,530.8	9,481.3	16.5	24.9	-91.98	-100.4	-705.0	447.3	405.3	41.95	10.662	
9,600.0	9,581.3	9,630.8	9,581.3	16.6	24.9	-91.98	-100.4	-705.0	447.3	405.2	42.05	10.637	
9,700.0	9,681.3	9,730.8	9,681.3	16.7	25.0	-91.98	-100.4	-705.0	447.3	405.1	42.15	10.612	
9,800.0	9,781.3	9,830.8	9,781.3	16.8	25.0	-91.98	-100.4	-705.0	447.3	405.0	42.25	10.586	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,881.3	9,930.8	9,881.3	16.8	25.0	-91.98	-100.4	-705.0	447.3	404.9	42.35	10.561		
10,000.0	9,981.3	10,030.8	9,981.3	16.9	25.1	-91.98	-100.4	-705.0	447.3	404.8	42.45	10.536		
10,100.0	10,081.3	10,130.8	10,081.3	17.0	25.1	-91.98	-100.4	-705.0	447.3	404.7	42.55	10.510		
10,200.0	10,181.3	10,230.8	10,181.3	17.0	25.2	-91.98	-100.4	-705.0	447.3	404.6	42.66	10.485		
10,300.0	10,281.3	10,330.8	10,281.3	17.1	25.2	-91.98	-100.4	-705.0	447.3	404.5	42.76	10.460		
10,400.0	10,381.3	10,430.8	10,381.3	17.2	25.3	-91.98	-100.4	-705.0	447.3	404.4	42.86	10.435		
10,500.0	10,481.3	10,530.8	10,481.3	17.3	25.3	-91.98	-100.4	-705.0	447.3	404.3	42.97	10.409		
10,600.0	10,581.3	10,630.8	10,581.3	17.3	25.3	-91.98	-100.4	-705.0	447.3	404.2	43.07	10.384		
10,700.0	10,681.3	10,730.8	10,681.3	17.4	25.4	-91.98	-100.4	-705.0	447.3	404.1	43.18	10.359		
10,800.0	10,781.3	10,830.8	10,781.3	17.5	25.4	-91.98	-100.4	-705.0	447.3	404.0	43.28	10.334		
10,900.0	10,881.3	10,930.8	10,881.3	17.5	25.5	-91.98	-100.4	-705.0	447.3	403.9	43.39	10.309		
11,000.0	10,981.3	11,030.8	10,981.3	17.6	25.5	-91.98	-100.4	-705.0	447.3	403.8	43.49	10.284		
11,100.0	11,081.3	11,130.8	11,081.3	17.7	25.5	-91.98	-100.4	-705.0	447.3	403.7	43.60	10.259		
11,200.0	11,181.3	11,231.2	11,181.7	17.8	25.6	-91.99	-100.5	-705.0	447.3	403.6	43.69	10.237		
11,300.0	11,281.3	11,333.8	11,283.2	17.8	25.6	-93.64	-113.4	-703.9	446.8	403.0	43.80	10.202		
11,332.1	11,313.3	11,365.0	11,313.3	17.8	25.6	-94.70	-121.6	-703.3	446.8	402.9	43.86	10.185		
11,361.2	11,342.5	11,392.4	11,339.2	17.9	25.6	-95.83	-130.4	-702.5	446.9	402.9	43.94	10.170		
11,375.0	11,356.3	11,404.9	11,351.0	17.9	25.6	89.59	-134.9	-702.2	447.0	403.0	43.97	10.165		
11,400.0	11,381.2	11,427.5	11,371.7	17.9	25.6	88.55	-143.8	-701.4	447.4	403.3	44.03	10.161		
11,425.0	11,406.1	11,450.0	11,391.9	17.9	25.6	87.51	-153.6	-700.6	447.9	403.9	44.09	10.160		
11,450.0	11,430.8	11,471.7	11,411.0	17.9	25.6	86.49	-164.0	-699.8	448.7	404.5	44.15	10.163		
11,475.0	11,455.2	11,493.4	11,429.5	17.9	25.6	85.48	-175.2	-698.8	449.6	405.4	44.22	10.168		
11,500.0	11,479.3	11,514.7	11,447.2	17.9	25.7	84.49	-187.1	-697.9	450.7	406.4	44.29	10.175		
11,525.0	11,503.1	11,535.8	11,464.2	17.9	25.7	83.52	-199.5	-696.8	451.9	407.5	44.37	10.184		
11,550.0	11,526.4	11,556.7	11,480.4	17.9	25.7	82.56	-212.6	-695.8	453.2	408.8	44.46	10.194		
11,575.0	11,549.2	11,577.3	11,495.9	17.9	25.7	81.63	-226.2	-694.7	454.7	410.1	44.56	10.204		
11,600.0	11,571.4	11,597.7	11,510.6	18.0	25.7	80.72	-240.3	-693.5	456.2	411.6	44.66	10.215		
11,625.0	11,593.0	11,618.0	11,524.6	18.0	25.7	79.83	-254.9	-692.3	457.9	413.1	44.77	10.226		
11,650.0	11,614.0	11,638.0	11,537.8	18.0	25.7	78.98	-269.9	-691.1	459.6	414.7	44.89	10.237		
11,675.0	11,634.2	11,657.9	11,550.3	18.0	25.7	78.15	-285.3	-689.8	461.4	416.3	45.02	10.248		
11,700.0	11,653.5	11,677.6	11,562.0	18.0	25.8	77.36	-301.1	-688.5	463.2	418.0	45.16	10.257		
11,725.0	11,672.1	11,697.2	11,573.0	18.1	25.8	76.59	-317.2	-687.2	465.0	419.7	45.30	10.266		
11,750.0	11,689.7	11,716.6	11,583.2	18.1	25.8	75.86	-333.7	-685.8	466.9	421.4	45.44	10.274		
11,775.0	11,706.4	11,735.9	11,592.7	18.1	25.8	75.17	-350.4	-684.4	468.7	423.1	45.59	10.281		
11,800.0	11,722.1	11,755.1	11,601.5	18.1	25.8	74.51	-367.4	-683.0	470.6	424.8	45.74	10.287		
11,825.0	11,736.7	11,775.0	11,609.9	18.2	25.8	73.87	-385.4	-681.6	472.4	426.5	45.90	10.292		
11,850.0	11,750.3	11,793.1	11,616.8	18.2	25.9	73.30	-402.1	-680.2	474.1	428.1	46.05	10.295		
11,875.0	11,762.7	11,812.0	11,623.4	18.2	25.9	72.76	-419.8	-678.7	475.9	429.7	46.21	10.298		
11,900.0	11,774.0	11,830.9	11,629.2	18.3	25.9	72.25	-437.6	-677.3	477.6	431.2	46.36	10.300		
11,925.0	11,784.1	11,850.0	11,634.5	18.3	25.9	71.77	-456.0	-675.8	479.2	432.7	46.51	10.301		
11,950.0	11,793.0	11,868.3	11,638.7	18.3	25.9	71.35	-473.7	-674.3	480.7	434.0	46.66	10.302		
11,975.0	11,800.7	11,886.9	11,642.4	18.4	26.0	70.97	-491.9	-672.8	482.2	435.4	46.80	10.302		
12,000.0	11,807.1	11,905.5	11,645.3	18.4	26.0	70.62	-510.1	-671.3	483.5	436.6	46.94	10.302		
12,025.0	11,812.2	11,925.0	11,647.6	18.4	26.0	70.31	-529.5	-669.7	484.8	437.7	47.07	10.299		
12,050.0	11,816.0	11,942.5	11,649.0	18.5	26.0	70.05	-546.8	-668.3	485.9	438.7	47.18	10.299		
12,075.0	11,818.6	11,960.9	11,649.8	18.5	26.1	69.83	-565.2	-666.8	487.0	439.7	47.29	10.297		
12,100.0	11,819.8	11,980.6	11,650.0	18.6	26.1	69.65	-584.8	-665.2	487.9	440.5	47.41	10.291		
12,111.2	11,820.0	11,990.3	11,650.0	18.6	26.1	69.61	-594.4	-664.4	488.2	440.7	47.46	10.286		
12,200.0	11,820.0	12,066.7	11,650.0	18.8	26.2	69.71	-670.8	-659.7	490.5	442.5	47.94	10.230		
12,300.0	11,820.0	12,152.9	11,650.0	19.0	26.4	69.81	-756.8	-656.8	492.5	444.0	48.54	10.147		
12,400.0	11,820.0	12,245.2	11,650.0	19.3	26.6	69.87	-849.2	-656.1	493.9	444.6	49.26	10.026		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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
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
12,411.6	11,820.0	12,256.9	11,650.0	19.4	26.7	69.87	-860.8	-656.1	493.9	444.5	49.36	10.007	
12,500.0	11,820.0	12,345.2	11,650.0	19.6	26.9	69.86	-949.2	-655.9	493.7	443.6	50.12	9.850	
12,600.0	11,820.0	12,445.2	11,650.0	20.0	27.2	69.85	-1,049.2	-655.7	493.4	442.4	51.04	9.668	
12,700.0	11,820.0	12,545.2	11,650.0	20.4	27.5	69.84	-1,149.2	-655.4	493.2	441.2	52.01	9.483	
12,800.0	11,820.0	12,645.2	11,650.0	20.9	27.9	69.83	-1,249.2	-655.2	493.0	439.9	53.03	9.296	
12,900.0	11,820.0	12,745.2	11,650.0	21.4	28.2	69.82	-1,349.2	-654.9	492.7	438.6	54.09	9.109	
13,000.0	11,820.0	12,845.2	11,650.0	21.9	28.6	69.81	-1,449.2	-654.7	492.5	437.3	55.20	8.922	
13,100.0	11,820.0	12,945.2	11,650.0	22.5	29.1	69.80	-1,549.2	-654.4	492.2	435.9	56.34	8.736	
13,200.0	11,820.0	13,045.2	11,650.0	23.1	29.5	69.79	-1,649.2	-654.2	492.0	434.5	57.53	8.552	
13,300.0	11,820.0	13,145.2	11,650.0	23.7	30.0	69.78	-1,749.2	-654.0	491.8	433.0	58.75	8.371	
13,400.0	11,820.0	13,245.2	11,650.0	24.3	30.6	69.76	-1,849.2	-653.7	491.5	431.5	60.00	8.192	
13,500.0	11,820.0	13,345.2	11,650.0	25.0	31.1	69.75	-1,949.2	-653.5	491.3	430.0	61.28	8.017	
13,600.0	11,820.0	13,445.2	11,650.0	25.7	31.6	69.74	-2,049.2	-653.2	491.0	428.4	62.59	7.845	
13,700.0	11,820.0	13,545.2	11,650.0	26.4	32.2	69.73	-2,149.2	-653.0	490.8	426.9	63.93	7.676	
13,800.0	11,820.0	13,645.2	11,650.0	27.1	32.8	69.72	-2,249.2	-652.7	490.5	425.2	65.30	7.512	
13,900.0	11,820.0	13,745.2	11,650.0	27.9	33.4	69.71	-2,349.2	-652.5	490.3	423.6	66.69	7.352	
14,000.0	11,820.0	13,845.2	11,650.0	28.6	34.1	69.70	-2,449.2	-652.3	490.1	422.0	68.10	7.196	
14,100.0	11,820.0	13,945.2	11,650.0	29.4	34.7	69.69	-2,549.2	-652.0	489.8	420.3	69.53	7.044	
14,200.0	11,820.0	14,045.2	11,650.0	30.2	35.4	69.68	-2,649.2	-651.8	489.6	418.6	70.99	6.897	
14,300.0	11,820.0	14,145.2	11,650.0	31.0	36.1	69.67	-2,749.2	-651.5	489.3	416.9	72.46	6.753	
14,400.0	11,820.0	14,245.2	11,650.0	31.8	36.8	69.66	-2,849.2	-651.3	489.1	415.2	73.95	6.614	
14,500.0	11,820.0	14,345.2	11,650.0	32.6	37.5	69.65	-2,949.2	-651.0	488.9	413.4	75.46	6.479	
14,600.0	11,820.0	14,445.2	11,650.0	33.4	38.2	69.64	-3,049.2	-650.8	488.6	411.6	76.98	6.348	
14,700.0	11,820.0	14,545.2	11,650.0	34.2	38.9	69.63	-3,149.2	-650.6	488.4	409.9	78.51	6.220	
14,800.0	11,820.0	14,645.2	11,650.0	35.0	39.6	69.62	-3,249.2	-650.3	488.1	408.1	80.06	6.097	
14,900.0	11,820.0	14,745.2	11,650.0	35.9	40.4	69.61	-3,349.2	-650.1	487.9	406.3	81.62	5.977	
15,000.0	11,820.0	14,845.2	11,650.0	36.7	41.1	69.60	-3,449.2	-649.8	487.7	404.5	83.20	5.861	
15,100.0	11,820.0	14,945.2	11,650.0	37.6	41.9	69.59	-3,549.2	-649.6	487.4	402.6	84.79	5.749	
15,200.0	11,820.0	15,045.2	11,650.0	38.4	42.7	69.58	-3,649.2	-649.3	487.2	400.8	86.38	5.640	
15,300.0	11,820.0	15,145.2	11,650.0	39.3	43.5	69.57	-3,749.2	-649.1	486.9	398.9	87.99	5.534	
15,400.0	11,820.0	15,245.2	11,650.0	40.1	44.2	69.56	-3,849.2	-648.9	486.7	397.1	89.61	5.431	
15,500.0	11,820.0	15,345.2	11,650.0	41.0	45.0	69.54	-3,949.2	-648.6	486.4	395.2	91.24	5.332	
15,600.0	11,820.0	15,445.2	11,650.0	41.9	45.8	69.53	-4,049.2	-648.4	486.2	393.3	92.87	5.235	
15,700.0	11,820.0	15,545.2	11,650.0	42.8	46.6	69.52	-4,149.2	-648.1	486.0	391.5	94.51	5.142	
15,800.0	11,820.0	15,645.2	11,650.0	43.6	47.5	69.51	-4,249.2	-647.9	485.7	389.6	96.17	5.051	
15,900.0	11,820.0	15,745.2	11,650.0	44.5	48.3	69.50	-4,349.2	-647.6	485.5	387.7	97.82	4.963	
16,000.0	11,820.0	15,845.2	11,650.0	45.4	49.1	69.49	-4,449.2	-647.4	485.2	385.8	99.49	4.877	
16,100.0	11,820.0	15,945.2	11,650.0	46.3	49.9	69.48	-4,549.2	-647.2	485.0	383.8	101.16	4.794	
16,200.0	11,820.0	16,045.2	11,650.0	47.2	50.8	69.47	-4,649.2	-646.9	484.8	381.9	102.84	4.714	
16,300.0	11,820.0	16,145.2	11,650.0	48.1	51.6	69.46	-4,749.2	-646.7	484.5	380.0	104.53	4.635	
16,400.0	11,820.0	16,245.2	11,650.0	49.0	52.4	69.45	-4,849.2	-646.4	484.3	378.1	106.22	4.559	
16,500.0	11,820.0	16,345.2	11,650.0	49.9	53.3	69.44	-4,949.2	-646.2	484.0	376.1	107.91	4.486	
16,600.0	11,820.0	16,445.2	11,650.0	50.8	54.1	69.43	-5,049.2	-645.9	483.8	374.2	109.61	4.414	
16,700.0	11,820.0	16,545.2	11,650.0	51.7	55.0	69.42	-5,149.2	-645.7	483.6	372.2	111.32	4.344	
16,800.0	11,820.0	16,645.2	11,650.0	52.6	55.9	69.41	-5,249.2	-645.5	483.3	370.3	113.03	4.276	
16,900.0	11,820.0	16,745.2	11,650.0	53.5	56.7	69.40	-5,349.2	-645.2	483.1	368.3	114.75	4.210	
17,000.0	11,820.0	16,845.2	11,650.0	54.4	57.6	69.39	-5,449.2	-645.0	482.8	366.4	116.47	4.146	
17,100.0	11,820.0	16,945.2	11,650.0	55.3	58.4	69.37	-5,549.2	-644.7	482.6	364.4	118.19	4.083	
17,200.0	11,820.0	17,045.2	11,650.0	56.2	59.3	69.36	-5,649.2	-644.5	482.4	362.4	119.92	4.022	
17,300.0	11,820.0	17,145.2	11,650.0	57.2	60.2	69.35	-5,749.2	-644.2	482.1	360.5	121.65	3.963	
17,400.0	11,820.0	17,245.2	11,650.0	58.1	61.1	69.34	-5,849.2	-644.0	481.9	358.5	123.38	3.906	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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				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	
17,500.0	11,820.0	17,345.2	11,650.0	59.0	61.9	69.33	-5,949.2	-643.8	481.6	356.5	125.12	3.849		
17,600.0	11,820.0	17,445.2	11,650.0	59.9	62.8	69.32	-6,049.2	-643.5	481.4	354.5	126.86	3.795		
17,700.0	11,820.0	17,545.2	11,650.0	60.8	63.7	69.31	-6,149.2	-643.3	481.2	352.5	128.61	3.741		
17,800.0	11,820.0	17,645.2	11,650.0	61.8	64.6	69.30	-6,249.2	-643.0	480.9	350.6	130.36	3.689		
17,900.0	11,820.0	17,745.2	11,650.0	62.7	65.5	69.29	-6,349.2	-642.8	480.7	348.6	132.11	3.638		
18,000.0	11,820.0	17,845.2	11,650.0	63.6	66.4	69.28	-6,449.2	-642.5	480.4	346.6	133.86	3.589		
18,100.0	11,820.0	17,945.2	11,650.0	64.5	67.3	69.27	-6,549.2	-642.3	480.2	344.6	135.62	3.541		
18,200.0	11,820.0	18,045.2	11,650.0	65.5	68.1	69.26	-6,649.2	-642.1	480.0	342.6	137.38	3.494		
18,300.0	11,820.0	18,145.2	11,650.0	66.4	69.0	69.24	-6,749.2	-641.8	479.7	340.6	139.14	3.448		
18,400.0	11,820.0	18,245.2	11,650.0	67.3	69.9	69.23	-6,849.2	-641.6	479.5	338.6	140.90	3.403		
18,500.0	11,820.0	18,345.2	11,650.0	68.2	70.8	69.22	-6,949.2	-641.3	479.2	336.6	142.67	3.359		
18,600.0	11,820.0	18,445.2	11,650.0	69.2	71.7	69.21	-7,049.2	-641.1	479.0	334.6	144.44	3.316		
18,700.0	11,820.0	18,545.2	11,650.0	70.1	72.6	69.20	-7,149.2	-640.8	478.8	332.5	146.21	3.274		
18,800.0	11,820.0	18,645.2	11,650.0	71.0	73.5	69.19	-7,249.1	-640.6	478.5	330.5	147.98	3.234		
18,900.0	11,820.0	18,745.2	11,650.0	72.0	74.5	69.18	-7,349.1	-640.4	478.3	328.5	149.76	3.194		
19,000.0	11,820.0	18,845.2	11,650.0	72.9	75.4	69.17	-7,449.1	-640.1	478.0	326.5	151.53	3.155		
19,100.0	11,820.0	18,945.2	11,650.0	73.8	76.3	69.16	-7,549.1	-639.9	477.8	324.5	153.31	3.117		
19,200.0	11,820.0	19,045.2	11,650.0	74.8	77.2	69.15	-7,649.1	-639.6	477.6	322.5	155.09	3.079		
19,278.3	11,820.0	19,123.4	11,650.0	75.5	77.8	69.14	-7,727.4	-639.4	477.4	321.0	156.41	3.052		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	89.18	0.4	30.0	30.0	23.6	6.43	4.666			
100.0	100.0	100.0	100.0	3.2	3.2	89.18	0.4	30.0	30.0	23.1	6.89	4.353			
200.0	200.0	200.0	200.0	3.5	3.5	89.18	0.4	30.0	30.0	22.7	7.33	4.094			
300.0	300.0	300.0	300.0	3.7	3.7	89.18	0.4	30.0	30.0	22.3	7.74	3.875			
400.0	400.0	400.0	400.0	3.9	3.9	89.18	0.4	30.0	30.0	21.9	8.14	3.688			
500.0	500.0	500.0	500.0	4.1	4.1	89.18	0.4	30.0	30.0	21.5	8.51	3.524			
600.0	600.0	600.0	600.0	4.2	4.2	89.18	0.4	30.0	30.0	21.1	8.88	3.379			
700.0	700.0	700.0	700.0	4.4	4.4	89.18	0.4	30.0	30.0	20.8	9.23	3.250			
800.0	800.0	800.0	800.0	4.6	4.6	89.18	0.4	30.0	30.0	20.4	9.57	3.135			
900.0	900.0	900.0	900.0	4.8	4.8	89.18	0.4	30.0	30.0	20.1	9.90	3.030			
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	0.4	30.0	30.0	19.8	10.22	2.934	CC, ES, SF		
1,100.0	1,100.0	1,098.9	1,098.9	5.2	5.2	-162.30	-0.2	31.6	33.3	22.6	10.69	3.111			
1,200.0	1,199.8	1,197.3	1,197.1	5.4	5.4	-161.70	-2.1	36.3	43.0	31.9	11.14	3.861			
1,300.0	1,299.5	1,294.3	1,293.8	5.7	5.7	-161.11	-5.3	44.0	59.2	47.6	11.60	5.100			
1,400.0	1,398.7	1,389.6	1,388.4	6.0	5.9	-160.64	-9.6	54.5	81.6	69.5	12.08	6.757			
1,454.9	1,453.0	1,441.4	1,439.7	6.1	6.0	-160.44	-12.4	61.4	96.5	84.3	12.24	7.891			
1,500.0	1,497.5	1,484.6	1,482.4	6.1	6.1	-160.41	-14.8	67.3	109.4	97.0	12.38	8.837			
1,600.0	1,596.3	1,580.5	1,577.2	6.4	6.3	-160.37	-20.2	80.5	137.9	125.0	12.82	10.755			
1,700.0	1,695.0	1,676.3	1,672.0	6.7	6.6	-160.34	-25.6	93.7	166.4	153.0	13.30	12.507			
1,800.0	1,793.7	1,772.2	1,766.8	6.9	6.9	-160.32	-31.0	106.9	194.8	181.0	13.81	14.104			
1,900.0	1,892.5	1,868.0	1,861.6	7.2	7.1	-160.30	-36.4	120.1	223.3	209.0	14.36	15.556			
2,000.0	1,991.2	1,963.9	1,956.3	7.6	7.4	-160.29	-41.8	133.2	251.8	236.9	14.92	16.875			
2,100.0	2,090.0	2,059.7	2,051.1	7.9	7.7	-160.28	-47.2	146.4	280.3	264.8	15.51	18.071			
2,200.0	2,188.7	2,155.6	2,145.9	8.2	8.1	-160.28	-52.6	159.6	308.8	292.6	16.12	19.157			
2,300.0	2,287.5	2,251.5	2,240.7	8.6	8.4	-160.27	-58.0	172.8	337.2	320.5	16.74	20.143			
2,400.0	2,386.2	2,347.3	2,335.5	8.9	8.7	-160.26	-63.4	186.0	365.7	348.3	17.38	21.040			
2,488.9	2,473.9	2,432.5	2,419.8	9.3	9.0	-160.26	-68.2	197.7	391.0	373.1	17.95	21.782			
2,500.0	2,484.9	2,443.2	2,430.3	9.3	9.1	-160.27	-68.8	199.2	394.2	376.2	18.02	21.877			
2,600.0	2,583.8	2,539.3	2,525.4	9.7	9.4	-160.31	-74.2	212.4	421.7	403.0	18.71	22.544			
2,700.0	2,683.0	2,641.6	2,626.7	10.1	9.7	-160.29	-79.7	226.0	447.2	427.8	19.39	23.062			
2,800.0	2,782.4	2,747.0	2,731.2	10.4	10.1	-160.28	-84.7	238.2	469.5	449.3	20.11	23.339			
2,900.0	2,881.9	2,853.5	2,837.1	10.8	10.5	-160.26	-89.1	248.8	488.4	467.6	20.83	23.453			
3,000.0	2,981.6	2,961.0	2,944.1	11.1	10.9	-160.25	-92.7	257.7	504.0	482.5	21.52	23.424			
3,100.0	3,081.4	3,069.2	3,052.1	11.4	11.3	-160.24	-95.6	264.7	516.3	494.1	22.18	23.275			
3,200.0	3,181.3	3,178.1	3,160.8	11.8	11.6	-160.23	-97.7	269.9	525.2	502.4	22.81	23.026			
3,300.0	3,281.3	3,287.3	3,270.0	12.0	11.9	-160.21	-99.0	273.1	530.6	507.3	23.38	22.700			
3,398.7	3,380.0	3,395.5	3,378.1	12.2	12.2	91.57	-99.6	274.5	532.7	508.9	23.77	22.407			
3,400.0	3,381.3	3,396.8	3,379.5	12.2	12.2	91.57	-99.6	274.5	532.7	508.9	23.78	22.404			
3,500.0	3,481.3	3,498.6	3,481.3	12.6	12.2	91.57	-99.6	274.5	532.7	508.4	24.25	21.965			
3,600.0	3,581.3	3,598.6	3,581.3	12.6	12.3	91.57	-99.6	274.5	532.7	508.3	24.38	21.854			
3,700.0	3,681.3	3,698.6	3,681.3	12.7	12.4	91.57	-99.6	274.5	532.7	508.2	24.50	21.744			
3,800.0	3,781.3	3,798.6	3,781.3	12.8	12.4	91.57	-99.6	274.5	532.7	508.1	24.62	21.634			
3,900.0	3,881.3	3,898.6	3,881.3	12.8	12.5	91.57	-99.6	274.5	532.7	507.9	24.75	21.525			
4,000.0	3,981.3	3,998.6	3,981.3	12.9	12.6	91.57	-99.6	274.5	532.7	507.8	24.87	21.417			
4,100.0	4,081.3	4,098.6	4,081.3	13.0	12.6	91.57	-99.6	274.5	532.7	507.7	25.00	21.310			
4,200.0	4,181.3	4,198.6	4,181.3	13.0	12.7	91.57	-99.6	274.5	532.7	507.6	25.12	21.203			
4,300.0	4,281.3	4,298.6	4,281.3	13.1	12.7	91.57	-99.6	274.5	532.7	507.4	25.25	21.097			
4,400.0	4,381.3	4,398.6	4,381.3	13.1	12.8	91.57	-99.6	274.5	532.7	507.3	25.38	20.992			
4,500.0	4,481.3	4,498.6	4,481.3	13.2	12.9	91.57	-99.6	274.5	532.7	507.2	25.50	20.887			
4,600.0	4,581.3	4,598.6	4,581.3	13.3	12.9	91.57	-99.6	274.5	532.7	507.1	25.63	20.784			
4,700.0	4,681.3	4,698.6	4,681.3	13.3	13.0	91.57	-99.6	274.5	532.7	506.9	25.76	20.680			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,781.3	4,798.6	4,781.3	13.4	13.1	91.57	-99.6	274.5	532.7	506.8	25.89	20.578	
4,900.0	4,881.3	4,898.6	4,881.3	13.5	13.1	91.57	-99.6	274.5	532.7	506.7	26.02	20.476	
5,000.0	4,981.3	4,998.6	4,981.3	13.5	13.2	91.57	-99.6	274.5	532.7	506.6	26.14	20.376	
5,100.0	5,081.3	5,098.6	5,081.3	13.6	13.2	91.57	-99.6	274.5	532.7	506.4	26.27	20.275	
5,200.0	5,181.3	5,198.6	5,181.3	13.6	13.3	91.57	-99.6	274.5	532.7	506.3	26.40	20.176	
5,300.0	5,281.3	5,298.6	5,281.3	13.7	13.4	91.57	-99.6	274.5	532.7	506.2	26.53	20.077	
5,400.0	5,381.3	5,398.6	5,381.3	13.8	13.4	91.57	-99.6	274.5	532.7	506.0	26.66	19.979	
5,500.0	5,481.3	5,498.6	5,481.3	13.8	13.5	91.57	-99.6	274.5	532.7	505.9	26.79	19.882	
5,600.0	5,581.3	5,598.6	5,581.3	13.9	13.6	91.57	-99.6	274.5	532.7	505.8	26.92	19.785	
5,700.0	5,681.3	5,698.6	5,681.3	14.0	13.6	91.57	-99.6	274.5	532.7	505.6	27.06	19.689	
5,800.0	5,781.3	5,798.6	5,781.3	14.0	13.7	91.57	-99.6	274.5	532.7	505.5	27.19	19.594	
5,900.0	5,881.3	5,898.6	5,881.3	14.1	13.8	91.57	-99.6	274.5	532.7	505.4	27.32	19.499	
6,000.0	5,981.3	5,998.6	5,981.3	14.2	13.8	91.57	-99.6	274.5	532.7	505.2	27.45	19.405	
6,100.0	6,081.3	6,098.6	6,081.3	14.2	13.9	91.57	-99.6	274.5	532.7	505.1	27.58	19.312	
6,200.0	6,181.3	6,198.6	6,181.3	14.3	14.0	91.57	-99.6	274.5	532.7	505.0	27.72	19.219	
6,300.0	6,281.3	6,298.6	6,281.3	14.4	14.0	91.57	-99.6	274.5	532.7	504.8	27.85	19.127	
6,400.0	6,381.3	6,398.6	6,381.3	14.4	14.1	91.57	-99.6	274.5	532.7	504.7	27.98	19.036	
6,500.0	6,481.3	6,498.6	6,481.3	14.5	14.2	91.57	-99.6	274.5	532.7	504.6	28.12	18.946	
6,600.0	6,581.3	6,598.6	6,581.3	14.6	14.2	91.57	-99.6	274.5	532.7	504.4	28.25	18.856	
6,700.0	6,681.3	6,698.6	6,681.3	14.6	14.3	91.57	-99.6	274.5	532.7	504.3	28.39	18.766	
6,800.0	6,781.3	6,798.6	6,781.3	14.7	14.4	91.57	-99.6	274.5	532.7	504.2	28.52	18.678	
6,900.0	6,881.3	6,898.6	6,881.3	14.8	14.4	91.57	-99.6	274.5	532.7	504.0	28.66	18.590	
7,000.0	6,981.3	6,998.6	6,981.3	14.8	14.5	91.57	-99.6	274.5	532.7	503.9	28.79	18.503	
7,100.0	7,081.3	7,098.6	7,081.3	14.9	14.6	91.57	-99.6	274.5	532.7	503.8	28.93	18.416	
7,200.0	7,181.3	7,198.6	7,181.3	15.0	14.6	91.57	-99.6	274.5	532.7	503.6	29.06	18.330	
7,300.0	7,281.3	7,298.6	7,281.3	15.0	14.7	91.57	-99.6	274.5	532.7	503.5	29.20	18.245	
7,400.0	7,381.3	7,398.6	7,381.3	15.1	14.8	91.57	-99.6	274.5	532.7	503.4	29.33	18.160	
7,500.0	7,481.3	7,498.6	7,481.3	15.2	14.8	91.57	-99.6	274.5	532.7	503.2	29.47	18.076	
7,600.0	7,581.3	7,598.6	7,581.3	15.2	14.9	91.57	-99.6	274.5	532.7	503.1	29.61	17.992	
7,700.0	7,681.3	7,698.6	7,681.3	15.3	15.0	91.57	-99.6	274.5	532.7	503.0	29.74	17.910	
7,800.0	7,781.3	7,798.6	7,781.3	15.4	15.0	91.57	-99.6	274.5	532.7	502.8	29.88	17.827	
7,900.0	7,881.3	7,898.6	7,881.3	15.4	15.1	91.57	-99.6	274.5	532.7	502.7	30.02	17.746	
8,000.0	7,981.3	7,998.6	7,981.3	15.5	15.2	91.57	-99.6	274.5	532.7	502.5	30.16	17.665	
8,100.0	8,081.3	8,098.6	8,081.3	15.6	15.3	91.57	-99.6	274.5	532.7	502.4	30.29	17.584	
8,200.0	8,181.3	8,198.6	8,181.3	15.6	15.3	91.57	-99.6	274.5	532.7	502.3	30.43	17.505	
8,300.0	8,281.3	8,298.6	8,281.3	15.7	15.4	91.57	-99.6	274.5	532.7	502.1	30.57	17.425	
8,400.0	8,381.3	8,398.6	8,381.3	15.8	15.5	91.57	-99.6	274.5	532.7	502.0	30.71	17.347	
8,500.0	8,481.3	8,498.6	8,481.3	15.9	15.5	91.57	-99.6	274.5	532.7	501.8	30.85	17.269	
8,600.0	8,581.3	8,598.6	8,581.3	15.9	15.6	91.57	-99.6	274.5	532.7	501.7	30.99	17.191	
8,700.0	8,681.3	8,698.6	8,681.3	16.0	15.7	91.57	-99.6	274.5	532.7	501.6	31.13	17.114	
8,800.0	8,781.3	8,798.6	8,781.3	16.1	15.7	91.57	-99.6	274.5	532.7	501.4	31.27	17.038	
8,900.0	8,881.3	8,898.6	8,881.3	16.1	15.8	91.57	-99.6	274.5	532.7	501.3	31.41	16.962	
9,000.0	8,981.3	8,998.6	8,981.3	16.2	15.9	91.57	-99.6	274.5	532.7	501.2	31.54	16.887	
9,100.0	9,081.3	9,098.6	9,081.3	16.3	15.9	91.57	-99.6	274.5	532.7	501.0	31.68	16.812	
9,200.0	9,181.3	9,198.6	9,181.3	16.3	16.0	91.57	-99.6	274.5	532.7	500.9	31.83	16.738	
9,300.0	9,281.3	9,298.6	9,281.3	16.4	16.1	91.57	-99.6	274.5	532.7	500.7	31.97	16.665	
9,400.0	9,381.3	9,398.6	9,381.3	16.5	16.2	91.57	-99.6	274.5	532.7	500.6	32.11	16.592	
9,500.0	9,481.3	9,498.6	9,481.3	16.5	16.2	91.57	-99.6	274.5	532.7	500.4	32.25	16.519	
9,600.0	9,581.3	9,598.6	9,581.3	16.6	16.3	91.57	-99.6	274.5	532.7	500.3	32.39	16.447	
9,700.0	9,681.3	9,698.6	9,681.3	16.7	16.4	91.57	-99.6	274.5	532.7	500.2	32.53	16.376	
9,800.0	9,781.3	9,798.6	9,781.3	16.8	16.4	91.57	-99.6	274.5	532.7	500.0	32.67	16.305	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 MWD+IFR1		Offset		Semi Major Axis		Highside		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)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,900.0	9,881.3	9,898.6	9,881.3	16.8	16.5	91.57	-99.6	274.5	532.7	499.9	32.81	16.235			
10,000.0	9,981.3	9,998.6	9,981.3	16.9	16.6	91.57	-99.6	274.5	532.7	499.7	32.95	16.165			
10,100.0	10,081.3	10,098.6	10,081.3	17.0	16.7	91.57	-99.6	274.5	532.7	499.6	33.10	16.095			
10,200.0	10,181.3	10,198.6	10,181.3	17.0	16.7	91.57	-99.6	274.5	532.7	499.5	33.24	16.027			
10,300.0	10,281.3	10,298.6	10,281.3	17.1	16.8	91.57	-99.6	274.5	532.7	499.3	33.38	15.958			
10,400.0	10,381.3	10,398.6	10,381.3	17.2	16.9	91.57	-99.6	274.5	532.7	499.2	33.52	15.890			
10,500.0	10,481.3	10,498.6	10,481.3	17.3	16.9	91.57	-99.6	274.5	532.7	499.0	33.67	15.823			
10,600.0	10,581.3	10,598.6	10,581.3	17.3	17.0	91.57	-99.6	274.5	532.7	498.9	33.81	15.756			
10,700.0	10,681.3	10,698.6	10,681.3	17.4	17.1	91.57	-99.6	274.5	532.7	498.7	33.95	15.690			
10,800.0	10,781.3	10,798.6	10,781.3	17.5	17.2	91.57	-99.6	274.5	532.7	498.6	34.09	15.624			
10,900.0	10,881.3	10,898.6	10,881.3	17.5	17.2	91.57	-99.6	274.5	532.7	498.5	34.24	15.559			
11,000.0	10,981.3	10,998.6	10,981.3	17.6	17.3	91.57	-99.6	274.5	532.7	498.3	34.38	15.494			
11,100.0	11,081.3	11,098.6	11,081.3	17.7	17.4	91.57	-99.6	274.5	532.7	498.2	34.53	15.429			
11,113.5	11,094.7	11,112.1	11,094.7	17.7	17.4	91.57	-99.6	274.5	532.7	498.2	34.54	15.421			
11,200.0	11,181.3	11,198.4	11,181.0	17.8	17.4	91.58	-99.6	274.5	532.7	498.0	34.66	15.370			
11,300.0	11,281.3	11,294.0	11,275.9	17.8	17.5	92.78	-110.9	274.5	533.1	498.4	34.72	15.354			
11,361.2	11,342.5	11,350.0	11,329.7	17.9	17.6	94.42	-126.2	274.4	534.2	499.4	34.76	15.368			
11,375.0	11,356.3	11,361.1	11,340.1	17.9	17.6	-79.15	-129.9	274.4	534.5	499.7	34.76	15.375			
11,400.0	11,381.2	11,382.5	11,360.0	17.9	17.6	-78.35	-137.9	274.4	535.1	500.4	34.76	15.393			
11,425.0	11,406.1	11,403.7	11,379.2	17.9	17.6	-77.57	-146.6	274.4	535.7	500.9	34.76	15.409			
11,450.0	11,430.8	11,425.0	11,398.3	17.9	17.6	-76.81	-156.3	274.3	536.2	501.4	34.77	15.422			
11,475.0	11,455.2	11,445.2	11,415.9	17.9	17.7	-76.11	-166.3	274.3	536.7	501.9	34.78	15.430			
11,500.0	11,479.3	11,465.7	11,433.3	17.9	17.7	-75.43	-177.1	274.3	537.0	502.3	34.80	15.434			
11,525.0	11,503.1	11,486.0	11,450.0	17.9	17.7	-74.79	-188.5	274.2	537.4	502.5	34.82	15.432			
11,550.0	11,526.4	11,506.0	11,466.1	17.9	17.7	-74.18	-200.5	274.2	537.6	502.7	34.86	15.424			
11,575.0	11,549.2	11,525.0	11,480.8	17.9	17.8	-73.63	-212.4	274.2	537.8	502.8	34.90	15.407			
11,600.0	11,571.4	11,545.7	11,496.3	18.0	17.8	-73.06	-226.1	274.1	537.8	502.9	34.95	15.387			
11,625.0	11,593.0	11,565.2	11,510.4	18.0	17.8	-72.55	-239.7	274.1	537.8	502.7	35.01	15.359			
11,650.0	11,614.0	11,584.7	11,523.8	18.0	17.9	-72.08	-253.7	274.1	537.6	502.5	35.08	15.323			
11,675.0	11,634.2	11,603.9	11,536.6	18.0	17.9	-71.65	-268.2	274.0	537.3	502.1	35.17	15.279			
11,700.0	11,653.5	11,625.0	11,549.9	18.0	17.9	-71.22	-284.5	274.0	536.9	501.7	35.24	15.235			
11,725.0	11,672.1	11,642.2	11,560.1	18.1	17.9	-70.90	-298.3	273.9	536.4	501.0	35.36	15.171			
11,750.0	11,689.7	11,661.1	11,570.9	18.1	18.0	-70.58	-313.9	273.9	535.7	500.3	35.46	15.107			
11,775.0	11,706.4	11,680.0	11,581.0	18.1	18.0	-70.30	-329.8	273.8	534.9	499.4	35.58	15.036			
11,800.0	11,722.1	11,700.0	11,591.0	18.1	18.0	-70.04	-347.1	273.8	534.0	498.3	35.69	14.963			
11,825.0	11,736.7	11,717.4	11,599.1	18.2	18.0	-69.86	-362.6	273.7	532.9	497.1	35.82	14.877			
11,850.0	11,750.3	11,736.1	11,607.1	18.2	18.1	-69.69	-379.4	273.7	531.7	495.8	35.95	14.789			
11,875.0	11,762.7	11,754.6	11,614.5	18.2	18.1	-69.57	-396.4	273.6	530.4	494.3	36.09	14.697			
11,900.0	11,774.0	11,775.0	11,621.8	18.3	18.1	-69.46	-415.4	273.6	528.9	492.6	36.21	14.604			
11,925.0	11,784.1	11,791.6	11,627.1	18.3	18.2	-69.44	-431.1	273.5	527.2	490.8	36.36	14.501			
11,950.0	11,793.0	11,810.0	11,632.4	18.3	18.2	-69.44	-448.7	273.5	525.4	488.9	36.49	14.398			
11,975.0	11,800.7	11,828.3	11,637.0	18.4	18.2	-69.48	-466.5	273.4	523.5	486.8	36.62	14.293			
12,000.0	11,807.1	11,846.7	11,640.9	18.4	18.2	-69.56	-484.5	273.4	521.4	484.6	36.75	14.186			
12,025.0	11,812.2	11,865.0	11,644.1	18.4	18.3	-69.68	-502.5	273.3	519.2	482.3	36.88	14.078			
12,050.0	11,816.0	11,883.3	11,646.6	18.5	18.3	-69.84	-520.7	273.3	516.8	479.8	37.00	13.969			
12,075.0	11,818.6	11,900.0	11,648.3	18.5	18.3	-70.05	-537.2	273.2	514.3	477.2	37.11	13.859			
12,100.0	11,819.8	11,920.0	11,649.6	18.6	18.3	-70.28	-557.2	273.2	511.7	474.5	37.22	13.749			
12,111.2	11,820.0	11,928.2	11,649.8	18.6	18.3	-70.41	-565.4	273.2	510.5	473.2	37.26	13.699			
12,200.0	11,820.0	12,012.4	11,650.0	18.8	18.5	-70.18	-649.6	272.9	502.7	465.0	37.75	13.319			
12,300.0	11,820.0	12,112.3	11,650.0	19.0	18.6	-69.99	-749.4	272.6	497.2	458.8	38.38	12.953			
12,400.0	11,820.0	12,212.2	11,650.0	19.3	18.9	-69.91	-849.4	272.3	494.9	455.8	39.07	12.665			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,411.6	11,820.0	12,223.9	11,650.0	19.4	18.9	-69.91	-861.0	272.3	494.8	455.7	39.16	12.638			
12,500.0	11,820.0	12,312.2	11,650.0	19.6	19.2	-69.90	-949.4	272.1	494.6	454.8	39.80	12.427			
12,600.0	11,820.0	12,412.2	11,650.0	20.0	19.5	-69.89	-1,049.4	271.8	494.3	453.7	40.60	12.175			
12,700.0	11,820.0	12,512.2	11,650.0	20.4	20.0	-69.88	-1,149.4	271.5	494.1	452.6	41.48	11.913			
12,800.0	11,820.0	12,612.2	11,650.0	20.9	20.4	-69.86	-1,249.4	271.2	493.8	451.4	42.41	11.644			
12,900.0	11,820.0	12,712.2	11,650.0	21.4	20.9	-69.85	-1,349.4	270.9	493.6	450.2	43.41	11.370			
13,000.0	11,820.0	12,812.2	11,650.0	21.9	21.4	-69.84	-1,449.4	270.6	493.3	448.9	44.46	11.096			
13,100.0	11,820.0	12,912.2	11,650.0	22.5	22.0	-69.83	-1,549.4	270.3	493.1	447.5	45.57	10.821			
13,200.0	11,820.0	13,012.2	11,650.0	23.1	22.6	-69.82	-1,649.4	270.1	492.8	446.1	46.72	10.549			
13,300.0	11,820.0	13,112.2	11,650.0	23.7	23.2	-69.81	-1,749.4	269.8	492.6	444.6	47.92	10.280			
13,400.0	11,820.0	13,212.2	11,650.0	24.3	23.9	-69.80	-1,849.4	269.5	492.3	443.1	49.15	10.015			
13,500.0	11,820.0	13,312.2	11,650.0	25.0	24.6	-69.79	-1,949.4	269.2	492.0	441.6	50.43	9.757			
13,600.0	11,820.0	13,412.2	11,650.0	25.7	25.3	-69.78	-2,049.4	268.9	491.8	440.0	51.74	9.504			
13,700.0	11,820.0	13,512.2	11,650.0	26.4	26.0	-69.77	-2,149.4	268.6	491.5	438.4	53.09	9.259			
13,800.0	11,820.0	13,612.2	11,650.0	27.1	26.7	-69.75	-2,249.4	268.3	491.3	436.8	54.46	9.020			
13,900.0	11,820.0	13,712.2	11,650.0	27.9	27.5	-69.74	-2,349.4	268.0	491.0	435.2	55.87	8.789			
14,000.0	11,820.0	13,812.2	11,650.0	28.6	28.2	-69.73	-2,449.4	267.8	490.8	433.5	57.30	8.565			
14,100.0	11,820.0	13,912.2	11,650.0	29.4	29.0	-69.72	-2,549.4	267.5	490.5	431.8	58.75	8.349			
14,200.0	11,820.0	14,012.2	11,650.0	30.2	29.8	-69.71	-2,649.4	267.2	490.3	430.0	60.23	8.140			
14,300.0	11,820.0	14,112.2	11,650.0	31.0	30.6	-69.70	-2,749.4	266.9	490.0	428.3	61.72	7.939			
14,400.0	11,820.0	14,212.2	11,650.0	31.8	31.4	-69.69	-2,849.4	266.6	489.7	426.5	63.24	7.744			
14,500.0	11,820.0	14,312.2	11,650.0	32.6	32.2	-69.68	-2,949.4	266.3	489.5	424.7	64.77	7.557			
14,600.0	11,820.0	14,412.2	11,650.0	33.4	33.0	-69.67	-3,049.4	266.0	489.2	422.9	66.32	7.377			
14,700.0	11,820.0	14,512.2	11,650.0	34.2	33.8	-69.66	-3,149.4	265.7	489.0	421.1	67.89	7.203			
14,800.0	11,820.0	14,612.2	11,650.0	35.0	34.7	-69.64	-3,249.4	265.5	488.7	419.3	69.47	7.035			
14,900.0	11,820.0	14,712.2	11,650.0	35.9	35.5	-69.63	-3,349.4	265.2	488.5	417.4	71.06	6.874			
15,000.0	11,820.0	14,812.2	11,650.0	36.7	36.4	-69.62	-3,449.4	264.9	488.2	415.5	72.67	6.718			
15,100.0	11,820.0	14,912.2	11,650.0	37.6	37.2	-69.61	-3,549.4	264.6	488.0	413.7	74.28	6.569			
15,200.0	11,820.0	15,012.2	11,650.0	38.4	38.1	-69.60	-3,649.4	264.3	487.7	411.8	75.91	6.425			
15,300.0	11,820.0	15,112.2	11,650.0	39.3	38.9	-69.59	-3,749.4	264.0	487.4	409.9	77.55	6.285			
15,400.0	11,820.0	15,212.2	11,650.0	40.1	39.8	-69.58	-3,849.4	263.7	487.2	408.0	79.20	6.151			
15,500.0	11,820.0	15,312.2	11,650.0	41.0	40.7	-69.57	-3,949.4	263.5	486.9	406.1	80.86	6.022			
15,600.0	11,820.0	15,412.2	11,650.0	41.9	41.5	-69.55	-4,049.4	263.2	486.7	404.2	82.52	5.898			
15,700.0	11,820.0	15,512.2	11,650.0	42.8	42.4	-69.54	-4,149.4	262.9	486.4	402.2	84.19	5.777			
15,800.0	11,820.0	15,612.2	11,650.0	43.6	43.3	-69.53	-4,249.4	262.6	486.2	400.3	85.87	5.661			
15,900.0	11,820.0	15,712.2	11,650.0	44.5	44.2	-69.52	-4,349.4	262.3	485.9	398.3	87.56	5.549			
16,000.0	11,820.0	15,812.2	11,650.0	45.4	45.1	-69.51	-4,449.4	262.0	485.7	396.4	89.26	5.441			
16,100.0	11,820.0	15,912.2	11,650.0	46.3	46.0	-69.50	-4,549.4	261.7	485.4	394.4	90.96	5.336			
16,200.0	11,820.0	16,012.2	11,650.0	47.2	46.9	-69.49	-4,649.4	261.4	485.1	392.5	92.66	5.235			
16,300.0	11,820.0	16,112.2	11,650.0	48.1	47.8	-69.48	-4,749.4	261.2	484.9	390.5	94.38	5.138			
16,400.0	11,820.0	16,212.2	11,650.0	49.0	48.7	-69.46	-4,849.4	260.9	484.6	388.5	96.09	5.043			
16,500.0	11,820.0	16,312.2	11,650.0	49.9	49.6	-69.45	-4,949.4	260.6	484.4	386.6	97.82	4.952			
16,600.0	11,820.0	16,412.2	11,650.0	50.8	50.5	-69.44	-5,049.4	260.3	484.1	384.6	99.54	4.863			
16,700.0	11,820.0	16,512.2	11,650.0	51.7	51.4	-69.43	-5,149.4	260.0	483.9	382.6	101.27	4.778			
16,800.0	11,820.0	16,612.2	11,650.0	52.6	52.3	-69.42	-5,249.4	259.7	483.6	380.6	103.01	4.695			
16,900.0	11,820.0	16,712.2	11,650.0	53.5	53.2	-69.41	-5,349.4	259.4	483.4	378.6	104.75	4.614			
17,000.0	11,820.0	16,812.2	11,650.0	54.4	54.1	-69.40	-5,449.4	259.1	483.1	376.6	106.49	4.536			
17,100.0	11,820.0	16,912.2	11,650.0	55.3	55.0	-69.39	-5,549.4	258.9	482.8	374.6	108.24	4.461			
17,200.0	11,820.0	17,012.2	11,650.0	56.2	55.9	-69.37	-5,649.4	258.6	482.6	372.6	109.99	4.388			
17,300.0	11,820.0	17,112.2	11,650.0	57.2	56.8	-69.36	-5,749.4	258.3	482.3	370.6	111.74	4.316			
17,400.0	11,820.0	17,212.2	11,650.0	58.1	57.8	-69.35	-5,849.4	258.0	482.1	368.6	113.50	4.247			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,500.0	11,820.0	17,312.2	11,650.0	59.0	58.7	-69.34	-5,949.4	257.7	481.8	366.6	115.26	4.180		
17,600.0	11,820.0	17,412.2	11,650.0	59.9	59.6	-69.33	-6,049.4	257.4	481.6	364.5	117.02	4.115		
17,700.0	11,820.0	17,512.2	11,650.0	60.8	60.5	-69.32	-6,149.4	257.1	481.3	362.5	118.79	4.052		
17,800.0	11,820.0	17,612.2	11,650.0	61.8	61.4	-69.31	-6,249.4	256.9	481.1	360.5	120.56	3.990		
17,900.0	11,820.0	17,712.2	11,650.0	62.7	62.4	-69.29	-6,349.4	256.6	480.8	358.5	122.33	3.930		
18,000.0	11,820.0	17,812.2	11,650.0	63.6	63.3	-69.28	-6,449.4	256.3	480.5	356.4	124.10	3.872		
18,100.0	11,820.0	17,912.2	11,650.0	64.5	64.2	-69.27	-6,549.4	256.0	480.3	354.4	125.88	3.816		
18,200.0	11,820.0	18,012.2	11,650.0	65.5	65.1	-69.26	-6,649.4	255.7	480.0	352.4	127.65	3.760		
18,300.0	11,820.0	18,112.2	11,650.0	66.4	66.1	-69.25	-6,749.4	255.4	479.8	350.3	129.43	3.707		
18,400.0	11,820.0	18,212.2	11,650.0	67.3	67.0	-69.24	-6,849.3	255.1	479.5	348.3	131.21	3.655		
18,500.0	11,820.0	18,312.2	11,650.0	68.2	67.9	-69.22	-6,949.3	254.8	479.3	346.3	133.00	3.604		
18,600.0	11,820.0	18,412.2	11,650.0	69.2	68.9	-69.21	-7,049.3	254.6	479.0	344.2	134.78	3.554		
18,700.0	11,820.0	18,512.2	11,650.0	70.1	69.8	-69.20	-7,149.3	254.3	478.8	342.2	136.57	3.506		
18,800.0	11,820.0	18,612.2	11,650.0	71.0	70.7	-69.19	-7,249.3	254.0	478.5	340.1	138.36	3.458		
18,900.0	11,820.0	18,712.2	11,650.0	72.0	71.7	-69.18	-7,349.3	253.7	478.2	338.1	140.15	3.413		
19,000.0	11,820.0	18,812.2	11,650.0	72.9	72.6	-69.17	-7,449.3	253.4	478.0	336.1	141.94	3.368		
19,100.0	11,820.0	18,912.2	11,650.0	73.8	73.5	-69.15	-7,549.3	253.1	477.7	334.0	143.73	3.324		
19,200.0	11,820.0	19,012.2	11,650.0	74.8	74.5	-69.14	-7,649.3	252.8	477.5	332.0	145.52	3.281		
19,276.8	11,820.0	19,086.5	11,650.0	75.5	75.2	-69.13	-7,723.6	252.6	477.3	330.4	146.88	3.250		
19,278.3	11,820.0	19,086.5	11,650.0	75.5	75.2	-69.13	-7,723.6	252.6	477.3	330.4	146.90	3.249		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		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	89.18	0.9	60.0	60.0	53.6	6.43	9.333			
100.0	100.0	100.0	100.0	3.2	3.2	89.18	0.9	60.0	60.0	53.1	6.89	8.705			
200.0	200.0	200.0	200.0	3.5	3.5	89.18	0.9	60.0	60.0	52.7	7.33	8.188			
300.0	300.0	300.0	300.0	3.7	3.7	89.18	0.9	60.0	60.0	52.3	7.74	7.751			
400.0	400.0	400.0	400.0	3.9	3.9	89.18	0.9	60.0	60.0	51.9	8.14	7.375			
500.0	500.0	500.0	500.0	4.1	4.1	89.18	0.9	60.0	60.0	51.5	8.51	7.048			
600.0	600.0	600.0	600.0	4.2	4.2	89.18	0.9	60.0	60.0	51.1	8.88	6.759			
700.0	700.0	700.0	700.0	4.4	4.4	89.18	0.9	60.0	60.0	50.8	9.23	6.501			
800.0	800.0	800.0	800.0	4.6	4.6	89.18	0.9	60.0	60.0	50.4	9.57	6.269			
900.0	900.0	900.0	900.0	4.8	4.8	89.18	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	89.18	0.9	60.0	60.0	49.8	10.22	5.868	CC, ES, SF		
1,100.0	1,100.0	1,097.9	1,097.8	5.2	5.2	-162.82	0.7	61.7	63.4	52.7	10.70	5.922			
1,200.0	1,199.8	1,195.1	1,194.9	5.4	5.4	-163.39	0.0	66.6	73.4	62.2	11.16	6.577			
1,300.0	1,299.5	1,290.9	1,290.4	5.7	5.7	-164.05	-0.9	74.6	90.1	78.5	11.64	7.740			
1,400.0	1,398.7	1,384.9	1,383.8	6.0	5.9	-164.62	-2.3	85.6	113.3	101.1	12.13	9.336			
1,454.9	1,453.0	1,435.9	1,434.2	6.1	6.0	-164.88	-3.2	92.8	128.7	116.4	12.30	10.466			
1,500.0	1,497.5	1,478.9	1,476.8	6.1	6.1	-165.14	-4.0	99.2	142.0	129.6	12.45	11.412			
1,600.0	1,596.3	1,574.5	1,571.2	6.4	6.3	-165.57	-5.7	113.3	171.6	158.7	12.90	13.305			
1,700.0	1,695.0	1,670.0	1,665.7	6.7	6.6	-165.87	-7.4	127.4	201.2	187.8	13.40	15.019			
1,800.0	1,793.7	1,765.5	1,760.2	6.9	6.9	-166.10	-9.2	141.4	230.8	216.9	13.93	16.573			
1,900.0	1,892.5	1,861.0	1,854.6	7.2	7.1	-166.27	-10.9	155.5	260.4	245.9	14.48	17.976			
2,000.0	1,991.2	1,956.5	1,949.1	7.6	7.4	-166.41	-12.6	169.6	290.0	274.9	15.07	19.242			
2,100.0	2,090.0	2,052.1	2,043.5	7.9	7.7	-166.52	-14.4	183.7	319.5	303.9	15.68	20.384			
2,200.0	2,188.7	2,147.6	2,138.0	8.2	8.1	-166.62	-16.1	197.8	349.1	332.8	16.30	21.414			
2,300.0	2,287.5	2,243.1	2,232.5	8.6	8.4	-166.70	-17.8	211.9	378.7	361.8	16.95	22.344			
2,400.0	2,386.2	2,338.6	2,326.9	8.9	8.7	-166.76	-19.6	226.0	408.3	390.7	17.61	23.185			
2,488.9	2,473.9	2,423.5	2,410.9	9.3	9.0	-166.82	-21.1	238.5	434.6	416.4	18.20	23.878			
2,500.0	2,484.9	2,434.1	2,421.4	9.3	9.1	-166.83	-21.3	240.1	437.9	419.6	18.27	23.968			
2,600.0	2,583.8	2,530.0	2,516.1	9.7	9.4	-166.92	-23.0	254.2	466.5	447.5	18.99	24.560			
2,700.0	2,683.0	2,626.3	2,611.4	10.1	9.8	-166.95	-24.8	268.4	493.5	473.8	19.68	25.071			
2,800.0	2,782.4	2,723.0	2,707.0	10.4	10.1	-166.94	-26.6	282.7	518.8	498.4	20.37	25.463			
2,900.0	2,881.9	2,820.1	2,803.1	10.8	10.5	-166.89	-28.3	297.0	542.5	521.4	21.07	25.751			
3,000.0	2,981.6	2,917.7	2,899.5	11.1	10.9	-166.80	-30.1	311.4	564.5	542.8	21.76	25.948			
3,100.0	3,081.4	3,015.6	2,996.3	11.4	11.2	-166.67	-31.9	325.8	584.9	562.4	22.44	26.067			
3,200.0	3,181.3	3,113.8	3,093.5	11.8	11.6	-166.52	-33.6	340.3	603.6	580.5	23.11	26.122			
3,300.0	3,281.3	3,212.3	3,190.9	12.0	12.0	-166.33	-35.4	354.9	620.6	596.9	23.75	26.128			
3,398.7	3,380.0	3,309.8	3,287.3	12.2	12.4	85.64	-37.2	369.2	635.8	611.6	24.29	26.175			
3,400.0	3,381.3	3,311.1	3,288.6	12.2	12.4	85.65	-37.2	369.4	636.0	611.7	24.30	26.178			
3,500.0	3,481.3	3,409.9	3,386.3	12.6	12.8	85.90	-39.0	384.0	650.6	625.5	25.09	25.934			
3,600.0	3,581.3	3,508.8	3,484.1	12.6	13.2	86.15	-40.8	398.6	665.2	639.7	25.55	26.033			
3,700.0	3,681.3	3,607.7	3,581.9	12.7	13.6	86.39	-42.6	413.2	679.8	653.8	26.02	26.122			
3,800.0	3,781.3	3,706.6	3,679.7	12.8	14.0	86.61	-44.4	427.8	694.4	667.9	26.50	26.202			
3,900.0	3,881.3	3,805.5	3,777.5	12.8	14.4	86.83	-46.2	442.4	709.1	682.1	26.99	26.273			
4,000.0	3,981.3	3,904.4	3,875.3	12.9	14.8	87.04	-48.0	456.9	723.7	696.2	27.48	26.335			
4,100.0	4,081.3	4,003.3	3,973.1	13.0	15.2	87.24	-49.8	471.5	738.3	710.4	27.98	26.391			
4,200.0	4,181.3	4,102.2	4,070.9	13.0	15.6	87.43	-51.6	486.1	753.0	724.5	28.48	26.440			
4,300.0	4,281.3	4,201.1	4,168.7	13.1	16.1	87.61	-53.4	500.7	767.7	738.7	28.99	26.483			
4,400.0	4,381.3	4,300.0	4,266.5	13.1	16.5	87.79	-55.2	515.3	782.3	752.8	29.50	26.521			
4,500.0	4,481.3	4,398.8	4,364.3	13.2	16.9	87.96	-57.0	529.9	797.0	767.0	30.02	26.553			
4,600.0	4,581.3	4,497.7	4,462.1	13.3	17.3	88.13	-58.8	544.5	811.7	781.1	30.54	26.581			
4,700.0	4,681.3	4,596.6	4,559.8	13.3	17.7	88.29	-60.6	559.0	826.4	795.3	31.06	26.604			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,781.3	4,695.5	4,657.6	13.4	18.1	88.44	-62.4	573.6	841.1	809.5	31.59	26.624	
4,900.0	4,881.3	4,794.4	4,755.4	13.5	18.6	88.59	-64.2	588.2	855.8	823.6	32.12	26.640	
5,000.0	4,981.3	4,893.3	4,853.2	13.5	19.0	88.73	-66.0	602.8	870.5	837.8	32.66	26.653	
5,100.0	5,081.3	4,992.2	4,951.0	13.6	19.4	88.87	-67.7	617.4	885.2	852.0	33.20	26.663	
5,200.0	5,181.3	5,091.1	5,048.8	13.6	19.8	89.00	-69.5	632.0	899.9	866.2	33.74	26.670	
5,300.0	5,281.3	5,190.0	5,146.6	13.7	20.2	89.13	-71.3	646.6	914.6	880.3	34.28	26.679	
5,400.0	5,381.3	5,307.4	5,262.9	13.8	20.7	89.27	-73.3	662.7	928.4	893.4	34.98	26.539	
5,500.0	5,481.3	5,425.8	5,380.5	13.8	21.2	89.39	-75.0	676.7	940.1	904.5	35.62	26.397	
5,600.0	5,581.3	5,544.8	5,498.9	13.9	21.7	89.48	-76.5	688.2	949.8	913.6	36.22	26.224	
5,700.0	5,681.3	5,664.2	5,618.0	14.0	22.1	89.56	-77.6	697.3	957.5	920.7	36.79	26.027	
5,800.0	5,781.3	5,784.0	5,737.5	14.0	22.5	89.61	-78.4	704.0	963.0	925.7	37.31	25.813	
5,900.0	5,881.3	5,903.9	5,857.4	14.1	22.9	89.64	-78.9	708.2	966.5	928.8	37.77	25.590	
6,000.0	5,981.3	6,024.0	5,977.5	14.2	23.2	89.65	-79.1	710.0	968.0	929.9	38.10	25.405	
6,100.0	6,081.3	6,127.8	6,081.3	14.2	23.2	89.65	-79.1	710.0	968.0	929.8	38.19	25.347	
6,200.0	6,181.3	6,227.8	6,181.3	14.3	23.3	89.65	-79.1	710.0	968.0	929.7	38.28	25.289	
6,300.0	6,281.3	6,327.8	6,281.3	14.4	23.3	89.65	-79.1	710.0	968.0	929.6	38.37	25.230	
6,400.0	6,381.3	6,427.8	6,381.3	14.4	23.3	89.65	-79.1	710.0	968.0	929.6	38.46	25.172	
6,500.0	6,481.3	6,527.8	6,481.3	14.5	23.4	89.65	-79.1	710.0	968.0	929.5	38.55	25.114	
6,600.0	6,581.3	6,627.8	6,581.3	14.6	23.4	89.65	-79.1	710.0	968.0	929.4	38.63	25.055	
6,700.0	6,681.3	6,727.8	6,681.3	14.6	23.4	89.65	-79.1	710.0	968.0	929.3	38.73	24.997	
6,800.0	6,781.3	6,827.8	6,781.3	14.7	23.5	89.65	-79.1	710.0	968.0	929.2	38.82	24.939	
6,900.0	6,881.3	6,927.8	6,881.3	14.8	23.5	89.65	-79.1	710.0	968.0	929.1	38.91	24.880	
7,000.0	6,981.3	7,027.8	6,981.3	14.8	23.5	89.65	-79.1	710.0	968.0	929.0	39.00	24.822	
7,100.0	7,081.3	7,127.8	7,081.3	14.9	23.6	89.65	-79.1	710.0	968.0	928.9	39.09	24.763	
7,200.0	7,181.3	7,227.8	7,181.3	15.0	23.6	89.65	-79.1	710.0	968.0	928.8	39.18	24.705	
7,300.0	7,281.3	7,327.8	7,281.3	15.0	23.6	89.65	-79.1	710.0	968.0	928.7	39.28	24.646	
7,400.0	7,381.3	7,427.8	7,381.3	15.1	23.7	89.65	-79.1	710.0	968.0	928.6	39.37	24.588	
7,500.0	7,481.3	7,527.8	7,481.3	15.2	23.7	89.65	-79.1	710.0	968.0	928.5	39.46	24.530	
7,600.0	7,581.3	7,627.8	7,581.3	15.2	23.8	89.65	-79.1	710.0	968.0	928.5	39.56	24.471	
7,700.0	7,681.3	7,727.8	7,681.3	15.3	23.8	89.65	-79.1	710.0	968.0	928.4	39.65	24.413	
7,800.0	7,781.3	7,827.8	7,781.3	15.4	23.8	89.65	-79.1	710.0	968.0	928.3	39.75	24.354	
7,900.0	7,881.3	7,927.8	7,881.3	15.4	23.9	89.65	-79.1	710.0	968.0	928.2	39.84	24.296	
8,000.0	7,981.3	8,027.8	7,981.3	15.5	23.9	89.65	-79.1	710.0	968.0	928.1	39.94	24.237	
8,100.0	8,081.3	8,127.8	8,081.3	15.6	23.9	89.65	-79.1	710.0	968.0	928.0	40.04	24.179	
8,200.0	8,181.3	8,227.8	8,181.3	15.6	24.0	89.65	-79.1	710.0	968.0	927.9	40.13	24.121	
8,300.0	8,281.3	8,327.8	8,281.3	15.7	24.0	89.65	-79.1	710.0	968.0	927.8	40.23	24.062	
8,400.0	8,381.3	8,427.8	8,381.3	15.8	24.1	89.65	-79.1	710.0	968.0	927.7	40.33	24.004	
8,500.0	8,481.3	8,527.8	8,481.3	15.9	24.1	89.65	-79.1	710.0	968.0	927.6	40.43	23.946	
8,600.0	8,581.3	8,627.8	8,581.3	15.9	24.1	89.65	-79.1	710.0	968.0	927.5	40.52	23.888	
8,700.0	8,681.3	8,727.8	8,681.3	16.0	24.2	89.65	-79.1	710.0	968.0	927.4	40.62	23.830	
8,800.0	8,781.3	8,827.8	8,781.3	16.1	24.2	89.65	-79.1	710.0	968.0	927.3	40.72	23.771	
8,900.0	8,881.3	8,927.8	8,881.3	16.1	24.3	89.65	-79.1	710.0	968.0	927.2	40.82	23.713	
9,000.0	8,981.3	9,027.8	8,981.3	16.2	24.3	89.65	-79.1	710.0	968.0	927.1	40.92	23.655	
9,100.0	9,081.3	9,127.8	9,081.3	16.3	24.3	89.65	-79.1	710.0	968.0	927.0	41.02	23.597	
9,200.0	9,181.3	9,227.8	9,181.3	16.3	24.4	89.65	-79.1	710.0	968.0	926.9	41.12	23.540	
9,300.0	9,281.3	9,327.8	9,281.3	16.4	24.4	89.65	-79.1	710.0	968.0	926.8	41.22	23.482	
9,400.0	9,381.3	9,427.8	9,381.3	16.5	24.4	89.65	-79.1	710.0	968.0	926.7	41.33	23.424	
9,500.0	9,481.3	9,527.8	9,481.3	16.5	24.5	89.65	-79.1	710.0	968.0	926.6	41.43	23.366	
9,600.0	9,581.3	9,627.8	9,581.3	16.6	24.5	89.65	-79.1	710.0	968.0	926.5	41.53	23.309	
9,700.0	9,681.3	9,727.8	9,681.3	16.7	24.6	89.65	-79.1	710.0	968.0	926.4	41.63	23.251	
9,800.0	9,781.3	9,827.8	9,781.3	16.8	24.6	89.65	-79.1	710.0	968.0	926.3	41.74	23.194	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 MWD+IFR1		Offset		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	9,881.3	9,927.8	9,881.3	16.8	24.7	89.65	-79.1	710.0	968.0	926.2	41.84	23.136			
10,000.0	9,981.3	10,027.8	9,981.3	16.9	24.7	89.65	-79.1	710.0	968.0	926.1	41.94	23.079			
10,100.0	10,081.3	10,127.8	10,081.3	17.0	24.7	89.65	-79.1	710.0	968.0	926.0	42.05	23.022			
10,200.0	10,181.3	10,227.8	10,181.3	17.0	24.8	89.65	-79.1	710.0	968.0	925.9	42.15	22.965			
10,300.0	10,281.3	10,327.8	10,281.3	17.1	24.8	89.65	-79.1	710.0	968.0	925.8	42.26	22.908			
10,400.0	10,381.3	10,427.8	10,381.3	17.2	24.9	89.65	-79.1	710.0	968.0	925.6	42.36	22.851			
10,500.0	10,481.3	10,527.8	10,481.3	17.3	24.9	89.65	-79.1	710.0	968.0	925.5	42.47	22.794			
10,600.0	10,581.3	10,627.8	10,581.3	17.3	24.9	89.65	-79.1	710.0	968.0	925.4	42.57	22.737			
10,700.0	10,681.3	10,727.8	10,681.3	17.4	25.0	89.65	-79.1	710.0	968.0	925.3	42.68	22.680			
10,800.0	10,781.3	10,827.8	10,781.3	17.5	25.0	89.65	-79.1	710.0	968.0	925.2	42.79	22.624			
10,900.0	10,881.3	10,927.8	10,881.3	17.5	25.1	89.65	-79.1	710.0	968.0	925.1	42.89	22.567			
11,000.0	10,981.3	11,027.8	10,981.3	17.6	25.1	89.65	-79.1	710.0	968.0	925.0	43.00	22.511			
11,100.0	11,081.3	11,127.8	11,081.3	17.7	25.2	89.65	-79.1	710.0	968.0	924.9	43.11	22.455			
11,200.0	11,181.3	11,227.8	11,181.3	17.8	25.2	89.65	-79.1	710.0	968.0	924.8	43.22	22.399			
11,300.0	11,281.3	11,327.8	11,281.3	17.8	25.3	89.65	-79.1	710.0	968.0	924.7	43.32	22.343			
11,361.2	11,342.5	11,389.1	11,342.5	17.9	25.3	89.65	-79.1	710.0	968.0	924.6	43.38	22.316			
11,375.0	11,356.3	11,401.6	11,355.1	17.9	25.3	-84.35	-79.3	710.0	968.0	924.6	43.38	22.314			
11,400.0	11,381.2	11,425.0	11,378.4	17.9	25.3	-84.36	-80.5	710.1	967.9	924.5	43.38	22.313			
11,425.0	11,406.1	11,447.4	11,400.7	17.9	25.3	-84.39	-82.7	710.2	967.8	924.4	43.38	22.311			
11,450.0	11,430.8	11,470.2	11,423.3	17.9	25.3	-84.44	-86.0	710.4	967.5	924.2	43.37	22.308			
11,475.0	11,455.2	11,493.1	11,445.7	17.9	25.3	-84.50	-90.4	710.6	967.3	923.9	43.37	22.304			
11,500.0	11,479.3	11,516.0	11,468.0	17.9	25.3	-84.57	-95.9	710.9	966.9	923.5	43.36	22.298			
11,525.0	11,503.1	11,539.0	11,490.0	17.9	25.4	-84.66	-102.5	711.2	966.5	923.1	43.36	22.291			
11,550.0	11,526.4	11,561.9	11,511.6	17.9	25.4	-84.76	-110.1	711.6	965.9	922.6	43.35	22.282			
11,575.0	11,549.2	11,584.9	11,532.9	17.9	25.4	-84.87	-118.7	712.1	965.4	922.0	43.35	22.271			
11,600.0	11,571.4	11,607.9	11,553.8	18.0	25.4	-85.00	-128.4	712.6	964.7	921.4	43.34	22.259			
11,625.0	11,593.0	11,631.0	11,574.2	18.0	25.4	-85.14	-139.1	713.1	964.0	920.7	43.34	22.245			
11,650.0	11,614.0	11,654.1	11,594.2	18.0	25.4	-85.30	-150.8	713.7	963.3	919.9	43.33	22.229			
11,675.0	11,634.2	11,677.3	11,613.5	18.0	25.5	-85.46	-163.4	714.4	962.5	919.1	43.33	22.211			
11,700.0	11,653.5	11,700.0	11,631.9	18.0	25.5	-85.64	-176.7	715.1	961.6	918.2	43.33	22.191			
11,725.0	11,672.1	11,723.8	11,650.5	18.1	25.5	-85.83	-191.6	715.9	960.7	917.3	43.33	22.168			
11,750.0	11,689.7	11,747.1	11,667.9	18.1	25.5	-86.03	-207.0	716.7	959.7	916.3	43.34	22.143			
11,775.0	11,706.4	11,770.5	11,684.7	18.1	25.6	-86.25	-223.4	717.6	958.6	915.3	43.35	22.115			
11,800.0	11,722.1	11,794.0	11,700.6	18.1	25.6	-86.47	-240.6	718.5	957.6	914.2	43.36	22.085			
11,825.0	11,736.7	11,817.5	11,715.7	18.2	25.6	-86.70	-258.6	719.4	956.5	913.1	43.37	22.051			
11,850.0	11,750.3	11,841.2	11,730.0	18.2	25.6	-86.94	-277.4	720.4	955.3	911.9	43.39	22.015			
11,875.0	11,762.7	11,864.9	11,743.4	18.2	25.7	-87.19	-296.9	721.4	954.1	910.7	43.42	21.976			
11,900.0	11,774.0	11,888.7	11,755.8	18.3	25.7	-87.45	-317.2	722.5	952.9	909.5	43.45	21.933			
11,925.0	11,784.1	11,912.5	11,767.2	18.3	25.7	-87.72	-338.1	723.6	951.7	908.2	43.48	21.887			
11,950.0	11,793.0	11,936.5	11,777.7	18.3	25.7	-87.99	-359.7	724.7	950.4	906.9	43.52	21.838			
11,975.0	11,800.7	11,960.6	11,787.0	18.4	25.8	-88.27	-381.9	725.9	949.1	905.6	43.57	21.785			
12,000.0	11,807.1	11,984.8	11,795.3	18.4	25.8	-88.56	-404.6	727.0	947.8	904.2	43.62	21.729			
12,025.0	11,812.2	12,009.1	11,802.4	18.4	25.8	-88.85	-427.8	728.3	946.5	902.8	43.68	21.670			
12,050.0	11,816.0	12,033.5	11,808.3	18.5	25.9	-89.14	-451.4	729.5	945.2	901.5	43.75	21.607			
12,075.0	11,818.6	12,058.0	11,813.1	18.5	25.9	-89.44	-475.4	730.8	943.9	900.1	43.82	21.541			
12,100.0	11,819.8	12,082.6	11,816.6	18.6	25.9	-89.73	-499.7	732.0	942.6	898.7	43.90	21.472			
12,111.2	11,820.0	12,093.7	11,817.8	18.6	25.9	-89.87	-510.8	732.6	942.0	898.1	43.93	21.441			
12,200.0	11,820.0	12,203.3	11,820.0	18.8	26.1	-90.00	-620.2	737.6	938.2	893.8	44.42	21.119			
12,300.0	11,820.0	12,336.8	11,820.0	19.0	26.4	-90.00	-753.6	738.7	933.2	888.1	45.14	20.673			
12,400.0	11,820.0	12,436.8	11,820.0	19.3	26.6	-90.00	-853.6	738.1	930.5	884.8	45.75	20.340			
12,411.6	11,820.0	12,448.4	11,820.0	19.4	26.6	-90.00	-865.2	738.0	930.4	884.6	45.82	20.306			

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 MWD+IFR1							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
12,500.0	11,820.0	12,536.8	11,820.0	19.6	26.9	-90.00	-953.6	737.5	929.9	883.5	46.40	20.042		
12,600.0	11,820.0	12,636.8	11,820.0	20.0	27.2	-90.00	-1,053.6	736.9	929.3	882.2	47.12	19.724		
12,700.0	11,820.0	12,736.8	11,820.0	20.4	27.5	-90.00	-1,153.6	736.3	928.7	880.8	47.90	19.388		
12,800.0	11,820.0	12,836.8	11,820.0	20.9	27.8	-90.00	-1,253.6	735.7	928.2	879.4	48.75	19.039		
12,900.0	11,820.0	12,936.8	11,820.0	21.4	28.2	-90.00	-1,353.6	735.1	927.6	877.9	49.66	18.681		
13,000.0	11,820.0	13,036.8	11,820.0	21.9	28.6	-90.00	-1,453.6	734.5	927.0	876.4	50.62	18.315		
13,100.0	11,820.0	13,136.8	11,820.0	22.5	29.1	-90.00	-1,553.6	733.9	926.4	874.8	51.63	17.944		
13,200.0	11,820.0	13,236.8	11,820.0	23.1	29.6	-90.00	-1,653.6	733.3	925.8	873.2	52.69	17.571		
13,300.0	11,820.0	13,336.8	11,820.0	23.7	30.1	-90.00	-1,753.6	732.7	925.3	871.5	53.80	17.199		
13,400.0	11,820.0	13,436.8	11,820.0	24.3	30.6	-90.00	-1,853.6	732.1	924.7	869.7	54.95	16.828		
13,500.0	11,820.0	13,536.8	11,820.0	25.0	31.1	-90.00	-1,953.6	731.5	924.1	868.0	56.14	16.460		
13,600.0	11,820.0	13,636.8	11,820.0	25.7	31.7	-90.00	-2,053.6	730.9	923.5	866.1	57.37	16.097		
13,700.0	11,820.0	13,736.8	11,820.0	26.4	32.3	-90.00	-2,153.6	730.3	922.9	864.3	58.64	15.740		
13,800.0	11,820.0	13,836.7	11,820.0	27.1	32.9	-90.00	-2,253.6	729.7	922.4	862.4	59.94	15.389		
13,900.0	11,820.0	13,936.7	11,820.0	27.9	33.5	-90.00	-2,353.6	729.1	921.8	860.5	61.27	15.045		
14,000.0	11,820.0	14,036.7	11,820.0	28.6	34.1	-90.00	-2,453.5	728.6	921.2	858.6	62.63	14.710		
14,100.0	11,820.0	14,136.7	11,820.0	29.4	34.8	-90.00	-2,553.5	728.0	920.6	856.6	64.01	14.382		
14,200.0	11,820.0	14,236.7	11,820.0	30.2	35.4	-90.00	-2,653.5	727.4	920.0	854.6	65.42	14.062		
14,300.0	11,820.0	14,336.7	11,820.0	31.0	36.1	-90.00	-2,753.5	726.8	919.4	852.6	66.86	13.752		
14,400.0	11,820.0	14,436.7	11,820.0	31.8	36.8	-90.00	-2,853.5	726.2	918.9	850.5	68.32	13.449		
14,500.0	11,820.0	14,536.7	11,820.0	32.6	37.5	-90.00	-2,953.5	725.6	918.3	848.5	69.80	13.156		
14,600.0	11,820.0	14,636.7	11,820.0	33.4	38.2	-90.00	-3,053.5	725.0	917.7	846.4	71.30	12.871		
14,700.0	11,820.0	14,736.7	11,820.0	34.2	38.9	-90.00	-3,153.5	724.4	917.1	844.3	72.82	12.595		
14,800.0	11,820.0	14,836.7	11,820.0	35.0	39.7	-90.00	-3,253.5	723.8	916.5	842.2	74.35	12.327		
14,900.0	11,820.0	14,936.7	11,820.0	35.9	40.4	-90.00	-3,353.5	723.2	916.0	840.1	75.91	12.067		
15,000.0	11,820.0	15,036.7	11,820.0	36.7	41.2	-90.00	-3,453.5	722.6	915.4	837.9	77.47	11.816		
15,100.0	11,820.0	15,136.7	11,820.0	37.6	41.9	-90.00	-3,553.5	722.0	914.8	835.7	79.05	11.572		
15,200.0	11,820.0	15,236.7	11,820.0	38.4	42.7	-90.00	-3,653.5	721.4	914.2	833.6	80.65	11.336		
15,300.0	11,820.0	15,336.7	11,820.0	39.3	43.5	-90.00	-3,753.5	720.8	913.6	831.4	82.26	11.107		
15,400.0	11,820.0	15,436.7	11,820.0	40.1	44.3	-90.00	-3,853.5	720.2	913.1	829.2	83.88	10.886		
15,500.0	11,820.0	15,536.7	11,820.0	41.0	45.1	-90.00	-3,953.5	719.6	912.5	827.0	85.51	10.671		
15,600.0	11,820.0	15,636.7	11,820.0	41.9	45.9	-90.00	-4,053.5	719.0	911.9	824.7	87.15	10.464		
15,700.0	11,820.0	15,736.7	11,820.0	42.8	46.7	-90.00	-4,153.5	718.4	911.3	822.5	88.80	10.262		
15,800.0	11,820.0	15,836.7	11,820.0	43.6	47.5	-90.00	-4,253.5	717.8	910.7	820.3	90.46	10.067		
15,900.0	11,820.0	15,936.7	11,820.0	44.5	48.3	-90.00	-4,353.5	717.2	910.1	818.0	92.13	9.879		
16,000.0	11,820.0	16,036.7	11,820.0	45.4	49.1	-90.00	-4,453.5	716.6	909.6	815.8	93.81	9.696		
16,100.0	11,820.0	16,136.7	11,820.0	46.3	49.9	-90.00	-4,553.5	716.0	909.0	813.5	95.50	9.518		
16,200.0	11,820.0	16,236.7	11,820.0	47.2	50.8	-90.00	-4,653.5	715.5	908.4	811.2	97.19	9.346		
16,300.0	11,820.0	16,336.7	11,820.0	48.1	51.6	-90.00	-4,753.5	714.9	907.8	808.9	98.90	9.180		
16,400.0	11,820.0	16,436.7	11,820.0	49.0	52.5	-90.00	-4,853.5	714.3	907.2	806.6	100.60	9.018		
16,500.0	11,820.0	16,536.7	11,820.0	49.9	53.3	-90.00	-4,953.5	713.7	906.7	804.3	102.32	8.861		
16,600.0	11,820.0	16,636.7	11,820.0	50.8	54.1	-90.00	-5,053.5	713.1	906.1	802.0	104.04	8.709		
16,700.0	11,820.0	16,736.7	11,820.0	51.7	55.0	-90.00	-5,153.5	712.5	905.5	799.7	105.77	8.561		
16,800.0	11,820.0	16,836.7	11,820.0	52.6	55.8	-90.00	-5,253.5	711.9	904.9	797.4	107.50	8.418		
16,900.0	11,820.0	16,936.7	11,820.0	53.5	56.7	-90.00	-5,353.4	711.3	904.3	795.1	109.24	8.278		
17,000.0	11,820.0	17,036.7	11,820.0	54.4	57.6	-90.00	-5,453.4	710.7	903.8	792.8	110.98	8.143		
17,100.0	11,820.0	17,136.7	11,820.0	55.3	58.4	-90.00	-5,553.4	710.1	903.2	790.4	112.73	8.012		
17,200.0	11,820.0	17,236.7	11,820.0	56.2	59.3	-90.00	-5,653.4	709.5	902.6	788.1	114.49	7.884		
17,300.0	11,820.0	17,336.7	11,820.0	57.2	60.2	-90.00	-5,753.4	708.9	902.0	785.8	116.24	7.760		
17,400.0	11,820.0	17,436.7	11,820.0	58.1	61.0	-90.00	-5,853.4	708.3	901.4	783.4	118.00	7.639		
17,500.0	11,820.0	17,536.7	11,820.0	59.0	61.9	-90.00	-5,953.4	707.7	900.8	781.1	119.77	7.521		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 MWD+IFR1				Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Distance	Offset Well Error:	3.0 usft
Measured	Reference	Vertical	Measured	Vertical	Reference	Offset	Highside									Warning
Depth		Depth	Depth	Depth			Toolface		+N/-S	+E/-W	Between	Between	Minimum	Separation		
(usft)		(usft)	(usft)	(usft)	(usft)	(usft)	(°)		(usft)	(usft)	Centres	Ellipses	Separation	Factor		
											(usft)	(usft)	(usft)			
17,600.0		11,820.0	17,636.7	11,820.0	59.9	62.8	-90.00		-6,053.4	707.1	900.3	778.7	121.54	7.407		
17,700.0		11,820.0	17,736.7	11,820.0	60.8	63.7	-90.00		-6,153.4	706.5	899.7	776.4	123.31	7.296		
17,800.0		11,820.0	17,836.7	11,820.0	61.8	64.5	-90.00		-6,253.4	705.9	899.1	774.0	125.09	7.188		
17,900.0		11,820.0	17,936.7	11,820.0	62.7	65.4	-90.00		-6,353.4	705.3	898.5	771.6	126.87	7.082		
18,000.0		11,820.0	18,036.7	11,820.0	63.6	66.3	-90.00		-6,453.4	704.7	897.9	769.3	128.65	6.980		
18,100.0		11,820.0	18,136.7	11,820.0	64.5	67.2	-90.00		-6,553.4	704.1	897.4	766.9	130.44	6.879		
18,200.0		11,820.0	18,236.7	11,820.0	65.5	68.1	-90.00		-6,653.4	703.5	896.8	764.5	132.23	6.782		
18,300.0		11,820.0	18,336.7	11,820.0	66.4	69.0	-90.00		-6,753.4	702.9	896.2	762.2	134.02	6.687		
18,400.0		11,820.0	18,436.7	11,820.0	67.3	69.9	-90.00		-6,853.4	702.4	895.6	759.8	135.82	6.594		
18,500.0		11,820.0	18,536.7	11,820.0	68.2	70.8	-90.00		-6,953.4	701.8	895.0	757.4	137.62	6.504		
18,600.0		11,820.0	18,636.7	11,820.0	69.2	71.7	-90.00		-7,053.4	701.2	894.5	755.0	139.42	6.416		
18,700.0		11,820.0	18,736.7	11,820.0	70.1	72.6	-90.00		-7,153.4	700.6	893.9	752.7	141.22	6.330		
18,800.0		11,820.0	18,836.7	11,820.0	71.0	73.5	-90.00		-7,253.4	700.0	893.3	750.3	143.02	6.246		
18,900.0		11,820.0	18,936.7	11,820.0	72.0	74.4	-90.00		-7,353.4	699.4	892.7	747.9	144.83	6.164		
19,000.0		11,820.0	19,036.7	11,820.0	72.9	75.3	-90.00		-7,453.4	698.8	892.1	745.5	146.64	6.084		
19,100.0		11,820.0	19,136.7	11,820.0	73.8	76.2	-90.00		-7,553.4	698.2	891.5	743.1	148.45	6.006		
19,200.0		11,820.0	19,236.7	11,820.0	74.8	77.0	-90.00		-7,653.4	697.6	891.0	740.8	150.16	5.933		
19,273.0		11,820.0	19,304.3	11,820.0	75.4	77.4	-90.00		-7,721.0	697.2	890.6	739.3	151.25	5.888		
19,278.3		11,820.0	19,304.3	11,820.0	75.5	77.4	-90.00		-7,721.0	697.2	890.6	739.3	151.31	5.886		

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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 25 FBS #3H (P&A) - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 54-r.5 GYRO-NS-CT, 1153-r.5 MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
9,000.0	8,981.3	14,160.0	9,502.6	16.2	79.2	-126.18	-587.1	-944.6	997.7	915.0	82.73	12.060	
9,100.0	9,081.3	14,160.0	9,502.6	16.3	79.2	-126.18	-587.1	-944.6	949.3	863.9	85.33	11.124	
9,200.0	9,181.3	14,160.0	9,502.6	16.3	79.2	-126.18	-587.1	-944.6	909.3	821.3	87.96	10.337	
9,300.0	9,281.3	14,160.0	9,502.6	16.4	79.2	-126.18	-587.1	-944.6	878.9	788.5	90.46	9.716	
9,400.0	9,381.3	14,160.0	9,502.6	16.5	79.2	-126.18	-587.1	-944.6	859.2	766.6	92.63	9.276	
9,500.0	9,481.3	14,160.0	9,502.6	16.5	79.2	-126.18	-587.1	-944.6	850.9	756.6	94.29	9.024	
9,521.3	9,502.6	14,160.0	9,502.6	16.6	79.2	-126.18	-587.1	-944.6	850.6	756.0	94.57	8.994 CC, ES	
9,600.0	9,581.3	14,160.0	9,502.6	16.6	79.2	-126.18	-587.1	-944.6	854.2	758.9	95.33	8.961 SF	
9,700.0	9,681.3	14,160.0	9,502.6	16.7	79.2	-126.18	-587.1	-944.6	869.2	773.5	95.69	9.083	
9,800.0	9,781.3	14,160.0	9,502.6	16.8	79.2	-126.18	-587.1	-944.6	895.1	799.7	95.44	9.378	
9,900.0	9,881.3	14,160.0	9,502.6	16.8	79.2	-126.18	-587.1	-944.6	931.1	836.4	94.70	9.832	
10,000.0	9,981.3	14,160.0	9,502.6	16.9	79.2	-126.18	-587.1	-944.6	976.0	882.4	93.60	10.428	

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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		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)			
8,500.0	8,481.3	13,450.0	9,020.8	15.9	79.8	125.60	-559.5	404.8	977.6	894.0	83.51	11.706	
8,600.0	8,581.3	13,450.0	9,020.8	15.9	79.8	125.60	-559.5	404.8	926.1	840.2	85.91	10.779	
8,700.0	8,681.3	13,450.0	9,020.8	16.0	79.8	125.60	-559.5	404.8	883.0	794.9	88.20	10.012	
8,800.0	8,781.3	13,450.0	9,020.8	16.1	79.8	125.60	-559.5	404.8	849.6	759.4	90.17	9.422	
8,900.0	8,881.3	13,450.0	9,020.8	16.1	79.8	125.60	-559.5	404.8	827.0	735.4	91.64	9.025	
9,000.0	8,981.3	13,450.0	9,020.8	16.2	79.8	125.60	-559.5	404.8	816.1	723.7	92.41	8.831	
9,039.6	9,020.8	13,450.0	9,020.8	16.2	79.8	125.60	-559.5	404.8	815.1	722.6	92.51	8.812 CC, ES, SF	
9,100.0	9,081.3	13,450.0	9,020.8	16.3	79.8	125.60	-559.5	404.8	817.4	725.0	92.41	8.845	
9,200.0	9,181.3	13,450.0	9,020.8	16.3	79.8	125.60	-559.5	404.8	830.8	739.1	91.63	9.066	
9,300.0	9,281.3	13,450.0	9,020.8	16.4	79.8	125.60	-559.5	404.8	855.7	765.5	90.22	9.485	
9,400.0	9,381.3	13,450.0	9,020.8	16.5	79.8	125.60	-559.5	404.8	891.3	802.9	88.35	10.088	
9,500.0	9,481.3	13,450.0	9,020.8	16.5	79.8	125.60	-559.5	404.8	936.2	850.0	86.23	10.857	
9,600.0	9,581.3	13,450.0	9,020.8	16.6	79.8	125.60	-559.5	404.8	989.2	905.2	84.04	11.770	

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

ConocoPhillips

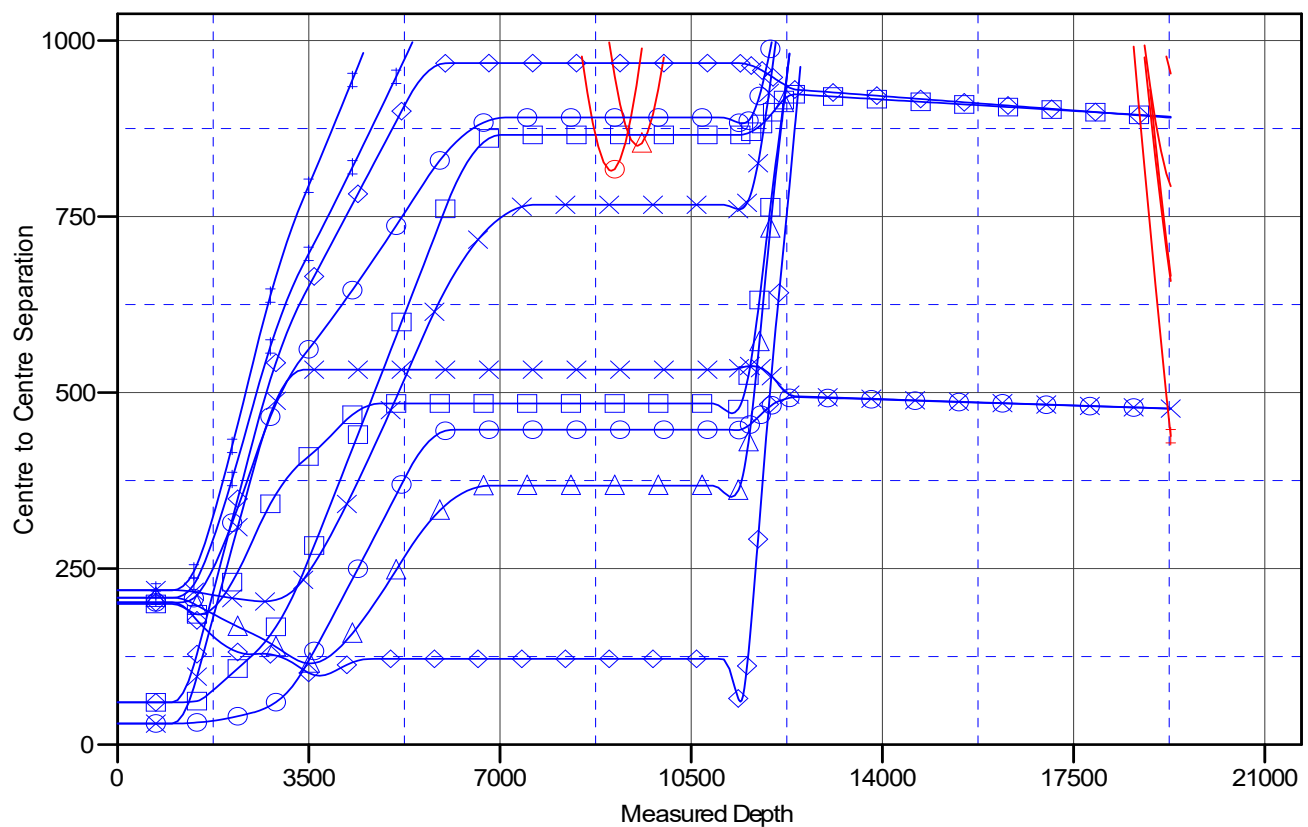
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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 #703H - 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

GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0	LINDSAY 3-10K-55-1 #415H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0
*ZIA HILLS UNIT 2531 WC #702H, OWB, PWP0 V0	LINDSAY 2 #4H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0
*ZIA HILLS UNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #704H, OWB, PWP0 V0	LINDSAY 2 #441H, OWB, AWP V0
*ZIA HILLS UNIT 2531 WC #704H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #705H, OWB, PWP0 V0	LINDSAY 3-10K-55-1 #404H, OWB, AWP V0
GOLDEN SPUR FEDERAL #1H (P&A), ST01, AWP V0	ZIA HILLS UNIT 2431 WC #706H, OWB, PWP0 V0	LINDSAY 3-10P-55-1 #443H, OWB, AWP V0
LINDSAY 3-10L-55-1 #426H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #707H, OWB, PWP0 V0	

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

ConocoPhillips

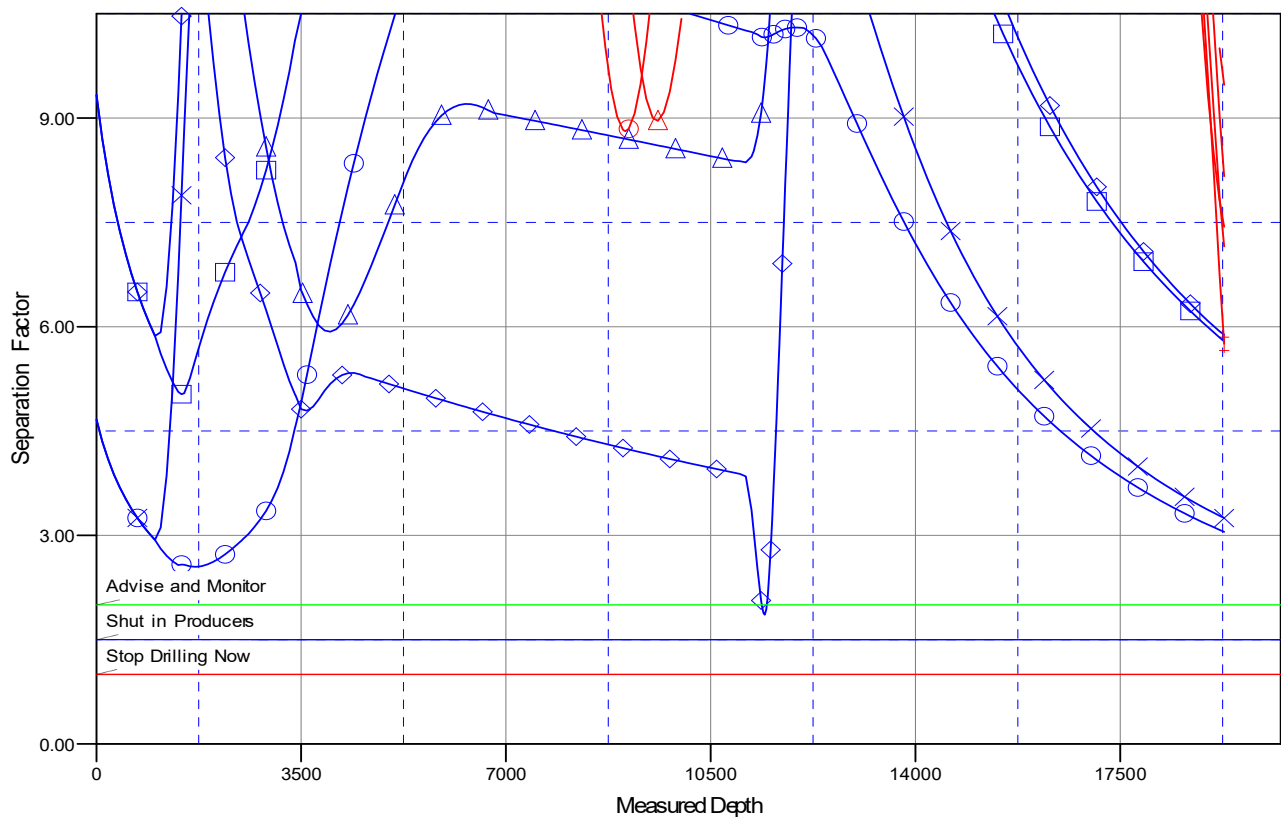
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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 #703H - 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

GOLDEN SPUR 25 FBS #3H (P&A), OWB, AWP V0	LINDSAY 3-10K-55-1 #415H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0
*ZIA HILLS UNIT 2531 WC #703H, OWB, PWP0 V0	LINDSAY 2 #44H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0
*ZIA HILLS UNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP1 V0	LINDSAY 2 #44H, OWB, AWP V0
*ZIA HILLS UNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	LINDSAY 3-10K-55-1 #404H, OWB, AWP V0
*ZIA HILLS UNIT 2531 WC #703H, OWB, PWP0 V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	LINDSAY 3-10P-55-1 #443H, OWB, AWP V0
GOLDEN SPUR FEDERAL #1H (P&A), ST01, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	
LINDSAY 3-10L-55-1 #426H, OWB, AWP V0	ZIA HILLS UNIT 2431 WC #703H, OWB, PWP0 V0	

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

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H**

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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	47,302.51511094

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.43

Plan Survey Tool Program	Date	8/10/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,278.3 PWP0 (OWB)	r.5 MWD+IFR1	
			OWSG MWD + IFR1	rev.5

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,454.9	9.10	251.77	1,453.0	-11.3	-34.2	2.00	2.00	0.00	251.77	
2,488.9	9.10	251.77	2,473.9	-62.4	-189.5	0.00	0.00	0.00	0.00	
3,398.7	0.00	0.00	3,380.0	-85.0	-258.0	1.00	-1.00	0.00	180.00	
11,361.2	0.00	0.00	11,342.5	-85.0	-258.0	0.00	0.00	0.00	0.00	
12,111.2	90.00	174.00	11,820.0	-559.8	-208.1	12.00	12.00	0.00	174.00	
12,411.6	90.00	180.01	11,820.0	-859.7	-192.4	2.00	0.00	2.00	90.00	
19,278.3	90.00	180.01	11,820.0	-7,726.3	-193.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #703H - Slot ZHU 2531 WC #703H
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 #703H	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	251.77	1,100.0	-0.5	-1.7	0.6	2.00	2.00	0.00	
1,200.0	4.00	251.77	1,199.8	-2.2	-6.6	2.3	2.00	2.00	0.00	
1,300.0	6.00	251.77	1,299.5	-4.9	-14.9	5.3	2.00	2.00	0.00	
1,400.0	8.00	251.77	1,398.7	-8.7	-26.5	9.4	2.00	2.00	0.00	
1,454.9	9.10	251.77	1,453.0	-11.3	-34.2	12.1	2.00	2.00	0.00	
1,500.0	9.10	251.77	1,497.5	-13.5	-41.0	14.5	0.00	0.00	0.00	
1,600.0	9.10	251.77	1,596.3	-18.5	-56.0	19.9	0.00	0.00	0.00	
1,700.0	9.10	251.77	1,695.0	-23.4	-71.0	25.2	0.00	0.00	0.00	
1,800.0	9.10	251.77	1,793.7	-28.4	-86.1	30.5	0.00	0.00	0.00	
1,900.0	9.10	251.77	1,892.5	-33.3	-101.1	35.8	0.00	0.00	0.00	
2,000.0	9.10	251.77	1,991.2	-38.3	-116.1	41.1	0.00	0.00	0.00	
2,100.0	9.10	251.77	2,090.0	-43.2	-131.1	46.5	0.00	0.00	0.00	
2,200.0	9.10	251.77	2,188.7	-48.1	-146.1	51.8	0.00	0.00	0.00	
2,300.0	9.10	251.77	2,287.5	-53.1	-161.2	57.1	0.00	0.00	0.00	
2,400.0	9.10	251.77	2,386.2	-58.0	-176.2	62.4	0.00	0.00	0.00	
2,488.9	9.10	251.77	2,473.9	-62.4	-189.5	67.2	0.00	0.00	0.00	
2,500.0	8.99	251.77	2,484.9	-63.0	-191.2	67.8	1.00	-1.00	0.00	
2,600.0	7.99	251.77	2,583.8	-67.6	-205.2	72.7	1.00	-1.00	0.00	
2,700.0	6.99	251.77	2,683.0	-71.7	-217.6	77.1	1.00	-1.00	0.00	
2,800.0	5.99	251.77	2,782.4	-75.2	-228.3	80.9	1.00	-1.00	0.00	
2,900.0	4.99	251.77	2,881.9	-78.2	-237.4	84.1	1.00	-1.00	0.00	
3,000.0	3.99	251.77	2,981.6	-80.7	-244.8	86.8	1.00	-1.00	0.00	
3,100.0	2.99	251.77	3,081.4	-82.6	-250.6	88.8	1.00	-1.00	0.00	
3,200.0	1.99	251.77	3,181.3	-83.9	-254.7	90.3	1.00	-1.00	0.00	
3,300.0	0.99	251.77	3,281.3	-84.7	-257.2	91.1	1.00	-1.00	0.00	
3,398.7	0.00	0.00	3,380.0	-85.0	-258.0	91.4	1.00	-1.00	0.00	
3,400.0	0.00	0.00	3,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,881.3	-85.0	-258.0	91.4	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,000.0	0.00	0.00	4,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,181.3	-85.0	-258.0	91.4	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	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	10,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,381.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,481.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,581.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,681.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,781.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,881.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,981.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,081.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,181.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,281.3	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,361.2	0.00	0.00	11,342.5	-85.0	-258.0	91.4	0.00	0.00	0.00	
11,375.0	1.65	174.00	11,356.3	-85.2	-258.0	91.6	12.00	12.00	0.00	
11,400.0	4.65	174.00	11,381.2	-86.6	-257.8	93.0	12.00	12.00	0.00	
11,425.0	7.65	174.00	11,406.1	-89.2	-257.6	95.6	12.00	12.00	0.00	
11,450.0	10.65	174.00	11,430.8	-93.2	-257.1	99.6	12.00	12.00	0.00	
11,475.0	13.65	174.00	11,455.2	-98.4	-256.6	104.8	12.00	12.00	0.00	
11,500.0	16.65	174.00	11,479.3	-104.9	-255.9	111.3	12.00	12.00	0.00	
11,525.0	19.65	174.00	11,503.1	-112.7	-255.1	119.0	12.00	12.00	0.00	
11,550.0	22.65	174.00	11,526.4	-121.6	-254.2	127.9	12.00	12.00	0.00	
11,575.0	25.65	174.00	11,549.2	-131.8	-253.1	138.1	12.00	12.00	0.00	
11,600.0	28.65	174.00	11,571.4	-143.1	-251.9	149.4	12.00	12.00	0.00	
11,625.0	31.65	174.00	11,593.0	-155.6	-250.6	161.9	12.00	12.00	0.00	
11,650.0	34.65	174.00	11,614.0	-169.2	-249.1	175.4	12.00	12.00	0.00	
11,675.0	37.65	174.00	11,634.2	-183.9	-247.6	190.0	12.00	12.00	0.00	
11,700.0	40.65	174.00	11,653.5	-199.6	-246.0	205.7	12.00	12.00	0.00	
11,725.0	43.65	174.00	11,672.1	-216.3	-244.2	222.3	12.00	12.00	0.00	
11,750.0	46.65	174.00	11,689.7	-233.9	-242.4	239.9	12.00	12.00	0.00	
11,775.0	49.65	174.00	11,706.4	-252.4	-240.4	258.3	12.00	12.00	0.00	
11,800.0	52.65	174.00	11,722.1	-271.8	-238.4	277.7	12.00	12.00	0.00	
11,825.0	55.65	174.00	11,736.7	-291.9	-236.3	297.7	12.00	12.00	0.00	
11,850.0	58.65	174.00	11,750.3	-312.8	-234.1	318.6	12.00	12.00	0.00	
11,875.0	61.65	174.00	11,762.7	-334.4	-231.8	340.1	12.00	12.00	0.00	
11,900.0	64.65	174.00	11,774.0	-356.6	-229.5	362.2	12.00	12.00	0.00	
11,925.0	67.65	174.00	11,784.1	-379.3	-227.1	384.9	12.00	12.00	0.00	
11,950.0	70.65	174.00	11,793.0	-402.5	-224.6	408.0	12.00	12.00	0.00	
11,975.0	73.65	174.00	11,800.7	-426.2	-222.1	431.6	12.00	12.00	0.00	
12,000.0	76.65	174.00	11,807.1	-450.2	-219.6	455.6	12.00	12.00	0.00	
12,025.0	79.65	174.00	11,812.2	-474.5	-217.1	479.8	12.00	12.00	0.00	
12,050.0	82.65	174.00	11,816.0	-499.1	-214.5	504.3	12.00	12.00	0.00	
12,075.0	85.65	174.00	11,818.6	-523.8	-211.9	529.0	12.00	12.00	0.00	
12,100.0	88.65	174.00	11,819.8	-548.7	-209.3	553.7	12.00	12.00	0.00	
12,111.2	90.00	174.00	11,820.0	-559.8	-208.1	564.9	12.00	12.00	0.00	
12,200.0	90.00	175.78	11,820.0	-648.3	-200.2	653.1	2.00	0.00	2.00	
12,300.0	90.00	177.78	11,820.0	-748.1	-194.6	752.7	2.00	0.00	2.00	
12,400.0	90.00	179.78	11,820.0	-848.1	-192.4	852.6	2.00	0.00	2.00	
12,411.6	90.00	180.01	11,820.0	-859.7	-192.4	864.3	2.00	0.00	2.00	
12,500.0	90.00	180.01	11,820.0	-948.1	-192.4	952.6	0.00	0.00	0.00	
12,600.0	90.00	180.01	11,820.0	-1,048.1	-192.4	1,052.5	0.00	0.00	0.00	
12,700.0	90.00	180.01	11,820.0	-1,148.1	-192.4	1,152.5	0.00	0.00	0.00	
12,800.0	90.00	180.01	11,820.0	-1,248.1	-192.5	1,252.5	0.00	0.00	0.00	
12,900.0	90.00	180.01	11,820.0	-1,348.1	-192.5	1,352.5	0.00	0.00	0.00	
13,000.0	90.00	180.01	11,820.0	-1,448.1	-192.5	1,452.4	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

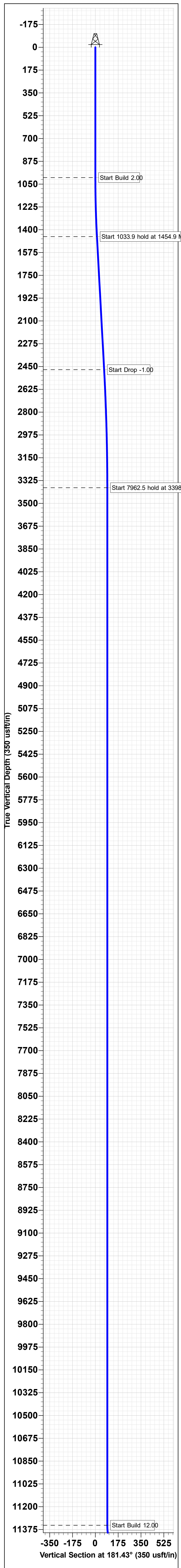
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,100.0	90.00	180.01	11,820.0	-1,548.1	-192.5	1,552.4	0.00	0.00	0.00	
13,200.0	90.00	180.01	11,820.0	-1,648.1	-192.5	1,652.4	0.00	0.00	0.00	
13,300.0	90.00	180.01	11,820.0	-1,748.1	-192.5	1,752.3	0.00	0.00	0.00	
13,400.0	90.00	180.01	11,820.0	-1,848.1	-192.5	1,852.3	0.00	0.00	0.00	
13,500.0	90.00	180.01	11,820.0	-1,948.1	-192.6	1,952.3	0.00	0.00	0.00	
13,600.0	90.00	180.01	11,820.0	-2,048.1	-192.6	2,052.2	0.00	0.00	0.00	
13,700.0	90.00	180.01	11,820.0	-2,148.1	-192.6	2,152.2	0.00	0.00	0.00	
13,800.0	90.00	180.01	11,820.0	-2,248.1	-192.6	2,252.2	0.00	0.00	0.00	
13,900.0	90.00	180.01	11,820.0	-2,348.1	-192.6	2,352.1	0.00	0.00	0.00	
14,000.0	90.00	180.01	11,820.0	-2,448.1	-192.6	2,452.1	0.00	0.00	0.00	
14,100.0	90.00	180.01	11,820.0	-2,548.1	-192.6	2,552.1	0.00	0.00	0.00	
14,200.0	90.00	180.01	11,820.0	-2,648.1	-192.7	2,652.1	0.00	0.00	0.00	
14,300.0	90.00	180.01	11,820.0	-2,748.1	-192.7	2,752.0	0.00	0.00	0.00	
14,400.0	90.00	180.01	11,820.0	-2,848.1	-192.7	2,852.0	0.00	0.00	0.00	
14,500.0	90.00	180.01	11,820.0	-2,948.1	-192.7	2,952.0	0.00	0.00	0.00	
14,600.0	90.00	180.01	11,820.0	-3,048.1	-192.7	3,051.9	0.00	0.00	0.00	
14,700.0	90.00	180.01	11,820.0	-3,148.1	-192.7	3,151.9	0.00	0.00	0.00	
14,800.0	90.00	180.01	11,820.0	-3,248.1	-192.7	3,251.9	0.00	0.00	0.00	
14,900.0	90.00	180.01	11,820.0	-3,348.1	-192.7	3,351.8	0.00	0.00	0.00	
15,000.0	90.00	180.01	11,820.0	-3,448.1	-192.8	3,451.8	0.00	0.00	0.00	
15,100.0	90.00	180.01	11,820.0	-3,548.1	-192.8	3,551.8	0.00	0.00	0.00	
15,200.0	90.00	180.01	11,820.0	-3,648.1	-192.8	3,651.7	0.00	0.00	0.00	
15,300.0	90.00	180.01	11,820.0	-3,748.1	-192.8	3,751.7	0.00	0.00	0.00	
15,400.0	90.00	180.01	11,820.0	-3,848.1	-192.8	3,851.7	0.00	0.00	0.00	
15,500.0	90.00	180.01	11,820.0	-3,948.1	-192.8	3,951.7	0.00	0.00	0.00	
15,600.0	90.00	180.01	11,820.0	-4,048.1	-192.8	4,051.6	0.00	0.00	0.00	
15,700.0	90.00	180.01	11,820.0	-4,148.1	-192.9	4,151.6	0.00	0.00	0.00	
15,800.0	90.00	180.01	11,820.0	-4,248.1	-192.9	4,251.6	0.00	0.00	0.00	
15,900.0	90.00	180.01	11,820.0	-4,348.1	-192.9	4,351.5	0.00	0.00	0.00	
16,000.0	90.00	180.01	11,820.0	-4,448.1	-192.9	4,451.5	0.00	0.00	0.00	
16,100.0	90.00	180.01	11,820.0	-4,548.1	-192.9	4,551.5	0.00	0.00	0.00	
16,200.0	90.00	180.01	11,820.0	-4,648.1	-192.9	4,651.4	0.00	0.00	0.00	
16,300.0	90.00	180.01	11,820.0	-4,748.1	-192.9	4,751.4	0.00	0.00	0.00	
16,400.0	90.00	180.01	11,820.0	-4,848.1	-193.0	4,851.4	0.00	0.00	0.00	
16,500.0	90.00	180.01	11,820.0	-4,948.1	-193.0	4,951.3	0.00	0.00	0.00	
16,600.0	90.00	180.01	11,820.0	-5,048.1	-193.0	5,051.3	0.00	0.00	0.00	
16,700.0	90.00	180.01	11,820.0	-5,148.1	-193.0	5,151.3	0.00	0.00	0.00	
16,800.0	90.00	180.01	11,820.0	-5,248.1	-193.0	5,251.2	0.00	0.00	0.00	
16,900.0	90.00	180.01	11,820.0	-5,348.1	-193.0	5,351.2	0.00	0.00	0.00	
17,000.0	90.00	180.01	11,820.0	-5,448.1	-193.0	5,451.2	0.00	0.00	0.00	
17,100.0	90.00	180.01	11,820.0	-5,548.1	-193.1	5,551.2	0.00	0.00	0.00	
17,200.0	90.00	180.01	11,820.0	-5,648.1	-193.1	5,651.1	0.00	0.00	0.00	
17,300.0	90.00	180.01	11,820.0	-5,748.1	-193.1	5,751.1	0.00	0.00	0.00	
17,400.0	90.00	180.01	11,820.0	-5,848.1	-193.1	5,851.1	0.00	0.00	0.00	
17,500.0	90.00	180.01	11,820.0	-5,948.1	-193.1	5,951.0	0.00	0.00	0.00	
17,600.0	90.00	180.01	11,820.0	-6,048.1	-193.1	6,051.0	0.00	0.00	0.00	
17,700.0	90.00	180.01	11,820.0	-6,148.1	-193.1	6,151.0	0.00	0.00	0.00	
17,800.0	90.00	180.01	11,820.0	-6,248.1	-193.2	6,250.9	0.00	0.00	0.00	
17,900.0	90.00	180.01	11,820.0	-6,348.1	-193.2	6,350.9	0.00	0.00	0.00	
18,000.0	90.00	180.01	11,820.0	-6,448.1	-193.2	6,450.9	0.00	0.00	0.00	
18,100.0	90.00	180.01	11,820.0	-6,548.1	-193.2	6,550.8	0.00	0.00	0.00	
18,200.0	90.00	180.01	11,820.0	-6,648.1	-193.2	6,650.8	0.00	0.00	0.00	
18,300.0	90.00	180.01	11,820.0	-6,748.1	-193.2	6,750.8	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 #703H - Slot ZHU 2531 WC #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

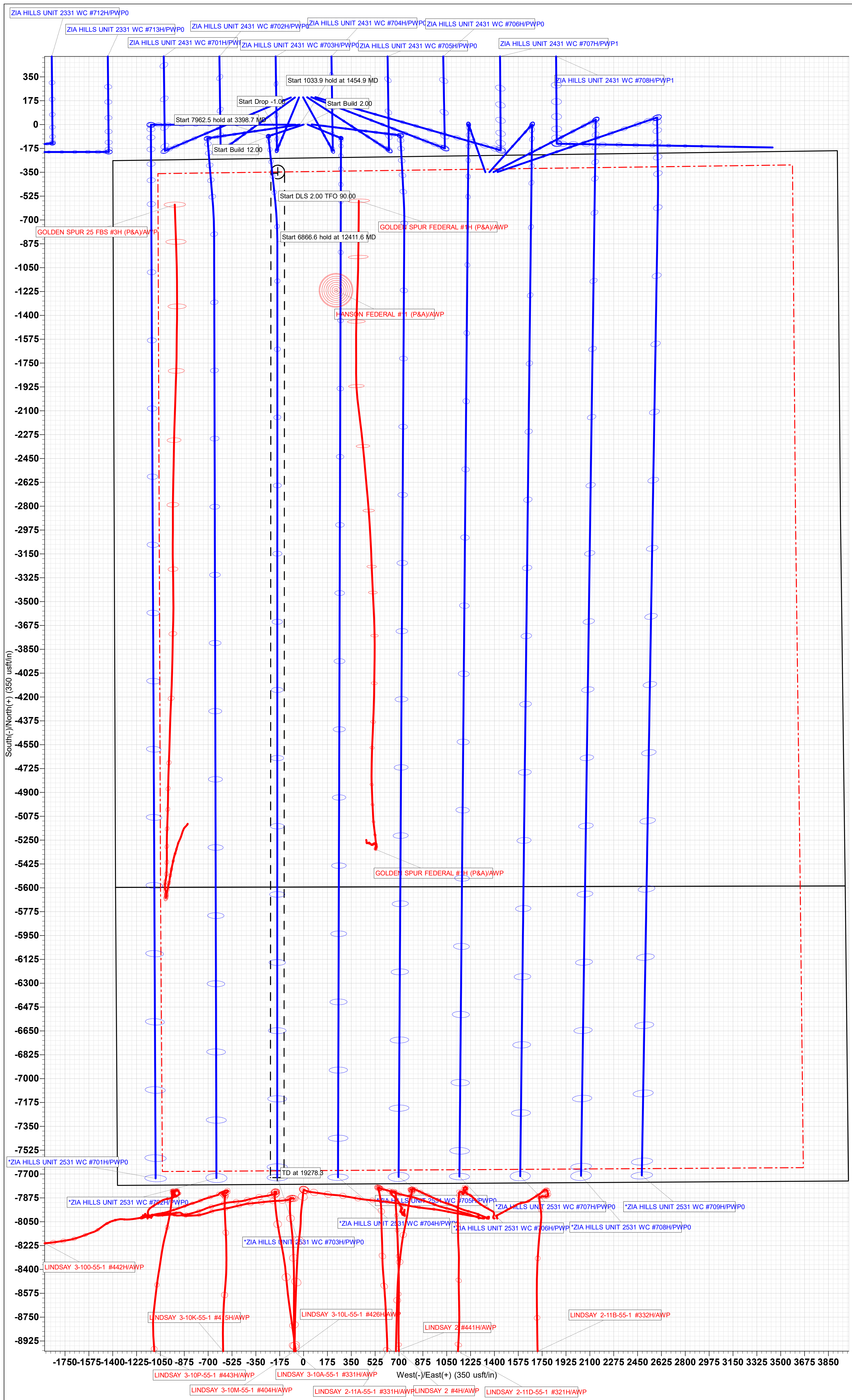
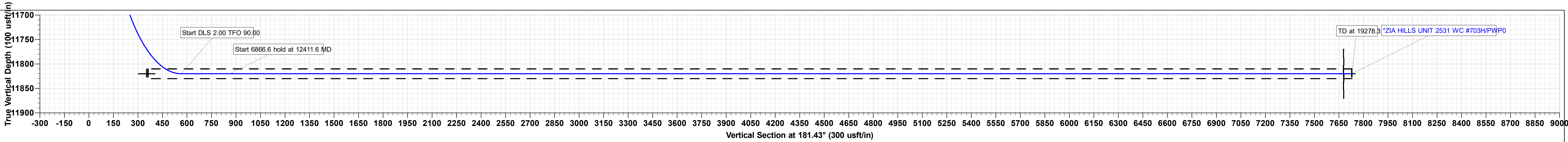
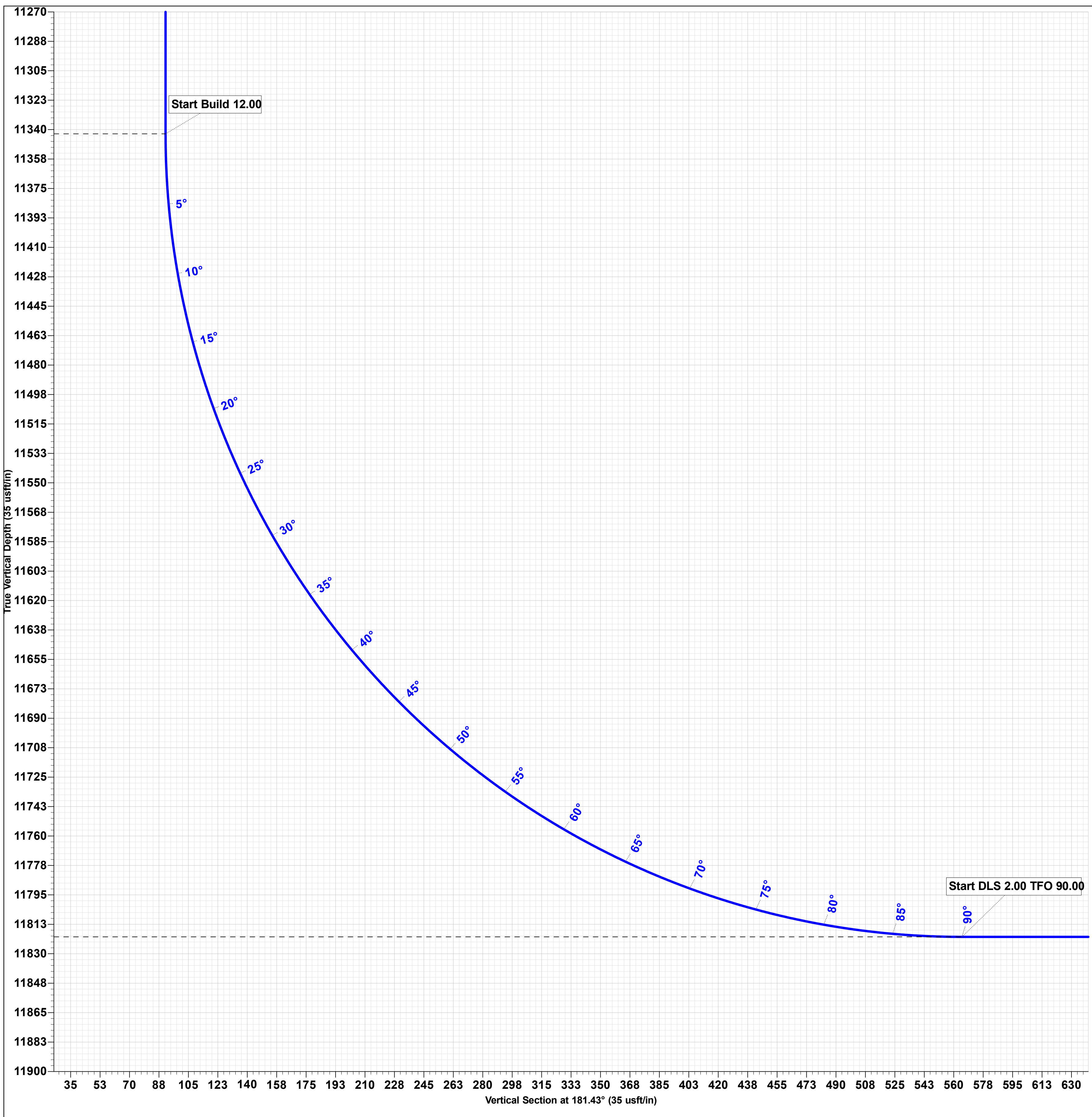
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,400.0	90.00	180.01	11,820.0	-6,848.1	-193.2	6,850.8	0.00	0.00	0.00	
18,500.0	90.00	180.01	11,820.0	-6,948.1	-193.3	6,950.7	0.00	0.00	0.00	
18,600.0	90.00	180.01	11,820.0	-7,048.1	-193.3	7,050.7	0.00	0.00	0.00	
18,700.0	90.00	180.01	11,820.0	-7,148.1	-193.3	7,150.7	0.00	0.00	0.00	
18,800.0	90.00	180.01	11,820.0	-7,248.1	-193.3	7,250.6	0.00	0.00	0.00	
18,900.0	90.00	180.01	11,820.0	-7,348.1	-193.3	7,350.6	0.00	0.00	0.00	
19,000.0	90.00	180.01	11,820.0	-7,448.1	-193.3	7,450.6	0.00	0.00	0.00	
19,100.0	90.00	180.01	11,820.0	-7,548.1	-193.3	7,550.5	0.00	0.00	0.00	
19,200.0	90.00	180.01	11,820.0	-7,648.1	-193.4	7,650.5	0.00	0.00	0.00	
19,278.3	90.00	180.01	11,820.0	-7,726.3	-193.4	7,728.7	0.00	0.00	0.00	

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
LTP (ZHU 2531 WC #70	90.00	180.00	11,820.0	-7,676.3	-193.7	364,367.45	685,190.31	32° 0' 1.271 N		103° 44' 9.375 W
- plan misses target center by 28.3usft at 19200.0usft MD (11820.0 TVD, -7648.1 N, -193.4 E)										
- Circle (radius 50.0)										
PBHL (ZHU 2531 WC #i	0.00	0.03	11,820.0	-7,726.3	-193.4	364,317.45	685,190.62	32° 0' 0.776 N		103° 44' 9.375 W
- plan hits target center										
- Rectangle (sides W100.0 H7,369.5 D20.0)										
FTP (ZHU 2531 WC #7C	0.00	0.00	11,820.0	-348.0	-189.3	371,695.75	685,194.68	32° 1' 13.793 N		103° 44' 8.854 W
- plan misses target center by 59.8usft at 11914.7usft MD (11780.1 TVD, -369.8 N, -228.1 E)										
- Circle (radius 50.0)										



Project: ZIA HILLS UNIT PROSPECT
Site: ZIA HILLS UNIT 2531 PROJECT
Well: *ZIA HILLS UNIT 2531 WC #703H
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	
1454.9	9.10	251.77	1453.0	-11.3	-34.2	2.00	251.77	12.1	
2468.9	9.10	251.77	2473.9	-62.4	-189.5	0.00	0.00	67.2	
3398.7	0.00	0.00	3398.0	-85.0	-258.0	1.00	180.00	91.4	
11361.2	0.00	0.00	11342.5	-85.0	-258.0	0.00	0.00	91.4	
12111.2	90.00	174.00	11820.0	-559.8	-208.1	12.00	174.00	564.9	
12411.6	90.00	180.01	11820.0	-859.7	-192.4	2.00	90.00	864.3	
19278.3	90.00	180.01	11820.0	-7726.3	-193.4	0.00	0.00	7728.7	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 703H
SURFACE HOLE FOOTAGE:	245'/S & 1400'/W
BOTTOM HOLE FOOTAGE:	50'/S & 1170'/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/oecd/contact-us>

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

CONDITIONS

Action 430632

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 430632
	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