

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: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-015-56230
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)

- | | |
|---|---|
| <ul style="list-style-type: none"> 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). | <ul style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM. |
|---|---|

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

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

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



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SESW / 245 FSL / 1340 FWL / TWSP: 26S / RANGE: 31E / SECTION: 24 / LAT: 32.0215754 / LONG: -103.735845 (TVD: 0 feet, MD: 0 feet)

PPP: NWNW / 100 FNL / 280 FWL / TWSP: 26S / RANGE: 31E / SECTION: 25 / LAT: 32.0206027 / LONG: -103.7392858 (TVD: 11806 feet, MD: 12081 feet)

BHL: LOT 4 / 50 FSL / 280 FWL / TWSP: 26S / RANGE: 31E / SECTION: 36 / LAT: 32.0003398 / LONG: -103.7392856 (TVD: 11820 feet, MD: 19448 feet)

BLM Point of Contact

Name: JANET D ESTES

Title: ADJUDICATOR

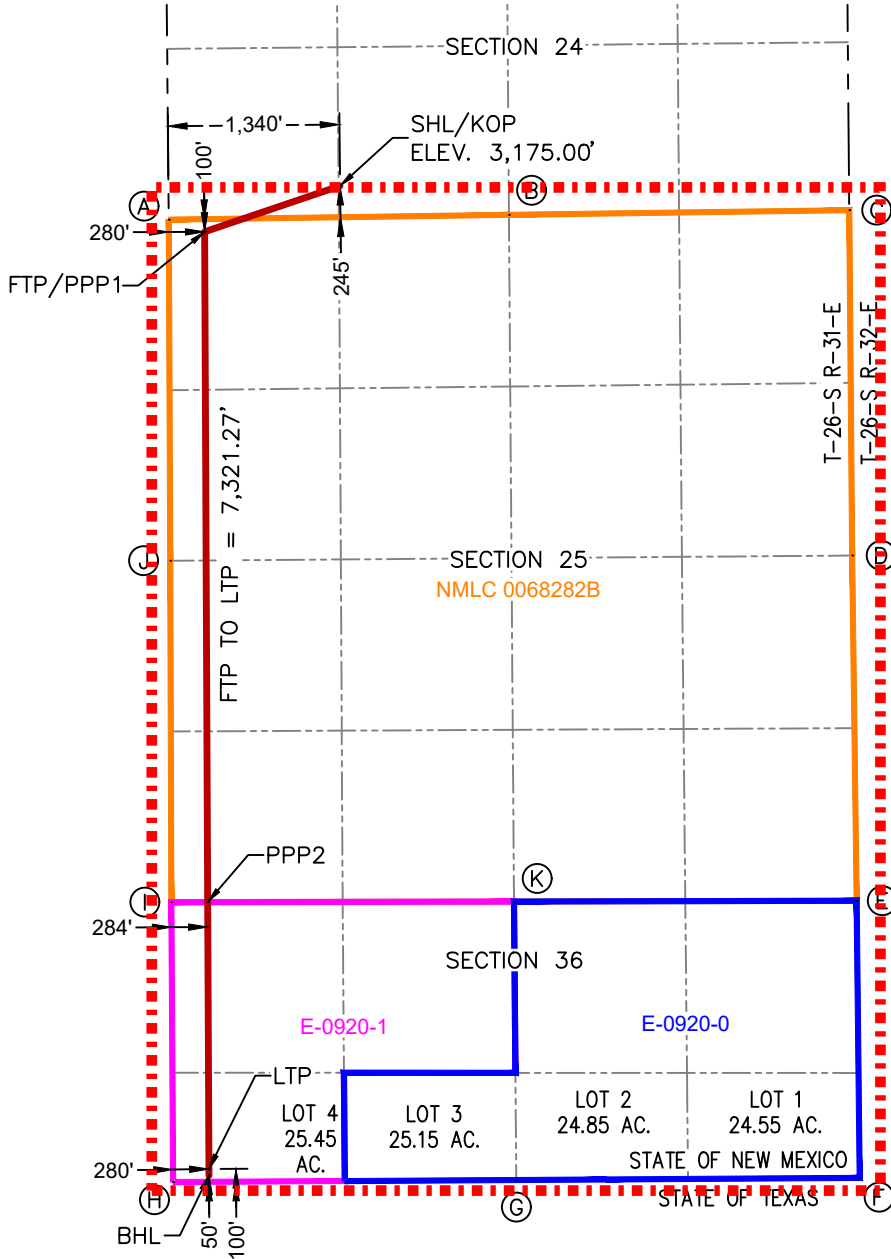
Phone: (575) 234-6233

Email: JESTES@BLM.GOV

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 & 1,340' FWL
 ELEV.=3,175.00'

NAD 83 X = 726,509.83'
 NAD 83 Y = 372,099.98'
 NAD 83 LAT = 32.021575°
 NAD 83 LONG = -103.735845°

FIRST TAKE POINT & PENETRATION POINT 1
 100' FNL & 280' FWL
 NAD 83 X = 725,452.50'
 NAD 83 Y = 371,740.26'
 NAD 83 LAT = 32.020603°
 NAD 83 LONG = -103.739263°

PENETRATION POINT 2
 0' FNL & 284' FWL
 NAD 83 X = 725,476.21'
 NAD 83 Y = 366,504.49'
 NAD 83 LAT = 32.006210°
 NAD 83 LONG = -103.739279°

LAST TAKE POINT
 100' FSL & 280' FWL
 NAD 83 X = 725,485.65'
 NAD 83 Y = 364,419.06'
 NAD 83 LAT = 32.000477°
 NAD 83 LONG = -103.739286°

BOTTOM HOLE LOCATION
 50' FSL & 280' FWL
 NAD 83 X = 725,485.98'
 NAD 83 Y = 364,369.07'
 NAD 83 LAT = 32.000340°
 NAD 83 LONG = -103.739286°

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: ConocoPhillips Company **OGRID:** 217817 **Date:** 03/12/2024

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Zia Hills Unit 2531 WC 701H	30-015-	N-24-26S-31E	245 FSL & 1340 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 702H	30-015-	N-24-26S-31E	245 FSL & 1370 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 703H	30-015-	N-24-26S-31E	245 FSL & 1400 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 704H	30-015-	N-24-26S-31E	245 FSL & 1430 FWL	± 818	± 3209	± 1907
Zia Hills Unit 2531 WC 705H	30-015-	N-24-26S-31E	245 FSL & 1460 FWL	± 818	± 3209	± 1907

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

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

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

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices


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

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 701H

1. Geologic Formations

TVD of target	11,518' EOL	Pilot hole depth	NA
MD at TD:	19,448'	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	11300	7.625"	29.7	P110-ICY	W513	1.25	1.60	3.18	1.91
6.75"	0	11100	5.5"	23	P110-CY	BTC	1.87	2.17	2.86	2.86
6.75"	11100	19,448	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	1.30	5.59	5.77
8.75"	3900	11300	7.625"	29.7	P110-ICY	W513	1.25	1.60	3.18	1.91
6.75"	0	11100	5.5"	23	P110-CY	BTC	1.87	2.17	2.86	2.86
6.75"	11100	19,448	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

ConocoPhillips Company - Zia Hills Unit 2531 WC 701H

	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? If yes, does production casing cement tie back a minimum of 50' above the Reef? Is well within the designated 4 string boundary?	N
Is well located in SOPA but not in R-111-P? If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA? If yes, are the first three strings cemented to surface? Is 2 nd string set 100' to 600' below the base of salt?	N
Is well located in high Cave/Karst? If yes, are there two strings cemented to surface? (For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N
Is well located in critical Cave/Karst? If yes, are there three strings cemented to surface?	N

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3. Cementing Program

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

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

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

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

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

3b. Contingency Cementing Program

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	3,900'	20%
Production	11,050'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 2531 WC 701H

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	5000psi
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	10000psi
			Blind Ram	x	
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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

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

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

ConocoPhillips Company - Zia Hills Unit 2531 WC 701H

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
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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 701H

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

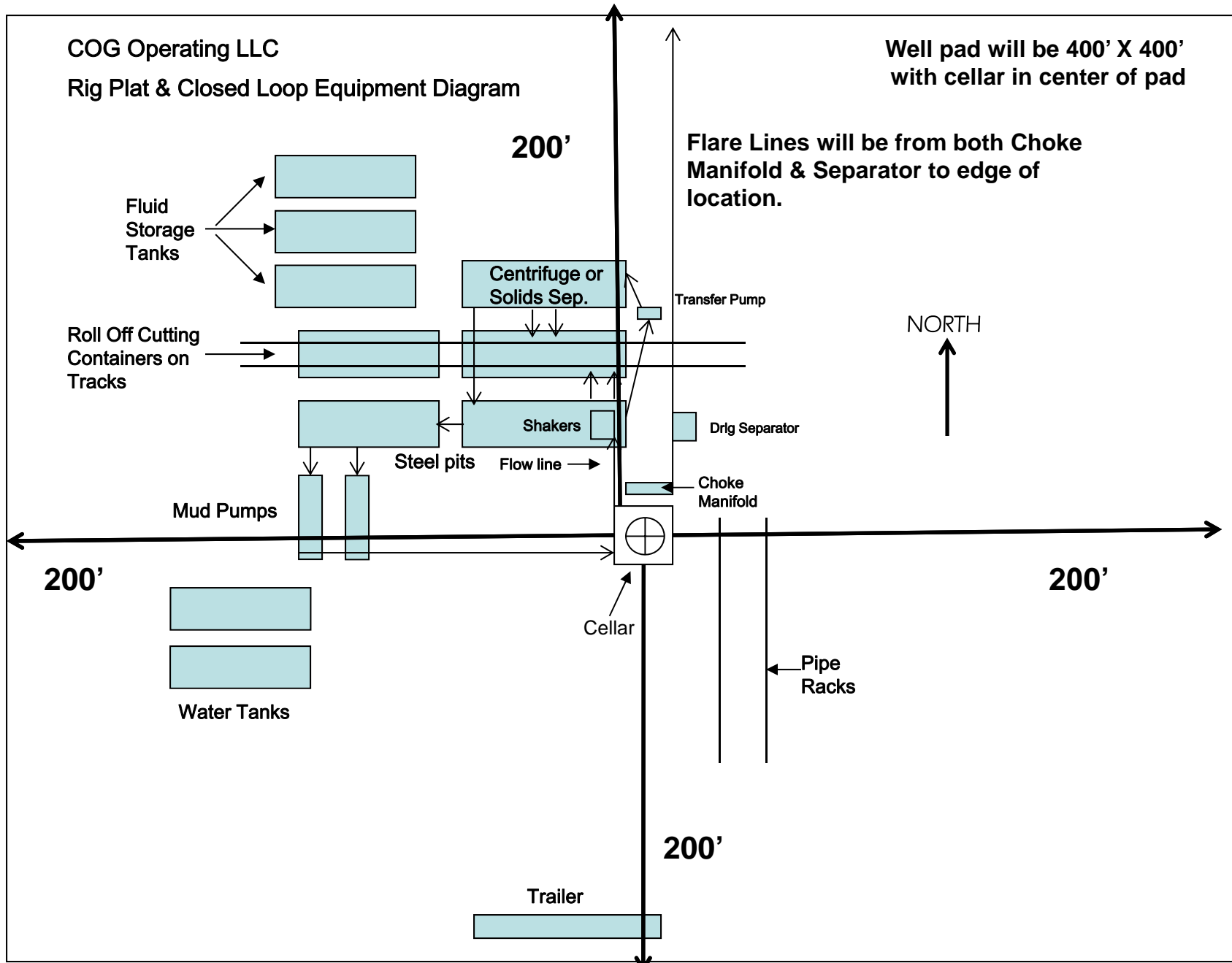


Exhibit 1

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

DELAWARE BASIN EAST

ZIA HILLS UNIT PROSPECT

ZIA HILLS UNIT 2531 PROJECT

***ZIA HILLS UNIT 2531 WC #701H**

OWB

PWP0

Anticollision Report

10 August, 2023

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,499.8usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	8/10/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,448.2	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Summary						
Offset Well - Wellbore - Design						
STATE LINE OFFSETS						
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,448.4	11,472.3	740.2	650.7	8.273	CC, ES, SF
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,448.4	11,535.0	990.4	884.3	9.331	CC, ES, SF
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	11,567.1	11,521.4	722.6	670.0	13.746	CC, ES, SF
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	11,468.6	11,508.8	311.4	254.1	5.441	CC, ES, SF
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	3,804.6	3,809.0	51.1	21.6	1.735	Advise and Monitor, CC
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	3,900.0	3,904.1	51.6	21.1	1.693	Advise and Monitor, ES
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	11,572.5	11,607.1	100.5	40.7	1.681	Advise and Monitor, SF
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	2,425.7	2,436.3	133.1	116.0	7.810	CC
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	2,500.0	2,510.0	133.4	115.6	7.526	ES
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	3,000.0	3,006.3	150.4	128.2	6.769	SF
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	1,822.4	1,842.2	155.7	142.3	11.644	CC, ES
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	2,100.0	2,114.4	164.9	149.9	10.974	SF
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,407.7	1,425.2	200.9	190.0	18.354	CC, ES
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	1,500.0	1,514.5	203.0	191.7	17.971	SF
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,004.4	1,008.0	218.9	209.4	23.042	CC, ES
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	1,400.0	1,401.4	231.4	220.5	21.399	SF
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	965.6	968.7	233.0	223.6	24.844	CC
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,000.0	1,003.1	233.0	223.5	24.590	ES
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	1,300.0	1,296.2	245.0	234.5	23.406	SF
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	913.0	923.0	249.7	240.5	27.069	CC
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,000.0	1,009.7	249.7	240.2	26.377	ES
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	1,300.0	1,297.9	265.9	255.3	25.261	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,114.9	1,116.2	30.0	19.2	2.780	CC
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	1,400.0	1,404.1	30.2	18.0	2.478	ES, SF
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,000.0	1,000.0	60.0	49.8	5.868	CC
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,300.0	1,306.0	60.6	49.0	5.196	ES
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	1,500.0	1,508.7	63.2	50.6	5.031	SF
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,000.0	1,000.0	90.0	79.8	8.802	CC, ES
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	1,100.0	1,097.1	93.3	82.6	8.724	SF
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	1,000.0	1,000.0	120.0	109.8	11.736	CC, ES
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	19,448.4	19,304.3	1,782.5	1,626.7	11.436	SF
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	1,000.0	1,000.0	1,436.2	1,426.0	140.466	CC
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	1,100.0	1,138.0	1,436.6	1,425.9	133.997	ES
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,448.4	19,188.8	2,235.0	2,083.9	14.793	SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	1,000.0	1,000.0	1,465.2	1,455.0	143.304	CC, ES
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	5,000.0	4,956.3	2,488.2	2,452.7	70.048	SF
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	1,000.0	1,000.0	1,494.3	1,484.1	146.146	CC, ES
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	4,200.0	3,795.9	2,482.2	2,452.0	82.163	SF
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	1,000.0	1,000.0	1,523.4	1,513.2	148.992	CC, ES
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	3,900.0	3,415.6	2,484.8	2,456.8	88.848	SF
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,605.1	14,160.0	612.0	564.2	12.814	CC, ES
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	9,900.0	14,160.0	679.3	620.8	11.611	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

TD Summary	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
STATE LINE OFFSETS						
LINDSAY 3-10K-55-1 #415H - OWB - AWP	19,448.4	11,472.3	740.2	650.7	8.273	CC, ES, SF
LINDSAY 3-10L-55-1 #426H - OWB - AWP	19,448.4	11,535.0	990.4	884.3	9.331	CC, ES, SF
ZIA HILLS UNIT 2331 PROJECT						
ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0	19,448.4	11,225.0				Out of Range @TD
ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0	19,448.4	11,100.0				Out of Range @TD
ZIA HILLS UNIT 2431 PROJECT						
ZIA HILLS UNIT 2431 WC #701H - OWB - PWP0	19,448.4	11,200.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #702H - OWB - PWP0	19,448.4	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0	19,448.4	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #704H - OWB - PWP0	19,448.4	11,000.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #705H - OWB - PWP0	19,448.4	11,150.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0	19,448.4	11,050.0				Out of Range @TD
ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1	19,448.4	11,525.0				Out of Range @TD
ZIA HILLS UNIT 2531 PROJECT						
*ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0	19,448.4	19,125.0	477.2	335.8	3.374	
*ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0	19,448.4	19,278.3	892.0	737.9	5.790	
*ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0	19,448.4	19,086.5	1,348.7	1,197.1	8.894	
*ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0	19,448.4	19,304.3	1,782.5	1,626.7	11.436	SF
*ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0	19,448.4	19,188.8	2,235.0	2,083.9	14.793	SF
*ZIA HILLS UNIT 2531 WC #707H - OWB - PWP0	19,448.4	19,363.6				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0	19,448.4	19,267.3				Out of Range @TD
*ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0	19,448.4	19,502.3				Out of Range @TD
GOLDEN SPUR 25 FBS #3H (P&A) - OWB - AWP	19,448.4	9,317.0				Out of Range @TD

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		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,300.0	11,820.0	11,063.0	11,072.8	61.5	21.6	-34.22	-7,867.6	-516.5	2,459.5	2,413.3	46.24	53.190		
17,400.0	11,820.0	11,104.2	11,112.5	62.4	21.7	-35.62	-7,878.8	-517.8	2,364.7	2,317.7	46.98	50.338		
17,500.0	11,820.0	11,109.7	11,117.7	63.2	21.7	-35.81	-7,880.6	-517.9	2,272.0	2,224.2	47.72	47.614		
17,600.0	11,820.0	11,115.6	11,123.3	64.1	21.7	-36.02	-7,882.5	-518.1	2,179.8	2,131.3	48.52	44.922		
17,700.0	11,820.0	11,157.0	11,161.6	64.9	21.8	-37.52	-7,898.0	-519.0	2,089.8	2,040.4	49.37	42.330		
17,800.0	11,820.0	11,157.0	11,161.6	65.8	21.8	-37.52	-7,898.0	-519.0	1,998.4	1,948.1	50.32	39.717		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,900.0	11,820.0	11,157.0	11,161.6	66.6	21.8	-37.52	-7,898.0	-519.0	1,907.9	1,856.5	51.38	37.137		
18,000.0	11,820.0	11,157.0	11,161.6	67.5	21.8	-37.52	-7,898.0	-519.0	1,818.4	1,765.8	52.56	34.596		
18,100.0	11,820.0	11,157.0	11,161.6	68.4	21.8	-37.52	-7,898.0	-519.0	1,730.0	1,676.1	53.89	32.101		
18,200.0	11,820.0	11,157.0	11,161.6	69.2	21.8	-37.52	-7,898.0	-519.0	1,643.0	1,587.6	55.39	29.660		
18,300.0	11,820.0	11,157.0	11,161.6	70.1	21.8	-37.52	-7,898.0	-519.0	1,557.5	1,500.4	57.08	27.284		
18,400.0	11,820.0	11,191.9	11,193.0	71.0	21.9	-38.86	-7,913.2	-519.3	1,472.6	1,414.1	58.50	25.175		
18,500.0	11,820.0	11,207.6	11,206.9	71.8	21.9	-39.49	-7,920.5	-519.4	1,389.7	1,329.4	60.35	23.029		
18,600.0	11,820.0	11,252.0	11,245.4	72.7	22.0	-41.34	-7,942.6	-518.9	1,309.4	1,247.4	61.96	21.133		
18,700.0	11,820.0	11,252.0	11,245.4	73.6	22.0	-41.34	-7,942.6	-518.9	1,229.6	1,165.1	64.52	19.058		
18,800.0	11,820.0	11,252.0	11,245.4	74.4	22.0	-41.34	-7,942.6	-518.9	1,153.1	1,085.6	67.41	17.104		
18,900.0	11,820.0	11,291.5	11,278.6	75.3	22.0	-43.08	-7,964.0	-518.1	1,078.8	1,009.0	69.83	15.448		
19,000.0	11,820.0	11,320.0	11,302.0	76.2	22.0	-44.37	-7,980.3	-517.4	1,007.7	934.9	72.79	13.845		
19,100.0	11,820.0	11,347.0	11,323.6	77.1	22.1	-45.63	-7,996.4	-516.7	940.0	863.9	76.10	12.352		
19,200.0	11,820.0	11,381.3	11,350.3	78.0	22.1	-47.26	-8,017.9	-515.8	876.4	796.8	79.62	11.007		
19,300.0	11,820.0	11,415.4	11,375.8	78.9	22.2	-48.89	-8,040.5	-515.0	817.5	734.0	83.45	9.796		
19,400.0	11,820.0	11,441.0	11,394.3	79.8	22.2	-50.12	-8,058.3	-514.3	764.1	676.4	87.69	8.714		
19,448.4	11,820.0	11,472.3	11,415.9	80.2	22.3	-51.63	-8,080.8	-513.4	740.2	650.7	89.47	8.273	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
17,400.0	11,820.0	11,252.0	11,225.6	62.4	29.0	-55.75	-7,870.7	-151.5	2,433.4	2,378.1	55.30	44.001		
17,500.0	11,820.0	11,252.0	11,225.6	63.2	29.0	-55.75	-7,870.7	-151.5	2,343.7	2,287.4	56.28	41.641		
17,600.0	11,820.0	11,252.0	11,225.6	64.1	29.0	-55.75	-7,870.7	-151.5	2,254.9	2,197.5	57.36	39.311		
17,700.0	11,820.0	11,252.0	11,225.6	64.9	29.0	-55.75	-7,870.7	-151.5	2,167.0	2,108.5	58.54	37.016		
17,800.0	11,820.0	11,252.0	11,225.6	65.8	29.0	-55.75	-7,870.7	-151.5	2,080.3	2,020.4	59.84	34.762		
17,900.0	11,820.0	11,252.0	11,225.6	66.6	29.0	-55.75	-7,870.7	-151.5	1,994.8	1,933.5	61.28	32.554		
18,000.0	11,820.0	11,292.4	11,264.5	67.5	29.0	-57.56	-7,881.4	-150.5	1,908.4	1,845.3	63.14	30.225		
18,100.0	11,820.0	11,298.6	11,270.3	68.4	29.0	-57.84	-7,883.4	-150.4	1,825.2	1,760.3	64.90	28.122		
18,200.0	11,820.0	11,305.3	11,276.6	69.2	29.0	-58.14	-7,885.7	-150.2	1,743.6	1,676.7	66.84	26.087		
18,300.0	11,820.0	11,346.0	11,314.1	70.1	29.1	-59.98	-7,901.6	-148.9	1,665.4	1,596.2	69.14	24.085		
18,400.0	11,820.0	11,346.0	11,314.1	71.0	29.1	-59.98	-7,901.6	-148.9	1,587.1	1,515.7	71.41	22.225		
18,500.0	11,820.0	11,346.0	11,314.1	71.8	29.1	-59.98	-7,901.6	-148.9	1,511.4	1,437.5	73.89	20.454		
18,600.0	11,820.0	11,346.0	11,314.1	72.7	29.1	-59.98	-7,901.6	-148.9	1,438.6	1,362.0	76.60	18.781		
18,700.0	11,820.0	11,346.0	11,314.1	73.6	29.1	-59.98	-7,901.6	-148.9	1,369.3	1,289.8	79.53	17.218		
18,800.0	11,820.0	11,373.3	11,338.3	74.4	29.1	-61.21	-7,914.0	-147.9	1,303.3	1,220.6	82.69	15.762		
18,900.0	11,820.0	11,394.3	11,356.7	75.3	29.1	-62.16	-7,924.2	-147.1	1,241.2	1,155.1	86.05	14.423		
19,000.0	11,820.0	11,440.0	11,395.6	76.2	29.1	-64.23	-7,948.0	-145.2	1,183.8	1,094.1	89.63	13.207		
19,100.0	11,820.0	11,440.0	11,395.6	77.1	29.1	-64.23	-7,948.0	-145.2	1,130.2	1,036.9	93.29	12.116		
19,200.0	11,820.0	11,470.5	11,420.8	78.0	29.1	-65.62	-7,965.1	-143.7	1,082.4	985.3	97.07	11.151		
19,300.0	11,820.0	11,499.6	11,444.4	78.9	29.2	-66.95	-7,982.1	-141.8	1,040.5	939.6	100.86	10.316		
19,400.0	11,820.0	11,535.0	11,472.4	79.8	29.2	-68.56	-8,003.5	-138.9	1,005.0	900.4	104.60	9.608		
19,448.4	11,820.0	11,535.0	11,472.4	80.2	29.2	-68.56	-8,003.5	-138.9	990.4	884.3	106.14	9.331	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor				
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
0.0	0.0	0.0	5.0	3.0	3.0	-94.92	-201.5	-2,339.5	2,348.2	2,341.8	6.43	365.259				
100.0	100.0	95.0	100.0	3.2	3.0	-94.92	-201.5	-2,339.5	2,348.2	2,341.5	6.68	351.546				
200.0	200.0	195.0	200.0	3.5	3.1	-94.92	-201.5	-2,339.5	2,348.2	2,341.2	6.98	336.628				
300.0	300.0	295.0	300.0	3.7	3.2	-94.92	-201.5	-2,339.5	2,348.2	2,340.9	7.28	322.710				
400.0	400.0	395.0	400.0	3.9	3.3	-94.92	-201.5	-2,339.5	2,348.2	2,340.6	7.58	309.872				
500.0	500.0	495.0	500.0	4.1	3.4	-94.92	-201.5	-2,339.5	2,348.2	2,340.3	7.88	297.979				
600.0	600.0	595.0	600.0	4.2	3.6	-94.92	-201.5	-2,339.5	2,348.2	2,340.0	8.18	286.935				
700.0	700.0	695.0	700.0	4.4	3.7	-94.92	-201.5	-2,339.5	2,348.2	2,339.7	8.49	276.653				
800.0	800.0	795.0	800.0	4.6	3.9	-94.92	-201.5	-2,339.5	2,348.2	2,339.4	8.79	267.062				
900.0	900.0	895.0	900.0	4.8	4.0	-94.92	-201.5	-2,339.5	2,348.2	2,339.1	9.10	258.094				
1,000.0	1,000.0	995.0	1,000.0	4.9	4.2	-94.92	-201.5	-2,339.5	2,348.2	2,338.8	9.40	249.695				
1,100.0	1,100.0	1,181.5	1,186.4	5.2	4.5	-4.90	-199.6	-2,335.5	2,343.8	2,333.8	10.01	234.123				
1,200.0	1,199.8	1,457.0	1,461.0	5.4	5.3	-4.75	-189.9	-2,314.8	2,330.3	2,319.4	10.91	213.580				
1,300.0	1,299.5	1,609.3	1,611.8	5.7	5.7	-4.66	-182.3	-2,296.0	2,308.8	2,297.3	11.57	199.620				
1,400.0	1,398.7	1,714.9	1,716.4	6.0	6.0	-4.71	-180.3	-2,281.5	2,283.1	2,270.9	12.16	187.789				
1,500.0	1,497.5	1,810.5	1,811.1	6.3	6.3	-4.79	-179.2	-2,268.3	2,253.9	2,241.1	12.78	176.374				
1,600.0	1,595.6	1,905.1	1,904.8	6.6	6.7	-4.88	-178.0	-2,255.2	2,221.4	2,208.1	13.37	166.135				
1,700.0	1,693.6	1,999.3	1,998.0	6.9	7.0	-4.93	-176.9	-2,242.1	2,187.8	2,173.8	14.01	156.150				
1,800.0	1,791.5	2,093.4	2,091.3	7.2	7.3	-4.97	-175.7	-2,229.1	2,154.2	2,139.7	14.50	148.580				
1,900.0	1,889.4	2,187.6	2,184.5	7.5	7.4	-5.02	-174.6	-2,216.0	2,120.5	2,105.6	14.91	142.190				
2,000.0	1,987.3	2,281.7	2,277.8	7.8	7.5	-5.06	-173.5	-2,203.0	2,086.9	2,071.5	15.36	135.886				
2,100.0	2,085.2	2,375.9	2,371.0	8.1	7.7	-5.11	-172.3	-2,189.9	2,053.3	2,037.4	15.84	129.651				
2,200.0	2,183.2	2,470.1	2,464.2	8.5	7.8	-5.16	-171.2	-2,176.8	2,019.6	2,003.3	16.35	123.545				
2,300.0	2,281.1	2,564.2	2,557.5	8.9	8.0	-5.22	-170.0	-2,163.8	1,986.0	1,969.1	16.89	117.609				
2,400.0	2,379.0	2,658.4	2,650.7	9.2	8.2	-5.27	-168.9	-2,150.7	1,952.4	1,934.9	17.45	111.874				
2,500.0	2,476.9	2,752.5	2,744.0	9.6	8.4	-5.33	-167.8	-2,137.7	1,918.7	1,900.7	18.04	106.361				
2,600.0	2,574.9	2,846.7	2,837.2	10.0	8.6	-5.38	-166.6	-2,124.6	1,885.1	1,866.5	18.65	101.082				
2,700.0	2,672.8	2,940.9	2,930.5	10.4	8.9	-5.45	-165.5	-2,111.6	1,851.5	1,832.2	19.28	96.043				
2,800.0	2,770.7	3,035.0	3,023.7	10.8	9.1	-5.51	-164.3	-2,098.5	1,817.9	1,797.9	19.92	91.242				
2,900.0	2,868.6	3,129.2	3,116.9	11.2	9.4	-5.57	-163.2	-2,085.5	1,784.2	1,763.7	20.58	86.678				
3,000.0	2,966.6	3,223.3	3,210.2	11.6	9.7	-5.64	-162.0	-2,072.4	1,750.6	1,729.4	21.26	82.344				
3,100.0	3,064.5	3,317.5	3,303.4	12.0	10.0	-5.71	-160.9	-2,059.4	1,717.0	1,695.1	21.95	78.231				
3,200.0	3,162.4	3,411.7	3,396.7	12.5	10.3	-5.78	-159.8	-2,046.3	1,683.4	1,660.7	22.65	74.331				
3,300.0	3,260.3	3,505.8	3,489.9	12.9	10.6	-5.86	-158.6	-2,033.2	1,649.8	1,626.4	23.36	70.633				
3,400.0	3,358.2	3,600.0	3,583.2	13.3	10.9	-5.94	-157.5	-2,020.2	1,616.2	1,592.1	24.08	67.127				
3,500.0	3,456.2	3,694.1	3,676.4	13.8	11.2	-6.02	-156.3	-2,007.1	1,582.6	1,557.8	24.80	63.801				
3,600.0	3,554.1	3,788.3	3,769.6	14.2	11.5	-6.11	-155.2	-1,994.1	1,549.0	1,523.4	25.54	60.647				
3,700.0	3,652.0	3,882.5	3,862.9	14.6	11.8	-6.20	-154.0	-1,981.0	1,515.4	1,489.1	26.28	57.654				
3,800.0	3,749.9	3,976.6	3,956.1	15.1	12.2	-6.29	-152.9	-1,968.0	1,481.8	1,454.7	27.03	54.813				
3,900.0	3,847.9	4,070.8	4,049.4	15.5	12.5	-6.39	-151.8	-1,954.9	1,448.2	1,420.4	27.79	52.114				
4,000.0	3,945.8	4,164.9	4,142.6	16.0	12.8	-6.49	-150.6	-1,941.9	1,414.6	1,386.0	28.55	49.549				
4,100.0	4,043.7	4,259.1	4,235.9	16.4	13.2	-6.60	-149.5	-1,928.8	1,381.0	1,351.7	29.32	47.109				
4,200.0	4,141.6	4,353.3	4,329.1	16.8	13.5	-6.71	-148.3	-1,915.8	1,347.4	1,317.3	30.09	44.786				
4,300.0	4,239.6	4,447.4	4,422.3	17.3	13.9	-6.83	-147.2	-1,902.7	1,313.8	1,283.0	30.86	42.575				
4,400.0	4,337.5	4,539.5	4,513.5	17.7	14.2	-6.95	-146.1	-1,889.9	1,280.3	1,248.7	31.63	40.477				
4,500.0	4,435.4	4,624.5	4,597.7	18.2	14.5	-7.07	-145.1	-1,878.6	1,247.2	1,214.8	32.41	38.478				
4,600.0	4,533.3	4,709.9	4,682.5	18.6	14.9	-7.19	-144.1	-1,867.9	1,214.9	1,181.7	33.20	36.588				
4,700.0	4,631.2	4,800.0	4,772.0	19.1	15.2	-7.33	-143.2	-1,857.2	1,183.3	1,149.3	33.99	34.811				
4,800.0	4,729.2	4,882.0	4,853.4	19.5	15.5	-7.46	-142.4	-1,848.1	1,152.3	1,117.5	34.79	33.126				
4,900.0	4,827.1	4,968.7	4,939.6	20.0	15.8	-7.60	-141.6	-1,839.1	1,122.1	1,086.6	35.58	31.541				
5,000.0	4,925.0	5,055.8	5,026.3	20.5	16.1	-7.75	-140.9	-1,830.7	1,092.7	1,056.3	36.37	30.046				

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
5,100.0	5,022.9	5,143.3	5,113.5	20.9	16.4	-7.90	-140.2	-1,822.9	1,063.9	1,026.8	37.15	28.636				
5,200.0	5,120.9	5,231.2	5,201.1	21.4	16.8	-8.06	-139.6	-1,815.8	1,036.0	998.0	37.94	27.305				
5,300.0	5,218.8	5,319.5	5,289.2	21.8	17.1	-8.23	-139.0	-1,809.3	1,008.7	970.0	38.72	26.051				
5,400.0	5,316.7	5,408.2	5,377.7	22.3	17.4	-8.40	-138.5	-1,803.5	982.2	942.7	39.50	24.867				
5,500.0	5,414.6	5,500.0	5,469.3	22.7	17.7	-8.59	-138.1	-1,798.2	956.5	916.2	40.27	23.755				
5,600.0	5,512.6	5,586.7	5,555.9	23.2	17.9	-8.77	-137.7	-1,793.8	931.5	890.5	41.04	22.701				
5,700.0	5,610.5	5,676.4	5,645.6	23.7	18.2	-8.97	-137.3	-1,790.0	907.3	865.5	41.79	21.710				
5,800.0	5,708.4	5,766.6	5,735.7	24.1	18.5	-9.17	-137.1	-1,786.9	883.9	841.4	42.54	20.778				
5,900.0	5,806.3	5,857.0	5,826.1	24.6	18.7	-9.38	-136.8	-1,784.5	861.3	818.0	43.27	19.902				
6,000.0	5,904.3	5,947.9	5,917.0	25.0	19.0	-9.57	-136.7	-1,782.7	839.8	795.8	43.98	19.096				
6,100.0	6,002.6	6,039.4	6,008.5	25.5	19.2	-9.74	-136.6	-1,781.7	820.7	776.0	44.66	18.375				
6,200.0	6,101.3	6,132.2	6,101.3	25.9	19.3	-9.90	-136.6	-1,781.4	804.0	758.8	45.28	17.759				
6,300.0	6,200.2	6,231.1	6,200.2	26.4	19.4	-10.06	-136.6	-1,781.4	789.4	743.7	45.77	17.249				
6,400.0	6,299.3	6,330.3	6,299.3	26.8	19.4	-10.21	-136.6	-1,781.4	776.5	730.3	46.25	16.789				
6,500.0	6,398.6	6,429.6	6,398.6	27.2	19.5	-10.34	-136.6	-1,781.4	765.4	718.6	46.73	16.380				
6,600.0	6,498.2	6,529.2	6,498.2	27.6	19.5	-10.45	-136.6	-1,781.4	755.9	708.7	47.19	16.019				
6,700.0	6,597.9	6,628.8	6,597.9	28.0	19.5	-10.54	-136.6	-1,781.4	748.1	700.5	47.63	15.707				
6,800.0	6,697.7	6,728.6	6,697.7	28.3	19.6	-10.62	-136.6	-1,781.4	742.1	694.0	48.05	15.443				
6,900.0	6,797.6	6,828.6	6,797.6	28.6	19.6	-10.68	-136.6	-1,781.4	737.8	689.3	48.45	15.228				
7,000.0	6,897.5	6,928.5	6,897.5	28.9	19.7	-10.71	-136.6	-1,781.4	735.1	686.3	48.81	15.062				
7,100.0	6,997.5	7,028.5	6,997.5	29.1	19.7	-10.72	-136.6	-1,781.4	734.2	685.2	49.01	14.982				
7,180.5	7,078.0	7,109.0	7,078.0	29.1	19.7	-100.72	-136.6	-1,781.4	734.2	685.2	49.06	14.965				
7,200.0	7,097.5	7,128.5	7,097.5	29.1	19.7	-100.72	-136.6	-1,781.4	734.2	685.2	49.08	14.961				
7,300.0	7,197.5	7,228.5	7,197.5	29.1	19.8	-100.72	-136.6	-1,781.4	734.2	685.1	49.14	14.941				
7,400.0	7,297.5	7,328.5	7,297.5	29.2	19.8	-100.72	-136.6	-1,781.4	734.2	685.0	49.21	14.921				
7,500.0	7,397.5	7,428.5	7,397.5	29.2	19.9	-100.72	-136.6	-1,781.4	734.2	685.0	49.28	14.901				
7,600.0	7,497.5	7,528.5	7,497.5	29.2	19.9	-100.72	-136.6	-1,781.4	734.2	684.9	49.34	14.881				
7,700.0	7,597.5	7,628.5	7,597.5	29.2	19.9	-100.72	-136.6	-1,781.4	734.2	684.8	49.41	14.860				
7,800.0	7,697.5	7,728.5	7,697.5	29.3	20.0	-100.72	-136.6	-1,781.4	734.2	684.8	49.48	14.840				
7,900.0	7,797.5	7,828.5	7,797.5	29.3	20.0	-100.72	-136.6	-1,781.4	734.2	684.7	49.55	14.819				
8,000.0	7,897.5	7,928.5	7,897.5	29.3	20.1	-100.72	-136.6	-1,781.4	734.2	684.6	49.62	14.799				
8,100.0	7,997.5	8,028.5	7,997.5	29.4	20.1	-100.72	-136.6	-1,781.4	734.2	684.6	49.68	14.778				
8,200.0	8,097.5	8,128.5	8,097.5	29.4	20.2	-100.72	-136.6	-1,781.4	734.2	684.5	49.75	14.757				
8,300.0	8,197.5	8,228.5	8,197.5	29.4	20.2	-100.72	-136.6	-1,781.4	734.2	684.4	49.82	14.737				
8,400.0	8,297.5	8,328.5	8,297.5	29.5	20.3	-100.72	-136.6	-1,781.4	734.2	684.4	49.90	14.716				
8,500.0	8,397.5	8,428.5	8,397.5	29.5	20.3	-100.72	-136.6	-1,781.4	734.2	684.3	49.97	14.695				
8,600.0	8,497.5	8,528.5	8,497.5	29.5	20.3	-100.72	-136.6	-1,781.4	734.2	684.2	50.04	14.674				
8,700.0	8,597.5	8,628.5	8,597.5	29.5	20.4	-100.72	-136.6	-1,781.4	734.2	684.1	50.11	14.653				
8,800.0	8,697.5	8,728.5	8,697.5	29.6	20.4	-100.72	-136.6	-1,781.4	734.2	684.1	50.18	14.632				
8,900.0	8,797.5	8,828.5	8,797.5	29.6	20.5	-100.72	-136.6	-1,781.4	734.2	684.0	50.25	14.610				
9,000.0	8,897.5	8,928.5	8,897.5	29.6	20.5	-100.72	-136.6	-1,781.4	734.2	683.9	50.33	14.589				
9,100.0	8,997.5	9,028.5	8,997.5	29.7	20.6	-100.72	-136.6	-1,781.4	734.2	683.8	50.40	14.568				
9,200.0	9,097.5	9,128.5	9,097.5	29.7	20.6	-100.72	-136.6	-1,781.4	734.2	683.8	50.48	14.547				
9,300.0	9,197.5	9,228.5	9,197.5	29.7	20.7	-100.72	-136.6	-1,781.4	734.2	683.7	50.55	14.525				
9,400.0	9,297.5	9,328.5	9,297.5	29.8	20.7	-100.72	-136.6	-1,781.4	734.2	683.6	50.62	14.504				
9,500.0	9,397.5	9,428.5	9,397.5	29.8	20.8	-100.72	-136.6	-1,781.4	734.2	683.5	50.70	14.482				
9,600.0	9,497.5	9,528.5	9,497.5	29.8	20.8	-100.72	-136.6	-1,781.4	734.2	683.5	50.78	14.461				
9,700.0	9,597.5	9,628.5	9,597.5	29.9	20.8	-100.72	-136.6	-1,781.4	734.2	683.4	50.85	14.439				
9,800.0	9,697.5	9,728.5	9,697.5	29.9	20.9	-100.72	-136.6	-1,781.4	734.2	683.3	50.93	14.417				
9,900.0	9,797.5	9,828.5	9,797.5	29.9	20.9	-100.72	-136.6	-1,781.4	734.2	683.2	51.00	14.396				
10,000.0	9,897.5	9,928.5	9,897.5	30.0	21.0	-100.72	-136.6	-1,781.4	734.2	683.2	51.08	14.374				

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #712H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 2000-r.5 MWD+IFR1, 11182-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation			
Depth	Depth	Depth	Depth	(usft)	(usft)	(usft)	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor			
(usft)	(usft)	(usft)	(usft)				(°)	(usft)	(usft)	Centres	Ellipses	(usft)				
10,100.0	9,997.5	10,028.5	9,997.5	30.0	21.0	-100.72	-100.72	-136.6	-1,781.4	734.2	683.1	51.16	14.352			
10,200.0	10,097.5	10,128.5	10,097.5	30.0	21.1	-100.72	-100.72	-136.6	-1,781.4	734.2	683.0	51.24	14.330			
10,300.0	10,197.5	10,228.5	10,197.5	30.1	21.1	-100.72	-100.72	-136.6	-1,781.4	734.2	682.9	51.32	14.308			
10,400.0	10,297.5	10,328.5	10,297.5	30.1	21.2	-100.72	-100.72	-136.6	-1,781.4	734.2	682.9	51.39	14.286			
10,500.0	10,397.5	10,428.5	10,397.5	30.1	21.2	-100.72	-100.72	-136.6	-1,781.4	734.2	682.8	51.47	14.265			
10,600.0	10,497.5	10,528.5	10,497.5	30.2	21.3	-100.72	-100.72	-136.6	-1,781.4	734.2	682.7	51.55	14.243			
10,700.0	10,597.5	10,628.5	10,597.5	30.2	21.3	-100.72	-100.72	-136.6	-1,781.4	734.2	682.6	51.63	14.220			
10,800.0	10,697.5	10,728.5	10,697.5	30.2	21.4	-100.72	-100.72	-136.6	-1,781.4	734.2	682.5	51.71	14.198			
10,900.0	10,797.5	10,828.5	10,797.5	30.3	21.4	-100.72	-100.72	-136.6	-1,781.4	734.2	682.5	51.79	14.176			
11,000.0	10,897.5	10,928.5	10,897.5	30.3	21.5	-100.72	-100.72	-136.6	-1,781.4	734.2	682.4	51.88	14.154			
11,100.0	10,997.5	11,028.5	10,997.5	30.3	21.5	-100.72	-100.72	-136.6	-1,781.4	734.2	682.3	51.96	14.132			
11,200.0	11,097.5	11,128.5	11,097.5	30.4	21.6	-100.72	-100.72	-136.6	-1,781.4	734.2	682.2	52.03	14.111			
11,300.0	11,197.5	11,245.4	11,214.2	30.4	21.6	-100.40	-97.83	-132.5	-1,781.5	733.7	681.7	52.05	14.096			
11,400.0	11,297.5	11,372.5	11,336.5	30.4	21.6	-97.83	-97.83	-99.3	-1,781.8	729.6	677.4	52.18	13.982			
11,500.0	11,397.4	11,474.6	11,425.7	30.5	21.6	86.83	86.83	-50.0	-1,782.2	724.3	671.9	52.43	13.815			
11,567.1	11,463.3	11,521.4	11,462.7	30.4	21.6	89.80	89.80	-21.3	-1,782.5	722.6	670.0	52.57	13.746	CC, ES, SF		
11,600.0	11,494.8	11,538.1	11,475.2	30.4	21.6	90.86	90.86	-10.2	-1,782.6	723.1	670.5	52.60	13.747			
11,700.0	11,585.6	11,568.9	11,497.1	30.4	21.6	91.96	91.96	11.4	-1,782.8	732.6	680.1	52.54	13.945			
11,800.0	11,665.7	11,575.0	11,501.3	30.5	21.7	89.64	89.64	15.8	-1,782.8	755.3	703.0	52.24	14.458			
11,900.0	11,731.7	11,575.0	11,501.3	30.5	21.7	85.22	85.22	15.8	-1,782.8	789.8	738.2	51.67	15.287			
12,000.0	11,780.7	11,550.0	11,483.8	30.5	21.6	77.69	77.69	-2.0	-1,782.6	833.0	781.9	51.16	16.284			
12,100.0	11,810.6	11,533.0	11,471.4	30.6	21.6	70.29	70.29	-13.6	-1,782.5	881.0	830.6	50.41	17.477			
12,200.0	11,820.0	11,500.0	11,446.1	30.7	21.6	62.64	62.64	-34.9	-1,782.3	930.1	880.3	49.78	18.683			
12,300.0	11,820.0	11,475.0	11,426.1	30.9	21.6	61.40	61.40	-49.8	-1,782.2	982.0	933.0	49.05	20.022			
12,400.0	11,820.0	11,450.0	11,405.3	31.0	21.6	60.14	60.14	-63.6	-1,782.1	1,039.6	991.3	48.35	21.501			
12,500.0	11,820.0	11,437.6	11,394.6	31.2	21.6	59.51	59.51	-70.1	-1,782.0	1,102.2	1,054.7	47.54	23.184			
12,600.0	11,820.0	11,425.0	11,383.7	31.5	21.6	58.87	58.87	-76.3	-1,782.0	1,169.3	1,122.5	46.81	24.982			
12,700.0	11,820.0	11,400.0	11,361.6	31.7	21.6	57.60	57.60	-87.9	-1,781.9	1,240.1	1,193.8	46.32	26.774			
12,800.0	11,820.0	11,400.0	11,361.6	32.0	21.6	57.60	57.60	-87.9	-1,781.9	1,314.3	1,268.8	45.57	28.844			
12,900.0	11,820.0	11,375.0	11,338.9	32.3	21.6	56.33	56.33	-98.3	-1,781.8	1,391.2	1,346.0	45.22	30.765			
13,000.0	11,820.0	11,375.0	11,338.9	32.7	21.6	56.33	56.33	-98.3	-1,781.8	1,470.7	1,426.1	44.62	32.958			
13,100.0	11,820.0	11,350.0	11,315.6	33.0	21.6	55.07	55.07	-107.5	-1,781.7	1,552.3	1,507.9	44.40	34.965			
13,200.0	11,820.0	11,350.0	11,315.6	33.4	21.6	55.07	55.07	-107.5	-1,781.7	1,635.7	1,591.7	43.93	37.237			
13,300.0	11,820.0	11,350.0	11,315.6	33.8	21.6	55.07	55.07	-107.5	-1,781.7	1,720.8	1,677.3	43.51	39.546			
13,400.0	11,820.0	11,325.0	11,291.9	34.3	21.6	53.82	53.82	-115.5	-1,781.6	1,807.2	1,763.8	43.42	41.622			
13,500.0	11,820.0	11,325.0	11,291.9	34.7	21.6	53.82	53.82	-115.5	-1,781.6	1,894.7	1,851.7	43.10	43.966			
13,600.0	11,820.0	11,325.0	11,291.9	35.2	21.6	53.82	53.82	-115.5	-1,781.6	1,983.5	1,940.6	42.81	46.329			
13,700.0	11,820.0	11,325.0	11,291.9	35.7	21.6	53.82	53.82	-115.5	-1,781.6	2,073.2	2,030.6	42.57	48.705			
13,800.0	11,820.0	11,310.7	11,278.2	36.2	21.6	53.12	53.12	-119.5	-1,781.6	2,163.6	2,121.1	42.49	50.924			
13,900.0	11,820.0	11,300.0	11,267.8	36.8	21.6	52.60	52.60	-122.2	-1,781.6	2,254.9	2,212.5	42.39	53.189			
14,000.0	11,820.0	11,300.0	11,267.8	37.3	21.6	52.60	52.60	-122.2	-1,781.6	2,346.7	2,304.5	42.23	55.574			
14,100.0	11,820.0	11,300.0	11,267.8	37.9	21.6	52.60	52.60	-122.2	-1,781.6	2,439.2	2,397.2	42.08	57.962			

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0												Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11062-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft		
Reference												Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	5.0	3.0	3.0	-94.98	-201.4	-2,309.5	2,318.3	2,311.9	6.43	360.608			
100.0	100.0	95.0	100.0	3.2	3.0	-94.98	-201.4	-2,309.5	2,318.3	2,311.6	6.68	347.070			
200.0	200.0	195.0	200.0	3.5	3.1	-94.98	-201.4	-2,309.5	2,318.3	2,311.3	6.98	332.341			
300.0	300.0	295.0	300.0	3.7	3.2	-94.98	-201.4	-2,309.5	2,318.3	2,311.0	7.28	318.601			
400.0	400.0	395.0	400.0	3.9	3.3	-94.98	-201.4	-2,309.5	2,318.3	2,310.7	7.58	305.926			
500.0	500.0	495.0	500.0	4.1	3.4	-94.98	-201.4	-2,309.5	2,318.3	2,310.4	7.88	294.185			
600.0	600.0	595.0	600.0	4.2	3.6	-94.98	-201.4	-2,309.5	2,318.3	2,310.1	8.18	283.281			
700.0	700.0	695.0	700.0	4.4	3.7	-94.98	-201.4	-2,309.5	2,318.3	2,309.8	8.49	273.130			
800.0	800.0	795.0	800.0	4.6	3.9	-94.98	-201.4	-2,309.5	2,318.3	2,309.5	8.79	263.661			
900.0	900.0	895.0	900.0	4.8	4.0	-94.98	-201.4	-2,309.5	2,318.3	2,309.2	9.10	254.808			
1,000.0	1,000.0	995.0	1,000.0	4.9	4.2	-94.98	-201.4	-2,309.5	2,318.3	2,308.9	9.40	246.515			
1,100.0	1,100.0	1,484.2	1,486.9	5.2	5.6	-5.11	-201.3	-2,268.7	2,308.6	2,297.5	11.04	209.184			
1,200.0	1,199.8	1,634.0	1,634.1	5.4	5.8	-5.23	-201.2	-2,240.9	2,284.6	2,273.1	11.48	199.036			
1,300.0	1,299.5	1,730.2	1,728.5	5.7	6.0	-5.35	-201.2	-2,222.5	2,257.1	2,245.2	11.90	189.607			
1,400.0	1,398.7	1,825.3	1,821.8	6.0	6.2	-5.48	-201.2	-2,204.4	2,226.4	2,214.0	12.37	179.969			
1,500.0	1,497.5	1,919.2	1,914.1	6.3	6.4	-5.64	-201.1	-2,186.5	2,192.3	2,179.4	12.88	170.270			
1,600.0	1,595.6	2,012.0	2,005.1	6.6	6.6	-5.80	-201.1	-2,168.8	2,155.0	2,141.7	13.36	161.312			
1,700.0	1,693.6	2,104.2	2,095.7	6.9	6.9	-5.91	-201.1	-2,151.2	2,116.6	2,102.7	13.89	152.346			
1,800.0	1,791.5	2,196.5	2,186.2	7.2	7.2	-6.01	-201.0	-2,133.6	2,078.2	2,063.8	14.43	143.985			
1,900.0	1,889.4	2,288.7	2,276.8	7.5	7.4	-6.13	-201.0	-2,116.0	2,039.8	2,024.8	15.01	135.936			
2,000.0	1,987.3	2,381.0	2,367.3	7.8	7.7	-6.24	-201.0	-2,098.4	2,001.4	1,985.8	15.61	128.247			
2,100.0	2,085.2	2,473.2	2,457.9	8.1	8.1	-6.37	-201.0	-2,080.7	1,963.0	1,946.8	16.23	120.945			
2,200.0	2,183.2	2,565.5	2,548.5	8.5	8.4	-6.49	-200.9	-2,063.1	1,924.6	1,907.8	16.88	114.036			
2,300.0	2,281.1	2,657.8	2,639.0	8.9	8.7	-6.62	-200.9	-2,045.5	1,886.3	1,868.7	17.54	107.519			
2,400.0	2,379.0	2,750.0	2,729.6	9.2	9.0	-6.76	-200.9	-2,027.9	1,847.9	1,829.7	18.23	101.384			
2,500.0	2,476.9	2,842.3	2,820.1	9.6	9.4	-6.90	-200.8	-2,010.3	1,809.5	1,790.6	18.92	95.617			
2,600.0	2,574.9	2,934.5	2,910.7	10.0	9.7	-7.05	-200.8	-1,992.7	1,771.2	1,751.5	19.64	90.199			
2,700.0	2,672.8	3,026.8	3,001.3	10.4	10.1	-7.21	-200.8	-1,975.1	1,732.8	1,712.5	20.36	85.111			
2,800.0	2,770.7	3,119.0	3,091.8	10.8	10.5	-7.37	-200.7	-1,957.5	1,694.5	1,673.4	21.09	80.332			
2,900.0	2,868.6	3,211.3	3,182.4	11.2	10.8	-7.54	-200.7	-1,939.9	1,656.2	1,634.4	21.84	75.844			
3,000.0	2,966.6	3,303.5	3,272.9	11.6	11.2	-7.72	-200.7	-1,922.3	1,617.9	1,595.3	22.59	71.625			
3,100.0	3,064.5	3,395.8	3,363.5	12.0	11.6	-7.90	-200.6	-1,904.7	1,579.6	1,556.3	23.35	67.656			
3,200.0	3,162.4	3,488.0	3,454.1	12.5	12.0	-8.10	-200.6	-1,887.1	1,541.4	1,517.2	24.11	63.922			
3,300.0	3,260.3	3,580.3	3,544.6	12.9	12.3	-8.30	-200.6	-1,869.5	1,503.1	1,478.2	24.88	60.403			
3,400.0	3,358.2	3,672.6	3,635.2	13.3	12.7	-8.52	-200.6	-1,851.9	1,464.9	1,439.2	25.66	57.087			
3,500.0	3,456.2	3,764.8	3,725.8	13.8	13.1	-8.75	-200.5	-1,834.3	1,426.6	1,400.2	26.44	53.956			
3,600.0	3,554.1	3,857.1	3,816.3	14.2	13.5	-8.99	-200.5	-1,816.7	1,388.5	1,361.2	27.22	51.000			
3,700.0	3,652.0	3,949.3	3,906.9	14.6	13.9	-9.24	-200.5	-1,799.1	1,350.3	1,322.3	28.01	48.204			
3,800.0	3,749.9	4,041.6	3,997.4	15.1	14.3	-9.51	-200.4	-1,781.5	1,312.1	1,283.3	28.80	45.558			
3,900.0	3,847.9	4,133.8	4,088.0	15.5	14.7	-9.80	-200.4	-1,763.9	1,274.0	1,244.4	29.59	43.051			
4,000.0	3,945.8	4,226.1	4,178.6	16.0	15.1	-10.10	-200.4	-1,746.3	1,235.9	1,205.5	30.39	40.673			
4,100.0	4,043.7	4,318.3	4,269.1	16.4	15.5	-10.42	-200.3	-1,728.7	1,197.8	1,166.7	31.18	38.417			
4,200.0	4,141.6	4,410.6	4,359.7	16.8	15.9	-10.76	-200.3	-1,711.1	1,159.8	1,127.8	31.97	36.273			
4,300.0	4,239.6	4,502.9	4,450.2	17.3	16.3	-11.13	-200.3	-1,693.5	1,121.8	1,089.0	32.77	34.235			
4,400.0	4,337.5	4,595.1	4,540.8	17.7	16.7	-11.52	-200.2	-1,675.9	1,083.9	1,050.3	33.56	32.295			
4,500.0	4,435.4	4,687.4	4,631.4	18.2	17.1	-11.94	-200.2	-1,658.3	1,046.0	1,011.6	34.35	30.448			
4,600.0	4,533.3	4,779.6	4,721.9	18.6	17.5	-12.39	-200.2	-1,640.7	1,008.1	973.0	35.14	28.688			
4,700.0	4,631.2	4,871.9	4,812.5	19.1	17.9	-12.87	-200.2	-1,623.1	970.3	934.4	35.93	27.009			
4,800.0	4,729.2	4,964.1	4,903.0	19.5	18.3	-13.40	-200.1	-1,605.5	932.6	895.9	36.71	25.406			
4,900.0	4,827.1	5,056.4	4,993.6	20.0	18.8	-13.96	-200.1	-1,587.9	894.9	857.4	37.48	23.877			
5,000.0	4,925.0	5,148.6	5,084.2	20.5	19.2	-14.58	-200.1	-1,570.3	857.4	819.1	38.25	22.415			

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11062-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
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		Minimum Separation (usft)	Separation Factor			
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,100.0	5,022.9	5,240.9	5,174.7	20.9	19.6	-15.25	-200.0	-1,552.7	819.9	780.9	39.01	21.019				
5,200.0	5,120.9	5,333.2	5,265.3	21.4	20.0	-15.99	-200.0	-1,535.1	782.5	742.8	39.75	19.684				
5,300.0	5,218.8	5,425.4	5,355.8	21.8	20.4	-16.80	-200.0	-1,517.4	745.3	704.8	40.48	18.409				
5,400.0	5,316.7	5,517.7	5,446.4	22.3	20.8	-17.69	-199.9	-1,499.8	708.1	667.0	41.20	17.189				
5,500.0	5,414.6	5,609.9	5,537.0	22.7	21.2	-18.69	-199.9	-1,482.2	671.2	629.3	41.89	16.024				
5,600.0	5,512.6	5,697.1	5,622.6	23.2	21.6	-19.72	-199.9	-1,465.8	634.7	592.1	42.57	14.909				
5,700.0	5,610.5	5,781.4	5,705.5	23.7	22.0	-20.79	-199.9	-1,451.0	599.6	556.3	43.26	13.859				
5,800.0	5,708.4	5,866.6	5,789.7	24.1	22.4	-21.95	-199.8	-1,437.3	566.0	522.1	43.91	12.889				
5,900.0	5,806.3	5,952.8	5,874.9	24.6	22.7	-23.20	-199.8	-1,424.8	534.0	489.4	44.52	11.995				
6,000.0	5,904.3	6,040.1	5,961.4	25.0	23.1	-24.44	-199.8	-1,413.3	503.9	458.9	45.05	11.186				
6,100.0	6,002.6	6,128.7	6,049.5	25.5	23.5	-25.66	-199.8	-1,403.1	477.0	431.4	45.55	10.471				
6,200.0	6,101.3	6,218.5	6,138.9	25.9	23.8	-26.88	-199.8	-1,394.1	453.2	407.2	46.00	9.851				
6,300.0	6,200.2	6,309.5	6,229.6	26.4	24.2	-28.06	-199.7	-1,386.4	432.5	386.1	46.41	9.320				
6,400.0	6,299.3	6,400.0	6,319.8	26.8	24.5	-29.16	-199.7	-1,380.2	415.0	368.2	46.79	8.869				
6,500.0	6,398.6	6,494.4	6,414.1	27.2	24.8	-30.19	-199.7	-1,375.2	400.6	353.4	47.13	8.499				
6,600.0	6,498.2	6,588.0	6,507.6	27.6	25.1	-31.05	-199.7	-1,371.8	389.1	341.7	47.46	8.199				
6,700.0	6,597.9	6,682.1	6,601.6	28.0	25.4	-31.73	-199.7	-1,370.0	380.7	332.9	47.79	7.967				
6,800.0	6,697.7	6,778.1	6,697.7	28.3	25.5	-32.20	-199.7	-1,369.6	375.1	327.1	48.03	7.810				
6,900.0	6,797.6	6,878.0	6,797.6	28.6	25.5	-32.54	-199.7	-1,369.6	371.4	323.2	48.23	7.702				
7,000.0	6,897.5	6,978.0	6,897.5	28.9	25.5	-32.75	-199.7	-1,369.6	369.2	320.7	48.44	7.621				
7,100.0	6,997.5	7,078.0	6,997.5	29.1	25.5	-32.83	-199.7	-1,369.6	368.4	319.8	48.58	7.583				
7,180.5	7,078.0	7,158.5	7,078.0	29.1	25.6	-122.83	-199.7	-1,369.6	368.4	319.8	48.64	7.574				
7,200.0	7,097.5	7,178.0	7,097.5	29.1	25.6	-122.83	-199.7	-1,369.6	368.4	319.8	48.65	7.573				
7,300.0	7,197.5	7,278.0	7,197.5	29.1	25.6	-122.83	-199.7	-1,369.6	368.4	319.7	48.72	7.562				
7,400.0	7,297.5	7,378.0	7,297.5	29.2	25.6	-122.83	-199.7	-1,369.6	368.4	319.6	48.78	7.552				
7,500.0	7,397.5	7,478.0	7,397.5	29.2	25.7	-122.83	-199.7	-1,369.6	368.4	319.6	48.85	7.541				
7,600.0	7,497.5	7,578.0	7,497.5	29.2	25.7	-122.83	-199.7	-1,369.6	368.4	319.5	48.92	7.531				
7,700.0	7,597.5	7,678.0	7,597.5	29.2	25.7	-122.83	-199.7	-1,369.6	368.4	319.4	48.99	7.520				
7,800.0	7,697.5	7,778.0	7,697.5	29.3	25.8	-122.83	-199.7	-1,369.6	368.4	319.4	49.06	7.510				
7,900.0	7,797.5	7,878.0	7,797.5	29.3	25.8	-122.83	-199.7	-1,369.6	368.4	319.3	49.13	7.499				
8,000.0	7,897.5	7,978.0	7,897.5	29.3	25.8	-122.83	-199.7	-1,369.6	368.4	319.2	49.20	7.489				
8,100.0	7,997.5	8,078.0	7,997.5	29.4	25.8	-122.83	-199.7	-1,369.6	368.4	319.1	49.27	7.478				
8,200.0	8,097.5	8,178.0	8,097.5	29.4	25.9	-122.83	-199.7	-1,369.6	368.4	319.1	49.34	7.467				
8,300.0	8,197.5	8,278.0	8,197.5	29.4	25.9	-122.83	-199.7	-1,369.6	368.4	319.0	49.41	7.457				
8,400.0	8,297.5	8,378.0	8,297.5	29.5	25.9	-122.83	-199.7	-1,369.6	368.4	318.9	49.48	7.446				
8,500.0	8,397.5	8,478.0	8,397.5	29.5	26.0	-122.83	-199.7	-1,369.6	368.4	318.9	49.55	7.435				
8,600.0	8,497.5	8,578.0	8,497.5	29.5	26.0	-122.83	-199.7	-1,369.6	368.4	318.8	49.62	7.424				
8,700.0	8,597.5	8,678.0	8,597.5	29.5	26.0	-122.83	-199.7	-1,369.6	368.4	318.7	49.70	7.413				
8,800.0	8,697.5	8,778.0	8,697.5	29.6	26.1	-122.83	-199.7	-1,369.6	368.4	318.6	49.77	7.402				
8,900.0	8,797.5	8,878.0	8,797.5	29.6	26.1	-122.83	-199.7	-1,369.6	368.4	318.6	49.84	7.391				
9,000.0	8,897.5	8,978.0	8,897.5	29.6	26.1	-122.83	-199.7	-1,369.6	368.4	318.5	49.92	7.380				
9,100.0	8,997.5	9,078.0	8,997.5	29.7	26.2	-122.83	-199.7	-1,369.6	368.4	318.4	49.99	7.370				
9,200.0	9,097.5	9,178.0	9,097.5	29.7	26.2	-122.83	-199.7	-1,369.6	368.4	318.3	50.07	7.359				
9,300.0	9,197.5	9,278.0	9,197.5	29.7	26.2	-122.83	-199.7	-1,369.6	368.4	318.3	50.14	7.347				
9,400.0	9,297.5	9,378.0	9,297.5	29.8	26.3	-122.83	-199.7	-1,369.6	368.4	318.2	50.22	7.336				
9,500.0	9,397.5	9,478.0	9,397.5	29.8	26.3	-122.83	-199.7	-1,369.6	368.4	318.1	50.29	7.325				
9,600.0	9,497.5	9,578.0	9,497.5	29.8	26.3	-122.83	-199.7	-1,369.6	368.4	318.0	50.37	7.314				
9,700.0	9,597.5	9,678.0	9,597.5	29.9	26.4	-122.83	-199.7	-1,369.6	368.4	318.0	50.45	7.303				
9,800.0	9,697.5	9,778.0	9,697.5	29.9	26.4	-122.83	-199.7	-1,369.6	368.4	317.9	50.52	7.292				
9,900.0	9,797.5	9,878.0	9,797.5	29.9	26.5	-122.83	-199.7	-1,369.6	368.4	317.8	50.60	7.281				
10,000.0	9,897.5	9,978.0	9,897.5	30.0	26.5	-122.83	-199.7	-1,369.6	368.4	317.7	50.68	7.270				

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2331 PROJECT - ZIA HILLS UNIT 2331 WC #713H - OWB - PWP0													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_ADK, 1500-r.5 MWD+IFR1, 11062-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
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		Minimum Separation (usft)	Separation Factor			
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
10,100.0	9,997.5	10,078.0	9,997.5	30.0	26.5	-122.83		-199.7	-1,369.6	368.4	317.7	50.76	7.258			
10,200.0	10,097.5	10,178.0	10,097.5	30.0	26.6	-122.83		-199.7	-1,369.6	368.4	317.6	50.84	7.247			
10,300.0	10,197.5	10,278.0	10,197.5	30.1	26.6	-122.83		-199.7	-1,369.6	368.4	317.5	50.91	7.236			
10,400.0	10,297.5	10,378.0	10,297.5	30.1	26.6	-122.83		-199.7	-1,369.6	368.4	317.4	50.99	7.224			
10,500.0	10,397.5	10,478.0	10,397.5	30.1	26.7	-122.83		-199.7	-1,369.6	368.4	317.3	51.07	7.213			
10,600.0	10,497.5	10,578.0	10,497.5	30.2	26.7	-122.83		-199.7	-1,369.6	368.4	317.3	51.15	7.202			
10,700.0	10,597.5	10,678.0	10,597.5	30.2	26.7	-122.83		-199.7	-1,369.6	368.4	317.2	51.24	7.191			
10,800.0	10,697.5	10,778.0	10,697.5	30.2	26.8	-122.83		-199.7	-1,369.6	368.4	317.1	51.32	7.179			
10,900.0	10,797.5	10,878.0	10,797.5	30.3	26.8	-122.83		-199.7	-1,369.6	368.4	317.0	51.40	7.168			
11,000.0	10,897.5	10,978.0	10,897.5	30.3	26.9	-122.83		-199.7	-1,369.6	368.4	316.9	51.48	7.156			
11,100.0	10,997.5	11,089.2	11,008.7	30.3	26.9	-122.72		-198.9	-1,369.6	368.2	316.6	51.56	7.141			
11,200.0	11,097.5	11,249.2	11,164.0	30.4	26.9	-117.81		-163.5	-1,369.9	356.6	303.9	52.74	6.762			
11,300.0	11,197.5	11,375.2	11,272.8	30.4	26.9	-107.95		-100.6	-1,370.5	334.9	280.1	54.87	6.104			
11,400.0	11,297.5	11,465.3	11,338.6	30.4	26.9	-97.19		-39.3	-1,371.0	316.2	259.5	56.68	5.579			
11,468.6	11,366.1	11,508.8	11,366.0	30.4	26.9	89.75		-5.4	-1,371.3	311.4	254.1	57.22	5.441	CC, ES, SF		
11,500.0	11,397.4	11,526.1	11,376.0	30.5	26.9	91.96		8.7	-1,371.5	312.4	255.2	57.22	5.461			
11,600.0	11,494.8	11,555.6	11,391.8	30.4	27.0	94.39		33.5	-1,371.7	333.5	277.5	56.07	5.948			
11,700.0	11,585.6	11,563.0	11,395.5	30.4	27.0	89.27		39.9	-1,371.7	380.5	326.5	54.05	7.041			
11,800.0	11,665.7	11,555.9	11,392.0	30.5	27.0	77.93		33.8	-1,371.7	444.9	392.8	52.18	8.527			
11,900.0	11,731.7	11,539.5	11,383.4	30.5	26.9	63.50		19.9	-1,371.6	517.4	466.7	50.75	10.195			
12,000.0	11,780.7	11,516.8	11,370.6	30.5	26.9	50.02		1.0	-1,371.4	591.1	541.4	49.65	11.905			
12,100.0	11,810.6	11,489.6	11,354.3	30.6	26.9	39.67		-20.7	-1,371.2	661.4	612.7	48.73	13.575			
12,200.0	11,820.0	11,459.4	11,334.7	30.7	26.9	32.67		-43.6	-1,371.0	725.4	677.5	47.87	15.153			
12,300.0	11,820.0	11,425.0	11,310.6	30.9	26.9	31.41		-68.2	-1,370.8	788.8	741.6	47.17	16.723			
12,400.0	11,820.0	11,400.0	11,292.0	31.0	26.9	30.50		-85.0	-1,370.6	856.8	810.4	46.41	18.461			
12,500.0	11,820.0	11,375.0	11,272.6	31.2	26.9	29.60		-100.7	-1,370.5	929.0	883.2	45.78	20.293			
12,600.0	11,820.0	11,360.2	11,260.7	31.5	26.9	29.07		-109.6	-1,370.4	1,004.5	959.4	45.10	22.274			
12,700.0	11,820.0	11,350.0	11,252.4	31.7	26.9	28.71		-115.4	-1,370.3	1,083.0	1,038.6	44.45	24.363			
12,800.0	11,820.0	11,325.0	11,231.5	32.0	26.9	27.84		-129.1	-1,370.2	1,163.9	1,119.8	44.12	26.381			
12,900.0	11,820.0	11,310.4	11,218.9	32.3	26.9	27.34		-136.5	-1,370.1	1,246.9	1,203.2	43.71	28.525			
13,000.0	11,820.0	11,300.0	11,209.8	32.7	26.9	26.99		-141.6	-1,370.1	1,331.8	1,288.5	43.33	30.739			
13,100.0	11,820.0	11,284.9	11,196.5	33.0	26.9	26.49		-148.6	-1,370.0	1,418.2	1,375.1	43.06	32.937			
13,200.0	11,820.0	11,275.0	11,187.6	33.4	26.9	26.16		-153.0	-1,370.0	1,505.9	1,463.1	42.78	35.202			
13,300.0	11,820.0	11,263.9	11,177.5	33.8	26.9	25.81		-157.7	-1,370.0	1,594.8	1,552.3	42.56	37.470			
13,400.0	11,820.0	11,250.0	11,164.8	34.3	26.9	25.37		-163.2	-1,369.9	1,684.8	1,642.4	42.41	39.725			
13,500.0	11,820.0	11,250.0	11,164.8	34.7	26.9	25.37		-163.2	-1,369.9	1,775.5	1,733.4	42.15	42.121			
13,600.0	11,820.0	11,238.5	11,154.1	35.2	26.9	25.01		-167.4	-1,369.9	1,867.1	1,825.1	42.04	44.409			
13,700.0	11,820.0	11,225.0	11,141.4	35.7	26.9	24.60		-172.1	-1,369.8	1,959.4	1,917.4	41.97	46.681			
13,800.0	11,820.0	11,225.0	11,141.4	36.2	26.9	24.60		-172.1	-1,369.8	2,052.2	2,010.4	41.81	49.089			
13,900.0	11,820.0	11,225.0	11,141.4	36.8	26.9	24.60		-172.1	-1,369.8	2,145.7	2,104.0	41.66	51.501			
14,000.0	11,820.0	11,212.9	11,130.0	37.3	26.9	24.23		-176.1	-1,369.8	2,239.5	2,197.9	41.64	53.779			
14,100.0	11,820.0	11,200.0	11,117.7	37.9	26.9	23.86		-179.9	-1,369.8	2,333.9	2,292.3	41.64	56.047			
14,200.0	11,820.0	11,200.0	11,117.7	38.5	26.9	23.86		-179.9	-1,369.8	2,428.6	2,387.0	41.55	58.447			

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance	Minimum Separation (usft)	Separation Factor	Warning	
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	2.2	0.0	3.0	3.0		-9.49	199.6	-33.4	202.3	195.9	6.43	31.474	
100.0	100.0	102.2	100.0	3.2	3.1		-9.49	199.6	-33.4	202.3	195.6	6.72	30.123	
200.0	200.0	202.2	200.0	3.5	3.2		-9.49	199.6	-33.4	202.3	195.3	7.06	28.648	
300.0	300.0	302.2	300.0	3.7	3.3		-9.49	199.6	-33.4	202.3	194.9	7.40	27.356	
400.0	400.0	402.2	400.0	3.9	3.4		-9.49	199.6	-33.4	202.3	194.6	7.72	26.211	
500.0	500.0	502.2	500.0	4.1	3.6		-9.49	199.6	-33.4	202.3	194.3	8.03	25.186	
600.0	600.0	602.2	600.0	4.2	3.7		-9.49	199.6	-33.4	202.3	194.0	8.34	24.262	
700.0	700.0	702.2	700.0	4.4	3.8		-9.49	199.6	-33.4	202.3	193.7	8.64	23.422	
800.0	800.0	802.2	800.0	4.6	3.9		-9.49	199.6	-33.4	202.3	193.4	8.93	22.654	
900.0	900.0	902.2	900.0	4.8	4.0		-9.49	199.6	-33.4	202.3	193.1	9.22	21.948	
1,000.0	1,000.0	1,002.2	1,000.0	4.9	4.2		-9.49	199.6	-33.4	202.3	192.8	9.50	21.297	
1,100.0	1,100.0	1,103.5	1,101.3	5.2	4.3	80.63		199.0	-34.6	201.7	192.0	9.76	20.660	
1,200.0	1,199.8	1,204.7	1,202.4	5.4	4.5	81.03		197.4	-38.4	199.9	189.9	10.08	19.837	
1,300.0	1,299.5	1,306.0	1,303.4	5.7	4.7	81.72		194.8	-44.6	197.0	186.6	10.39	18.958	
1,400.0	1,398.7	1,407.2	1,404.2	6.0	5.0	82.72		191.1	-53.3	192.9	182.2	10.70	18.024	
1,500.0	1,497.5	1,508.3	1,504.6	6.3	5.3	84.07		186.4	-64.4	187.7	176.7	11.02	17.039	
1,600.0	1,595.6	1,609.5	1,604.7	6.6	5.6	85.79		180.6	-78.0	181.5	170.2	11.30	16.061	
1,700.0	1,693.6	1,710.7	1,704.4	6.9	5.9	87.11		173.8	-94.0	174.5	162.8	11.67	14.954	
1,800.0	1,791.5	1,810.7	1,802.6	7.2	6.2	87.93		166.4	-111.5	167.0	155.0	11.96	13.960	
1,900.0	1,889.4	1,910.4	1,900.5	7.5	6.6	88.81		159.0	-129.1	159.4	147.1	12.32	12.940	
2,000.0	1,987.3	2,010.1	1,998.3	7.8	6.9	89.77		151.5	-146.6	151.9	139.2	12.70	11.968	
2,100.0	2,085.2	2,109.8	2,096.2	8.1	7.3	90.83		144.1	-164.1	144.5	131.4	13.08	11.043	
2,200.0	2,183.2	2,209.5	2,194.0	8.5	7.7	92.00		136.7	-181.6	137.1	123.6	13.49	10.163	
2,300.0	2,281.1	2,309.1	2,291.9	8.9	8.1	93.31		129.2	-199.1	129.8	115.9	13.92	9.325	
2,400.0	2,379.0	2,408.8	2,389.7	9.2	8.5	94.77		121.8	-216.6	122.5	108.2	14.37	8.527	
2,500.0	2,476.9	2,508.5	2,487.6	9.6	8.9	96.41		114.4	-234.1	115.4	100.5	14.85	7.768	
2,600.0	2,574.9	2,608.2	2,585.4	10.0	9.3	98.28		106.9	-251.6	108.3	92.9	15.37	7.046	
2,700.0	2,672.8	2,707.9	2,683.3	10.4	9.7	100.39		99.5	-269.1	101.4	85.4	15.94	6.359	
2,800.0	2,770.7	2,807.6	2,781.1	10.8	10.1	102.81		92.1	-286.6	94.6	78.0	16.58	5.708	
2,900.0	2,868.6	2,907.3	2,879.0	11.2	10.5	105.60		84.6	-304.1	88.1	70.8	17.29	5.092	
3,000.0	2,966.6	3,006.9	2,976.8	11.6	10.9	108.83		77.2	-321.7	81.7	63.6	18.11	4.512	
3,100.0	3,064.5	3,106.6	3,074.7	12.0	11.4	112.59		69.8	-339.2	75.7	56.6	19.06	3.972	
3,200.0	3,162.4	3,206.3	3,172.6	12.5	11.8	116.97		62.3	-356.7	70.0	49.9	20.16	3.474	
3,300.0	3,260.3	3,306.0	3,270.4	12.9	12.2	122.08		54.9	-374.2	64.9	43.4	21.44	3.025	
3,400.0	3,358.2	3,405.7	3,368.3	13.3	12.7	128.01		47.5	-391.7	60.3	37.4	22.91	2.632	
3,500.0	3,456.2	3,505.4	3,466.1	13.8	13.1	134.83		40.0	-409.2	56.5	32.0	24.54	2.302	
3,600.0	3,554.1	3,605.1	3,564.0	14.2	13.6	142.50		32.6	-426.7	53.6	27.3	26.25	2.041	
3,700.0	3,652.0	3,704.7	3,661.8	14.6	14.0	150.88		25.2	-444.2	51.7	23.8	27.91	1.854 Advise and Monitor	
3,800.0	3,749.9	3,804.4	3,759.7	15.1	14.4	159.67		17.7	-461.7	51.1	21.7	29.37	1.739 Advise and Monitor	
3,804.6	3,754.4	3,809.0	3,764.1	15.1	14.5	160.07		17.4	-462.5	51.1	21.6	29.42	1.735 Advise and Monitor, CC	
3,900.0	3,847.9	3,904.1	3,857.5	15.5	14.9	168.48		10.3	-479.2	51.6	21.1	30.49	1.693 Advise and Monitor, ES	
4,000.0	3,945.8	4,003.8	3,955.4	16.0	15.3	176.91		2.9	-496.7	53.4	22.1	31.22	1.709 Advise and Monitor	
4,100.0	4,043.7	4,103.5	4,053.2	16.4	15.8	-175.35		-4.6	-514.2	56.2	24.6	31.61	1.777 Advise and Monitor	
4,200.0	4,141.6	4,203.2	4,151.1	16.8	16.2	-168.45		-12.0	-531.8	59.9	28.2	31.75	1.887 Advise and Monitor	
4,300.0	4,239.6	4,302.9	4,248.9	17.3	16.7	-162.44		-19.4	-549.3	64.4	32.7	31.73	2.030	
4,400.0	4,337.5	4,402.5	4,346.8	17.7	17.1	-157.26		-26.8	-566.8	69.6	37.9	31.64	2.198	
4,500.0	4,435.4	4,502.2	4,444.7	18.2	17.6	-152.81		-34.3	-584.3	75.2	43.6	31.54	2.383	
4,600.0	4,533.3	4,601.9	4,542.5	18.6	18.0	-149.01		-41.7	-601.8	81.2	49.7	31.45	2.580	
4,700.0	4,631.2	4,701.6	4,640.4	19.1	18.5	-145.73		-49.1	-619.3	87.5	56.1	31.40	2.785	
4,800.0	4,729.2	4,801.3	4,738.2	19.5	18.9	-142.91		-56.6	-636.8	94.0	62.6	31.40	2.995	
4,900.0	4,827.1	4,901.0	4,836.1	20.0	19.4	-140.45		-64.0	-654.3	100.8	69.3	31.43	3.206	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,925.0	5,000.6	4,933.9	20.5	19.8	-138.31	-71.4	-671.8	107.7	76.2	31.51	3.417		
5,100.0	5,022.9	5,100.3	5,031.8	20.9	20.3	-136.43	-78.9	-689.3	114.7	83.1	31.63	3.627		
5,200.0	5,120.9	5,200.0	5,129.6	21.4	20.7	-134.77	-86.3	-706.8	121.9	90.1	31.78	3.835		
5,300.0	5,218.8	5,299.7	5,227.5	21.8	21.2	-133.29	-93.7	-724.4	129.1	97.2	31.97	4.039		
5,400.0	5,316.7	5,399.4	5,325.3	22.3	21.7	-131.97	-101.2	-741.9	136.4	104.3	32.18	4.240		
5,500.0	5,414.6	5,499.1	5,423.2	22.7	22.1	-130.78	-108.6	-759.4	143.8	111.4	32.41	4.437		
5,600.0	5,512.6	5,598.5	5,520.8	23.2	22.6	-129.81	-115.9	-776.6	151.3	118.7	32.68	4.631		
5,700.0	5,610.5	5,697.8	5,618.5	23.7	23.0	-129.22	-122.9	-793.0	159.1	126.1	33.07	4.812		
5,800.0	5,708.4	5,797.0	5,716.3	24.1	23.4	-128.97	-129.5	-808.7	167.2	133.6	33.55	4.983		
5,900.0	5,806.3	5,896.3	5,814.2	24.6	23.9	-129.01	-135.9	-823.6	175.5	141.4	34.11	5.144		
6,000.0	5,904.3	5,995.5	5,912.2	25.0	24.3	-129.25	-141.9	-837.7	183.8	149.1	34.71	5.295		
6,100.0	6,002.6	6,094.7	6,010.4	25.5	24.8	-129.36	-147.5	-851.0	191.3	156.0	35.26	5.425		
6,200.0	6,101.3	6,194.0	6,108.8	25.9	25.2	-129.31	-152.8	-863.6	197.9	162.2	35.74	5.538		
6,300.0	6,200.2	6,293.4	6,207.3	26.4	25.6	-129.11	-157.8	-875.3	203.7	167.5	36.14	5.635		
6,400.0	6,299.3	6,392.7	6,305.9	26.8	26.0	-128.77	-162.5	-886.3	208.6	172.1	36.48	5.718		
6,500.0	6,398.6	6,492.1	6,404.7	27.2	26.4	-128.30	-166.8	-896.5	212.7	176.0	36.75	5.788		
6,600.0	6,498.2	6,591.6	6,503.6	27.6	26.8	-127.70	-170.8	-905.9	216.0	179.0	36.95	5.846		
6,700.0	6,597.9	6,691.0	6,602.6	28.0	27.2	-126.97	-174.5	-914.5	218.4	181.4	37.07	5.893		
6,800.0	6,697.7	6,790.5	6,701.7	28.3	27.6	-126.11	-177.8	-922.4	220.1	183.0	37.11	5.931		
6,900.0	6,797.6	6,890.0	6,800.9	28.6	28.0	-125.10	-180.8	-929.4	221.0	183.9	37.06	5.962		
7,000.0	6,897.5	6,989.5	6,900.2	28.9	28.3	-123.94	-183.4	-935.7	221.1	184.2	36.93	5.986		
7,100.0	6,997.5	7,089.0	6,999.6	29.1	28.7	-122.62	-185.8	-941.1	220.5	183.9	36.66	6.015		
7,200.0	7,097.5	7,188.6	7,099.0	29.1	29.0	148.68	-187.7	-945.8	219.7	183.4	36.34	6.047		
7,300.0	7,197.5	7,288.3	7,198.6	29.1	29.4	149.77	-189.4	-949.7	219.2	183.1	36.11	6.070		
7,400.0	7,297.5	7,388.0	7,298.2	29.2	29.7	150.64	-190.7	-952.7	218.8	182.8	35.95	6.085		
7,500.0	7,397.5	7,487.8	7,398.0	29.2	30.0	151.28	-191.6	-955.0	218.5	182.6	35.87	6.091		
7,600.0	7,497.5	7,587.6	7,497.8	29.2	30.2	151.70	-192.3	-956.5	218.4	182.5	35.87	6.088		
7,700.0	7,597.5	7,687.4	7,597.6	29.2	30.4	151.90	-192.6	-957.2	218.3	182.4	35.93	6.076		
7,751.1	7,648.6	7,738.4	7,648.6	29.3	30.5	151.91	-192.6	-957.2	218.3	182.3	35.97	6.069		
7,800.0	7,697.5	7,787.3	7,697.5	29.3	30.5	151.91	-192.6	-957.2	218.3	182.3	36.00	6.063		
7,900.0	7,797.5	7,887.3	7,797.5	29.3	30.5	151.91	-192.6	-957.2	218.3	182.2	36.09	6.049		
8,000.0	7,897.5	7,987.3	7,897.5	29.3	30.5	151.91	-192.6	-957.2	218.3	182.1	36.18	6.034		
8,100.0	7,997.5	8,087.3	7,997.5	29.4	30.5	151.91	-192.6	-957.2	218.3	182.0	36.26	6.020		
8,200.0	8,097.5	8,187.3	8,097.5	29.4	30.6	151.91	-192.6	-957.2	218.3	181.9	36.35	6.006		
8,300.0	8,197.5	8,287.3	8,197.5	29.4	30.6	151.91	-192.6	-957.2	218.3	181.9	36.44	5.991		
8,400.0	8,297.5	8,387.3	8,297.5	29.5	30.6	151.91	-192.6	-957.2	218.3	181.8	36.52	5.977		
8,500.0	8,397.5	8,487.3	8,397.5	29.5	30.6	151.91	-192.6	-957.2	218.3	181.7	36.61	5.962		
8,600.0	8,497.5	8,587.3	8,497.5	29.5	30.6	151.91	-192.6	-957.2	218.3	181.6	36.70	5.948		
8,700.0	8,597.5	8,687.3	8,597.5	29.5	30.7	151.91	-192.6	-957.2	218.3	181.5	36.79	5.933		
8,800.0	8,697.5	8,787.3	8,697.5	29.6	30.7	151.91	-192.6	-957.2	218.3	181.4	36.88	5.919		
8,900.0	8,797.5	8,887.3	8,797.5	29.6	30.7	151.91	-192.6	-957.2	218.3	181.3	36.97	5.904		
9,000.0	8,897.5	8,987.3	8,897.5	29.6	30.7	151.91	-192.6	-957.2	218.3	181.2	37.06	5.890		
9,100.0	8,997.5	9,087.3	8,997.5	29.7	30.7	151.91	-192.6	-957.2	218.3	181.1	37.15	5.875		
9,200.0	9,097.5	9,187.3	9,097.5	29.7	30.8	151.91	-192.6	-957.2	218.3	181.0	37.25	5.861		
9,300.0	9,197.5	9,287.3	9,197.5	29.7	30.8	151.91	-192.6	-957.2	218.3	181.0	37.34	5.846		
9,400.0	9,297.5	9,387.3	9,297.5	29.8	30.8	151.91	-192.6	-957.2	218.3	180.9	37.43	5.832		
9,500.0	9,397.5	9,487.3	9,397.5	29.8	30.8	151.91	-192.6	-957.2	218.3	180.8	37.53	5.817		
9,600.0	9,497.5	9,587.3	9,497.5	29.8	30.9	151.91	-192.6	-957.2	218.3	180.7	37.62	5.803		
9,700.0	9,597.5	9,687.3	9,597.5	29.9	30.9	151.91	-192.6	-957.2	218.3	180.6	37.71	5.788		
9,800.0	9,697.5	9,787.3	9,697.5	29.9	30.9	151.91	-192.6	-957.2	218.3	180.5	37.81	5.774		
9,900.0	9,797.5	9,887.3	9,797.5	29.9	30.9	151.91	-192.6	-957.2	218.3	180.4	37.90	5.759		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,897.5	9,987.3	9,897.5	30.0	30.9	151.91	-192.6	-957.2	218.3	180.3	38.00	5.745	
10,100.0	9,997.5	10,087.3	9,997.5	30.0	31.0	151.91	-192.6	-957.2	218.3	180.2	38.10	5.730	
10,200.0	10,097.5	10,187.3	10,097.5	30.0	31.0	151.91	-192.6	-957.2	218.3	180.1	38.19	5.716	
10,300.0	10,197.5	10,287.3	10,197.5	30.1	31.0	151.91	-192.6	-957.2	218.3	180.0	38.29	5.701	
10,400.0	10,297.5	10,387.3	10,297.5	30.1	31.0	151.91	-192.6	-957.2	218.3	179.9	38.39	5.687	
10,500.0	10,397.5	10,487.3	10,397.5	30.1	31.1	151.91	-192.6	-957.2	218.3	179.8	38.48	5.672	
10,600.0	10,497.5	10,587.3	10,497.5	30.2	31.1	151.91	-192.6	-957.2	218.3	179.7	38.58	5.658	
10,700.0	10,597.5	10,687.3	10,597.5	30.2	31.1	151.91	-192.6	-957.2	218.3	179.6	38.68	5.643	
10,800.0	10,697.5	10,787.3	10,697.5	30.2	31.1	151.91	-192.6	-957.2	218.3	179.5	38.78	5.629	
10,900.0	10,797.5	10,887.3	10,797.5	30.3	31.2	151.91	-192.6	-957.2	218.3	179.4	38.88	5.615	
11,000.0	10,897.5	10,987.3	10,897.5	30.3	31.2	151.91	-192.6	-957.2	218.3	179.3	38.98	5.600	
11,100.0	10,997.5	11,087.3	10,997.5	30.3	31.2	151.91	-192.6	-957.2	218.3	179.2	39.08	5.586	
11,200.0	11,097.5	11,208.9	11,119.0	30.4	31.2	151.47	-189.0	-957.3	216.2	176.4	39.78	5.435	
11,300.0	11,197.5	11,350.9	11,256.7	30.4	31.3	146.71	-155.9	-957.7	195.6	152.8	42.77	4.573	
11,400.0	11,297.5	11,470.9	11,363.7	30.4	31.3	135.15	-102.2	-958.3	158.6	110.8	47.84	3.316	
11,500.0	11,397.4	11,563.3	11,437.2	30.5	31.3	-68.96	-46.3	-959.0	116.8	61.4	55.43	2.107	
11,572.5	11,468.5	11,607.1	11,468.7	30.4	31.3	-90.37	-15.9	-959.4	100.5	40.7	59.79	1.681	Advise and Monitor, SF
11,600.0	11,494.8	11,619.0	11,476.8	30.4	31.3	-96.06	-7.2	-959.5	103.5	44.5	59.00	1.755	Advise and Monitor
11,700.0	11,585.6	11,644.5	11,493.6	30.4	31.3	-101.45	11.9	-959.7	156.8	105.7	51.14	3.067	
11,800.0	11,665.7	11,650.0	11,497.2	30.5	31.3	-84.46	16.2	-959.8	242.0	194.4	47.54	5.090	
11,900.0	11,731.7	11,638.7	11,489.9	30.5	31.3	-52.63	7.5	-959.7	334.4	288.1	46.32	7.219	
12,000.0	11,780.7	11,618.8	11,476.7	30.5	31.3	-30.92	-7.3	-959.5	425.4	379.7	45.65	9.318	
12,100.0	11,810.6	11,600.0	11,463.8	30.6	31.3	-20.53	-21.0	-959.3	511.1	466.1	44.99	11.359	
12,200.0	11,820.0	11,550.0	11,427.2	30.7	31.3	-14.40	-55.1	-958.9	588.8	544.2	44.64	13.189	
12,300.0	11,820.0	11,529.7	11,411.6	30.9	31.3	-13.88	-68.0	-958.8	664.3	620.3	43.99	15.100	
12,400.0	11,820.0	11,500.0	11,387.9	31.0	31.3	-13.17	-85.9	-958.5	743.2	699.6	43.57	17.057	
12,500.0	11,820.0	11,478.4	11,370.0	31.2	31.3	-12.67	-98.1	-958.4	824.9	781.7	43.18	19.104	
12,600.0	11,820.0	11,450.0	11,346.0	31.5	31.3	-12.06	-113.1	-958.2	909.0	866.0	42.93	21.173	
12,700.0	11,820.0	11,450.0	11,346.0	31.7	31.3	-12.06	-113.1	-958.2	995.0	952.5	42.53	23.397	
12,800.0	11,820.0	11,421.0	11,320.6	32.0	31.3	-11.48	-127.2	-958.0	1,082.3	1,039.9	42.40	25.524	
12,900.0	11,820.0	11,400.0	11,301.8	32.3	31.3	-11.08	-136.6	-957.9	1,171.2	1,128.9	42.26	27.711	
13,000.0	11,820.0	11,400.0	11,301.8	32.7	31.3	-11.08	-136.6	-957.9	1,261.3	1,219.2	42.04	30.005	
13,100.0	11,820.0	11,379.4	11,283.1	33.0	31.3	-10.71	-145.2	-957.8	1,352.2	1,310.2	41.97	32.221	
13,200.0	11,820.0	11,368.1	11,272.7	33.4	31.3	-10.51	-149.6	-957.7	1,444.1	1,402.2	41.87	34.489	
13,300.0	11,820.0	11,350.0	11,255.8	33.8	31.3	-10.21	-156.2	-957.7	1,536.8	1,494.9	41.83	36.736	
13,400.0	11,820.0	11,350.0	11,255.8	34.3	31.3	-10.21	-156.2	-957.7	1,630.0	1,588.3	41.73	39.064	
13,500.0	11,820.0	11,350.0	11,255.8	34.7	31.3	-10.21	-156.2	-957.7	1,724.0	1,682.3	41.64	41.400	
13,600.0	11,820.0	11,350.0	11,255.8	35.2	31.3	-10.21	-156.2	-957.7	1,818.6	1,777.0	41.58	43.740	
13,700.0	11,820.0	11,324.2	11,231.4	35.7	31.3	-9.80	-164.7	-957.6	1,913.0	1,871.3	41.63	45.949	
13,800.0	11,820.0	11,300.0	11,208.3	36.2	31.3	-9.45	-171.6	-957.5	2,008.5	1,966.8	41.69	48.176	
13,900.0	11,820.0	11,300.0	11,208.3	36.8	31.3	-9.45	-171.6	-957.5	2,103.8	2,062.2	41.66	50.501	
14,000.0	11,820.0	11,300.0	11,208.3	37.3	31.3	-9.45	-171.6	-957.5	2,199.6	2,158.0	41.64	52.825	
14,100.0	11,820.0	11,300.0	11,208.3	37.9	31.3	-9.45	-171.6	-957.5	2,295.7	2,254.1	41.63	55.146	
14,200.0	11,820.0	11,300.0	11,208.3	38.5	31.3	-9.45	-171.6	-957.5	2,392.2	2,350.5	41.63	57.463	
14,300.0	11,820.0	11,300.0	11,208.3	39.1	31.3	-9.45	-171.6	-957.5	2,488.9	2,447.2	41.64	59.776	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	2.6	0.0	3.0	3.0	-0.97	199.9	-3.4	199.9	193.5	6.43	31.094	
100.0	100.0	102.6	100.0	3.2	3.1	-0.97	199.9	-3.4	199.9	193.2	6.72	29.758	
200.0	200.0	202.6	200.0	3.5	3.2	-0.97	199.9	-3.4	199.9	192.8	7.06	28.301	
300.0	300.0	302.6	300.0	3.7	3.3	-0.97	199.9	-3.4	199.9	192.5	7.40	27.024	
400.0	400.0	402.6	400.0	3.9	3.4	-0.97	199.9	-3.4	199.9	192.2	7.72	25.892	
500.0	500.0	502.6	500.0	4.1	3.6	-0.97	199.9	-3.4	199.9	191.9	8.04	24.879	
600.0	600.0	602.6	600.0	4.2	3.7	-0.97	199.9	-3.4	199.9	191.6	8.34	23.964	
700.0	700.0	702.6	700.0	4.4	3.8	-0.97	199.9	-3.4	199.9	191.3	8.64	23.133	
800.0	800.0	802.6	800.0	4.6	3.9	-0.97	199.9	-3.4	199.9	191.0	8.93	22.374	
900.0	900.0	902.6	900.0	4.8	4.0	-0.97	199.9	-3.4	199.9	190.7	9.22	21.676	
1,000.0	1,000.0	1,002.7	1,000.1	4.9	4.2	-0.97	199.9	-3.4	199.9	190.4	9.51	21.030	
1,100.0	1,100.0	1,106.9	1,104.2	5.2	4.3	89.11	198.7	-5.0	198.8	189.0	9.80	20.274	
1,200.0	1,199.8	1,210.9	1,208.1	5.4	4.6	89.38	195.3	-9.7	195.5	185.4	10.15	19.254	
1,300.0	1,299.5	1,314.8	1,311.6	5.7	5.0	89.88	189.7	-17.4	190.1	179.6	10.50	18.098	
1,400.0	1,398.7	1,417.8	1,413.7	6.0	5.3	90.64	182.0	-27.9	182.7	171.8	10.86	16.822	
1,500.0	1,497.5	1,517.4	1,512.3	6.3	5.5	92.27	173.9	-39.2	174.6	163.4	11.21	15.576	
1,600.0	1,595.6	1,616.7	1,610.7	6.6	5.8	95.18	165.8	-50.3	166.9	155.3	11.56	14.440	
1,700.0	1,693.6	1,716.0	1,709.0	6.9	6.1	98.66	157.6	-61.5	159.8	147.8	12.03	13.284	
1,800.0	1,791.5	1,815.2	1,807.3	7.2	6.4	102.44	149.5	-72.7	153.4	140.9	12.51	12.259	
1,900.0	1,889.4	1,914.5	1,905.6	7.5	6.7	106.54	141.4	-83.9	147.7	134.7	13.05	11.316	
2,000.0	1,987.3	2,013.7	2,003.9	7.8	7.1	110.93	133.3	-95.0	142.8	129.2	13.66	10.455	
2,100.0	2,085.2	2,113.0	2,102.1	8.1	7.4	115.59	125.2	-106.2	138.9	124.5	14.34	9.682	
2,200.0	2,183.2	2,212.2	2,200.4	8.5	7.8	120.50	117.0	-117.4	135.9	120.8	15.10	8.999	
2,300.0	2,281.1	2,311.5	2,298.7	8.9	8.1	125.58	108.9	-128.6	133.9	118.0	15.92	8.412	
2,400.0	2,379.0	2,410.7	2,397.0	9.2	8.5	130.76	100.8	-139.7	133.1	116.3	16.80	7.921	
2,425.7	2,404.2	2,436.3	2,422.3	9.3	8.6	132.11	98.7	-142.6	133.1	116.0	17.04	7.810 CC	
2,500.0	2,476.9	2,510.0	2,495.3	9.6	8.9	135.97	92.7	-150.9	133.4	115.6	17.72	7.526 ES	
2,600.0	2,574.9	2,609.3	2,593.6	10.0	9.2	141.12	84.6	-162.1	134.7	116.1	18.65	7.224	
2,700.0	2,672.8	2,708.5	2,691.9	10.4	9.6	146.12	76.4	-173.3	137.2	117.6	19.58	7.006	
2,800.0	2,770.7	2,807.8	2,790.2	10.8	10.0	150.92	68.3	-184.4	140.7	120.2	20.49	6.864	
2,900.0	2,868.6	2,907.0	2,888.4	11.2	10.4	155.45	60.2	-195.6	145.1	123.7	21.37	6.788	
3,000.0	2,966.6	3,006.3	2,986.7	11.6	10.8	159.70	52.1	-206.8	150.4	128.2	22.21	6.769 SF	
3,100.0	3,064.5	3,105.3	3,085.0	12.0	11.2	163.64	44.0	-218.0	156.4	133.4	23.02	6.797	
3,200.0	3,162.4	3,204.8	3,183.3	12.5	11.6	167.28	35.9	-229.1	163.2	139.4	23.78	6.863	
3,300.0	3,260.3	3,304.0	3,281.6	12.9	12.0	170.61	27.7	-240.3	170.5	146.0	24.50	6.959	
3,400.0	3,358.2	3,403.3	3,379.9	13.3	12.4	173.67	19.6	-251.5	178.4	153.2	25.20	7.080	
3,500.0	3,456.2	3,502.5	3,478.2	13.8	12.8	176.46	11.5	-262.7	186.8	160.9	25.87	7.220	
3,600.0	3,554.1	3,601.8	3,576.5	14.2	13.2	179.01	3.4	-273.8	195.5	169.0	26.51	7.375	
3,700.0	3,652.0	3,701.0	3,674.7	14.6	13.6	-178.67	-4.7	-285.0	204.6	177.5	27.14	7.540	
3,800.0	3,749.9	3,800.3	3,773.0	15.1	14.0	-176.54	-12.9	-296.2	214.0	186.3	27.75	7.713	
3,900.0	3,847.9	3,899.5	3,871.3	15.5	14.4	-174.59	-21.0	-307.4	223.7	195.4	28.35	7.891	
4,000.0	3,945.8	3,998.8	3,969.6	16.0	14.8	-172.81	-29.1	-318.5	233.7	204.7	28.94	8.073	
4,100.0	4,043.7	4,098.0	4,067.9	16.4	15.2	-171.17	-37.2	-329.7	243.8	214.3	29.53	8.257	
4,200.0	4,141.6	4,197.3	4,166.2	16.8	15.7	-169.66	-45.3	-340.9	254.1	224.0	30.10	8.441	
4,300.0	4,239.6	4,296.6	4,264.5	17.3	16.1	-168.28	-53.5	-352.1	264.6	233.9	30.68	8.624	
4,400.0	4,337.5	4,395.8	4,362.8	17.7	16.5	-166.99	-61.6	-363.2	275.2	243.9	31.25	8.807	
4,500.0	4,435.4	4,495.1	4,461.0	18.2	16.9	-165.81	-69.7	-374.4	285.9	254.1	31.81	8.987	
4,600.0	4,533.3	4,594.3	4,559.3	18.6	17.3	-164.70	-77.8	-385.6	296.8	264.4	32.38	9.166	
4,700.0	4,631.2	4,693.6	4,657.6	19.1	17.7	-163.68	-85.9	-396.8	307.7	274.8	32.94	9.341	
4,800.0	4,729.2	4,792.8	4,755.9	19.5	18.2	-162.73	-94.1	-407.9	318.8	285.3	33.51	9.514	
4,900.0	4,827.1	4,892.1	4,854.2	20.0	18.6	-161.84	-102.2	-419.1	329.9	295.8	34.07	9.683	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,925.0	4,991.3	4,952.5	20.5	19.0	-161.01	-110.3	-430.3	341.1	306.5	34.63	9.849		
5,100.0	5,022.9	5,090.6	5,050.8	20.9	19.4	-160.23	-118.4	-441.5	352.4	317.2	35.20	10.011		
5,200.0	5,120.9	5,189.8	5,149.0	21.4	19.8	-159.50	-126.5	-452.6	363.7	327.9	35.76	10.170		
5,300.0	5,218.8	5,288.2	5,246.5	21.8	20.2	-158.84	-134.5	-463.6	375.1	338.8	36.30	10.334		
5,400.0	5,316.7	5,385.7	5,343.1	22.3	20.6	-158.31	-142.0	-473.9	387.0	350.1	36.87	10.496		
5,500.0	5,414.6	5,483.1	5,439.8	22.7	21.0	-157.91	-149.0	-483.6	399.4	361.9	37.47	10.660		
5,600.0	5,512.6	5,580.4	5,536.5	23.2	21.4	-157.63	-155.5	-492.5	412.2	374.1	38.08	10.824		
5,700.0	5,610.5	5,677.6	5,633.2	23.7	21.8	-157.47	-161.5	-500.8	425.5	386.8	38.72	10.990		
5,800.0	5,708.4	5,774.7	5,729.8	24.1	22.2	-157.41	-167.1	-508.4	439.2	399.9	39.38	11.155		
5,900.0	5,806.3	5,871.7	5,826.4	24.6	22.6	-157.44	-172.1	-515.4	453.4	413.4	40.05	11.321		
6,000.0	5,904.3	5,968.7	5,923.0	25.0	22.9	-157.58	-176.7	-521.7	467.7	426.9	40.72	11.485		
6,100.0	6,002.6	6,065.7	6,019.8	25.5	23.3	-157.73	-180.8	-527.3	480.8	439.4	41.39	11.616		
6,200.0	6,101.3	6,162.7	6,116.7	25.9	23.7	-157.88	-184.4	-532.2	492.9	450.8	42.05	11.721		
6,300.0	6,200.2	6,259.9	6,213.7	26.4	24.0	-158.03	-187.5	-536.5	503.7	461.0	42.69	11.800		
6,400.0	6,299.3	6,357.1	6,310.8	26.8	24.3	-158.17	-190.1	-540.2	513.4	470.1	43.31	11.855		
6,500.0	6,398.6	6,454.4	6,408.0	27.2	24.6	-158.31	-192.3	-543.2	522.0	478.1	43.91	11.888		
6,600.0	6,498.2	6,551.7	6,505.3	27.6	24.9	-158.45	-194.0	-545.5	529.4	484.9	44.49	11.900		
6,700.0	6,597.9	6,649.1	6,602.6	28.0	25.2	-158.60	-195.2	-547.1	535.6	490.6	45.03	11.893		
6,800.0	6,697.7	6,746.5	6,700.0	28.3	25.4	-158.74	-195.9	-548.1	540.7	495.1	45.55	11.870		
6,900.0	6,797.6	6,844.0	6,797.6	28.6	25.6	-158.88	-196.1	-548.4	544.6	498.6	46.00	11.840		
7,000.0	6,897.5	6,944.0	6,897.5	28.9	25.6	-158.99	-196.1	-548.4	547.1	500.7	46.36	11.800		
7,100.0	6,997.5	7,044.0	6,997.5	29.1	25.6	-159.03	-196.1	-548.4	547.9	501.4	46.56	11.768		
7,200.0	7,097.5	7,144.0	7,097.5	29.1	25.6	-159.07	-196.1	-548.4	547.9	501.3	46.62	11.754		
7,300.0	7,197.5	7,244.0	7,197.5	29.1	25.7	-159.07	-196.1	-548.4	547.9	501.2	46.67	11.740		
7,400.0	7,297.5	7,344.0	7,297.5	29.2	25.7	-159.07	-196.1	-548.4	547.9	501.2	46.73	11.725		
7,500.0	7,397.5	7,444.0	7,397.5	29.2	25.7	-159.07	-196.1	-548.4	547.9	501.1	46.79	11.711		
7,600.0	7,497.5	7,544.0	7,497.5	29.2	25.7	-159.07	-196.1	-548.4	547.9	501.1	46.84	11.697		
7,700.0	7,597.5	7,644.0	7,597.5	29.2	25.7	-159.07	-196.1	-548.4	547.9	501.0	46.90	11.682		
7,800.0	7,697.5	7,744.0	7,697.5	29.3	25.8	-159.07	-196.1	-548.4	547.9	501.0	46.96	11.668		
7,900.0	7,797.5	7,844.0	7,797.5	29.3	25.8	-159.07	-196.1	-548.4	547.9	500.9	47.02	11.653		
8,000.0	7,897.5	7,944.0	7,897.5	29.3	25.8	-159.07	-196.1	-548.4	547.9	500.8	47.08	11.638		
8,100.0	7,997.5	8,044.0	7,997.5	29.4	25.8	-159.07	-196.1	-548.4	547.9	500.8	47.14	11.624		
8,200.0	8,097.5	8,144.0	8,097.5	29.4	25.9	-159.07	-196.1	-548.4	547.9	500.7	47.20	11.609		
8,300.0	8,197.5	8,244.0	8,197.5	29.4	25.9	-159.07	-196.1	-548.4	547.9	500.7	47.26	11.594		
8,400.0	8,297.5	8,344.0	8,297.5	29.5	25.9	-159.07	-196.1	-548.4	547.9	500.6	47.32	11.579		
8,500.0	8,397.5	8,444.0	8,397.5	29.5	25.9	-159.07	-196.1	-548.4	547.9	500.5	47.38	11.564		
8,600.0	8,497.5	8,544.0	8,497.5	29.5	25.9	-159.07	-196.1	-548.4	547.9	500.5	47.44	11.549		
8,700.0	8,597.5	8,644.0	8,597.5	29.5	26.0	-159.07	-196.1	-548.4	547.9	500.4	47.51	11.533		
8,800.0	8,697.5	8,744.0	8,697.5	29.6	26.0	-159.07	-196.1	-548.4	547.9	500.3	47.57	11.518		
8,900.0	8,797.5	8,844.0	8,797.5	29.6	26.0	-159.07	-196.1	-548.4	547.9	500.3	47.63	11.503		
9,000.0	8,897.5	8,944.0	8,897.5	29.6	26.0	-159.07	-196.1	-548.4	547.9	500.2	47.70	11.487		
9,100.0	8,997.5	9,044.0	8,997.5	29.7	26.1	-159.07	-196.1	-548.4	547.9	500.2	47.76	11.472		
9,200.0	9,097.5	9,144.0	9,097.5	29.7	26.1	-159.07	-196.1	-548.4	547.9	500.1	47.83	11.456		
9,300.0	9,197.5	9,244.0	9,197.5	29.7	26.1	-159.07	-196.1	-548.4	547.9	500.0	47.89	11.440		
9,400.0	9,297.5	9,344.0	9,297.5	29.8	26.1	-159.07	-196.1	-548.4	547.9	500.0	47.96	11.425		
9,500.0	9,397.5	9,444.0	9,397.5	29.8	26.2	-159.07	-196.1	-548.4	547.9	499.9	48.03	11.409		
9,600.0	9,497.5	9,544.0	9,497.5	29.8	26.2	-159.07	-196.1	-548.4	547.9	499.8	48.09	11.393		
9,700.0	9,597.5	9,644.0	9,597.5	29.9	26.2	-159.07	-196.1	-548.4	547.9	499.8	48.16	11.377		
9,800.0	9,697.5	9,744.0	9,697.5	29.9	26.3	-159.07	-196.1	-548.4	547.9	499.7	48.23	11.361		
9,900.0	9,797.5	9,844.0	9,797.5	29.9	26.3	-159.07	-196.1	-548.4	547.9	499.6	48.30	11.345		
10,000.0	9,897.5	9,944.0	9,897.5	30.0	26.3	-159.07	-196.1	-548.4	547.9	499.6	48.36	11.329		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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)			
10,100.0	9,997.5	10,044.0	9,997.5	30.0	26.3	110.97		-196.1	-548.4	547.9	499.5	48.43	11.313	
10,200.0	10,097.5	10,144.0	10,097.5	30.0	26.4	110.97		-196.1	-548.4	547.9	499.4	48.50	11.297	
10,300.0	10,197.5	10,244.0	10,197.5	30.1	26.4	110.97		-196.1	-548.4	547.9	499.3	48.57	11.280	
10,400.0	10,297.5	10,344.0	10,297.5	30.1	26.4	110.97		-196.1	-548.4	547.9	499.3	48.64	11.264	
10,500.0	10,397.5	10,444.0	10,397.5	30.1	26.4	110.97		-196.1	-548.4	547.9	499.2	48.71	11.248	
10,600.0	10,497.5	10,544.0	10,497.5	30.2	26.5	110.97		-196.1	-548.4	547.9	499.1	48.79	11.231	
10,700.0	10,597.5	10,644.0	10,597.5	30.2	26.5	110.97		-196.1	-548.4	547.9	499.1	48.86	11.215	
10,800.0	10,697.5	10,744.0	10,697.5	30.2	26.5	110.97		-196.1	-548.4	547.9	499.0	48.93	11.198	
10,900.0	10,797.5	10,844.0	10,797.5	30.3	26.6	110.97		-196.1	-548.4	547.9	498.9	49.00	11.182	
11,000.0	10,897.5	10,951.1	10,904.7	30.3	26.6	110.93		-195.7	-548.4	547.8	498.7	49.15	11.147	
11,100.0	10,997.5	11,100.7	11,051.8	30.3	26.6	108.50		-171.1	-548.7	541.9	491.5	50.35	10.762	
11,200.0	11,097.5	11,230.1	11,170.2	30.4	26.7	103.20		-119.7	-549.4	529.5	477.6	51.94	10.196	
11,300.0	11,197.5	11,333.0	11,254.4	30.4	26.8	96.78		-60.7	-550.1	516.6	463.4	53.26	9.699	
11,400.0	11,297.5	11,412.2	11,311.1	30.4	26.8	90.63		-5.6	-550.8	509.4	455.4	53.95	9.441	
11,423.9	11,321.5	11,427.9	11,321.4	30.4	26.8	-90.49		6.3	-551.0	509.1	455.1	54.00	9.427	
11,500.0	11,397.4	11,470.3	11,347.6	30.5	26.8	-93.88		39.6	-551.4	512.8	458.9	53.88	9.517	
11,600.0	11,494.8	11,500.0	11,364.5	30.4	26.8	-94.57		64.1	-551.7	532.1	478.9	53.18	10.007	
11,700.0	11,585.6	11,511.7	11,370.7	30.4	26.9	-91.07		73.9	-551.8	569.0	516.8	52.22	10.897	
11,800.0	11,665.7	11,500.0	11,364.5	30.5	26.8	-82.64		64.1	-551.7	620.2	569.0	51.16	12.123	
11,900.0	11,731.7	11,500.0	11,364.5	30.5	26.8	-73.86		64.1	-551.7	680.1	629.7	50.40	13.492	
12,000.0	11,780.7	11,468.0	11,346.3	30.5	26.8	-62.02		37.7	-551.4	743.1	693.5	49.61	14.980	
12,100.0	11,810.6	11,450.0	11,335.4	30.6	26.8	-52.83		23.4	-551.2	805.1	756.1	48.98	16.436	
12,200.0	11,820.0	11,400.0	11,302.9	30.7	26.8	-44.56		-14.5	-550.7	862.3	814.0	48.34	17.840	
12,300.0	11,820.0	11,375.7	11,285.9	30.9	26.8	-43.64		-32.0	-550.5	919.4	871.6	47.79	19.238	
12,400.0	11,820.0	11,350.0	11,267.2	31.0	26.8	-42.67		-49.5	-550.3	981.3	934.1	47.25	20.766	
12,500.0	11,820.0	11,321.5	11,245.5	31.2	26.7	-41.58		-68.0	-550.0	1,047.4	1,000.6	46.75	22.405	
12,600.0	11,820.0	11,300.0	11,228.5	31.5	26.7	-40.76		-81.3	-549.8	1,117.1	1,070.9	46.28	24.138	
12,700.0	11,820.0	11,277.6	11,210.3	31.7	26.7	-39.91		-94.4	-549.7	1,190.1	1,144.2	45.86	25.951	
12,800.0	11,820.0	11,250.0	11,187.3	32.0	26.7	-38.87		-109.5	-549.5	1,266.0	1,220.5	45.48	27.833	
12,900.0	11,820.0	11,250.0	11,187.3	32.3	26.7	-38.87		-109.5	-549.5	1,344.2	1,299.1	45.13	29.786	
13,000.0	11,820.0	11,226.0	11,166.7	32.7	26.7	-37.98		-121.7	-549.3	1,424.4	1,379.6	44.83	31.772	
13,100.0	11,820.0	11,200.0	11,143.8	33.0	26.7	-37.04		-134.0	-549.2	1,506.8	1,462.2	44.58	33.800	
13,200.0	11,820.0	11,200.0	11,143.8	33.4	26.7	-37.04		-134.0	-549.2	1,590.5	1,546.2	44.33	35.880	
13,300.0	11,820.0	11,200.0	11,143.8	33.8	26.7	-37.04		-134.0	-549.2	1,676.0	1,631.9	44.11	38.000	
13,400.0	11,820.0	11,175.9	11,122.1	34.3	26.7	-36.17		-144.5	-549.0	1,762.4	1,718.4	43.94	40.106	
13,500.0	11,820.0	11,150.0	11,098.2	34.7	26.7	-35.27		-154.7	-548.9	1,850.3	1,806.5	43.81	42.234	
13,600.0	11,820.0	11,150.0	11,098.2	35.2	26.7	-35.27		-154.7	-548.9	1,938.8	1,895.1	43.66	44.405	
13,700.0	11,820.0	11,150.0	11,098.2	35.7	26.7	-35.27		-154.7	-548.9	2,028.3	1,984.7	43.53	46.595	
13,800.0	11,820.0	11,150.0	11,098.2	36.2	26.7	-35.27		-154.7	-548.9	2,118.7	2,075.3	43.42	48.801	
13,900.0	11,820.0	11,150.0	11,098.2	36.8	26.7	-35.27		-154.7	-548.9	2,210.0	2,166.7	43.32	51.018	
14,000.0	11,820.0	11,125.2	11,075.0	37.3	26.7	-34.42		-163.5	-548.8	2,301.3	2,258.1	43.28	53.175	
14,100.0	11,820.0	11,100.0	11,051.1	37.9	26.6	-33.59		-171.3	-548.7	2,394.0	2,350.7	43.26	55.345	
14,200.0	11,820.0	11,100.0	11,051.1	38.5	26.6	-33.59		-171.3	-548.7	2,486.5	2,443.3	43.20	57.562	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11085-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	2.5	0.0	3.0	3.0	7.53		200.2	26.5	202.0	195.5	6.43	31.417	
100.0	100.0	102.5	100.0	3.2	3.1	7.53		200.2	26.5	202.0	195.3	6.72	30.067	
200.0	200.0	202.5	200.0	3.5	3.2	7.53		200.2	26.5	202.0	194.9	7.06	28.595	
300.0	300.0	302.5	300.0	3.7	3.3	7.53		200.2	26.5	202.0	194.6	7.40	27.305	
400.0	400.0	402.5	400.0	3.9	3.4	7.53		200.2	26.5	202.0	194.3	7.72	26.162	
500.0	500.0	502.5	500.0	4.1	3.6	7.53		200.2	26.5	202.0	193.9	8.03	25.139	
600.0	600.0	602.5	600.0	4.2	3.7	7.53		200.2	26.5	202.0	193.6	8.34	24.215	
700.0	700.0	702.5	700.0	4.4	3.8	7.53		200.2	26.5	202.0	193.3	8.64	23.377	
800.0	800.0	802.5	800.0	4.6	3.9	7.53		200.2	26.5	202.0	193.0	8.93	22.610	
900.0	900.0	902.5	900.0	4.8	4.0	7.53		200.2	26.5	202.0	192.8	9.22	21.905	
1,000.0	1,000.0	1,002.7	1,000.2	4.9	4.2	7.53		200.2	26.5	202.0	192.5	9.51	21.249	
1,100.0	1,100.0	1,109.9	1,107.4	5.2	4.4	97.94		198.3	25.7	200.3	190.4	9.88	20.279	
1,200.0	1,199.8	1,216.9	1,214.2	5.4	4.7	99.20		192.7	23.3	195.6	185.2	10.31	18.976	
1,300.0	1,299.5	1,323.4	1,320.2	5.7	5.0	101.44		183.4	19.5	187.9	177.1	10.74	17.486	
1,400.0	1,398.7	1,427.2	1,423.2	6.0	5.4	104.80		171.0	14.3	177.8	166.6	11.19	15.887	
1,500.0	1,497.5	1,525.9	1,520.8	6.3	5.6	109.42		158.3	9.0	168.4	156.8	11.63	14.482	
1,600.0	1,595.6	1,624.1	1,618.1	6.6	5.9	115.50		145.7	3.8	161.7	149.6	12.09	13.374	
1,700.0	1,693.6	1,722.2	1,715.2	6.9	6.2	122.27		133.1	-1.5	157.5	144.8	12.66	12.437	
1,800.0	1,791.5	1,820.2	1,812.3	7.2	6.5	129.29		120.5	-6.7	155.7	142.5	13.24	11.765	
1,822.4	1,813.4	1,842.2	1,834.1	7.2	6.6	130.88		117.7	-7.9	155.7	142.3	13.37	11.644	CC, ES
1,900.0	1,889.4	1,918.3	1,909.4	7.5	6.8	136.36		107.9	-12.0	156.4	142.6	13.83	11.309	
2,000.0	1,987.3	2,016.3	2,006.5	7.8	7.1	143.27		95.3	-17.2	159.5	145.1	14.43	11.053	
2,100.0	2,085.2	2,114.4	2,103.6	8.1	7.5	149.83		82.7	-22.5	164.9	149.9	15.03	10.974	SF
2,200.0	2,183.2	2,212.4	2,200.7	8.5	7.8	155.91		70.1	-27.7	172.4	156.8	15.61	11.042	
2,300.0	2,281.1	2,310.5	2,297.8	8.9	8.2	161.45		57.5	-32.9	181.7	165.5	16.18	11.227	
2,400.0	2,379.0	2,408.5	2,394.9	9.2	8.5	166.42		44.9	-38.2	192.6	175.8	16.74	11.503	
2,500.0	2,476.9	2,506.6	2,492.0	9.6	8.9	170.84		32.3	-43.4	204.7	187.4	17.28	11.845	
2,600.0	2,574.9	2,604.6	2,589.1	10.0	9.3	174.76		19.7	-48.7	218.0	200.2	17.82	12.232	
2,700.0	2,672.8	2,702.7	2,686.2	10.4	9.6	178.22		7.1	-53.9	232.2	213.8	18.35	12.649	
2,800.0	2,770.7	2,800.8	2,783.3	10.8	10.0	-178.71		-5.5	-59.2	247.1	228.2	18.88	13.084	
2,900.0	2,868.6	2,898.8	2,880.4	11.2	10.4	-176.00		-18.1	-64.4	262.6	243.2	19.41	13.528	
3,000.0	2,966.6	2,996.9	2,977.5	11.6	10.8	-173.59		-30.7	-69.7	278.7	258.7	19.94	13.973	
3,100.0	3,064.5	3,094.9	3,074.6	12.0	11.2	-171.45		-43.3	-74.9	295.2	274.7	20.47	14.416	
3,200.0	3,162.4	3,193.0	3,171.7	12.5	11.6	-169.53		-55.9	-80.1	312.0	291.0	21.01	14.852	
3,300.0	3,260.3	3,291.0	3,268.8	12.9	12.0	-167.81		-68.5	-85.4	329.2	307.6	21.54	15.278	
3,400.0	3,358.2	3,389.1	3,365.9	13.3	12.4	-166.25		-81.1	-90.6	346.6	324.5	22.08	15.694	
3,500.0	3,456.2	3,487.1	3,463.0	13.8	12.8	-164.85		-93.7	-95.9	364.2	341.6	22.63	16.098	
3,600.0	3,554.1	3,585.2	3,560.1	14.2	13.2	-163.58		-106.3	-101.1	382.1	358.9	23.17	16.489	
3,700.0	3,652.0	3,683.2	3,657.2	14.6	13.6	-162.42		-118.9	-106.4	400.1	376.4	23.72	16.867	
3,800.0	3,749.9	3,781.3	3,754.3	15.1	14.0	-161.36		-131.5	-111.6	418.2	394.0	24.27	17.232	
3,900.0	3,847.9	3,879.1	3,851.2	15.5	14.3	-160.42		-143.8	-116.7	436.5	411.7	24.80	17.599	
4,000.0	3,945.8	3,976.8	3,948.2	16.0	14.7	-159.75		-154.7	-121.3	455.0	429.6	25.37	17.936	
4,100.0	4,043.7	4,074.7	4,045.6	16.4	15.1	-159.34		-164.2	-125.2	473.6	447.6	25.95	18.251	
4,200.0	4,141.6	4,172.6	4,143.1	16.8	15.5	-159.15		-172.1	-128.5	492.3	465.7	26.54	18.544	
4,300.0	4,239.6	4,270.5	4,240.7	17.3	15.8	-159.18		-178.4	-131.2	511.0	483.8	27.15	18.818	
4,400.0	4,337.5	4,368.4	4,338.5	17.7	16.2	-159.38		-183.2	-133.2	529.8	502.0	27.78	19.074	
4,500.0	4,435.4	4,466.1	4,436.1	18.2	16.5	-159.74		-186.5	-134.5	548.7	520.3	28.41	19.313	
4,600.0	4,533.3	4,563.7	4,533.7	18.6	16.7	-160.26		-188.2	-135.2	567.7	538.6	29.06	19.538	
4,700.0	4,631.2	4,661.2	4,631.2	19.1	16.9	-160.89		-188.5	-135.4	586.8	557.1	29.68	19.771	
4,800.0	4,729.2	4,759.2	4,729.2	19.5	16.9	-161.52		-188.5	-135.4	606.1	575.8	30.30	19.999	
4,900.0	4,827.1	4,857.1	4,827.1	20.0	16.9	-162.10		-188.5	-135.4	625.4	594.4	30.94	20.215	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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												Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,000.0	4,925.0	4,955.0	4,925.0	20.5	16.9	-162.66	-188.5	-135.4	644.7	613.2	31.57	20.423			
5,100.0	5,022.9	5,052.9	5,022.9	20.9	17.0	-163.18	-188.5	-135.4	664.1	631.9	32.20	20.624			
5,200.0	5,120.9	5,150.9	5,120.9	21.4	17.0	-163.67	-188.5	-135.4	683.6	650.8	32.84	20.818			
5,300.0	5,218.8	5,248.8	5,218.8	21.8	17.0	-164.13	-188.5	-135.4	703.1	669.6	33.47	21.005			
5,400.0	5,316.7	5,346.7	5,316.7	22.3	17.1	-164.57	-188.5	-135.4	722.7	688.6	34.11	21.186			
5,500.0	5,414.6	5,444.6	5,414.6	22.7	17.1	-164.99	-188.5	-135.4	742.3	707.5	34.75	21.361			
5,600.0	5,512.6	5,542.6	5,512.6	23.2	17.1	-165.38	-188.5	-135.4	761.9	726.5	35.39	21.529			
5,700.0	5,610.5	5,640.5	5,610.5	23.7	17.2	-165.76	-188.5	-135.4	781.5	745.5	36.03	21.692			
5,800.0	5,708.4	5,738.4	5,708.4	24.1	17.2	-166.11	-188.5	-135.4	801.2	764.6	36.67	21.850			
5,900.0	5,806.3	5,836.3	5,806.3	24.6	17.2	-166.45	-188.5	-135.4	821.0	783.6	37.31	22.003			
6,000.0	5,904.3	5,934.3	5,904.3	25.0	17.3	-166.80	-188.5	-135.4	840.3	802.4	37.93	22.154			
6,100.0	6,002.6	6,032.6	6,002.6	25.5	17.3	-167.12	-188.5	-135.4	858.1	819.6	38.56	22.255			
6,200.0	6,101.3	6,131.3	6,101.3	25.9	17.3	-167.39	-188.5	-135.4	874.3	835.1	39.17	22.319			
6,300.0	6,200.2	6,230.2	6,200.2	26.4	17.4	-167.63	-188.5	-135.4	888.8	849.0	39.77	22.348			
6,400.0	6,299.3	6,329.3	6,299.3	26.8	17.4	-167.84	-188.5	-135.4	901.6	861.2	40.35	22.344			
6,500.0	6,398.6	6,428.6	6,398.6	27.2	17.4	-168.01	-188.5	-135.4	912.7	871.8	40.91	22.308			
6,600.0	6,498.2	6,528.2	6,498.2	27.6	17.5	-168.16	-188.5	-135.4	922.1	880.6	41.45	22.244			
6,700.0	6,597.9	6,627.9	6,597.9	28.0	17.5	-168.27	-188.5	-135.4	929.8	887.8	41.97	22.154			
6,800.0	6,697.7	6,727.7	6,697.7	28.3	17.6	-168.36	-188.5	-135.4	935.8	893.4	42.46	22.041			
6,900.0	6,797.6	6,827.6	6,797.6	28.6	17.6	-168.42	-188.5	-135.4	940.2	897.2	42.91	21.908			
7,000.0	6,897.5	6,927.5	6,897.5	28.9	17.6	-168.46	-188.5	-135.4	942.8	899.4	43.32	21.764			
7,100.0	6,997.5	7,027.5	6,997.5	29.1	17.7	-168.47	-188.5	-135.4	943.7	900.1	43.54	21.674			
7,200.0	7,097.5	7,127.5	7,097.5	29.1	17.7	101.53	-188.5	-135.4	943.7	900.1	43.61	21.640			
7,300.0	7,197.5	7,227.5	7,197.5	29.1	17.7	101.53	-188.5	-135.4	943.7	900.0	43.67	21.607			
7,400.0	7,297.5	7,327.5	7,297.5	29.2	17.8	101.53	-188.5	-135.4	943.7	899.9	43.74	21.575			
7,500.0	7,397.5	7,427.5	7,397.5	29.2	17.8	101.53	-188.5	-135.4	943.7	899.9	43.81	21.542			
7,600.0	7,497.5	7,527.5	7,497.5	29.2	17.9	101.53	-188.5	-135.4	943.7	899.8	43.87	21.509			
7,700.0	7,597.5	7,627.5	7,597.5	29.2	17.9	101.53	-188.5	-135.4	943.7	899.7	43.94	21.476			
7,800.0	7,697.5	7,727.5	7,697.5	29.3	17.9	101.53	-188.5	-135.4	943.7	899.7	44.01	21.443			
7,900.0	7,797.5	7,827.5	7,797.5	29.3	18.0	101.53	-188.5	-135.4	943.7	899.6	44.08	21.409			
8,000.0	7,897.5	7,927.5	7,897.5	29.3	18.0	101.53	-188.5	-135.4	943.7	899.5	44.15	21.376			
8,100.0	7,997.5	8,027.5	7,997.5	29.4	18.1	101.53	-188.5	-135.4	943.7	899.4	44.22	21.342			
8,200.0	8,097.5	8,127.5	8,097.5	29.4	18.1	101.53	-188.5	-135.4	943.7	899.4	44.29	21.308			
8,300.0	8,197.5	8,227.5	8,197.5	29.4	18.1	101.53	-188.5	-135.4	943.7	899.3	44.36	21.275			
8,400.0	8,297.5	8,327.5	8,297.5	29.5	18.2	101.53	-188.5	-135.4	943.7	899.2	44.43	21.241			
8,500.0	8,397.5	8,427.5	8,397.5	29.5	18.2	101.53	-188.5	-135.4	943.7	899.2	44.50	21.207			
8,600.0	8,497.5	8,527.5	8,497.5	29.5	18.3	101.53	-188.5	-135.4	943.7	899.1	44.57	21.172			
8,700.0	8,597.5	8,627.5	8,597.5	29.5	18.3	101.53	-188.5	-135.4	943.7	899.0	44.64	21.138			
8,800.0	8,697.5	8,727.5	8,697.5	29.6	18.4	101.53	-188.5	-135.4	943.7	898.9	44.72	21.104			
8,900.0	8,797.5	8,827.5	8,797.5	29.6	18.4	101.53	-188.5	-135.4	943.7	898.9	44.79	21.069			
9,000.0	8,897.5	8,927.5	8,897.5	29.6	18.4	101.53	-188.5	-135.4	943.7	898.8	44.86	21.034			
9,100.0	8,997.5	9,027.5	8,997.5	29.7	18.5	101.53	-188.5	-135.4	943.7	898.7	44.94	21.000			
9,200.0	9,097.5	9,127.5	9,097.5	29.7	18.5	101.53	-188.5	-135.4	943.7	898.6	45.01	20.965			
9,300.0	9,197.5	9,227.5	9,197.5	29.7	18.6	101.53	-188.5	-135.4	943.7	898.6	45.09	20.930			
9,400.0	9,297.5	9,327.5	9,297.5	29.8	18.6	101.53	-188.5	-135.4	943.7	898.5	45.16	20.895			
9,500.0	9,397.5	9,427.5	9,397.5	29.8	18.7	101.53	-188.5	-135.4	943.7	898.4	45.24	20.860			
9,600.0	9,497.5	9,527.5	9,497.5	29.8	18.7	101.53	-188.5	-135.4	943.7	898.3	45.32	20.824			
9,700.0	9,597.5	9,627.5	9,597.5	29.9	18.8	101.53	-188.5	-135.4	943.7	898.3	45.39	20.789			
9,800.0	9,697.5	9,727.5	9,697.5	29.9	18.8	101.53	-188.5	-135.4	943.7	898.2	45.47	20.754			
9,900.0	9,797.5	9,827.5	9,797.5	29.9	18.8	101.53	-188.5	-135.4	943.7	898.1	45.55	20.718			
10,000.0	9,897.5	9,927.5	9,897.5	30.0	18.9	101.53	-188.5	-135.4	943.7	898.0	45.63	20.683			

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	9,997.5	10,027.5	9,997.5	30.0	18.9	101.53	-188.5	-135.4	943.7	898.0	45.70	20.647		
10,200.0	10,097.5	10,127.5	10,097.5	30.0	19.0	101.53	-188.5	-135.4	943.7	897.9	45.78	20.611		
10,300.0	10,197.5	10,227.5	10,197.5	30.1	19.0	101.53	-188.5	-135.4	943.7	897.8	45.86	20.575		
10,400.0	10,297.5	10,327.5	10,297.5	30.1	19.1	101.53	-188.5	-135.4	943.7	897.7	45.94	20.540		
10,500.0	10,397.5	10,427.5	10,397.5	30.1	19.1	101.53	-188.5	-135.4	943.7	897.6	46.02	20.504		
10,600.0	10,497.5	10,527.5	10,497.5	30.2	19.2	101.53	-188.5	-135.4	943.7	897.6	46.10	20.468		
10,700.0	10,597.5	10,627.5	10,597.5	30.2	19.2	101.53	-188.5	-135.4	943.7	897.5	46.19	20.432		
10,800.0	10,697.5	10,727.5	10,697.5	30.2	19.3	101.53	-188.5	-135.4	943.7	897.4	46.27	20.396		
10,900.0	10,797.5	10,827.5	10,797.5	30.3	19.3	101.53	-188.5	-135.4	943.7	897.3	46.35	20.359		
11,000.0	10,897.5	10,927.5	10,897.5	30.3	19.4	101.53	-188.5	-135.4	943.7	897.2	46.43	20.323		
11,100.0	10,997.5	11,027.5	10,997.5	30.3	19.4	101.53	-188.5	-135.4	943.7	897.1	46.51	20.288		
11,200.0	11,097.5	11,150.5	11,120.4	30.4	19.5	101.30	-184.8	-135.4	943.1	896.4	46.73	20.184		
11,300.0	11,197.5	11,294.9	11,260.2	30.4	19.7	99.24	-150.4	-135.9	938.4	891.2	47.19	19.885		
11,400.0	11,297.5	11,416.2	11,368.0	30.4	19.8	95.89	-95.2	-136.6	930.9	883.4	47.56	19.574		
11,500.0	11,397.4	11,509.0	11,441.2	30.5	19.9	-87.88	-38.4	-137.4	924.3	876.6	47.66	19.392		
11,575.3	11,471.3	11,553.9	11,473.2	30.4	20.0	-90.44	-6.8	-137.9	922.1	874.6	47.58	19.382		
11,600.0	11,494.8	11,564.3	11,480.2	30.4	20.0	-90.99	0.9	-138.0	922.4	874.9	47.53	19.407		
11,700.0	11,585.6	11,589.2	11,496.4	30.4	20.0	-91.57	19.7	-138.2	929.8	882.5	47.28	19.666		
11,800.0	11,665.7	11,592.9	11,498.8	30.5	20.0	-89.59	22.6	-138.3	947.9	900.9	46.98	20.175		
11,900.0	11,731.7	11,582.3	11,492.0	30.5	20.0	-85.47	14.4	-138.2	975.7	929.0	46.68	20.902		
12,000.0	11,780.7	11,562.0	11,478.7	30.5	20.0	-79.86	-0.8	-137.9	1,010.7	964.3	46.37	21.797		
12,100.0	11,810.6	11,535.0	11,460.0	30.6	20.0	-73.52	-20.4	-137.7	1,049.7	1,003.7	46.04	22.802		
12,200.0	11,820.0	11,500.0	11,434.5	30.7	19.9	-67.32	-44.4	-137.3	1,089.8	1,044.2	45.67	23.863		
12,300.0	11,820.0	11,471.9	11,413.0	30.9	19.9	-66.20	-62.5	-137.1	1,132.6	1,087.3	45.31	24.996		
12,400.0	11,820.0	11,450.0	11,395.7	31.0	19.8	-65.31	-75.9	-136.9	1,180.8	1,135.9	44.95	26.273		
12,500.0	11,820.0	11,420.0	11,371.2	31.2	19.8	-64.07	-93.1	-136.7	1,234.0	1,189.4	44.56	27.694		
12,600.0	11,820.0	11,400.0	11,354.3	31.5	19.8	-63.23	-103.9	-136.5	1,291.7	1,247.5	44.19	29.229		
12,700.0	11,820.0	11,379.3	11,336.5	31.7	19.8	-62.36	-114.4	-136.4	1,353.6	1,309.8	43.84	30.875		
12,800.0	11,820.0	11,350.0	11,310.6	32.0	19.7	-61.11	-128.1	-136.2	1,419.4	1,375.9	43.50	32.628		
12,900.0	11,820.0	11,350.0	11,310.6	32.3	19.7	-61.11	-128.1	-136.2	1,488.2	1,445.0	43.22	34.432		
13,000.0	11,820.0	11,332.8	11,295.2	32.7	19.7	-60.39	-135.6	-136.1	1,560.1	1,517.1	42.95	36.327		
13,100.0	11,820.0	11,320.3	11,283.7	33.0	19.7	-59.85	-140.7	-136.0	1,634.6	1,591.9	42.70	38.279		
13,200.0	11,820.0	11,300.0	11,265.0	33.4	19.7	-58.99	-148.5	-135.9	1,711.5	1,669.0	42.48	40.291		
13,300.0	11,820.0	11,300.0	11,265.0	33.8	19.7	-58.99	-148.5	-135.9	1,790.3	1,748.0	42.29	42.330		
13,400.0	11,820.0	11,300.0	11,265.0	34.3	19.7	-58.99	-148.5	-135.9	1,871.1	1,829.0	42.13	44.413		
13,500.0	11,820.0	11,280.1	11,246.4	34.7	19.6	-58.15	-155.5	-135.8	1,953.3	1,911.4	41.98	46.531		
13,600.0	11,820.0	11,272.1	11,238.8	35.2	19.6	-57.82	-158.1	-135.8	2,037.1	1,995.3	41.85	48.673		
13,700.0	11,820.0	11,250.0	11,217.7	35.7	19.6	-56.89	-164.8	-135.7	2,122.4	2,080.7	41.74	50.844		
13,800.0	11,820.0	11,250.0	11,217.7	36.2	19.6	-56.89	-164.8	-135.7	2,208.5	2,166.8	41.65	53.018		
13,900.0	11,820.0	11,250.0	11,217.7	36.8	19.6	-56.89	-164.8	-135.7	2,295.6	2,254.1	41.58	55.209		
14,000.0	11,820.0	11,250.0	11,217.7	37.3	19.6	-56.89	-164.8	-135.7	2,383.8	2,342.3	41.52	57.414		
14,100.0	11,820.0	11,250.0	11,217.7	37.9	19.6	-56.89	-164.8	-135.7	2,472.9	2,431.5	41.47	59.629		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	2.9	0.0	3.0	3.0	15.73		200.7	56.5	208.5	202.1	6.43	32.434	
100.0	100.0	102.9	100.0	3.2	3.1	15.73		200.7	56.5	208.5	201.8	6.72	31.040	
200.0	200.0	202.9	200.0	3.5	3.2	15.73		200.7	56.5	208.5	201.5	7.06	29.520	
300.0	300.0	302.9	300.0	3.7	3.3	15.73		200.7	56.5	208.5	201.1	7.40	28.191	
400.0	400.0	402.9	400.0	3.9	3.4	15.73		200.7	56.5	208.5	200.8	7.72	27.012	
500.0	500.0	502.9	500.0	4.1	3.6	15.73		200.7	56.5	208.5	200.5	8.03	25.958	
600.0	600.0	602.9	600.0	4.2	3.7	15.73		200.7	56.5	208.5	200.2	8.34	25.007	
700.0	700.0	702.9	700.0	4.4	3.8	15.73		200.7	56.5	208.5	199.9	8.64	24.143	
800.0	800.0	802.9	800.0	4.6	3.9	15.73		200.7	56.5	208.5	199.6	8.93	23.354	
900.0	900.0	902.9	900.0	4.8	4.0	15.73		200.7	56.5	208.5	199.3	9.21	22.628	
1,000.0	1,000.0	1,003.1	1,000.2	4.9	4.2	15.73		200.7	56.5	208.5	199.0	9.50	21.954	
1,100.0	1,100.0	1,108.4	1,105.5	5.2	4.4	106.64		198.9	57.5	207.6	197.8	9.82	21.138	
1,200.0	1,199.8	1,213.1	1,210.0	5.4	4.7	109.31		193.8	60.4	205.4	195.2	10.19	20.151	
1,300.0	1,299.5	1,316.7	1,313.1	5.7	5.0	113.78		185.4	65.0	202.7	192.1	10.56	19.200	
1,400.0	1,398.7	1,417.7	1,413.4	6.0	5.3	119.92		174.2	71.3	200.9	190.0	10.92	18.402	
1,407.7	1,406.3	1,425.2	1,420.8	6.0	5.4	120.43		173.3	71.8	200.9	190.0	10.95	18.354	CC, ES
1,500.0	1,497.5	1,514.5	1,509.2	6.3	5.6	126.80		162.4	77.8	203.0	191.7	11.30	17.971	SF
1,600.0	1,595.6	1,610.4	1,604.2	6.6	5.8	133.99		150.7	84.3	210.6	198.9	11.68	18.032	
1,700.0	1,693.6	1,706.0	1,698.8	6.9	6.1	140.88		139.1	90.7	222.5	210.3	12.16	18.290	
1,800.0	1,791.5	1,801.6	1,793.5	7.2	6.4	147.04		127.4	97.2	237.4	224.7	12.65	18.767	
1,900.0	1,889.4	1,897.2	1,888.2	7.5	6.7	152.46		115.8	103.6	254.8	241.7	13.17	19.345	
2,000.0	1,987.3	1,992.8	1,982.8	7.8	7.0	157.18		104.2	110.1	274.3	260.6	13.73	19.981	
2,100.0	2,085.2	2,088.4	2,077.5	8.1	7.4	161.28		92.5	116.5	295.4	281.1	14.31	20.642	
2,200.0	2,183.2	2,184.0	2,172.2	8.5	7.7	164.84		80.9	123.0	317.8	302.9	14.92	21.306	
2,300.0	2,281.1	2,279.6	2,266.9	8.9	8.0	167.94		69.3	129.4	341.3	325.8	15.54	21.960	
2,400.0	2,379.0	2,375.2	2,361.5	9.2	8.4	170.64		57.6	135.9	365.6	349.4	16.18	22.594	
2,500.0	2,476.9	2,470.8	2,456.2	9.6	8.8	173.01		46.0	142.3	390.6	373.8	16.83	23.203	
2,600.0	2,574.9	2,566.4	2,550.9	10.0	9.1	175.10		34.3	148.8	416.2	398.7	17.50	23.783	
2,700.0	2,672.8	2,662.0	2,645.5	10.4	9.5	176.95		22.7	155.2	442.2	424.1	18.17	24.334	
2,800.0	2,770.7	2,757.6	2,740.2	10.8	9.8	178.60		11.1	161.7	468.6	449.8	18.86	24.855	
2,900.0	2,868.6	2,853.2	2,834.9	11.2	10.2	-179.93		-0.6	168.1	495.4	475.9	19.55	25.346	
3,000.0	2,966.6	2,948.8	2,929.6	11.6	10.6	-178.61		-12.2	174.6	522.4	502.2	20.24	25.810	
3,100.0	3,064.5	3,044.4	3,024.2	12.0	11.0	-177.41		-23.8	181.0	549.7	528.8	20.94	26.247	
3,200.0	3,162.4	3,140.0	3,118.9	12.5	11.4	-176.33		-35.5	187.5	577.2	555.5	21.65	26.659	
3,300.0	3,260.3	3,235.6	3,213.6	12.9	11.7	-175.35		-47.1	193.9	604.8	582.4	22.36	27.047	
3,400.0	3,358.2	3,331.2	3,308.2	13.3	12.1	-174.45		-58.8	200.4	632.6	609.5	23.08	27.413	
3,500.0	3,456.2	3,426.8	3,402.9	13.8	12.5	-173.63		-70.4	206.8	660.5	636.7	23.80	27.758	
3,600.0	3,554.1	3,522.4	3,497.6	14.2	12.9	-172.87		-82.0	213.3	688.6	664.0	24.52	28.083	
3,700.0	3,652.0	3,618.0	3,592.3	14.6	13.3	-172.17		-93.7	219.7	716.7	691.5	25.24	28.391	
3,800.0	3,749.9	3,713.6	3,686.9	15.1	13.7	-171.53		-105.3	226.2	745.0	719.0	25.97	28.682	
3,900.0	3,847.9	3,809.2	3,781.6	15.5	14.1	-170.93		-116.9	232.6	773.3	746.6	26.70	28.957	
4,000.0	3,945.8	3,904.9	3,876.3	16.0	14.5	-170.37		-128.6	239.1	801.7	774.2	27.44	29.218	
4,100.0	4,043.7	4,000.5	3,970.9	16.4	14.9	-169.85		-140.2	245.5	830.1	801.9	28.17	29.465	
4,200.0	4,141.6	4,103.3	4,072.9	16.8	15.3	-169.36		-152.3	252.2	858.3	829.4	28.94	29.662	
4,300.0	4,239.6	4,209.8	4,178.6	17.3	15.7	-168.98		-163.2	258.2	885.5	855.8	29.74	29.779	
4,400.0	4,337.5	4,317.1	4,285.4	17.7	16.1	-168.72		-172.4	263.3	911.6	881.0	30.52	29.864	
4,500.0	4,435.4	4,425.1	4,393.1	18.2	16.5	-168.58		-179.9	267.5	936.5	905.2	31.30	29.920	
4,600.0	4,533.3	4,533.9	4,501.7	18.6	16.9	-168.54		-185.6	270.7	960.2	928.1	32.06	29.953	
4,700.0	4,631.2	4,643.3	4,611.0	19.1	17.2	-168.59		-189.6	272.9	982.7	949.9	32.79	29.966	
4,800.0	4,729.2	4,753.2	4,720.9	19.5	17.5	-168.74		-191.8	274.1	1,004.0	970.5	33.50	29.969	
4,900.0	4,827.1	4,859.5	4,827.1	20.0	17.7	-168.96		-192.2	274.3	1,024.2	990.1	34.11	30.030	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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)			
5,000.0	4,925.0	4,957.4	4,925.0	20.5	17.7	-169.17	-192.2	274.3	1,044.1	1,009.4	34.63	30.148		
5,100.0	5,022.9	5,055.3	5,022.9	20.9	17.7	-169.38	-192.2	274.3	1,064.0	1,028.8	35.17	30.254		
5,200.0	5,120.9	5,153.2	5,120.9	21.4	17.8	-169.57	-192.2	274.3	1,084.0	1,048.3	35.71	30.352		
5,300.0	5,218.8	5,251.1	5,218.8	21.8	17.8	-169.77	-192.2	274.3	1,103.9	1,067.7	36.26	30.444		
5,400.0	5,316.7	5,349.1	5,316.7	22.3	17.8	-169.95	-192.2	274.3	1,123.9	1,087.1	36.81	30.529		
5,500.0	5,414.6	5,447.0	5,414.6	22.7	17.9	-170.13	-192.2	274.3	1,143.9	1,106.5	37.37	30.608		
5,600.0	5,512.6	5,544.9	5,512.6	23.2	17.9	-170.30	-192.2	274.3	1,163.9	1,125.9	37.93	30.681		
5,700.0	5,610.5	5,642.8	5,610.5	23.7	17.9	-170.46	-192.2	274.3	1,183.9	1,145.4	38.50	30.749		
5,800.0	5,708.4	5,740.8	5,708.4	24.1	18.0	-170.62	-192.2	274.3	1,203.9	1,164.8	39.07	30.813		
5,900.0	5,806.3	5,838.7	5,806.3	24.6	18.0	-170.78	-192.2	274.3	1,223.9	1,184.3	39.64	30.872		
6,000.0	5,904.3	5,936.7	5,904.3	25.0	18.0	-170.94	-192.2	274.3	1,243.5	1,203.3	40.20	30.932		
6,100.0	6,002.6	6,035.0	6,002.6	25.5	18.0	-171.10	-192.2	274.3	1,261.6	1,220.8	40.77	30.943		
6,200.0	6,101.3	6,133.6	6,101.3	25.9	18.1	-171.24	-192.2	274.3	1,277.9	1,236.6	41.33	30.919		
6,300.0	6,200.2	6,232.5	6,200.2	26.4	18.1	-171.37	-192.2	274.3	1,292.6	1,250.7	41.88	30.863		
6,400.0	6,299.3	6,331.7	6,299.3	26.8	18.1	-171.47	-192.2	274.3	1,305.6	1,263.1	42.42	30.776		
6,500.0	6,398.6	6,431.0	6,398.6	27.2	18.2	-171.56	-192.2	274.3	1,316.8	1,273.8	42.95	30.661		
6,600.0	6,498.2	6,530.5	6,498.2	27.6	18.2	-171.64	-192.2	274.3	1,326.3	1,282.9	43.46	30.521		
6,700.0	6,597.9	6,630.2	6,597.9	28.0	18.3	-171.70	-192.2	274.3	1,334.1	1,290.2	43.94	30.360		
6,800.0	6,697.7	6,730.0	6,697.7	28.3	18.3	-171.74	-192.2	274.3	1,340.2	1,295.8	44.41	30.179		
6,900.0	6,797.6	6,829.9	6,797.6	28.6	18.3	-171.78	-192.2	274.3	1,344.6	1,299.7	44.84	29.985		
7,000.0	6,897.5	6,929.9	6,897.5	28.9	18.4	-171.80	-192.2	274.3	1,347.2	1,302.0	45.23	29.785		
7,100.0	6,997.5	7,029.9	6,997.5	29.1	18.4	-171.80	-192.2	274.3	1,348.1	1,302.7	45.44	29.665		
7,200.0	7,097.5	7,129.9	7,097.5	29.1	18.4	98.20	-192.2	274.3	1,348.1	1,302.6	45.51	29.623		
7,300.0	7,197.5	7,229.9	7,197.5	29.1	18.5	98.20	-192.2	274.3	1,348.1	1,302.5	45.57	29.583		
7,400.0	7,297.5	7,329.9	7,297.5	29.2	18.5	98.20	-192.2	274.3	1,348.1	1,302.5	45.63	29.542		
7,500.0	7,397.5	7,429.9	7,397.5	29.2	18.5	98.20	-192.2	274.3	1,348.1	1,302.4	45.70	29.501		
7,600.0	7,497.5	7,529.9	7,497.5	29.2	18.6	98.20	-192.2	274.3	1,348.1	1,302.3	45.76	29.460		
7,700.0	7,597.5	7,629.9	7,597.5	29.2	18.6	98.20	-192.2	274.3	1,348.1	1,302.3	45.83	29.418		
7,800.0	7,697.5	7,729.9	7,697.5	29.3	18.7	98.20	-192.2	274.3	1,348.1	1,302.2	45.89	29.377		
7,900.0	7,797.5	7,829.9	7,797.5	29.3	18.7	98.20	-192.2	274.3	1,348.1	1,302.2	45.96	29.335		
8,000.0	7,897.5	7,929.9	7,897.5	29.3	18.7	98.20	-192.2	274.3	1,348.1	1,302.1	46.02	29.293		
8,100.0	7,997.5	8,029.9	7,997.5	29.4	18.8	98.20	-192.2	274.3	1,348.1	1,302.0	46.09	29.251		
8,200.0	8,097.5	8,129.9	8,097.5	29.4	18.8	98.20	-192.2	274.3	1,348.1	1,302.0	46.15	29.209		
8,300.0	8,197.5	8,229.9	8,197.5	29.4	18.8	98.20	-192.2	274.3	1,348.1	1,301.9	46.22	29.166		
8,400.0	8,297.5	8,329.9	8,297.5	29.5	18.9	98.20	-192.2	274.3	1,348.1	1,301.8	46.29	29.124		
8,500.0	8,397.5	8,429.9	8,397.5	29.5	18.9	98.20	-192.2	274.3	1,348.1	1,301.8	46.36	29.081		
8,600.0	8,497.5	8,529.9	8,497.5	29.5	19.0	98.20	-192.2	274.3	1,348.1	1,301.7	46.43	29.038		
8,700.0	8,597.5	8,629.9	8,597.5	29.5	19.0	98.20	-192.2	274.3	1,348.1	1,301.6	46.50	28.995		
8,800.0	8,697.5	8,729.9	8,697.5	29.6	19.0	98.20	-192.2	274.3	1,348.1	1,301.5	46.56	28.951		
8,900.0	8,797.5	8,829.9	8,797.5	29.6	19.1	98.20	-192.2	274.3	1,348.1	1,301.5	46.63	28.908		
9,000.0	8,897.5	8,929.9	8,897.5	29.6	19.1	98.20	-192.2	274.3	1,348.1	1,301.4	46.71	28.864		
9,100.0	8,997.5	9,029.9	8,997.5	29.7	19.2	98.20	-192.2	274.3	1,348.1	1,301.3	46.78	28.820		
9,200.0	9,097.5	9,129.9	9,097.5	29.7	19.2	98.20	-192.2	274.3	1,348.1	1,301.3	46.85	28.777		
9,300.0	9,197.5	9,229.9	9,197.5	29.7	19.2	98.20	-192.2	274.3	1,348.1	1,301.2	46.92	28.732		
9,400.0	9,297.5	9,329.9	9,297.5	29.8	19.3	98.20	-192.2	274.3	1,348.1	1,301.1	46.99	28.688		
9,500.0	9,397.5	9,429.9	9,397.5	29.8	19.3	98.20	-192.2	274.3	1,348.1	1,301.0	47.06	28.644		
9,600.0	9,497.5	9,529.9	9,497.5	29.8	19.4	98.20	-192.2	274.3	1,348.1	1,301.0	47.14	28.600		
9,700.0	9,597.5	9,629.9	9,597.5	29.9	19.4	98.20	-192.2	274.3	1,348.1	1,300.9	47.21	28.555		
9,800.0	9,697.5	9,729.9	9,697.5	29.9	19.5	98.20	-192.2	274.3	1,348.1	1,300.8	47.29	28.510		
9,900.0	9,797.5	9,829.9	9,797.5	29.9	19.5	98.20	-192.2	274.3	1,348.1	1,300.7	47.36	28.465		
10,000.0	9,897.5	9,929.9	9,897.5	30.0	19.5	98.20	-192.2	274.3	1,348.1	1,300.7	47.43	28.420		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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										Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset 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)			
10,100.0	9,997.5	10,029.9	9,997.5	30.0	19.6	98.20	-192.2	274.3	1,348.1	1,300.6	47.51	28.375	
10,200.0	10,097.5	10,129.9	10,097.5	30.0	19.6	98.20	-192.2	274.3	1,348.1	1,300.5	47.59	28.330	
10,300.0	10,197.5	10,229.9	10,197.5	30.1	19.7	98.20	-192.2	274.3	1,348.1	1,300.4	47.66	28.285	
10,400.0	10,297.5	10,329.9	10,297.5	30.1	19.7	98.20	-192.2	274.3	1,348.1	1,300.4	47.74	28.240	
10,500.0	10,397.5	10,429.9	10,397.5	30.1	19.8	98.20	-192.2	274.3	1,348.1	1,300.3	47.82	28.194	
10,600.0	10,497.5	10,529.9	10,497.5	30.2	19.8	98.20	-192.2	274.3	1,348.1	1,300.2	47.89	28.148	
10,700.0	10,597.5	10,629.9	10,597.5	30.2	19.9	98.20	-192.2	274.3	1,348.1	1,300.1	47.97	28.103	
10,800.0	10,697.5	10,729.9	10,697.5	30.2	19.9	98.20	-192.2	274.3	1,348.1	1,300.1	48.05	28.057	
10,900.0	10,797.5	10,829.9	10,797.5	30.3	20.0	98.20	-192.2	274.3	1,348.1	1,300.0	48.13	28.011	
11,000.0	10,897.5	10,937.7	10,905.3	30.3	20.0	98.18	-191.8	274.3	1,348.1	1,299.8	48.22	27.956	
11,100.0	10,997.5	11,090.6	11,055.5	30.3	20.1	97.09	-166.0	274.0	1,345.5	1,297.1	48.39	27.806	
11,200.0	11,097.5	11,221.9	11,175.3	30.4	20.3	94.83	-112.7	273.2	1,340.2	1,291.8	48.41	27.685	
11,300.0	11,197.5	11,325.6	11,259.3	30.4	20.4	92.25	-52.3	272.3	1,334.8	1,286.5	48.28	27.646	
11,400.0	11,297.5	11,404.7	11,315.3	30.4	20.5	89.85	3.5	271.5	1,331.7	1,283.6	48.04	27.718	
11,429.8	11,327.4	11,423.9	11,327.8	30.4	20.5	-90.55	18.2	271.3	1,331.5	1,283.5	47.95	27.769	
11,500.0	11,397.4	11,462.4	11,351.1	30.5	20.6	-91.74	48.8	270.9	1,332.7	1,285.0	47.71	27.935	
11,600.0	11,494.8	11,493.1	11,368.2	30.4	20.6	-92.06	74.2	270.5	1,340.1	1,292.8	47.31	28.326	
11,700.0	11,585.6	11,500.0	11,371.9	30.4	20.6	-90.53	80.1	270.4	1,355.2	1,308.3	46.89	28.899	
11,800.0	11,665.7	11,500.0	11,371.9	30.5	20.6	-87.78	80.1	270.4	1,377.5	1,331.0	46.45	29.655	
11,900.0	11,731.7	11,480.7	11,361.5	30.5	20.6	-83.49	63.9	270.7	1,405.5	1,359.5	46.01	30.550	
12,000.0	11,780.7	11,450.0	11,343.8	30.5	20.6	-78.38	38.7	271.0	1,437.3	1,391.7	45.56	31.550	
12,100.0	11,810.6	11,428.5	11,330.7	30.6	20.5	-73.61	21.7	271.3	1,470.3	1,425.3	45.07	32.621	
12,200.0	11,820.0	11,400.0	11,312.3	30.7	20.5	-69.13	0.0	271.6	1,502.6	1,458.0	44.59	33.700	
12,300.0	11,820.0	11,350.0	11,277.4	30.9	20.4	-67.84	-35.9	272.1	1,536.4	1,492.3	44.14	34.812	
12,400.0	11,820.0	11,335.2	11,266.5	31.0	20.4	-67.44	-45.9	272.2	1,574.2	1,530.6	43.67	36.051	
12,500.0	11,820.0	11,300.0	11,239.6	31.2	20.4	-66.46	-68.6	272.6	1,616.4	1,573.2	43.23	37.392	
12,600.0	11,820.0	11,300.0	11,239.6	31.5	20.4	-66.46	-68.6	272.6	1,662.7	1,619.9	42.80	38.845	
12,700.0	11,820.0	11,250.0	11,199.1	31.7	20.3	-65.02	-97.9	273.0	1,712.6	1,670.2	42.42	40.373	
12,800.0	11,820.0	11,250.0	11,199.1	32.0	20.3	-65.02	-97.9	273.0	1,766.0	1,724.0	42.06	41.988	
12,900.0	11,820.0	11,228.7	11,181.1	32.3	20.3	-64.39	-109.2	273.2	1,823.0	1,781.2	41.74	43.676	
13,000.0	11,820.0	11,200.0	11,156.2	32.7	20.3	-63.53	-123.5	273.4	1,883.2	1,841.7	41.45	45.434	
13,100.0	11,820.0	11,200.0	11,156.2	33.0	20.3	-63.53	-123.5	273.4	1,946.0	1,904.8	41.20	47.235	
13,200.0	11,820.0	11,200.0	11,156.2	33.4	20.3	-63.53	-123.5	273.4	2,011.9	1,970.9	40.98	49.090	
13,300.0	11,820.0	11,173.5	11,132.6	33.8	20.2	-62.72	-135.5	273.5	2,079.8	2,039.0	40.79	50.984	
13,400.0	11,820.0	11,150.0	11,111.2	34.3	20.2	-62.00	-145.3	273.7	2,150.3	2,109.7	40.63	52.921	
13,500.0	11,820.0	11,150.0	11,111.2	34.7	20.2	-62.00	-145.3	273.7	2,222.6	2,182.1	40.51	54.870	
13,600.0	11,820.0	11,150.0	11,111.2	35.2	20.2	-62.00	-145.3	273.7	2,297.0	2,256.6	40.41	56.848	
13,700.0	11,820.0	11,150.0	11,111.2	35.7	20.2	-62.00	-145.3	273.7	2,373.3	2,333.0	40.33	58.848	
13,800.0	11,820.0	11,126.0	11,089.0	36.2	20.2	-61.26	-154.3	273.8	2,450.8	2,410.5	40.27	60.865	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	3.4	0.0	3.0	3.0	23.22	23.22	201.2	86.3	218.9	212.5	6.43	34.050	
100.0	100.0	103.4	100.0	3.2	3.1	23.22	23.22	201.2	86.3	218.9	212.2	6.72	32.584	
200.0	200.0	203.4	200.0	3.5	3.2	23.22	23.22	201.2	86.3	218.9	211.8	7.06	30.991	
300.0	300.0	303.4	300.0	3.7	3.3	23.22	23.22	201.2	86.3	218.9	211.5	7.40	29.597	
400.0	400.0	403.4	400.0	3.9	3.4	23.22	23.22	201.2	86.3	218.9	211.2	7.72	28.363	
500.0	500.0	503.4	500.0	4.1	3.6	23.22	23.22	201.2	86.3	218.9	210.9	8.03	27.260	
600.0	600.0	603.4	600.0	4.2	3.7	23.22	23.22	201.2	86.3	218.9	210.6	8.33	26.265	
700.0	700.0	703.4	700.0	4.4	3.8	23.22	23.22	201.2	86.3	218.9	210.3	8.63	25.361	
800.0	800.0	803.4	800.0	4.6	3.9	23.22	23.22	201.2	86.3	218.9	210.0	8.92	24.535	
900.0	900.0	903.4	900.0	4.8	4.0	23.22	23.22	201.2	86.3	218.9	209.7	9.21	23.777	
1,000.0	1,000.0	1,003.4	1,000.0	4.9	4.2	23.22	23.22	201.2	86.3	218.9	209.4	9.49	23.075	
1,004.4	1,004.4	1,008.0	1,004.6	4.9	4.2	113.22	113.22	201.2	86.3	218.9	209.4	9.50	23.042	CC, ES
1,100.0	1,100.0	1,104.6	1,101.2	5.2	4.3	114.13	114.13	200.1	87.9	219.3	209.5	9.76	22.464	
1,200.0	1,199.8	1,205.1	1,201.6	5.4	4.6	116.73	116.73	197.2	92.5	220.8	210.7	10.09	21.881	
1,300.0	1,299.5	1,304.3	1,300.3	5.7	4.9	120.87	120.87	192.4	99.8	224.4	214.0	10.43	21.506	
1,400.0	1,398.7	1,401.4	1,396.7	6.0	5.2	126.21	126.21	185.9	109.9	231.4	220.5	10.81	21.399	SF
1,500.0	1,497.5	1,497.4	1,491.7	6.3	5.5	132.05	132.05	178.6	121.1	242.9	231.7	11.25	21.601	
1,600.0	1,595.6	1,592.4	1,585.8	6.6	5.7	137.74	137.74	171.4	132.1	259.6	247.9	11.69	22.203	
1,700.0	1,693.6	1,687.0	1,679.5	6.9	6.0	143.07	143.07	164.2	143.2	279.7	267.5	12.23	22.865	
1,800.0	1,791.5	1,781.6	1,773.2	7.2	6.3	147.68	147.68	157.1	154.2	302.0	289.3	12.78	23.638	
1,900.0	1,889.4	1,876.2	1,866.9	7.5	6.6	151.67	151.67	149.9	165.3	326.0	312.7	13.36	24.411	
2,000.0	1,987.3	1,970.8	1,960.5	7.8	6.9	155.13	155.13	142.7	176.3	351.4	337.4	13.96	25.163	
2,100.0	2,085.2	2,065.4	2,054.2	8.1	7.2	158.13	158.13	135.6	187.4	377.8	363.2	14.60	25.879	
2,200.0	2,183.2	2,160.0	2,147.9	8.5	7.6	160.74	160.74	128.4	198.4	405.1	389.9	15.26	26.554	
2,300.0	2,281.1	2,254.6	2,241.6	8.9	7.9	163.03	163.03	121.2	209.4	433.1	417.2	15.93	27.186	
2,400.0	2,379.0	2,349.2	2,335.3	9.2	8.3	165.05	165.05	114.0	220.5	461.7	445.1	16.62	27.773	
2,500.0	2,476.9	2,443.8	2,428.9	9.6	8.6	166.84	166.84	106.9	231.5	490.7	473.4	17.33	28.318	
2,600.0	2,574.9	2,538.4	2,522.6	10.0	9.0	168.42	168.42	99.7	242.6	520.2	502.1	18.05	28.824	
2,700.0	2,672.8	2,633.0	2,616.3	10.4	9.3	169.84	169.84	92.5	253.6	550.0	531.2	18.78	29.291	
2,800.0	2,770.7	2,727.6	2,710.0	10.8	9.7	171.12	171.12	85.4	264.6	580.0	560.5	19.51	29.725	
2,900.0	2,868.6	2,822.2	2,803.7	11.2	10.1	172.27	172.27	78.2	275.7	610.3	590.1	20.26	30.126	
3,000.0	2,966.6	2,916.8	2,897.4	11.6	10.4	173.32	173.32	71.0	286.7	640.9	619.8	21.01	30.499	
3,100.0	3,064.5	3,011.4	2,991.0	12.0	10.8	174.27	174.27	63.8	297.8	671.5	649.8	21.77	30.845	
3,200.0	3,162.4	3,106.0	3,084.7	12.5	11.2	175.13	175.13	56.7	308.8	702.4	679.9	22.54	31.167	
3,300.0	3,260.3	3,200.6	3,178.4	12.9	11.6	175.93	175.93	49.5	319.9	733.4	710.1	23.31	31.466	
3,400.0	3,358.2	3,295.2	3,272.1	13.3	12.0	176.66	176.66	42.3	330.9	764.5	740.4	24.08	31.746	
3,500.0	3,456.2	3,389.8	3,365.8	13.8	12.3	177.33	177.33	35.2	341.9	795.7	770.8	24.86	32.007	
3,600.0	3,554.1	3,484.4	3,459.5	14.2	12.7	177.96	177.96	28.0	353.0	827.0	801.3	25.64	32.251	
3,700.0	3,652.0	3,579.0	3,553.1	14.6	13.1	178.54	178.54	20.8	364.0	858.3	831.9	26.43	32.480	
3,800.0	3,749.9	3,673.7	3,646.8	15.1	13.5	179.07	179.07	13.6	375.1	889.8	862.6	27.21	32.694	
3,900.0	3,847.9	3,768.3	3,740.5	15.5	13.9	179.58	179.58	6.5	386.1	921.3	893.3	28.01	32.896	
4,000.0	3,945.8	3,862.9	3,834.2	16.0	14.3	-179.96	-179.96	-0.7	397.2	952.9	924.1	28.80	33.086	
4,100.0	4,043.7	3,957.5	3,927.9	16.4	14.7	-179.52	-179.52	-7.9	408.2	984.5	954.9	29.60	33.265	
4,200.0	4,141.6	4,052.1	4,021.6	16.8	15.1	-179.11	-179.11	-15.0	419.2	1,016.2	985.8	30.39	33.433	
4,300.0	4,239.6	4,146.7	4,115.2	17.3	15.4	-178.72	-178.72	-22.2	430.3	1,047.9	1,016.7	31.19	33.593	
4,400.0	4,337.5	4,241.3	4,208.9	17.7	15.8	-178.36	-178.36	-29.4	441.3	1,079.7	1,047.7	32.00	33.743	
4,500.0	4,435.4	4,335.9	4,302.6	18.2	16.2	-178.01	-178.01	-36.5	452.4	1,111.5	1,078.7	32.80	33.886	
4,600.0	4,533.3	4,430.5	4,396.3	18.6	16.6	-177.69	-177.69	-43.7	463.4	1,143.3	1,109.7	33.61	34.021	
4,700.0	4,631.2	4,525.1	4,490.0	19.1	17.0	-177.38	-177.38	-50.9	474.4	1,175.2	1,140.7	34.41	34.150	
4,800.0	4,729.2	4,619.7	4,583.7	19.5	17.4	-177.09	-177.09	-58.1	485.5	1,207.1	1,171.8	35.22	34.272	
4,900.0	4,827.1	4,714.3	4,677.3	20.0	17.8	-176.82	-176.82	-65.2	496.5	1,239.0	1,202.9	36.03	34.388	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (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)			
5,000.0	4,925.0	4,808.9	4,771.0	20.5	18.2	-176.55	-72.4	507.6	1,270.9	1,234.1	36.84	34.499		
5,100.0	5,022.9	4,903.5	4,864.7	20.9	18.6	-176.30	-79.6	518.6	1,302.9	1,265.2	37.65	34.604		
5,200.0	5,120.9	4,998.1	4,958.4	21.4	19.0	-176.07	-86.7	529.7	1,334.9	1,296.4	38.46	34.704		
5,300.0	5,218.8	5,092.7	5,052.1	21.8	19.4	-175.84	-93.9	540.7	1,366.9	1,327.6	39.28	34.800		
5,400.0	5,316.7	5,187.3	5,145.8	22.3	19.8	-175.63	-101.1	551.7	1,398.9	1,358.8	40.09	34.892		
5,500.0	5,414.6	5,281.9	5,239.4	22.7	20.2	-175.42	-108.3	562.8	1,431.0	1,390.1	40.91	34.979		
5,600.0	5,512.6	5,376.5	5,333.1	23.2	20.6	-175.22	-115.4	573.8	1,463.0	1,421.3	41.73	35.063		
5,700.0	5,610.5	5,471.1	5,426.8	23.7	21.0	-175.03	-122.6	584.9	1,495.1	1,452.6	42.54	35.144		
5,800.0	5,708.4	5,568.9	5,523.7	24.1	21.4	-174.85	-130.0	596.3	1,527.2	1,483.8	43.37	35.211		
5,900.0	5,806.3	5,676.6	5,630.4	24.6	21.9	-174.66	-137.7	608.2	1,558.7	1,514.4	44.28	35.198		
6,000.0	5,904.3	5,785.0	5,738.0	25.0	22.3	-174.53	-145.0	619.4	1,589.0	1,543.8	45.18	35.172		
6,100.0	6,002.6	5,894.5	5,846.8	25.5	22.8	-174.41	-151.8	629.8	1,617.0	1,570.9	46.08	35.092		
6,200.0	6,101.3	6,005.1	5,956.8	25.9	23.2	-174.31	-158.0	639.4	1,642.5	1,595.5	46.96	34.973		
6,300.0	6,200.2	6,116.7	6,067.9	26.4	23.6	-174.22	-163.7	648.2	1,665.5	1,617.6	47.83	34.818		
6,400.0	6,299.3	6,229.2	6,180.0	26.8	24.1	-174.14	-168.9	656.2	1,685.9	1,637.2	48.68	34.631		
6,500.0	6,398.6	6,342.5	6,293.0	27.2	24.5	-174.07	-173.5	663.3	1,703.8	1,654.3	49.51	34.413		
6,600.0	6,498.2	6,456.5	6,406.7	27.6	24.9	-174.01	-177.5	669.5	1,719.1	1,668.8	50.31	34.170		
6,700.0	6,597.9	6,571.0	6,521.0	28.0	25.3	-173.96	-180.9	674.7	1,731.8	1,680.7	51.08	33.905		
6,800.0	6,697.7	6,686.0	6,635.9	28.3	25.7	-173.92	-183.7	679.0	1,741.9	1,690.1	51.81	33.623		
6,900.0	6,797.6	6,801.4	6,751.3	28.6	26.1	-173.89	-185.9	682.4	1,749.3	1,696.9	52.49	33.328		
7,000.0	6,897.5	6,917.1	6,866.9	28.9	26.4	-173.86	-187.5	684.8	1,754.2	1,701.1	53.11	33.032		
7,100.0	6,997.5	7,032.9	6,982.7	29.1	26.7	-173.84	-188.4	686.2	1,756.4	1,702.9	53.54	32.808		
7,200.0	7,097.5	7,147.7	7,097.5	29.1	26.9	96.17	-188.7	686.6	1,756.8	1,703.0	53.74	32.688		
7,300.0	7,197.5	7,247.7	7,197.5	29.1	26.9	96.17	-188.7	686.6	1,756.8	1,703.0	53.79	32.663		
7,400.0	7,297.5	7,347.7	7,297.5	29.2	26.9	96.17	-188.7	686.6	1,756.8	1,703.0	53.83	32.634		
7,500.0	7,397.5	7,447.7	7,397.5	29.2	26.9	96.17	-188.7	686.6	1,756.8	1,702.9	53.88	32.604		
7,600.0	7,497.5	7,547.7	7,497.5	29.2	26.9	96.17	-188.7	686.6	1,756.8	1,702.9	53.93	32.575		
7,700.0	7,597.5	7,647.7	7,597.5	29.2	27.0	96.17	-188.7	686.6	1,756.8	1,702.8	53.98	32.545		
7,800.0	7,697.5	7,747.7	7,697.5	29.3	27.0	96.17	-188.7	686.6	1,756.8	1,702.8	54.03	32.515		
7,900.0	7,797.5	7,847.7	7,797.5	29.3	27.0	96.17	-188.7	686.6	1,756.8	1,702.7	54.08	32.484		
8,000.0	7,897.5	7,947.7	7,897.5	29.3	27.0	96.17	-188.7	686.6	1,756.8	1,702.7	54.13	32.454		
8,100.0	7,997.5	8,047.7	7,997.5	29.4	27.0	96.17	-188.7	686.6	1,756.8	1,702.6	54.18	32.423		
8,200.0	8,097.5	8,147.7	8,097.5	29.4	27.1	96.17	-188.7	686.6	1,756.8	1,702.6	54.24	32.392		
8,300.0	8,197.5	8,247.7	8,197.5	29.4	27.1	96.17	-188.7	686.6	1,756.8	1,702.5	54.29	32.361		
8,400.0	8,297.5	8,347.7	8,297.5	29.5	27.1	96.17	-188.7	686.6	1,756.8	1,702.4	54.34	32.330		
8,500.0	8,397.5	8,447.7	8,397.5	29.5	27.1	96.17	-188.7	686.6	1,756.8	1,702.4	54.39	32.298		
8,600.0	8,497.5	8,547.7	8,497.5	29.5	27.2	96.17	-188.7	686.6	1,756.8	1,702.3	54.45	32.266		
8,700.0	8,597.5	8,647.7	8,597.5	29.5	27.2	96.17	-188.7	686.6	1,756.8	1,702.3	54.50	32.234		
8,800.0	8,697.5	8,747.7	8,697.5	29.6	27.2	96.17	-188.7	686.6	1,756.8	1,702.2	54.55	32.202		
8,900.0	8,797.5	8,847.7	8,797.5	29.6	27.2	96.17	-188.7	686.6	1,756.8	1,702.2	54.61	32.170		
9,000.0	8,897.5	8,947.7	8,897.5	29.6	27.2	96.17	-188.7	686.6	1,756.8	1,702.1	54.66	32.138		
9,100.0	8,997.5	9,047.7	8,997.5	29.7	27.3	96.17	-188.7	686.6	1,756.8	1,702.1	54.72	32.105		
9,200.0	9,097.5	9,147.7	9,097.5	29.7	27.3	96.17	-188.7	686.6	1,756.8	1,702.0	54.78	32.072		
9,300.0	9,197.5	9,247.7	9,197.5	29.7	27.3	96.17	-188.7	686.6	1,756.8	1,702.0	54.83	32.039		
9,400.0	9,297.5	9,347.7	9,297.5	29.8	27.3	96.17	-188.7	686.6	1,756.8	1,701.9	54.89	32.006		
9,500.0	9,397.5	9,447.7	9,397.5	29.8	27.4	96.17	-188.7	686.6	1,756.8	1,701.8	54.95	31.973		
9,600.0	9,497.5	9,547.7	9,497.5	29.8	27.4	96.17	-188.7	686.6	1,756.8	1,701.8	55.00	31.939		
9,700.0	9,597.5	9,647.7	9,597.5	29.9	27.4	96.17	-188.7	686.6	1,756.8	1,701.7	55.06	31.906		
9,800.0	9,697.5	9,747.7	9,697.5	29.9	27.4	96.17	-188.7	686.6	1,756.8	1,701.7	55.12	31.872		
9,900.0	9,797.5	9,847.7	9,797.5	29.9	27.5	96.17	-188.7	686.6	1,756.8	1,701.6	55.18	31.838		
10,000.0	9,897.5	9,947.7	9,897.5	30.0	27.5	96.17	-188.7	686.6	1,756.8	1,701.5	55.24	31.803		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	9,997.5	10,047.7	9,997.5	30.0	27.5	96.17	-188.7	686.6	1,756.8	1,701.5	55.30	31.769		
10,200.0	10,097.5	10,147.7	10,097.5	30.0	27.5	96.17	-188.7	686.6	1,756.8	1,701.4	55.36	31.735		
10,300.0	10,197.5	10,247.7	10,197.5	30.1	27.6	96.17	-188.7	686.6	1,756.8	1,701.4	55.42	31.700		
10,400.0	10,297.5	10,347.7	10,297.5	30.1	27.6	96.17	-188.7	686.6	1,756.8	1,701.3	55.48	31.665		
10,500.0	10,397.5	10,447.7	10,397.5	30.1	27.6	96.17	-188.7	686.6	1,756.8	1,701.2	55.54	31.630		
10,600.0	10,497.5	10,547.7	10,497.5	30.2	27.6	96.17	-188.7	686.6	1,756.8	1,701.2	55.60	31.595		
10,700.0	10,597.5	10,647.7	10,597.5	30.2	27.7	96.17	-188.7	686.6	1,756.8	1,701.1	55.67	31.560		
10,800.0	10,697.5	10,747.7	10,697.5	30.2	27.7	96.17	-188.7	686.6	1,756.8	1,701.1	55.73	31.524		
10,900.0	10,797.5	10,847.7	10,797.5	30.3	27.7	96.17	-188.7	686.6	1,756.8	1,701.0	55.79	31.489		
11,000.0	10,897.5	10,947.7	10,897.5	30.3	27.8	96.17	-188.7	686.6	1,756.8	1,700.9	55.85	31.453		
11,100.0	10,997.5	11,047.7	10,997.5	30.3	27.8	96.17	-188.7	686.6	1,756.8	1,700.9	55.92	31.417		
11,200.0	11,097.5	11,173.7	11,123.4	30.4	27.8	96.03	-184.4	686.6	1,756.5	1,700.5	55.99	31.373		
11,300.0	11,197.5	11,322.8	11,267.3	30.4	27.9	94.82	-147.3	686.0	1,753.6	1,697.7	55.93	31.351		
11,400.0	11,297.5	11,446.5	11,376.3	30.4	27.9	92.93	-89.2	685.1	1,749.2	1,693.4	55.74	31.378		
11,500.0	11,397.4	11,539.7	11,448.7	30.5	28.0	-89.04	-30.7	684.2	1,745.2	1,689.8	55.44	31.477		
11,581.4	11,477.1	11,586.8	11,481.4	30.4	28.0	-90.50	3.1	683.7	1,743.8	1,688.7	55.14	31.626		
11,600.0	11,494.8	11,594.3	11,486.4	30.4	28.0	-90.72	8.7	683.6	1,743.9	1,688.8	55.06	31.670		
11,700.0	11,585.6	11,618.0	11,501.5	30.4	28.0	-91.01	26.9	683.4	1,747.6	1,693.0	54.64	31.986		
11,800.0	11,665.7	11,620.5	11,503.1	30.5	28.0	-89.94	28.9	683.3	1,757.2	1,703.0	54.15	32.451		
11,900.0	11,731.7	11,608.9	11,495.8	30.5	28.0	-87.73	19.8	683.5	1,772.3	1,718.7	53.60	33.066		
12,000.0	11,780.7	11,587.7	11,482.0	30.5	28.0	-84.71	3.8	683.7	1,791.7	1,738.7	52.99	33.810		
12,100.0	11,810.6	11,550.0	11,456.1	30.6	28.0	-80.94	-23.6	684.1	1,814.1	1,761.7	52.38	34.632		
12,200.0	11,820.0	11,527.4	11,439.7	30.7	28.0	-77.70	-39.1	684.4	1,837.5	1,785.8	51.70	35.539		
12,300.0	11,820.0	11,500.0	11,419.0	30.9	27.9	-77.05	-57.1	684.6	1,863.2	1,812.2	51.04	36.503		
12,400.0	11,820.0	11,467.6	11,393.4	31.0	27.9	-76.26	-77.1	684.9	1,892.8	1,842.4	50.38	37.574		
12,500.0	11,820.0	11,450.0	11,379.1	31.2	27.9	-75.82	-87.3	685.1	1,926.3	1,876.7	49.68	38.776		
12,600.0	11,820.0	11,420.9	11,354.8	31.5	27.9	-75.07	-103.2	685.3	1,963.7	1,914.7	49.00	40.073		
12,700.0	11,820.0	11,400.0	11,336.8	31.7	27.9	-74.52	-113.8	685.5	2,004.9	1,956.5	48.33	41.482		
12,800.0	11,820.0	11,400.0	11,336.8	32.0	27.9	-74.52	-113.8	685.5	2,049.8	2,002.1	47.67	43.002		
12,900.0	11,820.0	11,368.3	11,308.8	32.3	27.9	-73.68	-128.7	685.7	2,097.8	2,050.7	47.05	44.588		
13,000.0	11,820.0	11,350.0	11,292.3	32.7	27.9	-73.18	-136.6	685.8	2,149.3	2,102.8	46.45	46.266		
13,100.0	11,820.0	11,350.0	11,292.3	33.0	27.9	-73.18	-136.6	685.8	2,203.9	2,158.0	45.90	48.014		
13,200.0	11,820.0	11,329.9	11,273.9	33.4	27.9	-72.63	-144.7	686.0	2,261.2	2,215.9	45.38	49.828		
13,300.0	11,820.0	11,319.3	11,264.1	33.8	27.9	-72.33	-148.6	686.0	2,321.4	2,276.5	44.91	51.695		
13,400.0	11,820.0	11,300.0	11,246.0	34.3	27.9	-71.80	-155.4	686.1	2,384.1	2,339.7	44.46	53.620		
13,500.0	11,820.0	11,300.0	11,246.0	34.7	27.9	-71.80	-155.4	686.1	2,449.1	2,405.0	44.08	55.562		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	3.1	0.0	3.0	3.0	30.05	30.05	201.7	116.7	233.0	226.5	6.43	36.237	
100.0	100.0	103.1	100.0	3.2	3.1	30.05	30.05	201.7	116.7	233.0	226.2	6.72	34.679	
200.0	200.0	203.1	200.0	3.5	3.2	30.05	30.05	201.7	116.7	233.0	225.9	7.06	32.985	
300.0	300.0	303.1	300.0	3.7	3.3	30.05	30.05	201.7	116.7	233.0	225.6	7.39	31.505	
400.0	400.0	403.1	400.0	3.9	3.4	30.05	30.05	201.7	116.7	233.0	225.3	7.72	30.195	
500.0	500.0	503.1	500.0	4.1	3.6	30.05	30.05	201.7	116.7	233.0	224.9	8.03	29.024	
600.0	600.0	603.1	600.0	4.2	3.7	30.05	30.05	201.7	116.7	233.0	224.6	8.33	27.969	
700.0	700.0	703.1	700.0	4.4	3.8	30.05	30.05	201.7	116.7	233.0	224.3	8.62	27.011	
800.0	800.0	803.1	800.0	4.6	3.9	30.05	30.05	201.7	116.7	233.0	224.1	8.91	26.137	
900.0	900.0	903.1	900.0	4.8	4.0	30.05	30.05	201.7	116.7	233.0	223.8	9.20	25.333	
965.6	965.6	968.7	965.6	4.9	4.1	30.05	30.05	201.7	116.7	233.0	223.6	9.38	24.844	CC
1,000.0	1,000.0	1,003.1	1,000.0	4.9	4.2	30.05	30.05	201.7	116.7	233.0	223.5	9.47	24.590	ES
1,100.0	1,100.0	1,101.7	1,098.6	5.2	4.3	120.83	120.83	201.0	118.3	234.2	224.4	9.76	24.002	
1,200.0	1,199.8	1,200.0	1,196.7	5.4	4.6	123.06	123.06	199.2	123.2	237.9	227.8	10.10	23.555	
1,300.0	1,299.5	1,296.2	1,292.5	5.7	4.9	126.49	126.49	196.2	130.9	245.0	234.5	10.47	23.406	SF
1,400.0	1,398.7	1,390.8	1,386.4	6.0	5.2	130.83	130.83	192.1	141.5	256.4	245.5	10.88	23.570	
1,500.0	1,497.5	1,482.8	1,477.4	6.3	5.5	135.68	135.68	187.1	154.5	273.2	261.9	11.35	24.067	
1,600.0	1,595.6	1,575.0	1,568.2	6.6	5.8	140.75	140.75	181.3	169.7	295.9	284.1	11.84	24.998	
1,700.0	1,693.6	1,668.0	1,659.7	6.9	6.1	145.54	145.54	175.4	185.2	322.1	309.6	12.42	25.936	
1,800.0	1,791.5	1,761.0	1,751.2	7.2	6.3	149.64	149.64	169.4	200.6	350.1	337.1	12.99	26.957	
1,900.0	1,889.4	1,854.0	1,842.7	7.5	6.6	153.15	153.15	163.5	216.1	379.7	366.1	13.59	27.935	
2,000.0	1,987.3	1,947.0	1,934.2	7.8	7.0	156.16	156.16	157.6	231.5	410.4	396.2	14.22	28.854	
2,100.0	2,085.2	2,040.0	2,025.7	8.1	7.3	158.77	158.77	151.6	247.0	442.0	427.1	14.88	29.708	
2,200.0	2,183.2	2,132.9	2,117.2	8.5	7.6	161.03	161.03	145.7	262.4	474.4	458.8	15.56	30.495	
2,300.0	2,281.1	2,225.9	2,208.7	8.9	8.0	163.02	163.02	139.8	277.9	507.4	491.1	16.25	31.217	
2,400.0	2,379.0	2,318.9	2,300.2	9.2	8.3	164.76	164.76	133.8	293.3	540.8	523.9	16.97	31.878	
2,500.0	2,476.9	2,411.9	2,391.7	9.6	8.7	166.31	166.31	127.9	308.8	574.7	557.0	17.69	32.483	
2,600.0	2,574.9	2,504.9	2,483.2	10.0	9.1	167.68	167.68	122.0	324.2	608.9	590.5	18.43	33.035	
2,700.0	2,672.8	2,597.9	2,574.8	10.4	9.4	168.92	168.92	116.1	339.7	643.4	624.2	19.18	33.541	
2,800.0	2,770.7	2,690.9	2,666.3	10.8	9.8	170.02	170.02	110.1	355.1	678.2	658.2	19.94	34.005	
2,900.0	2,868.6	2,783.9	2,757.8	11.2	10.2	171.03	171.03	104.2	370.5	713.1	692.4	20.71	34.430	
3,000.0	2,966.6	2,876.9	2,849.3	11.6	10.6	171.93	171.93	98.3	386.0	748.2	726.7	21.49	34.821	
3,100.0	3,064.5	2,969.9	2,940.8	12.0	11.0	172.76	172.76	92.3	401.4	783.5	761.2	22.27	35.180	
3,200.0	3,162.4	3,062.9	3,032.3	12.5	11.4	173.52	173.52	86.4	416.9	818.9	795.8	23.06	35.512	
3,300.0	3,260.3	3,155.9	3,123.8	12.9	11.7	174.22	174.22	80.5	432.3	854.4	830.5	23.85	35.819	
3,400.0	3,358.2	3,248.9	3,215.3	13.3	12.1	174.86	174.86	74.5	447.8	890.0	865.4	24.65	36.104	
3,500.0	3,456.2	3,341.8	3,306.8	13.8	12.5	175.45	175.45	68.6	463.2	925.7	900.3	25.45	36.367	
3,600.0	3,554.1	3,434.8	3,398.3	14.2	12.9	176.00	176.00	62.7	478.7	961.5	935.3	26.26	36.613	
3,700.0	3,652.0	3,527.8	3,489.8	14.6	13.3	176.50	176.50	56.8	494.1	997.4	970.3	27.07	36.841	
3,800.0	3,749.9	3,620.8	3,581.3	15.1	13.7	176.98	176.98	50.8	509.6	1,033.3	1,005.4	27.89	37.054	
3,900.0	3,847.9	3,713.8	3,672.9	15.5	14.1	177.42	177.42	44.9	525.0	1,069.3	1,040.6	28.70	37.253	
4,000.0	3,945.8	3,806.8	3,764.4	16.0	14.5	177.83	177.83	39.0	540.5	1,105.3	1,075.8	29.52	37.440	
4,100.0	4,043.7	3,899.8	3,855.9	16.4	15.0	178.22	178.22	33.0	555.9	1,141.4	1,111.1	30.34	37.614	
4,200.0	4,141.6	3,992.8	3,947.4	16.8	15.4	178.59	178.59	27.1	571.4	1,177.5	1,146.4	31.17	37.778	
4,300.0	4,239.6	4,085.8	4,038.9	17.3	15.8	178.93	178.93	21.2	586.8	1,213.7	1,181.7	32.00	37.933	
4,400.0	4,337.5	4,178.8	4,130.4	17.7	16.2	179.25	179.25	15.2	602.3	1,249.9	1,217.1	32.82	38.078	
4,500.0	4,435.4	4,271.8	4,221.9	18.2	16.6	179.55	179.55	9.3	617.7	1,286.1	1,252.5	33.65	38.215	
4,600.0	4,533.3	4,364.8	4,313.4	18.6	17.0	179.84	179.84	3.4	633.2	1,322.4	1,287.9	34.49	38.345	
4,700.0	4,631.2	4,457.8	4,404.9	19.1	17.4	-179.88	-179.88	-2.5	648.6	1,358.7	1,323.4	35.32	38.467	
4,800.0	4,729.2	4,550.7	4,496.4	19.5	17.8	-179.63	-179.63	-8.5	664.1	1,395.0	1,358.8	36.16	38.583	
4,900.0	4,827.1	4,643.7	4,587.9	20.0	18.2	-179.38	-179.38	-14.4	679.5	1,431.3	1,394.3	36.99	38.693	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,000.0	4,925.0	4,736.7	4,679.4	20.5	18.7	-179.15	-20.3	695.0	1,467.7	1,429.9	37.83	38.797		
5,100.0	5,022.9	4,829.7	4,770.9	20.9	19.1	-178.93	-26.3	710.4	1,504.1	1,465.4	38.67	38.896		
5,200.0	5,120.9	4,922.7	4,862.5	21.4	19.5	-178.71	-32.2	725.9	1,540.5	1,501.0	39.51	38.990		
5,300.0	5,218.8	5,015.7	4,954.0	21.8	19.9	-178.51	-38.1	741.3	1,576.9	1,536.5	40.35	39.079		
5,400.0	5,316.7	5,108.7	5,045.5	22.3	20.3	-178.32	-44.1	756.8	1,613.3	1,572.1	41.19	39.165		
5,500.0	5,414.6	5,201.7	5,137.0	22.7	20.7	-178.14	-50.0	772.2	1,649.8	1,607.7	42.04	39.246		
5,600.0	5,512.6	5,294.7	5,228.5	23.2	21.1	-177.96	-55.9	787.7	1,686.2	1,643.4	42.88	39.323		
5,700.0	5,610.5	5,387.7	5,320.0	23.7	21.6	-177.79	-61.8	803.1	1,722.7	1,679.0	43.73	39.398		
5,800.0	5,708.4	5,480.7	5,411.5	24.1	22.0	-177.63	-67.8	818.5	1,759.2	1,714.6	44.57	39.468		
5,900.0	5,806.3	5,573.7	5,503.0	24.6	22.4	-177.47	-73.7	834.0	1,795.7	1,750.3	45.42	39.536		
6,000.0	5,904.3	5,666.8	5,594.7	25.0	22.8	-177.34	-79.6	849.5	1,831.9	1,785.6	46.25	39.606		
6,100.0	6,002.6	5,760.5	5,686.9	25.5	23.2	-177.21	-85.6	865.0	1,866.5	1,819.4	47.09	39.632		
6,200.0	6,101.3	5,854.8	5,779.7	25.9	23.7	-177.08	-91.6	880.7	1,899.4	1,851.5	47.93	39.627		
6,300.0	6,200.2	5,949.7	5,873.0	26.4	24.1	-176.95	-97.7	896.5	1,930.8	1,882.0	48.77	39.593		
6,400.0	6,299.3	6,045.0	5,966.9	26.8	24.5	-176.83	-103.8	912.3	1,960.5	1,910.9	49.59	39.533		
6,500.0	6,398.6	6,143.8	6,064.1	27.2	25.0	-176.70	-110.1	928.7	1,988.5	1,938.1	50.42	39.435		
6,600.0	6,498.2	6,259.6	6,178.2	27.6	25.5	-176.56	-117.2	947.2	2,014.3	1,962.9	51.38	39.200		
6,700.0	6,597.9	6,376.5	6,293.5	28.0	26.0	-176.43	-123.9	964.9	2,037.4	1,985.1	52.33	38.935		
6,800.0	6,697.7	6,494.5	6,410.1	28.3	26.5	-176.30	-130.3	981.5	2,057.9	2,004.7	53.25	38.648		
6,900.0	6,797.6	6,613.3	6,527.7	28.6	27.0	-176.18	-136.3	997.2	2,075.7	2,021.6	54.13	38.345		
7,000.0	6,897.5	6,732.8	6,646.3	28.9	27.5	-176.07	-141.9	1,011.8	2,090.9	2,035.9	54.97	38.034		
7,100.0	6,997.5	6,853.0	6,765.6	29.1	28.0	-175.96	-147.1	1,025.3	2,103.3	2,047.6	55.66	37.786		
7,200.0	7,097.5	6,973.7	6,885.5	29.1	28.5	94.14	-151.9	1,037.7	2,113.8	2,057.6	56.22	37.596		
7,300.0	7,197.5	7,094.6	7,005.8	29.1	29.0	94.24	-156.2	1,048.9	2,123.4	2,066.6	56.77	37.403		
7,400.0	7,297.5	7,215.7	7,126.5	29.2	29.5	94.32	-160.1	1,059.0	2,131.9	2,074.6	57.30	37.206		
7,500.0	7,397.5	7,337.1	7,247.5	29.2	29.9	94.39	-163.5	1,067.9	2,139.4	2,081.6	57.81	37.005		
7,600.0	7,497.5	7,458.7	7,368.8	29.2	30.4	94.46	-166.4	1,075.6	2,145.9	2,087.6	58.31	36.802		
7,700.0	7,597.5	7,580.4	7,490.3	29.2	30.8	94.51	-168.9	1,082.1	2,151.4	2,092.6	58.79	36.598		
7,800.0	7,697.5	7,702.3	7,612.0	29.3	31.2	94.55	-171.0	1,087.4	2,155.9	2,096.6	59.24	36.393		
7,900.0	7,797.5	7,824.2	7,733.9	29.3	31.6	94.59	-172.6	1,091.5	2,159.3	2,099.7	59.66	36.193		
8,000.0	7,897.5	7,946.3	7,855.9	29.3	32.0	94.61	-173.7	1,094.4	2,161.8	2,101.7	60.05	35.999		
8,100.0	7,997.5	8,068.4	7,978.0	29.4	32.3	94.62	-174.3	1,096.1	2,163.2	2,102.8	60.39	35.818		
8,200.0	8,097.5	8,187.9	8,097.5	29.4	32.4	94.63	-174.5	1,096.5	2,163.6	2,103.0	60.58	35.713		
8,300.0	8,197.5	8,287.9	8,197.5	29.4	32.4	94.63	-174.5	1,096.5	2,163.6	2,103.0	60.63	35.686		
8,400.0	8,297.5	8,387.9	8,297.5	29.5	32.5	94.63	-174.5	1,096.5	2,163.6	2,102.9	60.68	35.658		
8,500.0	8,397.5	8,487.9	8,397.5	29.5	32.5	94.63	-174.5	1,096.5	2,163.6	2,102.9	60.72	35.630		
8,600.0	8,497.5	8,587.9	8,497.5	29.5	32.5	94.63	-174.5	1,096.5	2,163.6	2,102.8	60.77	35.602		
8,700.0	8,597.5	8,687.9	8,597.5	29.5	32.5	94.63	-174.5	1,096.5	2,163.6	2,102.8	60.82	35.574		
8,800.0	8,697.5	8,787.9	8,697.5	29.6	32.5	94.63	-174.5	1,096.5	2,163.6	2,102.7	60.87	35.546		
8,900.0	8,797.5	8,887.9	8,797.5	29.6	32.6	94.63	-174.5	1,096.5	2,163.6	2,102.7	60.92	35.517		
9,000.0	8,897.5	8,987.9	8,897.5	29.6	32.6	94.63	-174.5	1,096.5	2,163.6	2,102.6	60.97	35.488		
9,100.0	8,997.5	9,087.9	8,997.5	29.7	32.6	94.63	-174.5	1,096.5	2,163.6	2,102.6	61.02	35.460		
9,200.0	9,097.5	9,187.9	9,097.5	29.7	32.6	94.63	-174.5	1,096.5	2,163.6	2,102.5	61.07	35.430		
9,300.0	9,197.5	9,287.9	9,197.5	29.7	32.6	94.63	-174.5	1,096.5	2,163.6	2,102.5	61.12	35.401		
9,400.0	9,297.5	9,387.9	9,297.5	29.8	32.7	94.63	-174.5	1,096.5	2,163.6	2,102.4	61.17	35.372		
9,500.0	9,397.5	9,487.9	9,397.5	29.8	32.7	94.63	-174.5	1,096.5	2,163.6	2,102.4	61.22	35.342		
9,600.0	9,497.5	9,587.9	9,497.5	29.8	32.7	94.63	-174.5	1,096.5	2,163.6	2,102.3	61.27	35.313		
9,700.0	9,597.5	9,687.9	9,597.5	29.9	32.7	94.63	-174.5	1,096.5	2,163.6	2,102.3	61.32	35.283		
9,800.0	9,697.5	9,787.9	9,697.5	29.9	32.7	94.63	-174.5	1,096.5	2,163.6	2,102.2	61.37	35.253		
9,900.0	9,797.5	9,887.9	9,797.5	29.9	32.8	94.63	-174.5	1,096.5	2,163.6	2,102.2	61.43	35.222		
10,000.0	9,897.5	9,987.9	9,897.5	30.0	32.8	94.63	-174.5	1,096.5	2,163.6	2,102.1	61.48	35.192		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 10974-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,100.0	9,997.5	10,087.9	9,997.5	30.0	32.8	94.63	-174.5	1,096.5	2,163.6	2,102.1	61.53	35.161		
10,200.0	10,097.5	10,187.9	10,097.5	30.0	32.8	94.63	-174.5	1,096.5	2,163.6	2,102.0	61.59	35.131		
10,300.0	10,197.5	10,287.9	10,197.5	30.1	32.8	94.63	-174.5	1,096.5	2,163.6	2,102.0	61.64	35.100		
10,400.0	10,297.5	10,387.9	10,297.5	30.1	32.9	94.63	-174.5	1,096.5	2,163.6	2,101.9	61.70	35.069		
10,500.0	10,397.5	10,487.9	10,397.5	30.1	32.9	94.63	-174.5	1,096.5	2,163.6	2,101.8	61.75	35.037		
10,600.0	10,497.5	10,587.9	10,497.5	30.2	32.9	94.63	-174.5	1,096.5	2,163.6	2,101.8	61.81	35.006		
10,700.0	10,597.5	10,687.9	10,597.5	30.2	32.9	94.63	-174.5	1,096.5	2,163.6	2,101.7	61.86	34.975		
10,800.0	10,697.5	10,787.9	10,697.5	30.2	33.0	94.63	-174.5	1,096.5	2,163.6	2,101.7	61.92	34.943		
10,900.0	10,797.5	10,887.9	10,797.5	30.3	33.0	94.63	-174.5	1,096.5	2,163.6	2,101.6	61.97	34.911		
11,000.0	10,897.5	10,987.9	10,905.6	30.3	33.0	94.62	-174.1	1,096.5	2,163.6	2,101.6	62.02	34.885		
11,100.0	10,997.5	11,149.6	11,056.5	30.3	33.0	93.92	-147.9	1,096.1	2,161.9	2,100.0	61.97	34.886		
11,200.0	11,097.5	11,281.3	11,176.5	30.4	33.0	92.50	-94.2	1,095.1	2,158.6	2,096.8	61.83	34.909		
11,300.0	11,197.5	11,385.1	11,260.4	30.4	33.1	90.89	-33.4	1,094.0	2,155.2	2,093.5	61.67	34.948		
11,400.0	11,297.5	11,464.2	11,316.3	30.4	33.1	89.40	22.4	1,093.0	2,153.2	2,091.7	61.50	35.011		
11,430.3	11,327.8	11,483.7	11,328.8	30.4	33.1	-90.75	37.4	1,092.7	2,153.1	2,091.6	61.44	35.042		
11,500.0	11,397.4	11,521.8	11,351.8	30.5	33.1	-91.48	67.7	1,092.2	2,153.8	2,092.5	61.31	35.130		
11,600.0	11,494.8	11,550.0	11,367.5	30.4	33.1	-91.60	91.1	1,091.8	2,158.5	2,097.5	61.08	35.338		
11,700.0	11,585.6	11,561.5	11,373.6	30.4	33.1	-90.74	101.0	1,091.6	2,168.2	2,107.4	60.78	35.675		
11,800.0	11,665.7	11,550.0	11,367.5	30.5	33.1	-88.69	91.1	1,091.8	2,182.6	2,122.2	60.42	36.122		
11,900.0	11,731.7	11,550.0	11,367.5	30.5	33.1	-86.46	91.1	1,091.8	2,200.9	2,141.0	59.92	36.734		
12,000.0	11,780.7	11,516.0	11,348.4	30.5	33.1	-83.08	63.0	1,092.3	2,221.9	2,162.4	59.44	37.379		
12,100.0	11,810.6	11,500.0	11,338.9	30.6	33.1	-80.02	50.2	1,092.5	2,244.1	2,185.3	58.85	38.133		
12,200.0	11,820.0	11,450.0	11,306.8	30.7	33.1	-76.60	11.9	1,093.2	2,266.0	2,207.6	58.34	38.840		
12,300.0	11,820.0	11,422.4	11,287.8	30.9	33.1	-76.12	-8.0	1,093.6	2,289.1	2,231.3	57.76	39.630		
12,400.0	11,820.0	11,400.0	11,271.5	31.0	33.1	-75.71	-23.5	1,093.8	2,315.4	2,258.2	57.15	40.513		
12,500.0	11,820.0	11,367.7	11,247.1	31.2	33.1	-75.11	-44.7	1,094.2	2,344.8	2,288.2	56.55	41.461		
12,600.0	11,820.0	11,350.0	11,233.3	31.5	33.1	-74.76	-55.7	1,094.4	2,377.4	2,321.5	55.92	42.517		
12,700.0	11,820.0	11,323.2	11,211.7	31.7	33.1	-74.23	-71.5	1,094.7	2,413.2	2,357.9	55.30	43.641		
12,800.0	11,820.0	11,300.0	11,192.4	32.0	33.0	-73.76	-84.4	1,094.9	2,452.1	2,397.4	54.67	44.851		
12,900.0	11,820.0	11,300.0	11,192.4	32.3	33.0	-73.76	-84.4	1,094.9	2,494.1	2,440.1	54.02	46.168		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Rule Assigned:														
Measured Reference 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		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	10.0	0.0	3.0	3.0	35.97		202.1	146.6	249.7	243.2	6.43	38.834	
100.0	100.0	110.0	100.0	3.2	3.1	35.97		202.1	146.6	249.7	243.0	6.72	37.163	
200.0	200.0	210.0	200.0	3.5	3.2	35.97		202.1	146.6	249.7	242.6	7.06	35.344	
300.0	300.0	310.0	300.0	3.7	3.3	35.97		202.1	146.6	249.7	242.3	7.40	33.760	
400.0	400.0	410.0	400.0	3.9	3.4	35.97		202.1	146.6	249.7	242.0	7.72	32.360	
500.0	500.0	510.0	500.0	4.1	3.6	35.97		202.1	146.6	249.7	241.7	8.03	31.110	
600.0	600.0	610.0	600.0	4.2	3.7	35.97		202.1	146.6	249.7	241.4	8.33	29.984	
700.0	700.0	710.0	700.0	4.4	3.8	35.97		202.1	146.6	249.7	241.1	8.62	28.962	
800.0	800.0	810.0	800.0	4.6	3.9	35.97		202.1	146.6	249.7	240.8	8.91	28.029	
900.0	900.0	910.0	900.0	4.8	4.0	35.97		202.1	146.6	249.7	240.5	9.19	27.173	
913.0	913.0	923.0	913.0	4.8	4.1	35.97		202.1	146.6	249.7	240.5	9.22	27.069 CC	
1,000.0	1,000.0	1,009.7	999.7	4.9	4.2	35.97		202.1	146.7	249.7	240.2	9.47	26.377 ES	
1,100.0	1,100.0	1,106.7	1,096.7	5.2	4.3	126.68		201.5	148.6	251.4	241.7	9.77	25.743	
1,200.0	1,199.8	1,203.0	1,192.8	5.4	4.6	128.59		200.1	153.6	256.6	246.5	10.13	25.327	
1,300.0	1,299.5	1,297.9	1,287.4	5.7	4.9	131.50		197.8	161.5	265.9	255.3	10.52	25.261 SF	
1,400.0	1,398.7	1,390.9	1,379.7	6.0	5.2	135.12		194.7	172.2	279.9	268.9	10.96	25.538	
1,500.0	1,497.5	1,481.3	1,469.1	6.3	5.5	139.11		191.0	185.4	299.5	288.0	11.45	26.158	
1,600.0	1,595.6	1,568.8	1,555.1	6.6	5.8	143.23		186.6	200.7	325.2	313.3	11.94	27.244	
1,700.0	1,693.6	1,658.3	1,642.6	6.9	6.1	147.49		181.5	218.5	355.4	342.9	12.51	28.406	
1,800.0	1,791.5	1,750.0	1,732.3	7.2	6.4	151.22		176.2	236.8	387.4	374.3	13.09	29.603	
1,900.0	1,889.4	1,841.7	1,822.1	7.5	6.7	154.41		171.0	255.1	420.8	407.1	13.69	30.726	
2,000.0	1,987.3	1,933.5	1,911.8	7.8	7.0	157.15		165.7	273.5	455.2	440.8	14.33	31.764	
2,100.0	2,085.2	2,025.2	2,001.5	8.1	7.3	159.51		160.5	291.8	490.4	475.4	14.99	32.716	
2,200.0	2,183.2	2,116.9	2,091.3	8.5	7.7	161.56		155.2	310.1	526.2	510.6	15.67	33.582	
2,300.0	2,281.1	2,208.7	2,181.0	8.9	8.0	163.36		149.9	328.5	562.6	546.3	16.37	34.369	
2,400.0	2,379.0	2,300.4	2,270.7	9.2	8.4	164.94		144.7	346.8	599.5	582.4	17.09	35.082	
2,500.0	2,476.9	2,392.1	2,360.4	9.6	8.7	166.34		139.4	365.1	636.6	618.8	17.82	35.729	
2,600.0	2,574.9	2,483.9	2,450.2	10.0	9.1	167.60		134.2	383.5	674.1	655.6	18.56	36.315	
2,700.0	2,672.8	2,575.6	2,539.9	10.4	9.5	168.72		128.9	401.8	711.9	692.6	19.32	36.848	
2,800.0	2,770.7	2,667.3	2,629.6	10.8	9.9	169.73		123.7	420.1	749.8	729.8	20.09	37.333	
2,900.0	2,868.6	2,759.0	2,719.3	11.2	10.3	170.64		118.4	438.5	788.0	767.1	20.86	37.776	
3,000.0	2,966.6	2,850.8	2,809.1	11.6	10.6	171.47		113.1	456.8	826.3	804.6	21.64	38.180	
3,100.0	3,064.5	2,942.5	2,898.8	12.0	11.0	172.23		107.9	475.1	864.7	842.3	22.43	38.550	
3,200.0	3,162.4	3,034.2	2,988.5	12.5	11.4	172.93		102.6	493.5	903.3	880.1	23.23	38.889	
3,300.0	3,260.3	3,126.0	3,078.2	12.9	11.8	173.56		97.4	511.8	941.9	917.9	24.03	39.202	
3,400.0	3,358.2	3,217.7	3,168.0	13.3	12.2	174.15		92.1	530.1	980.7	955.9	24.83	39.489	
3,500.0	3,456.2	3,309.4	3,257.7	13.8	12.6	174.69		86.9	548.5	1,019.5	993.9	25.65	39.755	
3,600.0	3,554.1	3,401.2	3,347.4	14.2	13.0	175.20		81.6	566.8	1,058.4	1,032.0	26.46	40.001	
3,700.0	3,652.0	3,492.9	3,437.2	14.6	13.5	175.67		76.3	585.1	1,097.4	1,070.1	27.28	40.229	
3,800.0	3,749.9	3,584.6	3,526.9	15.1	13.9	176.10		71.1	603.5	1,136.4	1,108.3	28.10	40.441	
3,900.0	3,847.9	3,676.4	3,616.6	15.5	14.3	176.51		65.8	621.8	1,175.5	1,146.6	28.93	40.638	
4,000.0	3,945.8	3,768.1	3,706.3	16.0	14.7	176.89		60.6	640.1	1,214.7	1,184.9	29.76	40.822	
4,100.0	4,043.7	3,859.8	3,796.1	16.4	15.1	177.25		55.3	658.5	1,253.8	1,223.3	30.59	40.994	
4,200.0	4,141.6	3,951.6	3,885.8	16.8	15.5	177.59		50.1	676.8	1,293.1	1,261.6	31.42	41.154	
4,300.0	4,239.6	4,043.3	3,975.5	17.3	15.9	177.90		44.8	695.1	1,332.3	1,300.1	32.26	41.305	
4,400.0	4,337.5	4,135.0	4,065.2	17.7	16.3	178.20		39.5	713.5	1,371.6	1,338.5	33.09	41.446	
4,500.0	4,435.4	4,226.7	4,155.0	18.2	16.8	178.49		34.3	731.8	1,410.9	1,377.0	33.93	41.579	
4,600.0	4,533.3	4,318.5	4,244.7	18.6	17.2	178.75		29.0	750.1	1,450.2	1,415.5	34.77	41.704	
4,700.0	4,631.2	4,410.2	4,334.4	19.1	17.6	179.01		23.8	768.5	1,489.6	1,454.0	35.62	41.822	
4,800.0	4,729.2	4,501.9	4,424.1	19.5	18.0	179.25		18.5	786.8	1,529.0	1,492.5	36.46	41.933	
4,900.0	4,827.1	4,593.7	4,513.9	20.0	18.4	179.47		13.3	805.1	1,568.4	1,531.1	37.31	42.038	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2431 PROJECT - ZIA HILLS UNIT 2431 WC #707H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1, 11497-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,925.0	4,685.4	4,603.6	20.5	18.9	179.69	8.0	823.5	1,607.8	1,569.7	38.16	42.138		
5,100.0	5,022.9	4,777.1	4,693.3	20.9	19.3	179.90	2.7	841.8	1,647.3	1,608.3	39.01	42.232		
5,200.0	5,120.9	4,868.9	4,783.1	21.4	19.7	-179.91	-2.5	860.1	1,686.8	1,646.9	39.86	42.321		
5,300.0	5,218.8	4,960.6	4,872.8	21.8	20.1	-179.72	-7.8	878.5	1,726.2	1,685.5	40.71	42.406		
5,400.0	5,316.7	5,052.3	4,962.5	22.3	20.6	-179.54	-13.0	896.8	1,765.7	1,724.2	41.56	42.486		
5,500.0	5,414.6	5,144.1	5,052.2	22.7	21.0	-179.37	-18.3	915.1	1,805.2	1,762.8	42.41	42.563		
5,600.0	5,512.6	5,235.8	5,142.0	23.2	21.4	-179.20	-23.5	933.5	1,844.8	1,801.5	43.27	42.636		
5,700.0	5,610.5	5,327.5	5,231.7	23.7	21.8	-179.05	-28.8	951.8	1,884.3	1,840.2	44.12	42.705		
5,800.0	5,708.4	5,419.3	5,321.4	24.1	22.3	-178.90	-34.1	970.1	1,923.9	1,878.9	44.98	42.771		
5,900.0	5,806.3	5,511.0	5,411.1	24.6	22.7	-178.75	-39.3	988.5	1,963.4	1,917.6	45.84	42.834		
6,000.0	5,904.3	5,602.9	5,501.0	25.0	23.1	-178.62	-44.6	1,006.8	2,002.6	1,955.9	46.68	42.900		
6,100.0	6,002.6	5,695.4	5,591.5	25.5	23.6	-178.49	-49.9	1,025.3	2,040.3	1,992.8	47.54	42.922		
6,200.0	6,101.3	5,788.5	5,682.6	25.9	24.0	-178.37	-55.2	1,043.9	2,076.4	2,028.0	48.39	42.913		
6,300.0	6,200.2	5,882.3	5,774.4	26.4	24.4	-178.25	-60.6	1,062.7	2,110.9	2,061.6	49.23	42.876		
6,400.0	6,299.3	5,976.7	5,866.7	26.8	24.9	-178.14	-66.0	1,081.5	2,143.7	2,093.6	50.07	42.812		
6,500.0	6,398.6	6,071.6	5,959.5	27.2	25.3	-178.02	-71.4	1,100.5	2,174.9	2,124.0	50.90	42.725		
6,600.0	6,498.2	6,167.0	6,052.8	27.6	25.8	-177.91	-76.9	1,119.6	2,204.4	2,152.7	51.73	42.617		
6,700.0	6,597.9	6,262.9	6,146.7	28.0	26.2	-177.80	-82.4	1,138.7	2,232.2	2,179.7	52.54	42.491		
6,800.0	6,697.7	6,359.3	6,241.0	28.3	26.7	-177.69	-87.9	1,158.0	2,258.4	2,205.1	53.33	42.349		
6,900.0	6,797.6	6,456.2	6,335.7	28.6	27.1	-177.58	-93.5	1,177.4	2,283.0	2,228.9	54.10	42.198		
7,000.0	6,897.5	6,553.4	6,430.8	28.9	27.6	-177.48	-99.1	1,196.8	2,305.8	2,251.0	54.84	42.044		
7,100.0	6,997.5	6,651.1	6,526.3	29.1	28.0	-177.37	-104.6	1,216.3	2,326.9	2,271.5	55.45	41.963		
7,200.0	7,097.5	6,748.9	6,622.0	29.1	28.5	92.75	-110.3	1,235.9	2,347.2	2,291.2	55.95	41.950		
7,300.0	7,197.5	6,846.7	6,717.7	29.1	28.9	92.86	-115.9	1,255.4	2,367.5	2,311.0	56.45	41.936		
7,400.0	7,297.5	6,944.5	6,813.3	29.2	29.4	92.98	-121.5	1,275.0	2,387.7	2,330.8	56.96	41.919		
7,500.0	7,397.5	7,042.3	6,909.0	29.2	29.9	93.09	-127.1	1,294.5	2,408.0	2,350.5	57.47	41.900		
7,600.0	7,497.5	7,140.1	7,004.7	29.2	30.3	93.20	-132.7	1,314.1	2,428.3	2,370.3	57.98	41.880		
7,700.0	7,597.5	7,237.9	7,100.4	29.2	30.8	93.31	-138.3	1,333.6	2,448.6	2,390.1	58.50	41.857		
7,800.0	7,697.5	7,335.8	7,196.0	29.3	31.2	93.41	-143.9	1,353.2	2,468.9	2,409.9	59.02	41.832		
7,900.0	7,797.5	7,433.6	7,291.7	29.3	31.7	93.52	-149.5	1,372.7	2,489.2	2,429.7	59.54	41.806		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	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	
1,100.0	1,100.0	1,101.0	1,101.0	5.2	5.2	179.68	0.2	28.2	30.0	19.3	10.72	2.799	
1,114.9	1,114.9	1,116.2	1,116.1	5.2	5.2	179.84	0.1	27.7	30.0	19.2	10.79	2.780	CC
1,200.0	1,199.8	1,202.1	1,201.9	5.4	5.4	-178.82	-0.6	22.9	30.0	18.8	11.20	2.680	
1,300.0	1,299.5	1,303.1	1,302.6	5.7	5.7	-176.34	-1.9	14.1	30.1	18.4	11.69	2.571	
1,400.0	1,398.7	1,404.1	1,402.8	6.0	6.0	-172.89	-3.7	1.8	30.2	18.0	12.20	2.478	ES, SF
1,500.0	1,497.5	1,504.4	1,502.0	6.3	6.2	-169.07	-5.9	-13.0	31.4	18.8	12.63	2.485	
1,600.0	1,595.6	1,604.3	1,600.7	6.6	6.4	-166.81	-8.2	-28.0	35.8	22.7	13.10	2.735	
1,700.0	1,693.6	1,704.2	1,699.4	6.9	6.7	-165.50	-10.4	-43.0	41.6	27.9	13.65	3.045	
1,800.0	1,791.5	1,804.0	1,798.0	7.2	7.0	-164.51	-12.6	-58.0	47.3	33.1	14.20	3.332	
1,900.0	1,889.4	1,903.8	1,896.7	7.5	7.3	-163.74	-14.8	-73.0	53.0	38.3	14.77	3.591	
2,000.0	1,987.3	2,003.7	1,995.4	7.8	7.6	-163.11	-17.1	-88.0	58.8	43.4	15.37	3.825	
2,100.0	2,085.2	2,103.5	2,094.1	8.1	7.9	-162.60	-19.3	-103.0	64.5	48.6	15.99	4.036	
2,200.0	2,183.2	2,203.3	2,192.7	8.5	8.2	-162.17	-21.5	-118.0	70.3	53.7	16.64	4.226	
2,300.0	2,281.1	2,303.2	2,291.4	8.9	8.6	-161.81	-23.7	-132.9	76.1	58.8	17.30	4.398	
2,400.0	2,379.0	2,403.0	2,390.1	9.2	8.9	-161.49	-25.9	-147.9	81.8	63.9	17.97	4.553	
2,500.0	2,476.9	2,502.8	2,488.8	9.6	9.3	-161.22	-28.2	-162.9	87.6	68.9	18.66	4.694	
2,600.0	2,574.9	2,602.6	2,587.5	10.0	9.7	-160.99	-30.4	-177.9	93.4	74.0	19.37	4.822	
2,700.0	2,672.8	2,702.5	2,686.1	10.4	10.1	-160.78	-32.6	-192.9	99.2	79.1	20.08	4.938	
2,800.0	2,770.7	2,802.3	2,784.8	10.8	10.4	-160.59	-34.8	-207.9	104.9	84.1	20.80	5.044	
2,900.0	2,868.6	2,902.1	2,883.5	11.2	10.8	-160.42	-37.0	-222.9	110.7	89.2	21.53	5.141	
3,000.0	2,966.6	3,002.0	2,982.2	11.6	11.2	-160.27	-39.3	-237.9	116.5	94.2	22.27	5.230	
3,100.0	3,064.5	3,101.8	3,080.8	12.0	11.6	-160.13	-41.5	-252.8	122.3	99.2	23.02	5.311	
3,200.0	3,162.4	3,201.6	3,179.5	12.5	12.0	-160.01	-43.7	-267.8	128.0	104.3	23.77	5.386	
3,300.0	3,260.3	3,301.5	3,278.2	12.9	12.4	-159.90	-45.9	-282.8	133.8	109.3	24.53	5.455	
3,400.0	3,358.2	3,401.3	3,376.9	13.3	12.8	-159.79	-48.1	-297.8	139.6	114.3	25.29	5.519	
3,500.0	3,456.2	3,501.1	3,475.5	13.8	13.2	-159.70	-50.4	-312.8	145.4	119.3	26.06	5.578	
3,600.0	3,554.1	3,601.0	3,574.2	14.2	13.6	-159.61	-52.6	-327.8	151.1	124.3	26.84	5.632	
3,700.0	3,652.0	3,700.8	3,672.9	14.6	14.0	-159.53	-54.8	-342.8	156.9	129.3	27.61	5.683	
3,800.0	3,749.9	3,800.6	3,771.6	15.1	14.4	-159.45	-57.0	-357.8	162.7	134.3	28.39	5.731	
3,900.0	3,847.9	3,900.5	3,870.2	15.5	14.8	-159.38	-59.2	-372.8	168.5	139.3	29.18	5.775	
4,000.0	3,945.8	4,000.3	3,968.9	16.0	15.3	-159.31	-61.5	-387.7	174.3	144.3	29.96	5.816	
4,100.0	4,043.7	4,100.1	4,067.6	16.4	15.7	-159.25	-63.7	-402.7	180.0	149.3	30.75	5.855	
4,200.0	4,141.6	4,200.0	4,166.3	16.8	16.1	-159.19	-65.9	-417.7	185.8	154.3	31.54	5.891	
4,300.0	4,239.6	4,299.8	4,264.9	17.3	16.5	-159.14	-68.1	-432.7	191.6	159.3	32.34	5.925	
4,400.0	4,337.5	4,399.6	4,363.6	17.7	16.9	-159.09	-70.3	-447.7	197.4	164.3	33.13	5.957	
4,500.0	4,435.4	4,499.5	4,462.3	18.2	17.4	-159.04	-72.6	-462.7	203.2	169.2	33.93	5.987	
4,600.0	4,533.3	4,599.3	4,561.0	18.6	17.8	-158.99	-74.8	-477.7	208.9	174.2	34.73	6.016	
4,700.0	4,631.2	4,699.1	4,659.7	19.1	18.2	-158.95	-77.0	-492.7	214.7	179.2	35.54	6.042	
4,800.0	4,729.2	4,799.0	4,758.3	19.5	18.6	-158.91	-79.2	-507.6	220.5	184.2	36.34	6.068	
4,900.0	4,827.1	4,898.8	4,857.0	20.0	19.1	-158.87	-81.4	-522.6	226.3	189.1	37.15	6.092	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)				
5,000.0	4,925.0	4,998.6	4,955.7	20.5	19.5	-158.83	-83.7	-537.6	232.1	194.1	37.95	6.115		
5,100.0	5,022.9	5,098.5	5,054.4	20.9	19.9	-158.80	-85.9	-552.6	237.9	199.1	38.76	6.136		
5,200.0	5,120.9	5,198.3	5,153.0	21.4	20.3	-158.76	-88.1	-567.6	243.6	204.1	39.57	6.157		
5,300.0	5,218.8	5,297.3	5,250.9	21.8	20.7	-158.74	-90.3	-582.4	249.5	209.1	40.36	6.180		
5,400.0	5,316.7	5,393.4	5,346.1	22.3	21.1	-158.83	-92.3	-595.7	256.3	215.1	41.17	6.225		
5,500.0	5,414.6	5,489.3	5,441.2	22.7	21.5	-159.10	-94.0	-607.4	264.6	222.6	41.99	6.300		
5,600.0	5,512.6	5,584.8	5,536.2	23.2	21.9	-159.51	-95.5	-617.5	274.3	231.5	42.82	6.405		
5,700.0	5,610.5	5,680.1	5,631.1	23.7	22.3	-160.04	-96.8	-626.0	285.5	241.9	43.66	6.539		
5,800.0	5,708.4	5,775.0	5,725.7	24.1	22.6	-160.68	-97.8	-632.9	298.2	253.7	44.50	6.702		
5,900.0	5,806.3	5,869.4	5,820.0	24.6	23.0	-161.39	-98.6	-638.2	312.4	267.1	45.33	6.893		
6,000.0	5,904.3	5,963.4	5,913.9	25.0	23.3	-162.18	-99.1	-642.0	327.7	281.6	46.11	7.108		
6,100.0	6,002.6	6,057.2	6,007.6	25.5	23.5	-162.94	-99.5	-644.3	343.0	296.2	46.85	7.321		
6,200.0	6,101.3	6,150.8	6,101.3	25.9	23.7	-163.67	-99.6	-645.0	358.2	310.7	47.49	7.542		
6,300.0	6,200.2	6,249.7	6,200.2	26.4	23.7	-164.35	-99.6	-645.0	372.5	324.4	48.07	7.747		
6,400.0	6,299.3	6,348.8	6,299.3	26.8	23.8	-164.91	-99.6	-645.0	385.1	336.5	48.63	7.918		
6,500.0	6,398.6	6,448.2	6,398.6	27.2	23.8	-165.36	-99.6	-645.0	396.1	346.9	49.16	8.056		
6,600.0	6,498.2	6,547.7	6,498.2	27.6	23.8	-165.73	-99.6	-645.0	405.4	355.7	49.67	8.162		
6,700.0	6,597.9	6,647.4	6,597.9	28.0	23.8	-166.02	-99.6	-645.0	413.0	362.9	50.14	8.238		
6,800.0	6,697.7	6,747.2	6,697.7	28.3	23.9	-166.23	-99.6	-645.0	419.0	368.4	50.58	8.285		
6,900.0	6,797.6	6,847.1	6,797.6	28.6	23.9	-166.39	-99.6	-645.0	423.3	372.3	50.98	8.303		
7,000.0	6,897.5	6,947.1	6,897.5	28.9	23.9	-166.48	-99.6	-645.0	425.9	374.5	51.34	8.296		
7,100.0	6,997.5	7,047.1	6,997.5	29.1	24.0	-166.51	-99.6	-645.0	426.8	375.2	51.53	8.282		
7,200.0	7,097.5	7,147.1	7,097.5	29.1	24.0	103.49	-99.6	-645.0	426.8	375.2	51.60	8.272		
7,300.0	7,197.5	7,247.1	7,197.5	29.1	24.0	103.49	-99.6	-645.0	426.8	375.1	51.66	8.262		
7,400.0	7,297.5	7,347.1	7,297.5	29.2	24.1	103.49	-99.6	-645.0	426.8	375.1	51.72	8.252		
7,500.0	7,397.5	7,447.1	7,397.5	29.2	24.1	103.49	-99.6	-645.0	426.8	375.0	51.78	8.242		
7,600.0	7,497.5	7,547.1	7,497.5	29.2	24.2	103.49	-99.6	-645.0	426.8	374.9	51.85	8.231		
7,700.0	7,597.5	7,647.1	7,597.5	29.2	24.2	103.49	-99.6	-645.0	426.8	374.9	51.91	8.221		
7,800.0	7,697.5	7,747.1	7,697.5	29.3	24.2	103.49	-99.6	-645.0	426.8	374.8	51.98	8.211		
7,900.0	7,797.5	7,847.1	7,797.5	29.3	24.3	103.49	-99.6	-645.0	426.8	374.7	52.04	8.201		
8,000.0	7,897.5	7,947.1	7,897.5	29.3	24.3	103.49	-99.6	-645.0	426.8	374.7	52.10	8.191		
8,100.0	7,997.5	8,047.1	7,997.5	29.4	24.3	103.49	-99.6	-645.0	426.8	374.6	52.17	8.180		
8,200.0	8,097.5	8,147.1	8,097.5	29.4	24.4	103.49	-99.6	-645.0	426.8	374.5	52.24	8.170		
8,300.0	8,197.5	8,247.1	8,197.5	29.4	24.4	103.49	-99.6	-645.0	426.8	374.5	52.30	8.160		
8,400.0	8,297.5	8,347.1	8,297.5	29.5	24.4	103.49	-99.6	-645.0	426.8	374.4	52.37	8.149		
8,500.0	8,397.5	8,447.1	8,397.5	29.5	24.5	103.49	-99.6	-645.0	426.8	374.3	52.44	8.139		
8,600.0	8,497.5	8,547.1	8,497.5	29.5	24.5	103.49	-99.6	-645.0	426.8	374.3	52.50	8.128		
8,700.0	8,597.5	8,647.1	8,597.5	29.5	24.6	103.49	-99.6	-645.0	426.8	374.2	52.57	8.118		
8,800.0	8,697.5	8,747.1	8,697.5	29.6	24.6	103.49	-99.6	-645.0	426.8	374.1	52.64	8.107		
8,900.0	8,797.5	8,847.1	8,797.5	29.6	24.6	103.49	-99.6	-645.0	426.8	374.1	52.71	8.097		
9,000.0	8,897.5	8,947.1	8,897.5	29.6	24.7	103.49	-99.6	-645.0	426.8	374.0	52.78	8.086		
9,100.0	8,997.5	9,047.1	8,997.5	29.7	24.7	103.49	-99.6	-645.0	426.8	373.9	52.85	8.075		
9,200.0	9,097.5	9,147.1	9,097.5	29.7	24.7	103.49	-99.6	-645.0	426.8	373.9	52.92	8.065		
9,300.0	9,197.5	9,247.1	9,197.5	29.7	24.8	103.49	-99.6	-645.0	426.8	373.8	52.99	8.054		
9,400.0	9,297.5	9,347.1	9,297.5	29.8	24.8	103.49	-99.6	-645.0	426.8	373.7	53.06	8.043		
9,500.0	9,397.5	9,447.1	9,397.5	29.8	24.9	103.49	-99.6	-645.0	426.8	373.6	53.13	8.032		
9,600.0	9,497.5	9,547.1	9,497.5	29.8	24.9	103.49	-99.6	-645.0	426.8	373.6	53.20	8.021		
9,700.0	9,597.5	9,647.1	9,597.5	29.9	24.9	103.49	-99.6	-645.0	426.8	373.5	53.28	8.011		
9,800.0	9,697.5	9,747.1	9,697.5	29.9	25.0	103.49	-99.6	-645.0	426.8	373.4	53.35	8.000		
9,900.0	9,797.5	9,847.1	9,797.5	29.9	25.0	103.49	-99.6	-645.0	426.8	373.4	53.42	7.989		
10,000.0	9,897.5	9,947.1	9,897.5	30.0	25.1	103.49	-99.6	-645.0	426.8	373.3	53.49	7.978		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)				
10,100.0	9,997.5	10,047.1	9,997.5	30.0	25.1	103.49	-99.6	-645.0	426.8	373.2	53.57	7.967		
10,200.0	10,097.5	10,147.1	10,097.5	30.0	25.1	103.49	-99.6	-645.0	426.8	373.1	53.64	7.956		
10,300.0	10,197.5	10,247.1	10,197.5	30.1	25.2	103.49	-99.6	-645.0	426.8	373.1	53.72	7.945		
10,400.0	10,297.5	10,347.1	10,297.5	30.1	25.2	103.49	-99.6	-645.0	426.8	373.0	53.79	7.934		
10,500.0	10,397.5	10,447.1	10,397.5	30.1	25.3	103.49	-99.6	-645.0	426.8	372.9	53.87	7.923		
10,600.0	10,497.5	10,547.1	10,497.5	30.2	25.3	103.49	-99.6	-645.0	426.8	372.8	53.94	7.912		
10,700.0	10,597.5	10,647.1	10,597.5	30.2	25.3	103.49	-99.6	-645.0	426.8	372.8	54.02	7.901		
10,800.0	10,697.5	10,747.1	10,697.5	30.2	25.4	103.49	-99.6	-645.0	426.8	372.7	54.09	7.889		
10,900.0	10,797.5	10,847.1	10,797.5	30.3	25.4	103.49	-99.6	-645.0	426.8	372.6	54.17	7.878		
11,000.0	10,897.5	10,947.1	10,897.5	30.3	25.5	103.49	-99.6	-645.0	426.8	372.5	54.25	7.867		
11,100.0	10,997.5	11,047.1	10,997.5	30.3	25.5	103.49	-99.6	-645.0	426.8	372.4	54.33	7.856		
11,200.0	11,097.5	11,147.1	11,097.5	30.4	25.6	103.49	-99.6	-645.0	426.8	372.4	54.40	7.845		
11,205.6	11,103.1	11,152.6	11,103.1	30.4	25.6	103.49	-99.6	-645.0	426.8	372.4	54.41	7.844		
11,300.0	11,197.5	11,241.6	11,192.1	30.4	25.6	103.54	-100.0	-645.0	426.9	372.6	54.38	7.852		
11,400.0	11,297.5	11,318.5	11,268.3	30.4	25.6	104.72	-109.2	-644.2	430.9	377.1	53.80	8.010		
11,500.0	11,397.4	11,391.3	11,338.3	30.5	25.6	-72.20	-129.2	-642.6	440.0	387.2	52.82	8.331		
11,600.0	11,494.8	11,462.2	11,402.7	30.4	25.6	-69.37	-158.5	-640.2	450.0	398.1	51.88	8.675		
11,700.0	11,585.6	11,532.0	11,461.1	30.4	25.7	-67.28	-196.3	-637.0	459.3	408.1	51.19	8.973		
11,800.0	11,665.7	11,600.0	11,512.2	30.5	25.7	-65.94	-241.0	-633.4	467.2	416.4	50.80	9.197		
11,900.0	11,731.7	11,669.8	11,557.4	30.5	25.7	-65.36	-293.9	-629.0	473.3	422.6	50.69	9.337		
12,000.0	11,780.7	11,738.5	11,594.0	30.5	25.8	-65.53	-351.9	-624.3	477.2	426.4	50.81	9.392		
12,100.0	11,810.6	11,807.7	11,622.0	30.6	25.9	-66.43	-414.9	-619.1	479.0	427.9	51.13	9.369		
12,200.0	11,820.0	11,875.0	11,640.1	30.7	25.9	-67.95	-479.4	-613.8	479.1	427.5	51.64	9.277		
12,300.0	11,820.0	11,950.0	11,649.5	30.9	26.0	-69.24	-553.5	-607.7	481.8	429.8	52.05	9.258		
12,400.0	11,820.0	12,055.0	11,650.0	31.0	26.2	-69.59	-658.2	-600.3	487.9	435.8	52.06	9.371		
12,500.0	11,820.0	12,174.1	11,650.0	31.2	26.5	-69.72	-777.2	-596.4	490.5	438.5	52.00	9.432		
12,600.0	11,820.0	12,278.3	11,650.0	31.5	26.7	-69.72	-881.4	-596.1	490.4	438.3	52.09	9.413		
12,700.0	11,820.0	12,378.3	11,650.0	31.7	27.0	-69.71	-981.4	-595.8	490.2	437.9	52.28	9.376		
12,800.0	11,820.0	12,478.3	11,650.0	32.0	27.3	-69.70	-1,081.4	-595.6	490.0	437.5	52.54	9.327		
12,900.0	11,820.0	12,578.3	11,650.0	32.3	27.6	-69.69	-1,181.4	-595.3	489.8	437.0	52.86	9.267		
13,000.0	11,820.0	12,678.3	11,650.0	32.7	28.0	-69.68	-1,281.4	-595.1	489.6	436.4	53.24	9.197		
13,100.0	11,820.0	12,778.3	11,650.0	33.0	28.4	-69.67	-1,381.4	-594.9	489.4	435.7	53.68	9.117		
13,200.0	11,820.0	12,878.3	11,650.0	33.4	28.8	-69.67	-1,481.4	-594.6	489.2	435.0	54.19	9.028		
13,300.0	11,820.0	12,978.3	11,650.0	33.8	29.2	-69.66	-1,581.4	-594.4	489.0	434.3	54.75	8.932		
13,400.0	11,820.0	13,078.3	11,650.0	34.3	29.7	-69.65	-1,681.4	-594.1	488.8	433.5	55.37	8.828		
13,500.0	11,820.0	13,178.3	11,650.0	34.7	30.2	-69.64	-1,781.4	-593.9	488.7	432.6	56.05	8.718		
13,600.0	11,820.0	13,278.3	11,650.0	35.2	30.7	-69.63	-1,881.4	-593.6	488.5	431.7	56.78	8.603		
13,700.0	11,820.0	13,378.3	11,650.0	35.7	31.3	-69.62	-1,981.4	-593.4	488.3	430.7	57.56	8.483		
13,800.0	11,820.0	13,478.3	11,650.0	36.2	31.8	-69.62	-2,081.4	-593.2	488.1	429.7	58.39	8.359		
13,900.0	11,820.0	13,578.2	11,650.0	36.8	32.4	-69.61	-2,181.4	-592.9	487.9	428.6	59.26	8.233		
14,000.0	11,820.0	13,678.2	11,650.0	37.3	33.0	-69.60	-2,281.4	-592.7	487.7	427.5	60.18	8.103		
14,100.0	11,820.0	13,778.2	11,650.0	37.9	33.6	-69.59	-2,381.4	-592.4	487.5	426.3	61.15	7.973		
14,200.0	11,820.0	13,878.2	11,650.0	38.5	34.3	-69.58	-2,481.4	-592.2	487.3	425.2	62.15	7.841		
14,300.0	11,820.0	13,978.2	11,650.0	39.1	34.9	-69.57	-2,581.4	-591.9	487.1	423.9	63.19	7.708		
14,400.0	11,820.0	14,078.2	11,650.0	39.7	35.6	-69.57	-2,681.4	-591.7	486.9	422.6	64.27	7.576		
14,500.0	11,820.0	14,178.2	11,650.0	40.3	36.3	-69.56	-2,781.4	-591.5	486.7	421.3	65.39	7.443		
14,600.0	11,820.0	14,278.2	11,650.0	41.0	37.0	-69.55	-2,881.4	-591.2	486.5	420.0	66.54	7.312		
14,700.0	11,820.0	14,378.2	11,650.0	41.6	37.7	-69.54	-2,981.4	-591.0	486.3	418.6	67.72	7.182		
14,800.0	11,820.0	14,478.2	11,650.0	42.3	38.4	-69.53	-3,081.4	-590.7	486.1	417.2	68.93	7.053		
14,900.0	11,820.0	14,578.2	11,650.0	43.0	39.1	-69.52	-3,181.4	-590.5	486.0	415.8	70.17	6.926		
15,000.0	11,820.0	14,678.2	11,650.0	43.7	39.9	-69.51	-3,281.4	-590.2	485.8	414.3	71.43	6.800		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,100.0	11,820.0	14,778.2	11,650.0	44.4	40.6	-69.51	-3,381.4	-590.0	485.6	412.8	72.72	6.677		
15,200.0	11,820.0	14,878.2	11,650.0	45.1	41.4	-69.50	-3,481.4	-589.8	485.4	411.3	74.04	6.556		
15,300.0	11,820.0	14,978.2	11,650.0	45.8	42.2	-69.49	-3,581.4	-589.5	485.2	409.8	75.38	6.437		
15,400.0	11,820.0	15,078.2	11,650.0	46.5	42.9	-69.48	-3,681.4	-589.3	485.0	408.3	76.73	6.320		
15,500.0	11,820.0	15,178.2	11,650.0	47.2	43.7	-69.47	-3,781.4	-589.0	484.8	406.7	78.11	6.206		
15,600.0	11,820.0	15,278.2	11,650.0	48.0	44.5	-69.46	-3,881.4	-588.8	484.6	405.1	79.51	6.095		
15,700.0	11,820.0	15,378.2	11,650.0	48.7	45.3	-69.46	-3,981.4	-588.5	484.4	403.5	80.93	5.986		
15,800.0	11,820.0	15,478.2	11,650.0	49.5	46.1	-69.45	-4,081.4	-588.3	484.2	401.9	82.37	5.879		
15,900.0	11,820.0	15,578.2	11,650.0	50.3	46.9	-69.44	-4,181.4	-588.1	484.0	400.2	83.82	5.775		
16,000.0	11,820.0	15,678.2	11,650.0	51.0	47.7	-69.43	-4,281.4	-587.8	483.8	398.6	85.28	5.673		
16,100.0	11,820.0	15,778.2	11,650.0	51.8	48.5	-69.42	-4,381.4	-587.6	483.6	396.9	86.77	5.574		
16,200.0	11,820.0	15,878.2	11,650.0	52.6	49.4	-69.41	-4,481.4	-587.3	483.5	395.2	88.26	5.477		
16,300.0	11,820.0	15,978.2	11,650.0	53.4	50.2	-69.40	-4,581.4	-587.1	483.3	393.5	89.77	5.383		
16,400.0	11,820.0	16,078.2	11,650.0	54.2	51.0	-69.40	-4,681.4	-586.8	483.1	391.8	91.29	5.291		
16,500.0	11,820.0	16,178.2	11,650.0	55.0	51.9	-69.39	-4,781.4	-586.6	482.9	390.0	92.83	5.202		
16,600.0	11,820.0	16,278.2	11,650.0	55.8	52.7	-69.38	-4,881.4	-586.4	482.7	388.3	94.37	5.115		
16,700.0	11,820.0	16,378.2	11,650.0	56.6	53.6	-69.37	-4,981.4	-586.1	482.5	386.6	95.93	5.030		
16,800.0	11,820.0	16,478.2	11,650.0	57.4	54.4	-69.36	-5,081.4	-585.9	482.3	384.8	97.50	4.947		
16,900.0	11,820.0	16,578.2	11,650.0	58.2	55.3	-69.35	-5,181.4	-585.6	482.1	383.0	99.08	4.866		
17,000.0	11,820.0	16,678.2	11,650.0	59.1	56.1	-69.34	-5,281.4	-585.4	481.9	381.3	100.66	4.787		
17,100.0	11,820.0	16,778.2	11,650.0	59.9	57.0	-69.34	-5,381.4	-585.1	481.7	379.5	102.26	4.711		
17,200.0	11,820.0	16,878.2	11,650.0	60.7	57.9	-69.33	-5,481.4	-584.9	481.5	377.7	103.86	4.636		
17,300.0	11,820.0	16,978.2	11,650.0	61.5	58.7	-69.32	-5,581.4	-584.6	481.3	375.9	105.47	4.564		
17,400.0	11,820.0	17,078.2	11,650.0	62.4	59.6	-69.31	-5,681.4	-584.4	481.1	374.0	107.09	4.493		
17,500.0	11,820.0	17,178.2	11,650.0	63.2	60.5	-69.30	-5,781.4	-584.2	481.0	372.2	108.72	4.424		
17,600.0	11,820.0	17,278.2	11,650.0	64.1	61.4	-69.29	-5,881.4	-583.9	480.8	370.4	110.36	4.356		
17,700.0	11,820.0	17,378.2	11,650.0	64.9	62.2	-69.28	-5,981.4	-583.7	480.6	368.6	112.00	4.291		
17,800.0	11,820.0	17,478.2	11,650.0	65.8	63.1	-69.27	-6,081.4	-583.4	480.4	366.7	113.65	4.227		
17,900.0	11,820.0	17,578.2	11,650.0	66.6	64.0	-69.27	-6,181.3	-583.2	480.2	364.9	115.30	4.165		
18,000.0	11,820.0	17,678.2	11,650.0	67.5	64.9	-69.26	-6,281.3	-582.9	480.0	363.0	116.96	4.104		
18,100.0	11,820.0	17,778.2	11,650.0	68.4	65.8	-69.25	-6,381.3	-582.7	479.8	361.2	118.63	4.045		
18,200.0	11,820.0	17,878.2	11,650.0	69.2	66.7	-69.24	-6,481.3	-582.5	479.6	359.3	120.30	3.987		
18,300.0	11,820.0	17,978.2	11,650.0	70.1	67.6	-69.23	-6,581.3	-582.2	479.4	357.4	121.97	3.931		
18,400.0	11,820.0	18,078.2	11,650.0	71.0	68.4	-69.22	-6,681.3	-582.0	479.2	355.6	123.65	3.876		
18,500.0	11,820.0	18,178.2	11,650.0	71.8	69.3	-69.21	-6,781.3	-581.7	479.0	353.7	125.34	3.822		
18,600.0	11,820.0	18,278.2	11,650.0	72.7	70.2	-69.20	-6,881.3	-581.5	478.8	351.8	127.03	3.769		
18,700.0	11,820.0	18,378.2	11,650.0	73.6	71.1	-69.20	-6,981.3	-581.2	478.6	349.9	128.73	3.718		
18,800.0	11,820.0	18,478.2	11,650.0	74.4	72.0	-69.19	-7,081.3	-581.0	478.5	348.0	130.43	3.668		
18,900.0	11,820.0	18,578.2	11,650.0	75.3	72.9	-69.18	-7,181.3	-580.8	478.3	346.1	132.13	3.620		
19,000.0	11,820.0	18,678.2	11,650.0	76.2	73.8	-69.17	-7,281.3	-580.5	478.1	344.2	133.84	3.572		
19,100.0	11,820.0	18,778.2	11,650.0	77.1	74.7	-69.16	-7,381.3	-580.3	477.9	342.3	135.55	3.526		
19,200.0	11,820.0	18,878.2	11,650.0	78.0	75.7	-69.15	-7,481.3	-580.0	477.7	340.4	137.26	3.480		
19,300.0	11,820.0	18,978.2	11,650.0	78.9	76.6	-69.14	-7,581.3	-579.8	477.5	338.5	138.98	3.436		
19,400.0	11,820.0	19,078.2	11,650.0	79.8	77.5	-69.13	-7,681.3	-579.5	477.3	336.6	140.70	3.392		
19,447.4	11,820.0	19,125.0	11,650.0	80.2	77.8	-69.13	-7,728.1	-579.4	477.2	335.8	141.43	3.374		
19,448.4	11,820.0	19,125.0	11,650.0	80.2	77.8	-69.13	-7,728.1	-579.4	477.2	335.8	141.43	3.374		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
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	
1,100.0	1,100.0	1,102.0	1,102.0	5.2	5.2	179.73	0.3	58.3	60.0	49.3	10.71	5.606	
1,200.0	1,199.8	1,204.0	1,203.9	5.4	5.4	-178.65	-1.4	53.1	60.2	49.0	11.18	5.385	
1,300.0	1,299.5	1,306.0	1,305.4	5.7	5.7	-175.98	-4.3	44.5	60.6	49.0	11.67	5.196 ES	
1,400.0	1,398.7	1,407.9	1,406.5	6.0	6.0	-172.31	-8.2	32.5	61.4	49.2	12.16	5.051	
1,500.0	1,497.5	1,508.7	1,506.1	6.3	6.2	-168.04	-13.1	17.7	63.2	50.6	12.56	5.031 SF	
1,600.0	1,595.6	1,608.5	1,604.7	6.6	6.4	-164.67	-18.0	2.7	68.3	55.3	12.99	5.256	
1,700.0	1,693.6	1,708.2	1,703.1	6.9	6.7	-162.09	-23.0	-12.3	74.8	61.3	13.49	5.546	
1,800.0	1,791.5	1,808.0	1,801.6	7.2	7.0	-159.93	-27.9	-27.3	81.4	67.5	13.97	5.830	
1,900.0	1,889.4	1,907.7	1,900.1	7.5	7.3	-158.09	-32.8	-42.2	88.2	73.7	14.47	6.093	
2,000.0	1,987.3	2,007.4	1,998.6	7.8	7.6	-156.52	-37.8	-57.2	95.0	80.0	14.99	6.338	
2,100.0	2,085.2	2,107.2	2,097.1	8.1	7.9	-155.16	-42.7	-72.2	101.9	86.4	15.52	6.564	
2,200.0	2,183.2	2,206.9	2,195.5	8.5	8.3	-153.97	-47.6	-87.2	108.8	92.7	16.06	6.774	
2,300.0	2,281.1	2,306.6	2,294.0	8.9	8.6	-152.92	-52.6	-102.2	115.8	99.1	16.61	6.968	
2,400.0	2,379.0	2,406.4	2,392.5	9.2	9.0	-151.99	-57.5	-117.1	122.8	105.6	17.17	7.148	
2,500.0	2,476.9	2,505.9	2,490.7	9.6	9.3	-151.18	-62.4	-132.1	129.8	112.1	17.73	7.323	
2,600.0	2,574.9	2,604.0	2,587.8	10.0	9.7	-150.79	-66.9	-145.7	137.6	119.3	18.36	7.495	
2,700.0	2,672.8	2,701.9	2,684.9	10.4	10.1	-150.94	-70.9	-157.8	146.6	127.6	19.00	7.718	
2,800.0	2,770.7	2,800.0	2,782.4	10.8	10.4	-151.51	-74.4	-168.3	156.8	137.1	19.67	7.971	
2,900.0	2,868.6	2,897.0	2,878.9	11.2	10.8	-152.43	-77.3	-177.2	168.1	147.8	20.37	8.254	
3,000.0	2,966.6	2,994.1	2,975.7	11.6	11.1	-153.59	-79.7	-184.4	180.7	159.6	21.10	8.565	
3,100.0	3,064.5	3,090.7	3,072.1	12.0	11.4	-154.94	-81.6	-190.1	194.6	172.8	21.85	8.907	
3,200.0	3,162.4	3,186.9	3,168.2	12.5	11.7	-156.41	-82.9	-194.3	209.8	187.2	22.60	9.283	
3,300.0	3,260.3	3,282.6	3,263.8	12.9	12.0	-157.94	-83.8	-196.9	226.4	203.1	23.35	9.696	
3,400.0	3,358.2	3,377.7	3,359.0	13.3	12.2	-159.49	-84.1	-198.0	244.5	220.4	24.05	10.166	
3,500.0	3,456.2	3,474.9	3,456.2	13.8	12.5	-161.02	-84.1	-198.0	263.6	238.6	24.95	10.563	
3,600.0	3,554.1	3,572.8	3,554.1	14.2	12.6	-162.35	-84.1	-198.0	282.9	257.2	25.67	11.021	
3,700.0	3,652.0	3,670.8	3,652.0	14.6	12.7	-163.51	-84.1	-198.0	302.3	276.0	26.28	11.501	
3,800.0	3,749.9	3,768.7	3,749.9	15.1	12.8	-164.54	-84.1	-198.0	321.8	294.9	26.89	11.966	
3,900.0	3,847.9	3,866.6	3,847.9	15.5	12.8	-165.44	-84.1	-198.0	341.4	313.9	27.50	12.416	
4,000.0	3,945.8	3,964.5	3,945.8	16.0	12.9	-166.25	-84.1	-198.0	361.1	333.0	28.10	12.852	
4,100.0	4,043.7	4,062.4	4,043.7	16.4	12.9	-166.97	-84.1	-198.0	380.8	352.1	28.70	13.272	
4,200.0	4,141.6	4,160.4	4,141.6	16.8	13.0	-167.63	-84.1	-198.0	400.6	371.3	29.29	13.677	
4,300.0	4,239.6	4,258.3	4,239.6	17.3	13.1	-168.22	-84.1	-198.0	420.5	390.6	29.89	14.068	
4,400.0	4,337.5	4,356.2	4,337.5	17.7	13.1	-168.76	-84.1	-198.0	440.4	409.9	30.48	14.446	
4,500.0	4,435.4	4,454.1	4,435.4	18.2	13.2	-169.25	-84.1	-198.0	460.3	429.2	31.08	14.809	
4,600.0	4,533.3	4,552.1	4,533.3	18.6	13.2	-169.70	-84.1	-198.0	480.2	448.5	31.68	15.160	
4,700.0	4,631.2	4,650.0	4,631.2	19.1	13.3	-170.11	-84.1	-198.0	500.2	467.9	32.28	15.497	
4,800.0	4,729.2	4,747.9	4,729.2	19.5	13.4	-170.50	-84.1	-198.0	520.2	487.3	32.88	15.823	
4,900.0	4,827.1	4,845.8	4,827.1	20.0	13.4	-170.85	-84.1	-198.0	540.2	506.7	33.48	16.137	
5,000.0	4,925.0	4,943.8	4,925.0	20.5	13.5	-171.18	-84.1	-198.0	560.3	526.2	34.08	16.440	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	Factor		
5,100.0	5,022.9	5,041.7	5,022.9	20.9	13.5	-171.49	-84.1	-198.0	580.3	545.6	34.68	16.732		
5,200.0	5,120.9	5,139.6	5,120.9	21.4	13.6	-171.77	-84.1	-198.0	600.4	565.1	35.29	17.014		
5,300.0	5,218.8	5,237.5	5,218.8	21.8	13.7	-172.04	-84.1	-198.0	620.5	584.6	35.89	17.286		
5,400.0	5,316.7	5,335.4	5,316.7	22.3	13.7	-172.29	-84.1	-198.0	640.5	604.0	36.50	17.549		
5,500.0	5,414.6	5,433.4	5,414.6	22.7	13.8	-172.53	-84.1	-198.0	660.6	623.5	37.11	17.802		
5,600.0	5,512.6	5,531.3	5,512.6	23.2	13.9	-172.75	-84.1	-198.0	680.8	643.0	37.72	18.047		
5,700.0	5,610.5	5,629.2	5,610.5	23.7	13.9	-172.96	-84.1	-198.0	700.9	662.6	38.33	18.284		
5,800.0	5,708.4	5,727.1	5,708.4	24.1	14.0	-173.16	-84.1	-198.0	721.0	682.1	38.95	18.512		
5,900.0	5,806.3	5,825.1	5,806.3	24.6	14.1	-173.34	-84.1	-198.0	741.2	701.6	39.56	18.733		
6,000.0	5,904.3	5,923.1	5,904.3	25.0	14.1	-173.53	-84.1	-198.0	760.9	720.8	40.16	18.947		
6,100.0	6,002.6	6,021.4	6,002.6	25.5	14.2	-173.70	-84.1	-198.0	779.1	738.3	40.76	19.112		
6,200.0	6,101.3	6,120.0	6,101.3	25.9	14.2	-173.85	-84.1	-198.0	795.5	754.2	41.36	19.235		
6,300.0	6,200.2	6,218.9	6,200.2	26.4	14.3	-173.98	-84.1	-198.0	810.3	768.3	41.94	19.320		
6,400.0	6,299.3	6,318.0	6,299.3	26.8	14.4	-174.09	-84.1	-198.0	823.3	780.8	42.51	19.368		
6,500.0	6,398.6	6,417.4	6,398.6	27.2	14.4	-174.18	-84.1	-198.0	834.6	791.5	43.06	19.382		
6,600.0	6,498.2	6,516.9	6,498.2	27.6	14.5	-174.26	-84.1	-198.0	844.2	800.6	43.59	19.365		
6,700.0	6,597.9	6,616.6	6,597.9	28.0	14.6	-174.32	-84.1	-198.0	852.0	807.9	44.11	19.318		
6,800.0	6,697.7	6,716.4	6,697.7	28.3	14.6	-174.37	-84.1	-198.0	858.1	813.6	44.59	19.245		
6,900.0	6,797.6	6,816.3	6,797.6	28.6	14.7	-174.40	-84.1	-198.0	862.5	817.5	45.04	19.148		
7,000.0	6,897.5	6,916.3	6,897.5	28.9	14.8	-174.42	-84.1	-198.0	865.2	819.7	45.45	19.035		
7,100.0	6,997.5	7,016.3	6,997.5	29.1	14.8	-174.42	-84.1	-198.0	866.1	820.4	45.68	18.959		
7,200.0	7,097.5	7,116.3	7,097.5	29.1	14.9	95.58	-84.1	-198.0	866.1	820.3	45.76	18.926		
7,300.0	7,197.5	7,216.3	7,197.5	29.1	15.0	95.58	-84.1	-198.0	866.1	820.3	45.84	18.894		
7,400.0	7,297.5	7,316.3	7,297.5	29.2	15.0	95.58	-84.1	-198.0	866.1	820.2	45.92	18.862		
7,500.0	7,397.5	7,416.3	7,397.5	29.2	15.1	95.58	-84.1	-198.0	866.1	820.1	46.00	18.829		
7,600.0	7,497.5	7,516.3	7,497.5	29.2	15.2	95.58	-84.1	-198.0	866.1	820.0	46.08	18.797		
7,700.0	7,597.5	7,616.3	7,597.5	29.2	15.2	95.58	-84.1	-198.0	866.1	819.9	46.16	18.765		
7,800.0	7,697.5	7,716.3	7,697.5	29.3	15.3	95.58	-84.1	-198.0	866.1	819.9	46.24	18.732		
7,900.0	7,797.5	7,816.3	7,797.5	29.3	15.4	95.58	-84.1	-198.0	866.1	819.8	46.32	18.700		
8,000.0	7,897.5	7,916.3	7,897.5	29.3	15.5	95.58	-84.1	-198.0	866.1	819.7	46.40	18.667		
8,100.0	7,997.5	8,016.3	7,997.5	29.4	15.5	95.58	-84.1	-198.0	866.1	819.6	46.48	18.634		
8,200.0	8,097.5	8,116.3	8,097.5	29.4	15.6	95.58	-84.1	-198.0	866.1	819.5	46.56	18.602		
8,300.0	8,197.5	8,216.3	8,197.5	29.4	15.7	95.58	-84.1	-198.0	866.1	819.4	46.64	18.569		
8,400.0	8,297.5	8,316.3	8,297.5	29.5	15.7	95.58	-84.1	-198.0	866.1	819.4	46.72	18.536		
8,500.0	8,397.5	8,416.3	8,397.5	29.5	15.8	95.58	-84.1	-198.0	866.1	819.3	46.81	18.503		
8,600.0	8,497.5	8,516.3	8,497.5	29.5	15.9	95.58	-84.1	-198.0	866.1	819.2	46.89	18.470		
8,700.0	8,597.5	8,616.3	8,597.5	29.5	15.9	95.58	-84.1	-198.0	866.1	819.1	46.98	18.437		
8,800.0	8,697.5	8,716.3	8,697.5	29.6	16.0	95.58	-84.1	-198.0	866.1	819.0	47.06	18.404		
8,900.0	8,797.5	8,816.3	8,797.5	29.6	16.1	95.58	-84.1	-198.0	866.1	818.9	47.14	18.371		
9,000.0	8,897.5	8,916.3	8,897.5	29.6	16.1	95.58	-84.1	-198.0	866.1	818.9	47.23	18.338		
9,100.0	8,997.5	9,016.3	8,997.5	29.7	16.2	95.58	-84.1	-198.0	866.1	818.8	47.31	18.305		
9,200.0	9,097.5	9,116.3	9,097.5	29.7	16.3	95.58	-84.1	-198.0	866.1	818.7	47.40	18.272		
9,300.0	9,197.5	9,216.3	9,197.5	29.7	16.4	95.58	-84.1	-198.0	866.1	818.6	47.49	18.239		
9,400.0	9,297.5	9,316.3	9,297.5	29.8	16.4	95.58	-84.1	-198.0	866.1	818.5	47.57	18.206		
9,500.0	9,397.5	9,416.3	9,397.5	29.8	16.5	95.58	-84.1	-198.0	866.1	818.4	47.66	18.172		
9,600.0	9,497.5	9,516.3	9,497.5	29.8	16.6	95.58	-84.1	-198.0	866.1	818.3	47.75	18.139		
9,700.0	9,597.5	9,616.3	9,597.5	29.9	16.6	95.58	-84.1	-198.0	866.1	818.3	47.83	18.106		
9,800.0	9,697.5	9,716.3	9,697.5	29.9	16.7	95.58	-84.1	-198.0	866.1	818.2	47.92	18.073		
9,900.0	9,797.5	9,816.3	9,797.5	29.9	16.8	95.58	-84.1	-198.0	866.1	818.1	48.01	18.039		
10,000.0	9,897.5	9,916.3	9,897.5	30.0	16.8	95.58	-84.1	-198.0	866.1	818.0	48.10	18.006		
10,100.0	9,997.5	10,016.3	9,997.5	30.0	16.9	95.58	-84.1	-198.0	866.1	817.9	48.19	17.972		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
10,200.0	10,097.5	10,116.3	10,097.5	30.0	17.0	95.58	-84.1	-198.0	866.1	817.8	48.28	17.939		
10,300.0	10,197.5	10,216.3	10,197.5	30.1	17.1	95.58	-84.1	-198.0	866.1	817.7	48.37	17.906		
10,400.0	10,297.5	10,316.3	10,297.5	30.1	17.1	95.58	-84.1	-198.0	866.1	817.6	48.46	17.872		
10,500.0	10,397.5	10,416.3	10,397.5	30.1	17.2	95.58	-84.1	-198.0	866.1	817.5	48.55	17.839		
10,600.0	10,497.5	10,516.3	10,497.5	30.2	17.3	95.58	-84.1	-198.0	866.1	817.4	48.64	17.805		
10,700.0	10,597.5	10,616.3	10,597.5	30.2	17.3	95.58	-84.1	-198.0	866.1	817.4	48.73	17.772		
10,800.0	10,697.5	10,716.3	10,697.5	30.2	17.4	95.58	-84.1	-198.0	866.1	817.3	48.83	17.739		
10,900.0	10,797.5	10,816.3	10,797.5	30.3	17.5	95.58	-84.1	-198.0	866.1	817.2	48.92	17.705		
11,000.0	10,897.5	10,916.3	10,897.5	30.3	17.6	95.58	-84.1	-198.0	866.1	817.1	49.01	17.672		
11,100.0	10,997.5	11,016.3	10,997.5	30.3	17.6	95.58	-84.1	-198.0	866.1	817.0	49.10	17.638		
11,200.0	11,097.5	11,116.3	11,097.5	30.4	17.7	95.58	-84.1	-198.0	866.1	816.9	49.20	17.605		
11,300.0	11,197.5	11,216.3	11,197.5	30.4	17.8	95.58	-84.1	-198.0	866.1	816.8	49.29	17.571		
11,400.0	11,297.5	11,316.3	11,297.5	30.4	17.8	95.58	-84.1	-198.0	866.1	816.7	49.38	17.539		
11,471.9	11,369.4	11,381.0	11,362.3	30.5	17.9	-84.32	-84.6	-198.0	865.9	816.5	49.36	17.543		
11,500.0	11,397.4	11,400.0	11,381.2	30.5	17.9	-84.19	-85.7	-197.8	866.2	816.9	49.30	17.572		
11,600.0	11,494.8	11,475.0	11,455.2	30.4	17.9	-84.37	-97.6	-196.6	867.2	818.1	49.11	17.658		
11,700.0	11,585.6	11,550.0	11,526.4	30.4	17.9	-84.71	-120.8	-194.2	869.3	820.3	48.98	17.748		
11,800.0	11,665.7	11,625.0	11,593.0	30.5	18.0	-85.18	-154.8	-190.6	872.4	823.4	48.91	17.836		
11,900.0	11,731.7	11,700.0	11,653.5	30.5	18.0	-85.76	-198.7	-186.0	876.6	827.7	48.93	17.915		
12,000.0	11,780.7	11,779.8	11,709.4	30.5	18.1	-86.48	-255.2	-180.0	882.2	833.1	49.08	17.976		
12,100.0	11,810.6	11,861.4	11,756.1	30.6	18.2	-87.28	-321.7	-173.0	889.0	839.7	49.35	18.016		
12,200.0	11,820.0	11,946.9	11,792.0	30.7	18.3	-88.20	-398.7	-164.9	897.3	847.5	49.77	18.029		
12,300.0	11,820.0	12,040.1	11,814.7	30.9	18.5	-89.66	-488.5	-155.5	906.8	856.5	50.26	18.042		
12,400.0	11,820.0	12,152.2	11,820.0	31.0	18.7	-90.00	-599.7	-144.1	916.6	865.9	50.69	18.081		
12,500.0	11,820.0	12,299.2	11,820.0	31.2	19.0	-90.00	-746.4	-134.6	922.6	871.4	51.20	18.018		
12,600.0	11,820.0	12,435.4	11,820.0	31.5	19.4	-90.00	-882.6	-132.4	923.6	871.9	51.77	17.841		
12,700.0	11,820.0	12,535.4	11,820.0	31.7	19.8	-90.00	-982.6	-132.4	923.2	870.8	52.38	17.623		
12,800.0	11,820.0	12,635.4	11,820.0	32.0	20.1	-90.00	-1,082.6	-132.4	922.7	869.7	53.06	17.390		
12,900.0	11,820.0	12,735.4	11,820.0	32.3	20.6	-90.00	-1,182.6	-132.4	922.2	868.5	53.79	17.145		
13,000.0	11,820.0	12,835.4	11,820.0	32.7	21.1	-90.00	-1,282.6	-132.5	921.8	867.2	54.58	16.888		
13,100.0	11,820.0	12,935.4	11,820.0	33.0	21.6	-90.00	-1,382.6	-132.5	921.3	865.9	55.43	16.622		
13,200.0	11,820.0	13,035.4	11,820.0	33.4	22.1	-90.00	-1,482.6	-132.5	920.9	864.5	56.32	16.349		
13,300.0	11,820.0	13,135.4	11,820.0	33.8	22.7	-90.00	-1,582.6	-132.5	920.4	863.1	57.27	16.071		
13,400.0	11,820.0	13,235.4	11,820.0	34.3	23.3	-90.00	-1,682.6	-132.5	919.9	861.7	58.26	15.790		
13,500.0	11,820.0	13,335.4	11,820.0	34.7	23.9	-90.00	-1,782.6	-132.5	919.5	860.2	59.30	15.506		
13,600.0	11,820.0	13,435.4	11,820.0	35.2	24.6	-90.00	-1,882.6	-132.5	919.0	858.6	60.38	15.221		
13,700.0	11,820.0	13,535.4	11,820.0	35.7	25.3	-90.00	-1,982.6	-132.6	918.5	857.0	61.50	14.936		
13,800.0	11,820.0	13,635.4	11,820.0	36.2	26.0	-90.00	-2,082.6	-132.6	918.1	855.4	62.65	14.653		
13,900.0	11,820.0	13,735.4	11,820.0	36.8	26.7	-90.00	-2,182.6	-132.6	917.6	853.8	63.85	14.372		
14,000.0	11,820.0	13,835.4	11,820.0	37.3	27.4	-90.00	-2,282.6	-132.6	917.2	852.1	65.07	14.094		
14,100.0	11,820.0	13,935.4	11,820.0	37.9	28.1	-90.00	-2,382.6	-132.6	916.7	850.4	66.33	13.820		
14,200.0	11,820.0	14,035.4	11,820.0	38.5	28.9	-90.00	-2,482.6	-132.6	916.2	848.6	67.62	13.550		
14,300.0	11,820.0	14,135.4	11,820.0	39.1	29.7	-90.00	-2,582.6	-132.6	915.8	846.8	68.94	13.284		
14,400.0	11,820.0	14,235.4	11,820.0	39.7	30.5	-90.00	-2,682.6	-132.7	915.3	845.0	70.28	13.024		
14,500.0	11,820.0	14,335.4	11,820.0	40.3	31.3	-90.00	-2,782.6	-132.7	914.8	843.2	71.65	12.768		
14,600.0	11,820.0	14,435.4	11,820.0	41.0	32.1	-90.00	-2,882.6	-132.7	914.4	841.3	73.04	12.519		
14,700.0	11,820.0	14,535.4	11,820.0	41.6	32.9	-90.00	-2,982.6	-132.7	913.9	839.5	74.46	12.275		
14,800.0	11,820.0	14,635.4	11,820.0	42.3	33.7	-90.00	-3,082.6	-132.7	913.5	837.6	75.89	12.036		
14,900.0	11,820.0	14,735.4	11,820.0	43.0	34.5	-90.00	-3,182.6	-132.7	913.0	835.6	77.35	11.804		
15,000.0	11,820.0	14,835.4	11,820.0	43.7	35.3	-90.00	-3,282.6	-132.7	912.5	833.7	78.82	11.577		
15,100.0	11,820.0	14,935.4	11,820.0	44.4	36.2	-90.00	-3,382.6	-132.8	912.1	831.8	80.32	11.356		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.0	11,820.0	15,035.4	11,820.0	45.1	37.0	-90.00	-3,482.6	-132.8	911.6	829.8	81.83	11.141		
15,300.0	11,820.0	15,135.4	11,820.0	45.8	37.9	-90.00	-3,582.6	-132.8	911.1	827.8	83.35	10.931		
15,400.0	11,820.0	15,235.4	11,820.0	46.5	38.7	-90.00	-3,682.6	-132.8	910.7	825.8	84.89	10.727		
15,500.0	11,820.0	15,335.4	11,820.0	47.2	39.6	-90.00	-3,782.6	-132.8	910.2	823.8	86.45	10.529		
15,600.0	11,820.0	15,435.4	11,820.0	48.0	40.5	-90.00	-3,882.6	-132.8	909.8	821.7	88.02	10.336		
15,700.0	11,820.0	15,535.4	11,820.0	48.7	41.3	-90.00	-3,982.6	-132.8	909.3	819.7	89.60	10.148		
15,800.0	11,820.0	15,635.4	11,820.0	49.5	42.2	-90.00	-4,082.6	-132.9	908.8	817.6	91.19	9.966		
15,900.0	11,820.0	15,735.4	11,820.0	50.3	43.1	-90.00	-4,182.6	-132.9	908.4	815.6	92.80	9.789		
16,000.0	11,820.0	15,835.4	11,820.0	51.0	44.0	-90.00	-4,282.6	-132.9	907.9	813.5	94.41	9.616		
16,100.0	11,820.0	15,935.4	11,820.0	51.8	44.8	-90.00	-4,382.6	-132.9	907.4	811.4	96.04	9.449		
16,200.0	11,820.0	16,035.4	11,820.0	52.6	45.7	-90.00	-4,482.6	-132.9	907.0	809.3	97.68	9.286		
16,300.0	11,820.0	16,135.4	11,820.0	53.4	46.6	-90.00	-4,582.6	-132.9	906.5	807.2	99.32	9.127		
16,400.0	11,820.0	16,235.4	11,820.0	54.2	47.5	-90.00	-4,682.6	-132.9	906.1	805.1	100.98	8.973		
16,500.0	11,820.0	16,335.4	11,820.0	55.0	48.4	-90.00	-4,782.6	-133.0	905.6	803.0	102.64	8.823		
16,600.0	11,820.0	16,435.4	11,820.0	55.8	49.3	-90.00	-4,882.6	-133.0	905.1	800.8	104.31	8.677		
16,700.0	11,820.0	16,535.4	11,820.0	56.6	50.2	-90.00	-4,982.6	-133.0	904.7	798.7	105.99	8.536		
16,800.0	11,820.0	16,635.4	11,820.0	57.4	51.1	-90.00	-5,082.6	-133.0	904.2	796.5	107.67	8.398		
16,900.0	11,820.0	16,735.4	11,820.0	58.2	52.0	-90.00	-5,182.6	-133.0	903.7	794.4	109.37	8.263		
17,000.0	11,820.0	16,835.4	11,820.0	59.1	52.9	-90.00	-5,282.6	-133.0	903.3	792.2	111.07	8.133		
17,100.0	11,820.0	16,935.4	11,820.0	59.9	53.8	-90.00	-5,382.6	-133.0	902.8	790.0	112.77	8.006		
17,200.0	11,820.0	17,035.4	11,820.0	60.7	54.7	-90.00	-5,482.6	-133.1	902.4	787.9	114.48	7.882		
17,300.0	11,820.0	17,135.4	11,820.0	61.5	55.7	-90.00	-5,582.6	-133.1	901.9	785.7	116.20	7.761		
17,400.0	11,820.0	17,235.4	11,820.0	62.4	56.6	-90.00	-5,682.6	-133.1	901.4	783.5	117.93	7.644		
17,500.0	11,820.0	17,335.4	11,820.0	63.2	57.5	-90.00	-5,782.6	-133.1	901.0	781.3	119.65	7.530		
17,600.0	11,820.0	17,435.4	11,820.0	64.1	58.4	-90.00	-5,882.6	-133.1	900.5	779.1	121.39	7.418		
17,700.0	11,820.0	17,535.4	11,820.0	64.9	59.3	-90.00	-5,982.6	-133.1	900.0	776.9	123.13	7.310		
17,800.0	11,820.0	17,635.4	11,820.0	65.8	60.2	-90.00	-6,082.6	-133.1	899.6	774.7	124.87	7.204		
17,900.0	11,820.0	17,735.4	11,820.0	66.6	61.2	-90.00	-6,182.6	-133.2	899.1	772.5	126.62	7.101		
18,000.0	11,820.0	17,835.4	11,820.0	67.5	62.1	-90.00	-6,282.6	-133.2	898.7	770.3	128.37	7.001		
18,100.0	11,820.0	17,935.4	11,820.0	68.4	63.0	-90.00	-6,382.6	-133.2	898.2	768.1	130.12	6.903		
18,200.0	11,820.0	18,035.4	11,820.0	69.2	63.9	-90.00	-6,482.6	-133.2	897.7	765.8	131.88	6.807		
18,300.0	11,820.0	18,135.4	11,820.0	70.1	64.9	-90.00	-6,582.6	-133.2	897.3	763.6	133.65	6.714		
18,400.0	11,820.0	18,235.4	11,820.0	71.0	65.8	-90.00	-6,682.6	-133.2	896.8	761.4	135.42	6.623		
18,500.0	11,820.0	18,335.4	11,820.0	71.8	66.7	-90.00	-6,782.6	-133.2	896.3	759.2	137.19	6.534		
18,600.0	11,820.0	18,435.4	11,820.0	72.7	67.6	-90.00	-6,882.6	-133.3	895.9	756.9	138.96	6.447		
18,700.0	11,820.0	18,535.4	11,820.0	73.6	68.6	-90.00	-6,982.6	-133.3	895.4	754.7	140.74	6.362		
18,800.0	11,820.0	18,635.4	11,820.0	74.4	69.5	-90.00	-7,082.6	-133.3	895.0	752.4	142.52	6.280		
18,900.0	11,820.0	18,735.3	11,820.0	75.3	70.4	-90.00	-7,182.6	-133.3	894.5	750.2	144.30	6.199		
19,000.0	11,820.0	18,835.3	11,820.0	76.2	71.4	-90.00	-7,282.6	-133.3	894.0	747.9	146.09	6.120		
19,100.0	11,820.0	18,935.3	11,820.0	77.1	72.3	-90.00	-7,382.6	-133.3	893.6	745.7	147.88	6.043		
19,200.0	11,820.0	19,035.3	11,820.0	78.0	73.2	-90.00	-7,482.6	-133.3	893.1	743.4	149.67	5.967		
19,300.0	11,820.0	19,135.3	11,820.0	78.9	74.2	-90.00	-7,582.6	-133.4	892.6	741.2	151.46	5.893		
19,400.0	11,820.0	19,235.3	11,820.0	79.8	75.1	-90.00	-7,682.6	-133.4	892.2	738.9	153.26	5.821		
19,446.9	11,820.0	19,278.3	11,820.0	80.2	75.5	-90.00	-7,725.5	-133.4	892.0	737.9	154.05	5.790		
19,448.4	11,820.0	19,278.3	11,820.0	80.2	75.5	-90.00	-7,725.5	-133.4	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	89.18	1.3	90.0	90.0	83.6	6.43	13.999		
100.0	100.0	100.0	100.0	3.2	3.2	89.18	1.3	90.0	90.0	83.1	6.89	13.058		
200.0	200.0	200.0	200.0	3.5	3.5	89.18	1.3	90.0	90.0	82.7	7.33	12.281		
300.0	300.0	300.0	300.0	3.7	3.7	89.18	1.3	90.0	90.0	82.3	7.74	11.626		
400.0	400.0	400.0	400.0	3.9	3.9	89.18	1.3	90.0	90.0	81.9	8.14	11.063		
500.0	500.0	500.0	500.0	4.1	4.1	89.18	1.3	90.0	90.0	81.5	8.51	10.571		
600.0	600.0	600.0	600.0	4.2	4.2	89.18	1.3	90.0	90.0	81.1	8.88	10.138		
700.0	700.0	700.0	700.0	4.4	4.4	89.18	1.3	90.0	90.0	80.8	9.23	9.751		
800.0	800.0	800.0	800.0	4.6	4.6	89.18	1.3	90.0	90.0	80.4	9.57	9.404		
900.0	900.0	900.0	900.0	4.8	4.8	89.18	1.3	90.0	90.0	80.1	9.90	9.089		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	1.3	90.0	90.0	79.8	10.22	8.802 CC, ES		
1,100.0	1,100.0	1,097.1	1,097.1	5.2	5.2	179.59	0.7	91.5	93.3	82.6	10.70	8.724 SF		
1,200.0	1,199.8	1,193.5	1,193.4	5.4	5.4	-179.33	-1.2	96.0	103.2	92.1	11.16	9.253		
1,300.0	1,299.5	1,288.6	1,288.1	5.7	5.7	-177.94	-4.2	103.4	119.7	108.1	11.63	10.292		
1,400.0	1,398.7	1,381.9	1,380.7	6.0	5.9	-176.53	-8.3	113.5	142.8	130.6	12.13	11.769		
1,500.0	1,497.5	1,475.2	1,473.1	6.3	6.1	-175.27	-13.5	126.0	171.8	159.2	12.58	13.661		
1,600.0	1,595.6	1,569.7	1,566.5	6.6	6.3	-174.40	-18.8	139.0	204.5	191.5	13.04	15.683		
1,700.0	1,693.6	1,663.7	1,659.5	6.9	6.6	-173.84	-24.1	152.0	238.5	224.9	13.57	17.576		
1,800.0	1,791.5	1,757.8	1,752.5	7.2	6.8	-173.42	-29.3	164.9	272.4	258.3	14.10	19.326		
1,900.0	1,889.4	1,851.8	1,845.5	7.5	7.1	-173.10	-34.6	177.8	306.4	291.7	14.65	20.905		
2,000.0	1,987.3	1,945.9	1,938.5	7.8	7.4	-172.83	-39.9	190.8	340.3	325.1	15.24	22.327		
2,100.0	2,085.2	2,039.9	2,031.5	8.1	7.7	-172.62	-45.2	203.7	374.3	358.4	15.85	23.608		
2,200.0	2,183.2	2,134.0	2,124.5	8.5	8.0	-172.44	-50.5	216.6	408.2	391.8	16.49	24.761		
2,300.0	2,281.1	2,228.0	2,217.5	8.9	8.3	-172.29	-55.8	229.6	442.2	425.1	17.14	25.800		
2,400.0	2,379.0	2,322.1	2,310.5	9.2	8.6	-172.16	-61.1	242.5	476.2	458.4	17.81	26.737		
2,500.0	2,476.9	2,416.1	2,403.6	9.6	9.0	-172.05	-66.4	255.4	510.2	491.7	18.50	27.583		
2,600.0	2,574.9	2,510.2	2,496.6	10.0	9.3	-171.95	-71.7	268.4	544.1	524.9	19.19	28.354		
2,700.0	2,672.8	2,608.7	2,594.0	10.4	9.6	-171.86	-77.1	281.8	578.0	558.1	19.90	29.041		
2,800.0	2,770.7	2,713.9	2,698.3	10.8	10.0	-171.82	-82.4	294.6	610.4	589.7	20.70	29.481		
2,900.0	2,868.6	2,820.3	2,804.0	11.2	10.4	-171.83	-87.0	305.7	641.1	619.6	21.51	29.805		
3,000.0	2,966.6	2,927.9	2,911.2	11.6	10.8	-171.88	-90.8	315.2	670.1	647.7	22.31	30.031		
3,100.0	3,064.5	3,036.7	3,019.7	12.0	11.1	-171.97	-93.9	322.8	697.3	674.2	23.11	30.173		
3,200.0	3,162.4	3,146.6	3,129.4	12.5	11.5	-172.10	-96.3	328.6	722.7	698.8	23.89	30.248		
3,300.0	3,260.3	3,257.5	3,240.2	12.9	11.8	-172.26	-97.9	332.4	746.4	721.7	24.66	30.271		
3,400.0	3,358.2	3,369.4	3,352.0	13.3	12.1	-172.46	-98.6	334.3	768.2	742.8	25.38	30.274		
3,500.0	3,456.2	3,473.5	3,456.2	13.8	12.2	-172.66	-98.7	334.5	788.5	762.5	25.94	30.400		
3,600.0	3,554.1	3,571.4	3,554.1	14.2	12.3	-172.84	-98.7	334.5	808.6	782.1	26.45	30.575		
3,700.0	3,652.0	3,669.4	3,652.0	14.6	12.3	-173.02	-98.7	334.5	828.7	801.8	26.96	30.736		
3,800.0	3,749.9	3,767.3	3,749.9	15.1	12.4	-173.18	-98.7	334.5	848.9	821.4	27.49	30.883		
3,900.0	3,847.9	3,865.2	3,847.9	15.5	12.5	-173.34	-98.7	334.5	869.0	841.0	28.02	31.017		
4,000.0	3,945.8	3,963.1	3,945.8	16.0	12.5	-173.49	-98.7	334.5	889.1	860.6	28.55	31.140		
4,100.0	4,043.7	4,061.1	4,043.7	16.4	12.6	-173.64	-98.7	334.5	909.3	880.2	29.10	31.253		
4,200.0	4,141.6	4,159.0	4,141.6	16.8	12.7	-173.77	-98.7	334.5	929.5	899.8	29.64	31.355		
4,300.0	4,239.6	4,256.9	4,239.6	17.3	12.7	-173.91	-98.7	334.5	949.6	919.4	30.20	31.449		
4,400.0	4,337.5	4,354.8	4,337.5	17.7	12.8	-174.03	-98.7	334.5	969.8	939.0	30.75	31.535		
4,500.0	4,435.4	4,452.8	4,435.4	18.2	12.8	-174.16	-98.7	334.5	990.0	958.6	31.31	31.613		
4,600.0	4,533.3	4,550.7	4,533.3	18.6	12.9	-174.27	-98.7	334.5	1,010.1	978.2	31.88	31.684		
4,700.0	4,631.2	4,648.6	4,631.2	19.1	13.0	-174.39	-98.7	334.5	1,030.3	997.9	32.45	31.749		
4,800.0	4,729.2	4,746.5	4,729.2	19.5	13.0	-174.49	-98.7	334.5	1,050.5	1,017.5	33.03	31.808		
4,900.0	4,827.1	4,844.4	4,827.1	20.0	13.1	-174.60	-98.7	334.5	1,070.7	1,037.1	33.60	31.861		
5,000.0	4,925.0	4,942.4	4,925.0	20.5	13.1	-174.70	-98.7	334.5	1,090.9	1,056.7	34.19	31.910		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)				
5,100.0	5,022.9	5,040.3	5,022.9	20.9	13.2	-174.80	-98.7	334.5	1,111.1	1,076.3	34.77	31.954		
5,200.0	5,120.9	5,138.2	5,120.9	21.4	13.3	-174.89	-98.7	334.5	1,131.3	1,095.9	35.36	31.993		
5,300.0	5,218.8	5,236.1	5,218.8	21.8	13.3	-174.98	-98.7	334.5	1,151.5	1,115.5	35.95	32.029		
5,400.0	5,316.7	5,334.1	5,316.7	22.3	13.4	-175.06	-98.7	334.5	1,171.7	1,135.1	36.54	32.061		
5,500.0	5,414.6	5,432.0	5,414.6	22.7	13.5	-175.15	-98.7	334.5	1,191.9	1,154.7	37.14	32.090		
5,600.0	5,512.6	5,529.9	5,512.6	23.2	13.5	-175.23	-98.7	334.5	1,212.1	1,174.3	37.74	32.116		
5,700.0	5,610.5	5,627.8	5,610.5	23.7	13.6	-175.31	-98.7	334.5	1,232.3	1,193.9	38.34	32.139		
5,800.0	5,708.4	5,725.8	5,708.4	24.1	13.7	-175.38	-98.7	334.5	1,252.5	1,213.5	38.95	32.160		
5,900.0	5,806.3	5,823.7	5,806.3	24.6	13.7	-175.46	-98.7	334.5	1,272.7	1,233.1	39.55	32.178		
6,000.0	5,904.3	5,921.7	5,904.3	25.0	13.8	-175.54	-98.7	334.5	1,292.5	1,252.4	40.14	32.200		
6,100.0	6,002.6	6,020.0	6,002.6	25.5	13.8	-175.61	-98.7	334.5	1,310.7	1,270.0	40.74	32.175		
6,200.0	6,101.3	6,118.6	6,101.3	25.9	13.9	-175.68	-98.7	334.5	1,327.2	1,285.9	41.33	32.116		
6,300.0	6,200.2	6,217.5	6,200.2	26.4	14.0	-175.74	-98.7	334.5	1,342.0	1,300.1	41.90	32.027		
6,400.0	6,299.3	6,316.7	6,299.3	26.8	14.0	-175.79	-98.7	334.5	1,355.1	1,312.6	42.47	31.909		
6,500.0	6,398.6	6,416.0	6,398.6	27.2	14.1	-175.83	-98.7	334.5	1,366.4	1,323.4	43.02	31.765		
6,600.0	6,498.2	6,515.5	6,498.2	27.6	14.2	-175.87	-98.7	334.5	1,376.0	1,332.5	43.55	31.598		
6,700.0	6,597.9	6,615.2	6,597.9	28.0	14.2	-175.90	-98.7	334.5	1,383.9	1,339.8	44.06	31.410		
6,800.0	6,697.7	6,715.0	6,697.7	28.3	14.3	-175.92	-98.7	334.5	1,390.0	1,345.5	44.54	31.206		
6,900.0	6,797.6	6,814.9	6,797.6	28.6	14.4	-175.94	-98.7	334.5	1,394.4	1,349.4	45.00	30.990		
7,000.0	6,897.5	6,914.9	6,897.5	28.9	14.4	-175.95	-98.7	334.5	1,397.1	1,351.7	45.40	30.770		
7,100.0	6,997.5	7,014.9	6,997.5	29.1	14.5	-175.95	-98.7	334.5	1,398.0	1,352.3	45.63	30.635		
7,200.0	7,097.5	7,114.9	7,097.5	29.1	14.6	94.05	-98.7	334.5	1,398.0	1,352.3	45.71	30.582		
7,300.0	7,197.5	7,214.9	7,197.5	29.1	14.6	94.05	-98.7	334.5	1,398.0	1,352.2	45.79	30.530		
7,400.0	7,297.5	7,314.9	7,297.5	29.2	14.7	94.05	-98.7	334.5	1,398.0	1,352.1	45.87	30.478		
7,500.0	7,397.5	7,414.9	7,397.5	29.2	14.8	94.05	-98.7	334.5	1,398.0	1,352.0	45.95	30.427		
7,600.0	7,497.5	7,514.9	7,497.5	29.2	14.9	94.05	-98.7	334.5	1,398.0	1,352.0	46.02	30.375		
7,700.0	7,597.5	7,614.9	7,597.5	29.2	14.9	94.05	-98.7	334.5	1,398.0	1,351.9	46.10	30.322		
7,800.0	7,697.5	7,714.9	7,697.5	29.3	15.0	94.05	-98.7	334.5	1,398.0	1,351.8	46.18	30.270		
7,900.0	7,797.5	7,814.9	7,797.5	29.3	15.1	94.05	-98.7	334.5	1,398.0	1,351.7	46.26	30.218		
8,000.0	7,897.5	7,914.9	7,897.5	29.3	15.1	94.05	-98.7	334.5	1,398.0	1,351.6	46.34	30.166		
8,100.0	7,997.5	8,014.9	7,997.5	29.4	15.2	94.05	-98.7	334.5	1,398.0	1,351.6	46.42	30.113		
8,200.0	8,097.5	8,114.9	8,097.5	29.4	15.3	94.05	-98.7	334.5	1,398.0	1,351.5	46.51	30.060		
8,300.0	8,197.5	8,214.9	8,197.5	29.4	15.3	94.05	-98.7	334.5	1,398.0	1,351.4	46.59	30.008		
8,400.0	8,297.5	8,314.9	8,297.5	29.5	15.4	94.05	-98.7	334.5	1,398.0	1,351.3	46.67	29.955		
8,500.0	8,397.5	8,414.9	8,397.5	29.5	15.5	94.05	-98.7	334.5	1,398.0	1,351.2	46.75	29.902		
8,600.0	8,497.5	8,514.9	8,497.5	29.5	15.5	94.05	-98.7	334.5	1,398.0	1,351.1	46.83	29.849		
8,700.0	8,597.5	8,614.9	8,597.5	29.5	15.6	94.05	-98.7	334.5	1,398.0	1,351.1	46.92	29.796		
8,800.0	8,697.5	8,714.9	8,697.5	29.6	15.7	94.05	-98.7	334.5	1,398.0	1,351.0	47.00	29.743		
8,900.0	8,797.5	8,814.9	8,797.5	29.6	15.8	94.05	-98.7	334.5	1,398.0	1,350.9	47.09	29.690		
9,000.0	8,897.5	8,914.9	8,897.5	29.6	15.8	94.05	-98.7	334.5	1,398.0	1,350.8	47.17	29.637		
9,100.0	8,997.5	9,014.9	8,997.5	29.7	15.9	94.05	-98.7	334.5	1,398.0	1,350.7	47.26	29.584		
9,200.0	9,097.5	9,114.9	9,097.5	29.7	16.0	94.05	-98.7	334.5	1,398.0	1,350.6	47.34	29.530		
9,300.0	9,197.5	9,214.9	9,197.5	29.7	16.0	94.05	-98.7	334.5	1,398.0	1,350.6	47.43	29.477		
9,400.0	9,297.5	9,314.9	9,297.5	29.8	16.1	94.05	-98.7	334.5	1,398.0	1,350.5	47.51	29.424		
9,500.0	9,397.5	9,414.9	9,397.5	29.8	16.2	94.05	-98.7	334.5	1,398.0	1,350.4	47.60	29.370		
9,600.0	9,497.5	9,514.9	9,497.5	29.8	16.2	94.05	-98.7	334.5	1,398.0	1,350.3	47.69	29.317		
9,700.0	9,597.5	9,614.9	9,597.5	29.9	16.3	94.05	-98.7	334.5	1,398.0	1,350.2	47.77	29.263		
9,800.0	9,697.5	9,714.9	9,697.5	29.9	16.4	94.05	-98.7	334.5	1,398.0	1,350.1	47.86	29.209		
9,900.0	9,797.5	9,814.9	9,797.5	29.9	16.5	94.05	-98.7	334.5	1,398.0	1,350.0	47.95	29.156		
10,000.0	9,897.5	9,914.9	9,897.5	30.0	16.5	94.05	-98.7	334.5	1,398.0	1,349.9	48.04	29.102		
10,100.0	9,997.5	10,014.9	9,997.5	30.0	16.6	94.05	-98.7	334.5	1,398.0	1,349.9	48.13	29.048		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,200.0	10,097.5	10,114.9	10,097.5	30.0	16.7	94.05	94.05	-98.7	334.5	1,398.0	1,349.8	48.22	28.995	
10,300.0	10,197.5	10,214.9	10,197.5	30.1	16.7	94.05	94.05	-98.7	334.5	1,398.0	1,349.7	48.30	28.941	
10,400.0	10,297.5	10,314.9	10,297.5	30.1	16.8	94.05	94.05	-98.7	334.5	1,398.0	1,349.6	48.39	28.887	
10,500.0	10,397.5	10,414.9	10,397.5	30.1	16.9	94.05	94.05	-98.7	334.5	1,398.0	1,349.5	48.48	28.833	
10,600.0	10,497.5	10,514.9	10,497.5	30.2	17.0	94.05	94.05	-98.7	334.5	1,398.0	1,349.4	48.58	28.780	
10,700.0	10,597.5	10,614.9	10,597.5	30.2	17.0	94.05	94.05	-98.7	334.5	1,398.0	1,349.3	48.67	28.726	
10,800.0	10,697.5	10,714.9	10,697.5	30.2	17.1	94.05	94.05	-98.7	334.5	1,398.0	1,349.2	48.76	28.672	
10,900.0	10,797.5	10,814.9	10,797.5	30.3	17.2	94.05	94.05	-98.7	334.5	1,398.0	1,349.1	48.85	28.618	
11,000.0	10,897.5	10,914.9	10,897.5	30.3	17.2	94.05	94.05	-98.7	334.5	1,398.0	1,349.0	48.94	28.564	
11,100.0	10,997.5	11,014.9	10,997.5	30.3	17.3	94.05	94.05	-98.7	334.5	1,398.0	1,348.9	49.03	28.510	
11,200.0	11,097.5	11,114.9	11,097.5	30.4	17.4	94.05	94.05	-98.7	334.5	1,398.0	1,348.9	49.13	28.457	
11,205.6	11,103.1	11,120.5	11,103.1	30.4	17.4	94.05	94.05	-98.7	334.5	1,398.0	1,348.8	49.13	28.454	
11,300.0	11,197.5	11,210.7	11,193.4	30.4	17.4	94.07	94.07	-99.2	334.5	1,398.0	1,348.8	49.19	28.420	
11,400.0	11,297.5	11,292.6	11,274.4	30.4	17.5	94.50	94.50	-109.7	334.5	1,399.0	1,349.8	49.17	28.451	
11,500.0	11,397.4	11,369.6	11,348.0	30.5	17.6	-84.26	-84.26	-132.1	334.4	1,401.2	1,352.1	49.08	28.552	
11,600.0	11,494.8	11,444.0	11,414.8	30.4	17.7	-83.29	-83.29	-164.8	334.3	1,403.5	1,354.5	48.92	28.689	
11,700.0	11,585.6	11,516.9	11,474.6	30.4	17.8	-82.54	-82.54	-206.4	334.2	1,405.3	1,356.5	48.77	28.817	
11,800.0	11,665.7	11,588.8	11,526.6	30.5	17.9	-82.06	-82.06	-255.9	334.0	1,406.4	1,357.8	48.64	28.913	
11,900.0	11,731.7	11,660.0	11,570.3	30.5	18.0	-81.84	-81.84	-312.1	333.9	1,406.7	1,358.1	48.58	28.959	
12,000.0	11,780.7	11,731.1	11,605.0	30.5	18.1	-81.91	-81.91	-374.0	333.7	1,406.1	1,357.5	48.58	28.941	
12,100.0	11,810.6	11,800.0	11,629.6	30.6	18.2	-82.25	-82.25	-438.3	333.5	1,404.6	1,355.9	48.68	28.854	
12,200.0	11,820.0	11,875.0	11,645.6	30.7	18.3	-82.85	-82.85	-511.5	333.3	1,402.3	1,353.4	48.88	28.687	
12,300.0	11,820.0	11,950.2	11,650.0	30.9	18.4	-83.03	-83.03	-586.5	333.1	1,400.8	1,351.7	49.15	28.504	
12,400.0	11,820.0	12,050.2	11,650.0	31.0	18.5	-83.03	-83.03	-686.5	332.8	1,400.1	1,350.6	49.50	28.283	
12,500.0	11,820.0	12,150.2	11,650.0	31.2	18.7	-83.02	-83.02	-786.5	332.5	1,399.4	1,349.4	49.93	28.026	
12,600.0	11,820.0	12,250.2	11,650.0	31.5	19.0	-83.02	-83.02	-886.5	332.2	1,398.6	1,348.2	50.43	27.736	
12,700.0	11,820.0	12,350.2	11,650.0	31.7	19.3	-83.01	-83.01	-986.5	331.9	1,397.9	1,346.9	50.99	27.416	
12,800.0	11,820.0	12,450.1	11,650.0	32.0	19.7	-83.01	-83.01	-1,086.5	331.7	1,397.2	1,345.6	51.61	27.070	
12,900.0	11,820.0	12,550.1	11,650.0	32.3	20.1	-83.01	-83.01	-1,186.5	331.4	1,396.5	1,344.2	52.30	26.700	
13,000.0	11,820.0	12,650.1	11,650.0	32.7	20.6	-83.00	-83.00	-1,286.5	331.1	1,395.7	1,342.7	53.05	26.310	
13,100.0	11,820.0	12,750.1	11,650.0	33.0	21.1	-83.00	-83.00	-1,386.5	330.8	1,395.0	1,341.1	53.85	25.905	
13,200.0	11,820.0	12,850.1	11,650.0	33.4	21.7	-83.00	-83.00	-1,486.5	330.5	1,394.3	1,339.6	54.71	25.485	
13,300.0	11,820.0	12,950.1	11,650.0	33.8	22.2	-82.99	-82.99	-1,586.5	330.2	1,393.5	1,337.9	55.62	25.056	
13,400.0	11,820.0	13,050.1	11,650.0	34.3	22.9	-82.99	-82.99	-1,686.5	329.9	1,392.8	1,336.2	56.58	24.619	
13,500.0	11,820.0	13,150.1	11,650.0	34.7	23.5	-82.99	-82.99	-1,786.4	329.6	1,392.1	1,334.5	57.58	24.177	
13,600.0	11,820.0	13,250.1	11,650.0	35.2	24.2	-82.98	-82.98	-1,886.4	329.4	1,391.3	1,332.7	58.63	23.732	
13,700.0	11,820.0	13,350.1	11,650.0	35.7	24.8	-82.98	-82.98	-1,986.4	329.1	1,390.6	1,330.9	59.72	23.286	
13,800.0	11,820.0	13,450.1	11,650.0	36.2	25.5	-82.97	-82.97	-2,086.4	328.8	1,389.9	1,329.0	60.85	22.842	
13,900.0	11,820.0	13,550.1	11,650.0	36.8	26.3	-82.97	-82.97	-2,186.4	328.5	1,389.2	1,327.1	62.02	22.400	
14,000.0	11,820.0	13,650.1	11,650.0	37.3	27.0	-82.97	-82.97	-2,286.4	328.2	1,388.4	1,325.2	63.22	21.962	
14,100.0	11,820.0	13,750.1	11,650.0	37.9	27.8	-82.96	-82.96	-2,386.4	327.9	1,387.7	1,323.2	64.46	21.530	
14,200.0	11,820.0	13,850.1	11,650.0	38.5	28.5	-82.96	-82.96	-2,486.4	327.6	1,387.0	1,321.2	65.72	21.103	
14,300.0	11,820.0	13,950.1	11,650.0	39.1	29.3	-82.96	-82.96	-2,586.4	327.4	1,386.2	1,319.2	67.02	20.684	
14,400.0	11,820.0	14,050.1	11,650.0	39.7	30.1	-82.95	-82.95	-2,686.4	327.1	1,385.5	1,317.2	68.34	20.272	
14,500.0	11,820.0	14,150.1	11,650.0	40.3	30.9	-82.95	-82.95	-2,786.4	326.8	1,384.8	1,315.1	69.70	19.869	
14,600.0	11,820.0	14,250.1	11,650.0	41.0	31.7	-82.94	-82.94	-2,886.4	326.5	1,384.1	1,313.0	71.07	19.474	
14,700.0	11,820.0	14,350.1	11,650.0	41.6	32.5	-82.94	-82.94	-2,986.4	326.2	1,383.3	1,310.9	72.47	19.088	
14,800.0	11,820.0	14,450.1	11,650.0	42.3	33.3	-82.94	-82.94	-3,086.4	325.9	1,382.6	1,308.7	73.89	18.711	
14,900.0	11,820.0	14,550.1	11,650.0	43.0	34.2	-82.93	-82.93	-3,186.4	325.6	1,381.9	1,306.5	75.34	18.343	
15,000.0	11,820.0	14,650.1	11,650.0	43.7	35.0	-82.93	-82.93	-3,286.4	325.3	1,381.1	1,304.3	76.80	17.984	
15,100.0	11,820.0	14,750.1	11,650.0	44.4	35.8	-82.93	-82.93	-3,386.4	325.1	1,380.4	1,302.1	78.28	17.635	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.0	11,820.0	14,850.1	11,650.0	45.1	36.7	-82.92	-3,486.4	324.8	1,379.7	1,299.9	79.78	17.294		
15,300.0	11,820.0	14,950.1	11,650.0	45.8	37.5	-82.92	-3,586.4	324.5	1,378.9	1,297.7	81.29	16.963		
15,400.0	11,820.0	15,050.1	11,650.0	46.5	38.4	-82.91	-3,686.4	324.2	1,378.2	1,295.4	82.82	16.641		
15,500.0	11,820.0	15,150.1	11,650.0	47.2	39.3	-82.91	-3,786.4	323.9	1,377.5	1,293.1	84.36	16.328		
15,600.0	11,820.0	15,250.1	11,650.0	48.0	40.1	-82.91	-3,886.4	323.6	1,376.8	1,290.8	85.92	16.023		
15,700.0	11,820.0	15,350.1	11,650.0	48.7	41.0	-82.90	-3,986.4	323.3	1,376.0	1,288.5	87.50	15.727		
15,800.0	11,820.0	15,450.1	11,650.0	49.5	41.9	-82.90	-4,086.4	323.1	1,375.3	1,286.2	89.08	15.439		
15,900.0	11,820.0	15,550.1	11,650.0	50.3	42.8	-82.90	-4,186.4	322.8	1,374.6	1,283.9	90.68	15.159		
16,000.0	11,820.0	15,650.1	11,650.0	51.0	43.6	-82.89	-4,286.4	322.5	1,373.8	1,281.6	92.28	14.887		
16,100.0	11,820.0	15,750.1	11,650.0	51.8	44.5	-82.89	-4,386.4	322.2	1,373.1	1,279.2	93.90	14.623		
16,200.0	11,820.0	15,850.1	11,650.0	52.6	45.4	-82.88	-4,486.4	321.9	1,372.4	1,276.8	95.53	14.366		
16,300.0	11,820.0	15,950.1	11,650.0	53.4	46.3	-82.88	-4,586.4	321.6	1,371.6	1,274.5	97.17	14.117		
16,400.0	11,820.0	16,050.1	11,650.0	54.2	47.2	-82.88	-4,686.4	321.3	1,370.9	1,272.1	98.81	13.874		
16,500.0	11,820.0	16,150.0	11,650.0	55.0	48.1	-82.87	-4,786.4	321.0	1,370.2	1,269.7	100.47	13.638		
16,600.0	11,820.0	16,250.0	11,650.0	55.8	49.0	-82.87	-4,886.4	320.8	1,369.5	1,267.3	102.13	13.409		
16,700.0	11,820.0	16,350.0	11,650.0	56.6	49.9	-82.87	-4,986.3	320.5	1,368.7	1,264.9	103.80	13.186		
16,800.0	11,820.0	16,450.0	11,650.0	57.4	50.8	-82.86	-5,086.3	320.2	1,368.0	1,262.5	105.48	12.969		
16,900.0	11,820.0	16,550.0	11,650.0	58.2	51.7	-82.86	-5,186.3	319.9	1,367.3	1,260.1	107.17	12.758		
17,000.0	11,820.0	16,650.0	11,650.0	59.1	52.6	-82.85	-5,286.3	319.6	1,366.5	1,257.7	108.86	12.553		
17,100.0	11,820.0	16,750.0	11,650.0	59.9	53.5	-82.85	-5,386.3	319.3	1,365.8	1,255.3	110.56	12.354		
17,200.0	11,820.0	16,850.0	11,650.0	60.7	54.4	-82.85	-5,486.3	319.0	1,365.1	1,252.8	112.26	12.160		
17,300.0	11,820.0	16,950.0	11,650.0	61.5	55.4	-82.84	-5,586.3	318.7	1,364.3	1,250.4	113.97	11.971		
17,400.0	11,820.0	17,050.0	11,650.0	62.4	56.3	-82.84	-5,686.3	318.5	1,363.6	1,247.9	115.69	11.787		
17,500.0	11,820.0	17,150.0	11,650.0	63.2	57.2	-82.83	-5,786.3	318.2	1,362.9	1,245.5	117.41	11.608		
17,600.0	11,820.0	17,250.0	11,650.0	64.1	58.1	-82.83	-5,886.3	317.9	1,362.2	1,243.0	119.14	11.433		
17,700.0	11,820.0	17,350.0	11,650.0	64.9	59.0	-82.83	-5,986.3	317.6	1,361.4	1,240.6	120.87	11.263		
17,800.0	11,820.0	17,450.0	11,650.0	65.8	60.0	-82.82	-6,086.3	317.3	1,360.7	1,238.1	122.61	11.098		
17,900.0	11,820.0	17,550.0	11,650.0	66.6	60.9	-82.82	-6,186.3	317.0	1,360.0	1,235.6	124.35	10.937		
18,000.0	11,820.0	17,650.0	11,650.0	67.5	61.8	-82.82	-6,286.3	316.7	1,359.2	1,233.1	126.09	10.780		
18,100.0	11,820.0	17,750.0	11,650.0	68.4	62.7	-82.81	-6,386.3	316.5	1,358.5	1,230.7	127.84	10.626		
18,200.0	11,820.0	17,850.0	11,650.0	69.2	63.6	-82.81	-6,486.3	316.2	1,357.8	1,228.2	129.60	10.477		
18,300.0	11,820.0	17,950.0	11,650.0	70.1	64.6	-82.80	-6,586.3	315.9	1,357.1	1,225.7	131.36	10.331		
18,400.0	11,820.0	18,050.0	11,650.0	71.0	65.5	-82.80	-6,686.3	315.6	1,356.3	1,223.2	133.12	10.189		
18,500.0	11,820.0	18,150.0	11,650.0	71.8	66.4	-82.80	-6,786.3	315.3	1,355.6	1,220.7	134.88	10.050		
18,600.0	11,820.0	18,250.0	11,650.0	72.7	67.4	-82.79	-6,886.3	315.0	1,354.9	1,218.2	136.65	9.915		
18,700.0	11,820.0	18,350.0	11,650.0	73.6	68.3	-82.79	-6,986.3	314.7	1,354.1	1,215.7	138.42	9.783		
18,800.0	11,820.0	18,450.0	11,650.0	74.4	69.2	-82.78	-7,086.3	314.4	1,353.4	1,213.2	140.19	9.654		
18,900.0	11,820.0	18,550.0	11,650.0	75.3	70.1	-82.78	-7,186.3	314.2	1,352.7	1,210.7	141.97	9.528		
19,000.0	11,820.0	18,650.0	11,650.0	76.2	71.1	-82.78	-7,286.3	313.9	1,351.9	1,208.2	143.75	9.405		
19,100.0	11,820.0	18,750.0	11,650.0	77.1	72.0	-82.77	-7,386.3	313.6	1,351.2	1,205.7	145.53	9.285		
19,200.0	11,820.0	18,850.0	11,650.0	78.0	72.9	-82.77	-7,486.3	313.3	1,350.5	1,203.2	147.32	9.167		
19,300.0	11,820.0	18,950.0	11,650.0	78.9	73.9	-82.76	-7,586.3	313.0	1,349.8	1,200.7	149.11	9.052		
19,400.0	11,820.0	19,050.0	11,650.0	79.8	74.8	-82.76	-7,686.3	312.7	1,349.0	1,198.1	150.90	8.940		
19,446.4	11,820.0	19,086.5	11,650.0	80.2	75.2	-82.76	-7,722.8	312.6	1,348.7	1,197.1	151.62	8.895		
19,448.4	11,820.0	19,086.5	11,650.0	80.2	75.2	-82.76	-7,722.8	312.6	1,348.7	1,197.1	151.64	8.894		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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)				
0.0	0.0	0.0	0.0	3.0	3.0	89.18	1.7	120.0	120.0	113.6	6.43	18.666		
100.0	100.0	100.0	100.0	3.2	3.2	89.18	1.7	120.0	120.0	113.1	6.89	17.411		
200.0	200.0	200.0	200.0	3.5	3.5	89.18	1.7	120.0	120.0	112.7	7.33	16.375		
300.0	300.0	300.0	300.0	3.7	3.7	89.18	1.7	120.0	120.0	112.3	7.74	15.501		
400.0	400.0	400.0	400.0	3.9	3.9	89.18	1.7	120.0	120.0	111.9	8.14	14.750		
500.0	500.0	500.0	500.0	4.1	4.1	89.18	1.7	120.0	120.0	111.5	8.51	14.095		
600.0	600.0	600.0	600.0	4.2	4.2	89.18	1.7	120.0	120.0	111.1	8.88	13.517		
700.0	700.0	700.0	700.0	4.4	4.4	89.18	1.7	120.0	120.0	110.8	9.23	13.002		
800.0	800.0	800.0	800.0	4.6	4.6	89.18	1.7	120.0	120.0	110.4	9.57	12.539		
900.0	900.0	900.0	900.0	4.8	4.8	89.18	1.7	120.0	120.0	110.1	9.90	12.119		
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	89.18	1.7	120.0	120.0	109.8	10.22	11.736 CC, ES		
1,100.0	1,100.0	1,095.9	1,095.9	5.2	5.2	179.29	1.5	121.6	123.4	112.7	10.71	11.527		
1,200.0	1,199.8	1,191.1	1,191.0	5.4	5.4	179.60	0.9	126.3	133.6	122.4	11.18	11.953		
1,300.0	1,299.5	1,285.1	1,284.6	5.7	5.7	-179.99	0.0	134.1	150.5	138.8	11.66	12.904		
1,400.0	1,398.7	1,377.1	1,376.0	6.0	5.9	-179.55	-1.3	144.6	174.0	161.8	12.16	14.301		
1,500.0	1,497.5	1,469.4	1,467.4	6.3	6.1	-179.13	-2.9	157.8	203.6	190.9	12.61	16.137		
1,600.0	1,595.6	1,563.7	1,560.6	6.6	6.3	-178.80	-4.6	171.7	236.9	223.8	13.08	18.108		
1,700.0	1,693.6	1,657.5	1,653.4	6.9	6.6	-178.57	-6.4	185.5	271.4	257.8	13.61	19.937		
1,800.0	1,791.5	1,751.4	1,746.2	7.2	6.8	-178.39	-8.1	199.4	305.9	291.8	14.15	21.623		
1,900.0	1,889.4	1,845.2	1,839.0	7.5	7.1	-178.25	-9.8	213.2	340.5	325.8	14.72	23.136		
2,000.0	1,987.3	1,939.1	1,931.8	7.8	7.4	-178.13	-11.5	227.0	375.0	359.7	15.31	24.492		
2,100.0	2,085.2	2,032.9	2,024.6	8.1	7.7	-178.04	-13.2	240.9	409.6	393.6	15.93	25.707		
2,200.0	2,183.2	2,126.8	2,117.4	8.5	8.0	-177.96	-14.9	254.7	444.1	427.5	16.57	26.795		
2,300.0	2,281.1	2,220.6	2,210.2	8.9	8.3	-177.89	-16.6	268.6	478.6	461.4	17.24	27.770		
2,400.0	2,379.0	2,314.5	2,303.0	9.2	8.6	-177.82	-18.3	282.4	513.2	495.2	17.91	28.645		
2,500.0	2,476.9	2,408.3	2,395.8	9.6	9.0	-177.77	-20.0	296.3	547.7	529.1	18.61	29.432		
2,600.0	2,574.9	2,502.2	2,488.6	10.0	9.3	-177.73	-21.7	310.1	582.2	562.9	19.32	30.141		
2,700.0	2,672.8	2,596.0	2,581.4	10.4	9.6	-177.68	-23.4	323.9	616.8	596.7	20.04	30.781		
2,800.0	2,770.7	2,689.8	2,674.2	10.8	10.0	-177.65	-25.1	337.8	651.3	630.5	20.77	31.360		
2,900.0	2,868.6	2,783.7	2,767.0	11.2	10.4	-177.61	-26.8	351.6	685.9	664.3	21.51	31.886		
3,000.0	2,966.6	2,877.5	2,859.8	11.6	10.7	-177.58	-28.5	365.5	720.4	698.1	22.26	32.363		
3,100.0	3,064.5	2,971.4	2,952.7	12.0	11.1	-177.56	-30.2	379.3	754.9	731.9	23.02	32.798		
3,200.0	3,162.4	3,065.2	3,045.5	12.5	11.4	-177.53	-31.9	393.2	789.5	765.7	23.78	33.196		
3,300.0	3,260.3	3,159.1	3,138.3	12.9	11.8	-177.51	-33.6	407.0	824.0	799.5	24.55	33.560		
3,400.0	3,358.2	3,252.9	3,231.1	13.3	12.2	-177.49	-35.3	420.8	858.6	833.2	25.33	33.894		
3,500.0	3,456.2	3,346.8	3,323.9	13.8	12.6	-177.47	-37.0	434.7	893.1	867.0	26.11	34.201		
3,600.0	3,554.1	3,440.6	3,416.7	14.2	12.9	-177.45	-38.7	448.5	927.6	900.7	26.90	34.484		
3,700.0	3,652.0	3,534.5	3,509.5	14.6	13.3	-177.43	-40.4	462.4	962.2	934.5	27.69	34.745		
3,800.0	3,749.9	3,628.3	3,602.3	15.1	13.7	-177.42	-42.1	476.2	996.7	968.2	28.49	34.987		
3,900.0	3,847.9	3,722.1	3,695.1	15.5	14.1	-177.40	-43.8	490.0	1,031.3	1,002.0	29.29	35.211		
4,000.0	3,945.8	3,816.0	3,787.9	16.0	14.5	-177.39	-45.5	503.9	1,065.8	1,035.7	30.09	35.419		
4,100.0	4,043.7	3,909.8	3,880.7	16.4	14.9	-177.38	-47.2	517.7	1,100.3	1,069.4	30.90	35.612		
4,200.0	4,141.6	4,003.7	3,973.5	16.8	15.2	-177.37	-48.9	531.6	1,134.9	1,103.2	31.71	35.792		
4,300.0	4,239.6	4,097.5	4,066.3	17.3	15.6	-177.35	-50.6	545.4	1,169.4	1,136.9	32.52	35.961		
4,400.0	4,337.5	4,191.4	4,159.1	17.7	16.0	-177.34	-52.4	559.3	1,204.0	1,170.6	33.33	36.118		
4,500.0	4,435.4	4,285.2	4,251.9	18.2	16.4	-177.33	-54.1	573.1	1,238.5	1,204.3	34.15	36.265		
4,600.0	4,533.3	4,379.1	4,344.7	18.6	16.8	-177.32	-55.8	586.9	1,273.0	1,238.1	34.97	36.404		
4,700.0	4,631.2	4,472.9	4,437.5	19.1	17.2	-177.32	-57.5	600.8	1,307.6	1,271.8	35.79	36.533		
4,800.0	4,729.2	4,566.8	4,530.3	19.5	17.6	-177.31	-59.2	614.6	1,342.1	1,305.5	36.61	36.655		
4,900.0	4,827.1	4,660.6	4,623.1	20.0	18.0	-177.30	-60.9	628.5	1,376.7	1,339.2	37.44	36.770		
5,000.0	4,925.0	4,754.4	4,715.9	20.5	18.4	-177.29	-62.6	642.3	1,411.2	1,372.9	38.27	36.878		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,022.9	4,848.3	4,808.7	20.9	18.8	-177.28	-64.3	656.2	1,445.7	1,406.6	39.09	36.980		
5,200.0	5,120.9	4,942.1	4,901.5	21.4	19.2	-177.28	-66.0	670.0	1,480.3	1,440.4	39.92	37.077		
5,300.0	5,218.8	5,036.0	4,994.3	21.8	19.6	-177.27	-67.7	683.8	1,514.8	1,474.1	40.76	37.168		
5,400.0	5,316.7	5,129.8	5,087.1	22.3	20.0	-177.26	-69.4	697.7	1,549.4	1,507.8	41.59	37.256		
5,500.0	5,414.6	5,235.8	5,191.9	22.7	20.4	-177.26	-71.3	713.1	1,583.8	1,541.3	42.53	37.243		
5,600.0	5,512.6	5,366.7	5,321.8	23.2	21.0	-177.26	-73.4	730.0	1,616.5	1,572.9	43.66	37.025		
5,700.0	5,610.5	5,499.7	5,454.0	23.7	21.5	-177.27	-75.1	744.1	1,647.1	1,602.3	44.75	36.804		
5,800.0	5,708.4	5,634.6	5,588.4	24.1	22.0	-177.28	-76.5	755.3	1,675.4	1,629.6	45.81	36.574		
5,900.0	5,806.3	5,771.3	5,724.9	24.6	22.5	-177.31	-77.5	763.4	1,701.5	1,654.7	46.83	36.338		
6,000.0	5,904.3	5,909.8	5,863.3	25.0	22.9	-177.34	-78.1	768.4	1,724.9	1,677.1	47.77	36.110		
6,100.0	6,002.6	6,050.3	6,003.8	25.5	23.2	-177.39	-78.3	770.0	1,744.3	1,695.7	48.56	35.921		
6,200.0	6,101.3	6,147.8	6,101.3	25.9	23.2	-177.42	-78.3	770.0	1,760.8	1,711.8	49.03	35.911		
6,300.0	6,200.2	6,246.7	6,200.2	26.4	23.3	-177.45	-78.3	770.0	1,775.6	1,726.1	49.51	35.861		
6,400.0	6,299.3	6,345.8	6,299.3	26.8	23.3	-177.47	-78.3	770.0	1,788.7	1,738.7	49.99	35.784		
6,500.0	6,398.6	6,445.2	6,398.6	27.2	23.3	-177.49	-78.3	770.0	1,800.0	1,749.6	50.45	35.681		
6,600.0	6,498.2	6,544.7	6,498.2	27.6	23.4	-177.51	-78.3	770.0	1,809.7	1,758.8	50.90	35.556		
6,700.0	6,597.9	6,644.4	6,597.9	28.0	23.4	-177.53	-78.3	770.0	1,817.5	1,766.2	51.33	35.411		
6,800.0	6,697.7	6,744.2	6,697.7	28.3	23.4	-177.54	-78.3	770.0	1,823.7	1,771.9	51.74	35.248		
6,900.0	6,797.6	6,844.1	6,797.6	28.6	23.5	-177.54	-78.3	770.0	1,828.1	1,776.0	52.12	35.072		
7,000.0	6,897.5	6,944.1	6,897.5	28.9	23.5	-177.55	-78.3	770.0	1,830.7	1,778.3	52.47	34.891		
7,100.0	6,997.5	7,044.1	6,997.5	29.1	23.5	-177.55	-78.3	770.0	1,831.7	1,779.0	52.66	34.781		
7,200.0	7,097.5	7,144.1	7,097.5	29.1	23.6	92.45	-78.3	770.0	1,831.7	1,778.9	52.73	34.739		
7,300.0	7,197.5	7,244.1	7,197.5	29.1	23.6	92.45	-78.3	770.0	1,831.7	1,778.9	52.79	34.699		
7,400.0	7,297.5	7,344.1	7,297.5	29.2	23.7	92.45	-78.3	770.0	1,831.7	1,778.8	52.85	34.658		
7,500.0	7,397.5	7,444.1	7,397.5	29.2	23.7	92.45	-78.3	770.0	1,831.7	1,778.7	52.91	34.617		
7,600.0	7,497.5	7,544.1	7,497.5	29.2	23.7	92.45	-78.3	770.0	1,831.7	1,778.7	52.97	34.576		
7,700.0	7,597.5	7,644.1	7,597.5	29.2	23.8	92.45	-78.3	770.0	1,831.7	1,778.6	53.04	34.535		
7,800.0	7,697.5	7,744.1	7,697.5	29.3	23.8	92.45	-78.3	770.0	1,831.7	1,778.6	53.10	34.494		
7,900.0	7,797.5	7,844.1	7,797.5	29.3	23.8	92.45	-78.3	770.0	1,831.7	1,778.5	53.16	34.452		
8,000.0	7,897.5	7,944.1	7,897.5	29.3	23.9	92.45	-78.3	770.0	1,831.7	1,778.4	53.23	34.411		
8,100.0	7,997.5	8,044.1	7,997.5	29.4	23.9	92.45	-78.3	770.0	1,831.7	1,778.4	53.29	34.369		
8,200.0	8,097.5	8,144.1	8,097.5	29.4	23.9	92.45	-78.3	770.0	1,831.7	1,778.3	53.36	34.327		
8,300.0	8,197.5	8,244.1	8,197.5	29.4	24.0	92.45	-78.3	770.0	1,831.7	1,778.2	53.42	34.285		
8,400.0	8,297.5	8,344.1	8,297.5	29.5	24.0	92.45	-78.3	770.0	1,831.7	1,778.2	53.49	34.243		
8,500.0	8,397.5	8,444.1	8,397.5	29.5	24.1	92.45	-78.3	770.0	1,831.7	1,778.1	53.56	34.200		
8,600.0	8,497.5	8,544.1	8,497.5	29.5	24.1	92.45	-78.3	770.0	1,831.7	1,778.0	53.62	34.158		
8,700.0	8,597.5	8,644.1	8,597.5	29.5	24.1	92.45	-78.3	770.0	1,831.7	1,778.0	53.69	34.115		
8,800.0	8,697.5	8,744.1	8,697.5	29.6	24.2	92.45	-78.3	770.0	1,831.7	1,777.9	53.76	34.072		
8,900.0	8,797.5	8,844.1	8,797.5	29.6	24.2	92.45	-78.3	770.0	1,831.7	1,777.8	53.83	34.029		
9,000.0	8,897.5	8,944.1	8,897.5	29.6	24.3	92.45	-78.3	770.0	1,831.7	1,777.8	53.89	33.986		
9,100.0	8,997.5	9,044.1	8,997.5	29.7	24.3	92.45	-78.3	770.0	1,831.7	1,777.7	53.96	33.943		
9,200.0	9,097.5	9,144.1	9,097.5	29.7	24.3	92.45	-78.3	770.0	1,831.7	1,777.6	54.03	33.899		
9,300.0	9,197.5	9,244.1	9,197.5	29.7	24.4	92.45	-78.3	770.0	1,831.7	1,777.5	54.10	33.856		
9,400.0	9,297.5	9,344.1	9,297.5	29.8	24.4	92.45	-78.3	770.0	1,831.7	1,777.5	54.17	33.812		
9,500.0	9,397.5	9,444.1	9,397.5	29.8	24.5	92.45	-78.3	770.0	1,831.7	1,777.4	54.24	33.768		
9,600.0	9,497.5	9,544.1	9,497.5	29.8	24.5	92.45	-78.3	770.0	1,831.7	1,777.3	54.31	33.724		
9,700.0	9,597.5	9,644.1	9,597.5	29.9	24.5	92.45	-78.3	770.0	1,831.7	1,777.3	54.38	33.680		
9,800.0	9,697.5	9,744.1	9,697.5	29.9	24.6	92.45	-78.3	770.0	1,831.7	1,777.2	54.46	33.636		
9,900.0	9,797.5	9,844.1	9,797.5	29.9	24.6	92.45	-78.3	770.0	1,831.7	1,777.1	54.53	33.591		
10,000.0	9,897.5	9,944.1	9,897.5	30.0	24.7	92.45	-78.3	770.0	1,831.7	1,777.1	54.60	33.547		
10,100.0	9,997.5	10,044.1	9,997.5	30.0	24.7	92.45	-78.3	770.0	1,831.7	1,777.0	54.67	33.502		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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)				
10,200.0	10,097.5	10,144.1	10,097.5	30.0	24.7	92.45	-78.3	770.0	1,831.7	1,776.9	54.75	33.458		
10,300.0	10,197.5	10,244.1	10,197.5	30.1	24.8	92.45	-78.3	770.0	1,831.7	1,776.8	54.82	33.413		
10,400.0	10,297.5	10,344.1	10,297.5	30.1	24.8	92.45	-78.3	770.0	1,831.7	1,776.8	54.89	33.368		
10,500.0	10,397.5	10,444.1	10,397.5	30.1	24.9	92.45	-78.3	770.0	1,831.7	1,776.7	54.97	33.323		
10,600.0	10,497.5	10,544.1	10,497.5	30.2	24.9	92.45	-78.3	770.0	1,831.7	1,776.6	55.04	33.278		
10,700.0	10,597.5	10,644.1	10,597.5	30.2	25.0	92.45	-78.3	770.0	1,831.7	1,776.5	55.12	33.232		
10,800.0	10,697.5	10,744.1	10,697.5	30.2	25.0	92.45	-78.3	770.0	1,831.7	1,776.5	55.19	33.187		
10,900.0	10,797.5	10,844.1	10,797.5	30.3	25.0	92.45	-78.3	770.0	1,831.7	1,776.4	55.27	33.142		
11,000.0	10,897.5	10,944.1	10,897.5	30.3	25.1	92.45	-78.3	770.0	1,831.7	1,776.3	55.34	33.096		
11,100.0	10,997.5	11,044.1	10,997.5	30.3	25.1	92.45	-78.3	770.0	1,831.7	1,776.2	55.42	33.051		
11,200.0	11,097.5	11,144.1	11,097.5	30.4	25.2	92.45	-78.3	770.0	1,831.7	1,776.2	55.50	33.005		
11,300.0	11,197.5	11,244.1	11,197.5	30.4	25.2	92.45	-78.3	770.0	1,831.7	1,776.1	55.57	32.959		
11,400.0	11,297.5	11,344.1	11,297.5	30.4	25.3	92.45	-78.3	770.0	1,831.7	1,776.0	55.65	32.914		
11,470.5	11,368.0	11,407.8	11,361.2	30.5	25.3	-87.36	-78.7	770.0	1,831.6	1,775.9	55.66	32.907		
11,500.0	11,397.4	11,429.4	11,382.8	30.5	25.3	-87.30	-80.0	770.1	1,831.7	1,776.1	55.65	32.913		
11,600.0	11,494.8	11,500.0	11,452.5	30.4	25.3	-87.37	-91.1	770.7	1,832.2	1,776.6	55.60	32.954		
11,700.0	11,585.6	11,575.0	11,523.8	30.4	25.4	-87.52	-114.0	771.9	1,833.2	1,777.7	55.56	32.997		
11,800.0	11,665.7	11,650.0	11,590.6	30.5	25.4	-87.72	-147.7	773.6	1,834.7	1,779.2	55.53	33.041		
11,900.0	11,731.7	11,729.1	11,654.6	30.5	25.5	-88.01	-194.2	776.1	1,836.8	1,781.3	55.54	33.072		
12,000.0	11,780.7	11,808.2	11,709.8	30.5	25.6	-88.33	-250.5	779.0	1,839.5	1,783.9	55.60	33.087		
12,100.0	11,810.6	11,890.2	11,756.6	30.6	25.7	-88.70	-317.7	782.5	1,842.8	1,787.0	55.72	33.071		
12,200.0	11,820.0	11,976.2	11,792.5	30.7	25.8	-89.15	-395.6	786.6	1,846.7	1,790.8	55.93	33.018		
12,300.0	11,820.0	12,070.0	11,815.0	30.9	25.9	-89.85	-486.3	791.4	1,851.3	1,795.0	56.23	32.923		
12,400.0	11,820.0	12,225.1	11,820.0	31.0	26.1	-90.00	-641.1	798.2	1,855.6	1,798.8	56.77	32.686		
12,500.0	11,820.0	12,377.6	11,820.0	31.2	26.5	-90.00	-793.5	798.4	1,854.9	1,797.6	57.38	32.330		
12,600.0	11,820.0	12,477.6	11,820.0	31.5	26.7	-90.00	-893.5	797.8	1,853.9	1,796.0	57.88	32.033		
12,700.0	11,820.0	12,577.6	11,820.0	31.7	27.0	-90.00	-993.5	797.2	1,852.9	1,794.4	58.43	31.709		
12,800.0	11,820.0	12,677.5	11,820.0	32.0	27.3	-90.00	-1,093.5	796.6	1,851.8	1,792.8	59.05	31.362		
12,900.0	11,820.0	12,777.5	11,820.0	32.3	27.6	-90.00	-1,193.5	796.0	1,850.8	1,791.1	59.71	30.994		
13,000.0	11,820.0	12,877.5	11,820.0	32.7	28.0	-90.00	-1,293.5	795.4	1,849.7	1,789.3	60.43	30.607		
13,100.0	11,820.0	12,977.5	11,820.0	33.0	28.4	-90.00	-1,393.5	794.9	1,848.7	1,787.5	61.21	30.205		
13,200.0	11,820.0	13,077.5	11,820.0	33.4	28.8	-90.00	-1,493.5	794.3	1,847.6	1,785.6	62.02	29.789		
13,300.0	11,820.0	13,177.5	11,820.0	33.8	29.3	-90.00	-1,593.5	793.7	1,846.6	1,783.7	62.89	29.362		
13,400.0	11,820.0	13,277.5	11,820.0	34.3	29.8	-90.00	-1,693.5	793.1	1,845.6	1,781.8	63.80	28.926		
13,500.0	11,820.0	13,377.5	11,820.0	34.7	30.3	-90.00	-1,793.5	792.5	1,844.5	1,779.8	64.76	28.483		
13,600.0	11,820.0	13,477.5	11,820.0	35.2	30.8	-90.00	-1,893.5	791.9	1,843.5	1,777.7	65.75	28.036		
13,700.0	11,820.0	13,577.5	11,820.0	35.7	31.3	-90.00	-1,993.5	791.3	1,842.4	1,775.6	66.79	27.586		
13,800.0	11,820.0	13,677.5	11,820.0	36.2	31.9	-90.00	-2,093.4	790.7	1,841.4	1,773.5	67.86	27.135		
13,900.0	11,820.0	13,777.5	11,820.0	36.8	32.5	-90.00	-2,193.4	790.1	1,840.3	1,771.4	68.97	26.684		
14,000.0	11,820.0	13,877.5	11,820.0	37.3	33.1	-90.00	-2,293.4	789.5	1,839.3	1,769.2	70.11	26.235		
14,100.0	11,820.0	13,977.5	11,820.0	37.9	33.7	-90.00	-2,393.4	788.9	1,838.2	1,767.0	71.28	25.788		
14,200.0	11,820.0	14,077.5	11,820.0	38.5	34.4	-90.00	-2,493.4	788.3	1,837.2	1,764.7	72.49	25.345		
14,300.0	11,820.0	14,177.5	11,820.0	39.1	35.0	-90.00	-2,593.4	787.7	1,836.2	1,762.4	73.72	24.906		
14,400.0	11,820.0	14,277.5	11,820.0	39.7	35.7	-90.00	-2,693.4	787.1	1,835.1	1,760.1	74.99	24.473		
14,500.0	11,820.0	14,377.5	11,820.0	40.3	36.4	-90.00	-2,793.4	786.5	1,834.1	1,757.8	76.27	24.046		
14,600.0	11,820.0	14,477.4	11,820.0	41.0	37.1	-90.00	-2,893.4	785.9	1,833.0	1,755.4	77.59	23.625		
14,700.0	11,820.0	14,577.4	11,820.0	41.6	37.8	-90.00	-2,993.4	785.3	1,832.0	1,753.1	78.92	23.212		
14,800.0	11,820.0	14,677.4	11,820.0	42.3	38.5	-90.00	-3,093.4	784.7	1,830.9	1,750.7	80.28	22.806		
14,900.0	11,820.0	14,777.4	11,820.0	43.0	39.2	-90.00	-3,193.4	784.1	1,829.9	1,748.2	81.67	22.407		
15,000.0	11,820.0	14,877.4	11,820.0	43.7	40.0	-90.00	-3,293.4	783.5	1,828.9	1,745.8	83.07	22.016		
15,100.0	11,820.0	14,977.4	11,820.0	44.4	40.7	-90.00	-3,393.4	782.9	1,827.8	1,743.3	84.49	21.634		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.0	11,820.0	15,077.4	11,820.0	45.1	41.5	-90.00	-3,493.3	782.3	1,826.8	1,740.8	85.93	21.259		
15,300.0	11,820.0	15,177.4	11,820.0	45.8	42.3	-90.00	-3,593.3	781.8	1,825.7	1,738.3	87.39	20.893		
15,400.0	11,820.0	15,277.4	11,820.0	46.5	43.0	-90.00	-3,693.3	781.2	1,824.7	1,735.8	88.86	20.535		
15,500.0	11,820.0	15,377.4	11,820.0	47.2	43.8	-90.00	-3,793.3	780.6	1,823.6	1,733.3	90.35	20.184		
15,600.0	11,820.0	15,477.4	11,820.0	48.0	44.6	-90.00	-3,893.3	780.0	1,822.6	1,730.7	91.85	19.842		
15,700.0	11,820.0	15,577.4	11,820.0	48.7	45.4	-90.00	-3,993.3	779.4	1,821.5	1,728.2	93.37	19.509		
15,800.0	11,820.0	15,677.4	11,820.0	49.5	46.2	-90.00	-4,093.3	778.8	1,820.5	1,725.6	94.90	19.182		
15,900.0	11,820.0	15,777.4	11,820.0	50.3	47.0	-90.00	-4,193.3	778.2	1,819.5	1,723.0	96.45	18.864		
16,000.0	11,820.0	15,877.4	11,820.0	51.0	47.8	-90.00	-4,293.3	777.6	1,818.4	1,720.4	98.01	18.554		
16,100.0	11,820.0	15,977.4	11,820.0	51.8	48.6	-90.00	-4,393.3	777.0	1,817.4	1,717.8	99.58	18.251		
16,200.0	11,820.0	16,077.4	11,820.0	52.6	49.5	-90.00	-4,493.3	776.4	1,816.3	1,715.2	101.16	17.955		
16,300.0	11,820.0	16,177.4	11,820.0	53.4	50.3	-90.00	-4,593.3	775.8	1,815.3	1,712.5	102.75	17.667		
16,400.0	11,820.0	16,277.4	11,820.0	54.2	51.1	-90.00	-4,693.3	775.2	1,814.2	1,709.9	104.35	17.386		
16,500.0	11,820.0	16,377.3	11,820.0	55.0	52.0	-90.00	-4,793.3	774.6	1,813.2	1,707.2	105.96	17.112		
16,600.0	11,820.0	16,477.3	11,820.0	55.8	52.8	-90.00	-4,893.2	774.0	1,812.2	1,704.6	107.58	16.844		
16,700.0	11,820.0	16,577.3	11,820.0	56.6	53.6	-90.00	-4,993.2	773.4	1,811.1	1,701.9	109.21	16.583		
16,800.0	11,820.0	16,677.3	11,820.0	57.4	54.5	-90.00	-5,093.2	772.8	1,810.1	1,699.2	110.85	16.329		
16,900.0	11,820.0	16,777.3	11,820.0	58.2	55.3	-90.00	-5,193.2	772.2	1,809.0	1,696.5	112.50	16.081		
17,000.0	11,820.0	16,877.3	11,820.0	59.1	56.2	-90.00	-5,293.2	771.6	1,808.0	1,693.8	114.15	15.838		
17,100.0	11,820.0	16,977.3	11,820.0	59.9	57.1	-90.00	-5,393.2	771.0	1,806.9	1,691.1	115.81	15.602		
17,200.0	11,820.0	17,077.3	11,820.0	60.7	57.9	-90.00	-5,493.2	770.4	1,805.9	1,688.4	117.48	15.372		
17,300.0	11,820.0	17,177.3	11,820.0	61.5	58.8	-90.00	-5,593.2	769.8	1,804.8	1,685.7	119.16	15.147		
17,400.0	11,820.0	17,277.3	11,820.0	62.4	59.6	-90.00	-5,693.2	769.3	1,803.8	1,683.0	120.84	14.927		
17,500.0	11,820.0	17,377.3	11,820.0	63.2	60.5	-90.00	-5,793.2	768.7	1,802.8	1,680.2	122.53	14.713		
17,600.0	11,820.0	17,477.3	11,820.0	64.1	61.4	-90.00	-5,893.2	768.1	1,801.7	1,677.5	124.22	14.504		
17,700.0	11,820.0	17,577.3	11,820.0	64.9	62.3	-90.00	-5,993.2	767.5	1,800.7	1,674.7	125.92	14.300		
17,800.0	11,820.0	17,677.3	11,820.0	65.8	63.1	-90.00	-6,093.2	766.9	1,799.6	1,672.0	127.63	14.101		
17,900.0	11,820.0	17,777.3	11,820.0	66.6	64.0	-90.00	-6,193.1	766.3	1,798.6	1,669.2	129.34	13.906		
18,000.0	11,820.0	17,877.3	11,820.0	67.5	64.9	-90.00	-6,293.1	765.7	1,797.5	1,666.5	131.05	13.716		
18,100.0	11,820.0	17,977.3	11,820.0	68.4	65.8	-90.00	-6,393.1	765.1	1,796.5	1,663.7	132.77	13.531		
18,200.0	11,820.0	18,077.3	11,820.0	69.2	66.7	-90.00	-6,493.1	764.5	1,795.4	1,661.0	134.50	13.349		
18,300.0	11,820.0	18,177.2	11,820.0	70.1	67.6	-90.00	-6,593.1	763.9	1,794.4	1,658.2	136.23	13.172		
18,400.0	11,820.0	18,277.2	11,820.0	71.0	68.5	-90.00	-6,693.1	763.3	1,793.4	1,655.4	137.96	12.999		
18,500.0	11,820.0	18,377.2	11,820.0	71.8	69.3	-90.00	-6,793.1	762.7	1,792.3	1,652.6	139.70	12.830		
18,600.0	11,820.0	18,477.2	11,820.0	72.7	70.2	-90.00	-6,893.1	762.1	1,791.3	1,649.8	141.44	12.664		
18,700.0	11,820.0	18,577.2	11,820.0	73.6	71.1	-90.00	-6,993.1	761.5	1,790.2	1,647.0	143.19	12.503		
18,800.0	11,820.0	18,677.2	11,820.0	74.4	72.0	-90.00	-7,093.1	760.9	1,789.2	1,644.2	144.94	12.344		
18,900.0	11,820.0	18,777.2	11,820.0	75.3	72.9	-90.00	-7,193.1	760.3	1,788.1	1,641.4	146.69	12.190		
19,000.0	11,820.0	18,877.2	11,820.0	76.2	73.8	-90.00	-7,293.1	759.7	1,787.1	1,638.6	148.45	12.038		
19,100.0	11,820.0	18,977.2	11,820.0	77.1	74.7	-90.00	-7,393.1	759.1	1,786.1	1,635.8	150.21	11.890		
19,200.0	11,820.0	19,077.2	11,820.0	78.0	75.6	-90.00	-7,493.1	758.5	1,785.0	1,633.0	151.97	11.745		
19,300.0	11,820.0	19,177.2	11,820.0	78.9	76.5	-90.00	-7,593.0	757.9	1,784.0	1,630.2	153.74	11.604		
19,400.0	11,820.0	19,277.2	11,820.0	79.8	77.2	-90.00	-7,693.0	757.3	1,782.9	1,627.6	155.50	11.481		
19,445.7	11,820.0	19,304.3	11,820.0	80.2	77.4	-90.00	-7,720.1	757.2	1,782.5	1,626.7	155.86	11.437		
19,448.4	11,820.0	19,304.3	11,820.0	80.2	77.4	-90.00	-7,720.1	757.2	1,782.5	1,626.7	155.88	11.436 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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	104.04	-348.4	1,393.3	1,436.2	1,429.8	6.43	223.401	
100.0	100.0	100.0	100.0	3.2	3.2	104.04	-348.4	1,393.3	1,436.2	1,429.3	6.89	208.379	
200.0	200.0	200.0	200.0	3.5	3.5	104.04	-348.4	1,393.3	1,436.2	1,428.9	7.33	195.987	
300.0	300.0	300.0	300.0	3.7	3.7	104.04	-348.4	1,393.3	1,436.2	1,428.5	7.74	185.527	
400.0	400.0	400.0	400.0	3.9	3.9	104.04	-348.4	1,393.3	1,436.2	1,428.1	8.14	176.537	
500.0	500.0	500.0	500.0	4.1	4.1	104.04	-348.4	1,393.3	1,436.2	1,427.7	8.51	168.698	
600.0	600.0	600.0	600.0	4.2	4.2	104.04	-348.4	1,393.3	1,436.2	1,427.3	8.88	161.780	
700.0	700.0	700.0	700.0	4.4	4.4	104.04	-348.4	1,393.3	1,436.2	1,427.0	9.23	155.613	
800.0	800.0	800.0	800.0	4.6	4.6	104.04	-348.4	1,393.3	1,436.2	1,426.7	9.57	150.068	
900.0	900.0	900.0	900.0	4.8	4.8	104.04	-348.4	1,393.3	1,436.2	1,426.3	9.90	145.045	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	104.04	-348.4	1,393.3	1,436.2	1,426.0	10.22	140.466	CC
1,100.0	1,100.0	1,138.0	1,138.0	5.2	5.3	-166.09	-345.3	1,392.2	1,436.6	1,425.9	10.72	133.997	ES
1,200.0	1,199.8	1,275.5	1,275.1	5.4	5.7	-166.49	-335.9	1,388.9	1,437.7	1,426.5	11.21	128.235	
1,300.0	1,299.5	1,411.8	1,410.4	5.7	6.1	-167.13	-320.6	1,383.5	1,439.7	1,428.0	11.74	122.631	
1,400.0	1,398.7	1,509.6	1,507.2	6.0	6.3	-167.68	-307.5	1,378.9	1,444.1	1,431.9	12.17	118.655	
1,500.0	1,497.5	1,608.1	1,604.7	6.3	6.6	-168.25	-294.3	1,374.3	1,452.0	1,439.3	12.64	114.842	
1,600.0	1,595.6	1,706.2	1,701.8	6.6	6.8	-168.83	-281.1	1,369.7	1,463.4	1,450.3	13.08	111.921	
1,700.0	1,693.6	1,804.1	1,798.7	6.9	7.1	-169.45	-268.0	1,365.1	1,476.2	1,462.7	13.56	108.863	
1,800.0	1,791.5	1,901.9	1,895.6	7.2	7.4	-170.06	-254.9	1,360.5	1,489.2	1,475.2	14.03	106.122	
1,900.0	1,889.4	1,999.8	1,992.5	7.5	7.7	-170.66	-241.8	1,355.8	1,502.4	1,487.9	14.53	103.422	
2,000.0	1,987.3	2,097.7	2,089.3	7.8	8.0	-171.24	-228.7	1,351.2	1,515.7	1,500.7	15.04	100.787	
2,100.0	2,085.2	2,195.6	2,186.2	8.1	8.4	-171.82	-215.6	1,346.6	1,529.2	1,513.6	15.57	98.234	
2,200.0	2,183.2	2,293.5	2,283.1	8.5	8.7	-172.39	-202.5	1,342.0	1,542.8	1,526.7	16.11	95.774	
2,300.0	2,281.1	2,391.4	2,380.0	8.9	9.0	-172.94	-189.4	1,337.4	1,556.6	1,540.0	16.66	93.413	
2,400.0	2,379.0	2,489.3	2,476.9	9.2	9.4	-173.49	-176.3	1,332.8	1,570.6	1,553.3	17.23	91.154	
2,500.0	2,476.9	2,587.1	2,573.8	9.6	9.8	-174.03	-163.1	1,328.2	1,584.6	1,566.8	17.80	89.000	
2,600.0	2,574.9	2,685.0	2,670.7	10.0	10.1	-174.56	-150.0	1,323.6	1,598.8	1,580.5	18.39	86.949	
2,700.0	2,672.8	2,782.9	2,767.6	10.4	10.5	-175.08	-136.9	1,319.0	1,613.2	1,594.2	18.98	84.998	
2,800.0	2,770.7	2,880.8	2,864.5	10.8	10.9	-175.59	-123.8	1,314.4	1,627.7	1,608.1	19.58	83.144	
2,900.0	2,868.6	2,978.7	2,961.4	11.2	11.2	-176.09	-110.7	1,309.8	1,642.3	1,622.1	20.18	81.384	
3,000.0	2,966.6	3,076.6	3,058.3	11.6	11.6	-176.59	-97.6	1,305.2	1,657.0	1,636.2	20.79	79.714	
3,100.0	3,064.5	3,174.5	3,155.2	12.0	12.0	-177.07	-84.5	1,300.6	1,671.8	1,650.4	21.40	78.128	
3,200.0	3,162.4	3,272.3	3,252.1	12.5	12.4	-177.55	-71.4	1,296.0	1,686.8	1,664.8	22.01	76.624	
3,300.0	3,260.3	3,370.2	3,349.0	12.9	12.8	-178.01	-58.3	1,291.3	1,701.9	1,679.2	22.64	75.176	
3,400.0	3,358.2	3,462.3	3,440.1	13.3	13.1	-178.44	-46.2	1,287.1	1,717.2	1,693.9	23.25	73.873	
3,500.0	3,456.2	3,550.8	3,527.9	13.8	13.5	-178.80	-35.7	1,283.4	1,733.1	1,709.2	23.84	72.689	
3,600.0	3,554.1	3,639.4	3,616.0	14.2	13.8	-179.12	-26.6	1,280.2	1,749.6	1,725.1	24.44	71.579	
3,700.0	3,652.0	3,728.2	3,704.4	14.6	14.1	-179.38	-18.7	1,277.4	1,766.6	1,741.6	25.04	70.545	
3,800.0	3,749.9	3,816.9	3,792.9	15.1	14.5	-179.61	-12.1	1,275.1	1,784.3	1,758.6	25.64	69.581	
3,900.0	3,847.9	3,905.7	3,881.5	15.5	14.8	-179.78	-6.8	1,273.3	1,802.5	1,776.2	26.24	68.682	
4,000.0	3,945.8	3,994.5	3,970.1	16.0	15.1	-179.91	-2.8	1,271.8	1,821.2	1,794.3	26.84	67.846	
4,100.0	4,043.7	4,083.1	4,058.8	16.4	15.3	-180.00	-0.1	1,270.9	1,840.4	1,812.9	27.44	67.070	
4,200.0	4,141.6	4,171.7	4,147.3	16.8	15.5	-179.96	1.3	1,270.4	1,860.1	1,832.1	28.03	66.353	
4,300.0	4,239.6	4,263.9	4,239.6	17.3	15.7	-179.95	1.6	1,270.3	1,880.3	1,851.7	28.61	65.717	
4,400.0	4,337.5	4,361.9	4,337.5	17.7	15.7	-179.95	1.6	1,270.3	1,900.6	1,871.4	29.21	65.064	
4,500.0	4,435.4	4,459.8	4,435.4	18.2	15.8	-179.95	1.6	1,270.3	1,920.8	1,891.0	29.82	64.421	
4,600.0	4,533.3	4,557.7	4,533.3	18.6	15.8	-179.95	1.6	1,270.3	1,941.1	1,910.7	30.43	63.798	
4,700.0	4,631.2	4,655.6	4,631.2	19.1	15.9	-179.95	1.6	1,270.3	1,961.4	1,930.4	31.04	63.194	
4,800.0	4,729.2	4,753.6	4,729.2	19.5	16.0	-179.95	1.6	1,270.3	1,981.7	1,950.0	31.65	62.609	
4,900.0	4,827.1	4,851.5	4,827.1	20.0	16.0	-179.95	1.6	1,270.3	2,001.9	1,969.7	32.27	62.042	
5,000.0	4,925.0	4,949.4	4,925.0	20.5	16.1	-179.95	1.6	1,270.3	2,022.2	1,989.3	32.89	61.492	

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	Factor		
5,100.0	5,022.9	5,047.3	5,022.9	20.9	16.2	179.96	1.6	1,270.3	2,042.5	2,009.0	33.51	60.959		
5,200.0	5,120.9	5,145.3	5,120.9	21.4	16.2	179.96	1.6	1,270.3	2,062.8	2,028.6	34.13	60.441		
5,300.0	5,218.8	5,243.2	5,218.8	21.8	16.3	179.96	1.6	1,270.3	2,083.0	2,048.3	34.75	59.939		
5,400.0	5,316.7	5,341.1	5,316.7	22.3	16.3	179.96	1.6	1,270.3	2,103.3	2,067.9	35.38	59.452		
5,500.0	5,414.6	5,439.0	5,414.6	22.7	16.4	179.96	1.6	1,270.3	2,123.6	2,087.6	36.01	58.980		
5,600.0	5,512.6	5,536.9	5,512.6	23.2	16.5	179.96	1.6	1,270.3	2,143.9	2,107.2	36.63	58.521		
5,700.0	5,610.5	5,634.9	5,610.5	23.7	16.5	179.96	1.6	1,270.3	2,164.1	2,126.9	37.26	58.075		
5,800.0	5,708.4	5,732.8	5,708.4	24.1	16.6	179.96	1.6	1,270.3	2,184.4	2,146.5	37.90	57.642		
5,900.0	5,806.3	5,830.7	5,806.3	24.6	16.7	179.96	1.6	1,270.3	2,204.7	2,166.2	38.53	57.221		
6,000.0	5,904.3	5,928.7	5,904.3	25.0	16.7	179.96	1.6	1,270.3	2,224.6	2,185.4	39.14	56.832		
6,100.0	6,002.6	6,027.0	6,002.6	25.5	16.8	179.96	1.6	1,270.3	2,242.8	2,203.1	39.77	56.401		
6,200.0	6,101.3	6,125.7	6,101.3	25.9	16.9	179.96	1.6	1,270.3	2,259.4	2,219.0	40.38	55.956		
6,300.0	6,200.2	6,224.5	6,200.2	26.4	16.9	179.96	1.6	1,270.3	2,274.2	2,233.2	40.98	55.498		
6,400.0	6,299.3	6,323.7	6,299.3	26.8	17.0	179.96	1.6	1,270.3	2,287.3	2,245.7	41.56	55.030		
6,500.0	6,398.6	6,423.0	6,398.6	27.2	17.1	179.96	1.6	1,270.3	2,298.7	2,256.5	42.13	54.555		
6,600.0	6,498.2	6,522.6	6,498.2	27.6	17.1	179.96	1.6	1,270.3	2,308.3	2,265.6	42.69	54.076		
6,700.0	6,597.9	6,622.3	6,597.9	28.0	17.2	179.96	1.6	1,270.3	2,316.2	2,273.0	43.22	53.595		
6,800.0	6,697.7	6,722.1	6,697.7	28.3	17.3	179.96	1.6	1,270.3	2,322.3	2,278.6	43.72	53.119		
6,900.0	6,797.6	6,822.0	6,797.6	28.6	17.3	179.96	1.6	1,270.3	2,326.7	2,282.6	44.19	52.653		
7,000.0	6,897.5	6,921.9	6,897.5	28.9	17.4	179.96	1.6	1,270.3	2,329.4	2,284.8	44.61	52.213		
7,100.0	6,997.5	7,021.9	6,997.5	29.1	17.5	179.96	1.6	1,270.3	2,330.3	2,285.5	44.85	51.952		
7,200.0	7,097.5	7,121.9	7,097.5	29.1	17.5	89.96	1.6	1,270.3	2,330.3	2,285.4	44.94	51.850		
7,300.0	7,197.5	7,221.9	7,197.5	29.1	17.6	89.96	1.6	1,270.3	2,330.3	2,285.3	45.03	51.751		
7,400.0	7,297.5	7,321.9	7,297.5	29.2	17.7	89.96	1.6	1,270.3	2,330.3	2,285.2	45.12	51.652		
7,500.0	7,397.5	7,421.9	7,397.5	29.2	17.7	89.96	1.6	1,270.3	2,330.3	2,285.1	45.20	51.552		
7,600.0	7,497.5	7,521.9	7,497.5	29.2	17.8	89.96	1.6	1,270.3	2,330.3	2,285.0	45.29	51.453		
7,700.0	7,597.5	7,621.9	7,597.5	29.2	17.9	89.96	1.6	1,270.3	2,330.3	2,284.9	45.38	51.353		
7,800.0	7,697.5	7,721.9	7,697.5	29.3	17.9	89.96	1.6	1,270.3	2,330.3	2,284.9	45.47	51.253		
7,900.0	7,797.5	7,821.9	7,797.5	29.3	18.0	89.96	1.6	1,270.3	2,330.3	2,284.8	45.56	51.154		
8,000.0	7,897.5	7,921.9	7,897.5	29.3	18.1	89.96	1.6	1,270.3	2,330.3	2,284.7	45.64	51.054		
8,100.0	7,997.5	8,021.9	7,997.5	29.4	18.2	89.96	1.6	1,270.3	2,330.3	2,284.6	45.73	50.954		
8,200.0	8,097.5	8,121.9	8,097.5	29.4	18.2	89.96	1.6	1,270.3	2,330.3	2,284.5	45.82	50.854		
8,300.0	8,197.5	8,221.9	8,197.5	29.4	18.3	89.96	1.6	1,270.3	2,330.3	2,284.4	45.91	50.754		
8,400.0	8,297.5	8,321.9	8,297.5	29.5	18.4	89.96	1.6	1,270.3	2,330.3	2,284.3	46.00	50.654		
8,500.0	8,397.5	8,421.9	8,397.5	29.5	18.4	89.96	1.6	1,270.3	2,330.3	2,284.2	46.10	50.555		
8,600.0	8,497.5	8,521.9	8,497.5	29.5	18.5	89.96	1.6	1,270.3	2,330.3	2,284.1	46.19	50.455		
8,700.0	8,597.5	8,621.9	8,597.5	29.5	18.6	89.96	1.6	1,270.3	2,330.3	2,284.0	46.28	50.354		
8,800.0	8,697.5	8,721.9	8,697.5	29.6	18.6	89.96	1.6	1,270.3	2,330.3	2,283.9	46.37	50.254		
8,900.0	8,797.5	8,821.9	8,797.5	29.6	18.7	89.96	1.6	1,270.3	2,330.3	2,283.9	46.46	50.154		
9,000.0	8,897.5	8,921.9	8,897.5	29.6	18.8	89.96	1.6	1,270.3	2,330.3	2,283.8	46.56	50.054		
9,100.0	8,997.5	9,021.9	8,997.5	29.7	18.8	89.96	1.6	1,270.3	2,330.3	2,283.7	46.65	49.954		
9,200.0	9,097.5	9,121.9	9,097.5	29.7	18.9	89.96	1.6	1,270.3	2,330.3	2,283.6	46.74	49.854		
9,300.0	9,197.5	9,221.9	9,197.5	29.7	19.0	89.96	1.6	1,270.3	2,330.3	2,283.5	46.84	49.754		
9,400.0	9,297.5	9,321.9	9,297.5	29.8	19.1	89.96	1.6	1,270.3	2,330.3	2,283.4	46.93	49.654		
9,500.0	9,397.5	9,421.9	9,397.5	29.8	19.1	89.96	1.6	1,270.3	2,330.3	2,283.3	47.03	49.554		
9,600.0	9,497.5	9,521.9	9,497.5	29.8	19.2	89.96	1.6	1,270.3	2,330.3	2,283.2	47.12	49.454		
9,700.0	9,597.5	9,621.9	9,597.5	29.9	19.3	89.96	1.6	1,270.3	2,330.3	2,283.1	47.22	49.354		
9,800.0	9,697.5	9,721.9	9,697.5	29.9	19.3	89.96	1.6	1,270.3	2,330.3	2,283.0	47.31	49.254		
9,900.0	9,797.5	9,821.9	9,797.5	29.9	19.4	89.96	1.6	1,270.3	2,330.3	2,282.9	47.41	49.154		
10,000.0	9,897.5	9,921.9	9,897.5	30.0	19.5	89.96	1.6	1,270.3	2,330.3	2,282.8	47.50	49.054		
10,100.0	9,997.5	10,021.9	9,997.5	30.0	19.5	89.96	1.6	1,270.3	2,330.3	2,282.7	47.60	48.954		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		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)				
10,200.0	10,097.5	10,121.9	10,097.5	30.0	19.6	89.96	1.6	1,270.3	2,330.3	2,282.6	47.70	48.855		
10,300.0	10,197.5	10,221.9	10,197.5	30.1	19.7	89.96	1.6	1,270.3	2,330.3	2,282.5	47.80	48.755		
10,400.0	10,297.5	10,321.9	10,297.5	30.1	19.8	89.96	1.6	1,270.3	2,330.3	2,282.4	47.89	48.655		
10,500.0	10,397.5	10,421.9	10,397.5	30.1	19.8	89.96	1.6	1,270.3	2,330.3	2,282.3	47.99	48.556		
10,600.0	10,497.5	10,521.9	10,497.5	30.2	19.9	89.96	1.6	1,270.3	2,330.3	2,282.2	48.09	48.456		
10,700.0	10,597.5	10,621.9	10,597.5	30.2	20.0	89.96	1.6	1,270.3	2,330.3	2,282.1	48.19	48.357		
10,800.0	10,697.5	10,721.9	10,697.5	30.2	20.0	89.96	1.6	1,270.3	2,330.3	2,282.0	48.29	48.257		
10,900.0	10,797.5	10,821.9	10,797.5	30.3	20.1	89.96	1.6	1,270.3	2,330.3	2,281.9	48.39	48.158		
11,000.0	10,897.5	10,921.9	10,897.5	30.3	20.2	89.96	1.6	1,270.3	2,330.3	2,281.8	48.49	48.059		
11,100.0	10,997.5	11,021.9	10,997.5	30.3	20.3	89.96	1.6	1,270.3	2,330.3	2,281.7	48.59	47.959		
11,200.0	11,097.5	11,121.9	11,097.5	30.4	20.3	89.96	1.6	1,270.3	2,330.3	2,281.6	48.69	47.861		
11,300.0	11,197.5	11,223.1	11,198.7	30.4	20.3	89.98	0.8	1,270.3	2,330.3	2,281.5	48.78	47.775		
11,400.0	11,297.5	11,324.8	11,298.9	30.4	20.1	90.38	-15.5	1,270.2	2,330.2	2,281.4	48.80	47.746		
11,431.9	11,329.4	11,355.5	11,328.2	30.4	20.0	-89.15	-24.5	1,270.1	2,330.2	2,281.4	48.80	47.753		
11,500.0	11,397.4	11,417.2	11,385.0	30.5	19.8	-88.61	-48.3	1,269.9	2,330.3	2,281.6	48.77	47.784		
11,600.0	11,494.8	11,503.7	11,458.6	30.4	19.6	-87.87	-93.6	1,269.5	2,330.7	2,282.0	48.67	47.889		
11,700.0	11,585.6	11,586.1	11,520.0	30.4	19.4	-87.22	-148.5	1,269.0	2,331.1	2,282.5	48.54	48.020		
11,800.0	11,665.7	11,665.6	11,569.5	30.5	19.2	-86.68	-210.6	1,268.5	2,331.4	2,283.0	48.42	48.146		
11,900.0	11,731.7	11,742.8	11,607.0	30.5	19.1	-86.25	-278.0	1,267.9	2,331.6	2,283.3	48.34	48.233		
12,000.0	11,780.7	11,818.4	11,632.8	30.5	19.1	-85.96	-348.9	1,267.3	2,331.5	2,283.2	48.32	48.255		
12,100.0	11,810.6	11,892.8	11,646.9	30.6	19.0	-85.81	-421.9	1,266.6	2,331.0	2,282.6	48.37	48.191		
12,200.0	11,820.0	11,973.7	11,650.0	30.7	19.0	-85.82	-502.7	1,265.9	2,330.1	2,281.5	48.52	48.023		
12,300.0	11,820.0	12,073.7	11,650.0	30.9	19.1	-85.81	-602.7	1,265.1	2,328.7	2,280.0	48.80	47.724		
12,400.0	11,820.0	12,173.7	11,650.0	31.0	19.2	-85.81	-702.7	1,264.2	2,327.4	2,278.3	49.14	47.359		
12,500.0	11,820.0	12,273.7	11,650.0	31.2	19.2	-85.81	-802.7	1,263.3	2,326.1	2,276.6	49.56	46.932		
12,600.0	11,820.0	12,373.7	11,650.0	31.5	19.4	-85.81	-902.7	1,262.5	2,324.8	2,274.8	50.05	46.448		
12,700.0	11,820.0	12,473.7	11,650.0	31.7	19.5	-85.80	-1,002.6	1,261.6	2,323.5	2,272.9	50.61	45.913		
12,800.0	11,820.0	12,573.7	11,650.0	32.0	19.7	-85.80	-1,102.6	1,260.7	2,322.2	2,271.0	51.23	45.333		
12,900.0	11,820.0	12,673.7	11,650.0	32.3	20.0	-85.80	-1,202.6	1,259.8	2,320.9	2,269.0	51.91	44.712		
13,000.0	11,820.0	12,773.7	11,650.0	32.7	20.3	-85.80	-1,302.6	1,259.0	2,319.5	2,266.9	52.65	44.058		
13,100.0	11,820.0	12,873.6	11,650.0	33.0	20.8	-85.79	-1,402.6	1,258.1	2,318.2	2,264.8	53.45	43.376		
13,200.0	11,820.0	12,973.6	11,650.0	33.4	21.2	-85.79	-1,502.6	1,257.2	2,316.9	2,262.6	54.30	42.670		
13,300.0	11,820.0	13,073.6	11,650.0	33.8	21.8	-85.79	-1,602.6	1,256.4	2,315.6	2,260.4	55.20	41.947		
13,400.0	11,820.0	13,173.6	11,650.0	34.3	22.3	-85.79	-1,702.6	1,255.5	2,314.3	2,258.1	56.16	41.210		
13,500.0	11,820.0	13,273.6	11,650.0	34.7	23.0	-85.78	-1,802.5	1,254.6	2,313.0	2,255.8	57.16	40.465		
13,600.0	11,820.0	13,373.6	11,650.0	35.2	23.6	-85.78	-1,902.5	1,253.8	2,311.7	2,253.5	58.21	39.715		
13,700.0	11,820.0	13,473.6	11,650.0	35.7	24.3	-85.78	-2,002.5	1,252.9	2,310.3	2,251.0	59.30	38.963		
13,800.0	11,820.0	13,573.6	11,650.0	36.2	25.0	-85.78	-2,102.5	1,252.0	2,309.0	2,248.6	60.42	38.214		
13,900.0	11,820.0	13,673.6	11,650.0	36.8	25.7	-85.78	-2,202.5	1,251.1	2,307.7	2,246.1	61.59	37.469		
14,000.0	11,820.0	13,773.6	11,650.0	37.3	26.4	-85.77	-2,302.5	1,250.3	2,306.4	2,243.6	62.79	36.730		
14,100.0	11,820.0	13,873.6	11,650.0	37.9	27.2	-85.77	-2,402.5	1,249.4	2,305.1	2,241.1	64.03	36.001		
14,200.0	11,820.0	13,973.5	11,650.0	38.5	27.9	-85.77	-2,502.5	1,248.5	2,303.8	2,238.5	65.30	35.282		
14,300.0	11,820.0	14,073.5	11,650.0	39.1	28.7	-85.77	-2,602.4	1,247.7	2,302.5	2,235.9	66.59	34.575		
14,400.0	11,820.0	14,173.5	11,650.0	39.7	29.5	-85.76	-2,702.4	1,246.8	2,301.1	2,233.2	67.92	33.881		
14,500.0	11,820.0	14,273.5	11,650.0	40.3	30.3	-85.76	-2,802.4	1,245.9	2,299.8	2,230.6	69.27	33.201		
14,600.0	11,820.0	14,373.5	11,650.0	41.0	31.1	-85.76	-2,902.4	1,245.1	2,298.5	2,227.9	70.65	32.535		
14,700.0	11,820.0	14,473.5	11,650.0	41.6	31.9	-85.76	-3,002.4	1,244.2	2,297.2	2,225.1	72.05	31.885		
14,800.0	11,820.0	14,573.5	11,650.0	42.3	32.7	-85.75	-3,102.4	1,243.3	2,295.9	2,222.4	73.47	31.249		
14,900.0	11,820.0	14,673.5	11,650.0	43.0	33.6	-85.75	-3,202.4	1,242.4	2,294.6	2,219.7	74.91	30.630		
15,000.0	11,820.0	14,773.5	11,650.0	43.7	34.4	-85.75	-3,302.4	1,241.6	2,293.3	2,216.9	76.38	30.026		
15,100.0	11,820.0	14,873.5	11,650.0	44.4	35.2	-85.75	-3,402.3	1,240.7	2,291.9	2,214.1	77.86	29.437		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #706H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
15,200.0	11,820.0	14,973.5	11,650.0	45.1	36.1	-85.74	-3,502.3	1,239.8	2,290.6	2,211.3	79.36	28.865		
15,300.0	11,820.0	15,073.5	11,650.0	45.8	37.0	-85.74	-3,602.3	1,239.0	2,289.3	2,208.4	80.87	28.307		
15,400.0	11,820.0	15,173.4	11,650.0	46.5	37.8	-85.74	-3,702.3	1,238.1	2,288.0	2,205.6	82.40	27.765		
15,500.0	11,820.0	15,273.4	11,650.0	47.2	38.7	-85.74	-3,802.3	1,237.2	2,286.7	2,202.7	83.95	27.238		
15,600.0	11,820.0	15,373.4	11,650.0	48.0	39.5	-85.73	-3,902.3	1,236.4	2,285.4	2,199.9	85.51	26.726		
15,700.0	11,820.0	15,473.4	11,650.0	48.7	40.4	-85.73	-4,002.3	1,235.5	2,284.1	2,197.0	87.08	26.228		
15,800.0	11,820.0	15,573.4	11,650.0	49.5	41.3	-85.73	-4,102.3	1,234.6	2,282.7	2,194.1	88.67	25.744		
15,900.0	11,820.0	15,673.4	11,650.0	50.3	42.2	-85.73	-4,202.2	1,233.8	2,281.4	2,191.2	90.27	25.274		
16,000.0	11,820.0	15,773.4	11,650.0	51.0	43.1	-85.72	-4,302.2	1,232.9	2,280.1	2,188.2	91.88	24.817		
16,100.0	11,820.0	15,873.4	11,650.0	51.8	44.0	-85.72	-4,402.2	1,232.0	2,278.8	2,185.3	93.50	24.373		
16,200.0	11,820.0	15,973.4	11,650.0	52.6	44.8	-85.72	-4,502.2	1,231.1	2,277.5	2,182.4	95.13	23.942		
16,300.0	11,820.0	16,073.4	11,650.0	53.4	45.7	-85.72	-4,602.2	1,230.3	2,276.2	2,179.4	96.77	23.522		
16,400.0	11,820.0	16,173.4	11,650.0	54.2	46.6	-85.71	-4,702.2	1,229.4	2,274.8	2,176.4	98.41	23.115		
16,500.0	11,820.0	16,273.3	11,650.0	55.0	47.5	-85.71	-4,802.2	1,228.5	2,273.5	2,173.5	100.07	22.719		
16,600.0	11,820.0	16,373.3	11,650.0	55.8	48.4	-85.71	-4,902.2	1,227.7	2,272.2	2,170.5	101.74	22.334		
16,700.0	11,820.0	16,473.3	11,650.0	56.6	49.3	-85.71	-5,002.1	1,226.8	2,270.9	2,167.5	103.41	21.960		
16,800.0	11,820.0	16,573.3	11,650.0	57.4	50.2	-85.70	-5,102.1	1,225.9	2,269.6	2,164.5	105.09	21.597		
16,900.0	11,820.0	16,673.3	11,650.0	58.2	51.1	-85.70	-5,202.1	1,225.1	2,268.3	2,161.5	106.78	21.243		
17,000.0	11,820.0	16,773.3	11,650.0	59.1	52.1	-85.70	-5,302.1	1,224.2	2,267.0	2,158.5	108.47	20.899		
17,100.0	11,820.0	16,873.3	11,650.0	59.9	53.0	-85.70	-5,402.1	1,223.3	2,265.6	2,155.5	110.17	20.565		
17,200.0	11,820.0	16,973.3	11,650.0	60.7	53.9	-85.69	-5,502.1	1,222.4	2,264.3	2,152.5	111.88	20.239		
17,300.0	11,820.0	17,073.3	11,650.0	61.5	54.8	-85.69	-5,602.1	1,221.6	2,263.0	2,149.4	113.59	19.922		
17,400.0	11,820.0	17,173.3	11,650.0	62.4	55.7	-85.69	-5,702.1	1,220.7	2,261.7	2,146.4	115.31	19.614		
17,500.0	11,820.0	17,273.3	11,650.0	63.2	56.6	-85.69	-5,802.0	1,219.8	2,260.4	2,143.4	117.03	19.314		
17,600.0	11,820.0	17,373.3	11,650.0	64.1	57.5	-85.68	-5,902.0	1,219.0	2,259.1	2,140.3	118.76	19.022		
17,700.0	11,820.0	17,473.2	11,650.0	64.9	58.5	-85.68	-6,002.0	1,218.1	2,257.8	2,137.3	120.50	18.737		
17,800.0	11,820.0	17,573.2	11,650.0	65.8	59.4	-85.68	-6,102.0	1,217.2	2,256.4	2,134.2	122.24	18.460		
17,900.0	11,820.0	17,673.2	11,650.0	66.6	60.3	-85.68	-6,202.0	1,216.4	2,255.1	2,131.2	123.98	18.190		
18,000.0	11,820.0	17,773.2	11,650.0	67.5	61.2	-85.67	-6,302.0	1,215.5	2,253.8	2,128.1	125.73	17.926		
18,100.0	11,820.0	17,873.2	11,650.0	68.4	62.1	-85.67	-6,402.0	1,214.6	2,252.5	2,125.0	127.48	17.670		
18,200.0	11,820.0	17,973.2	11,650.0	69.2	63.1	-85.67	-6,502.0	1,213.7	2,251.2	2,122.0	129.23	17.420		
18,300.0	11,820.0	18,073.2	11,650.0	70.1	64.0	-85.67	-6,601.9	1,212.9	2,249.9	2,118.9	130.99	17.176		
18,400.0	11,820.0	18,173.2	11,650.0	71.0	64.9	-85.66	-6,701.9	1,212.0	2,248.6	2,115.8	132.75	16.938		
18,500.0	11,820.0	18,273.2	11,650.0	71.8	65.9	-85.66	-6,801.9	1,211.1	2,247.2	2,112.7	134.52	16.706		
18,600.0	11,820.0	18,373.2	11,650.0	72.7	66.8	-85.66	-6,901.9	1,210.3	2,245.9	2,109.6	136.29	16.479		
18,700.0	11,820.0	18,473.2	11,650.0	73.6	67.7	-85.66	-7,001.9	1,209.4	2,244.6	2,106.6	138.06	16.258		
18,800.0	11,820.0	18,573.2	11,650.0	74.4	68.6	-85.65	-7,101.9	1,208.5	2,243.3	2,103.5	139.84	16.042		
18,900.0	11,820.0	18,673.1	11,650.0	75.3	69.6	-85.65	-7,201.9	1,207.7	2,242.0	2,100.4	141.62	15.831		
19,000.0	11,820.0	18,773.1	11,650.0	76.2	70.5	-85.65	-7,301.9	1,206.8	2,240.7	2,097.3	143.40	15.625		
19,100.0	11,820.0	18,873.1	11,650.0	77.1	71.4	-85.65	-7,401.8	1,205.9	2,239.4	2,094.2	145.19	15.424		
19,200.0	11,820.0	18,973.1	11,650.0	78.0	72.4	-85.64	-7,501.8	1,205.1	2,238.0	2,091.1	146.97	15.228		
19,300.0	11,820.0	19,073.1	11,650.0	78.9	73.3	-85.64	-7,601.8	1,204.2	2,236.7	2,088.0	148.76	15.036		
19,400.0	11,820.0	19,173.1	11,650.0	79.8	74.2	-85.64	-7,701.8	1,203.3	2,235.4	2,084.9	150.55	14.848		
19,444.9	11,820.0	19,188.8	11,650.0	80.2	74.4	-85.64	-7,717.5	1,203.2	2,235.0	2,084.0	151.06	14.796		
19,448.4	11,820.0	19,188.8	11,650.0	80.2	74.4	-85.64	-7,717.5	1,203.2	2,235.0	2,083.9	151.09	14.793 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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	103.74	-348.0	1,423.3	1,465.2	1,458.8	6.43	227.915	
100.0	100.0	100.0	100.0	3.2	3.2	103.74	-348.0	1,423.3	1,465.2	1,458.4	6.89	212.589	
200.0	200.0	200.0	200.0	3.5	3.5	103.74	-348.0	1,423.3	1,465.2	1,457.9	7.33	199.947	
300.0	300.0	300.0	300.0	3.7	3.7	103.74	-348.0	1,423.3	1,465.2	1,457.5	7.74	189.275	
400.0	400.0	400.0	400.0	3.9	3.9	103.74	-348.0	1,423.3	1,465.2	1,457.1	8.14	180.104	
500.0	500.0	500.0	500.0	4.1	4.1	103.74	-348.0	1,423.3	1,465.2	1,456.7	8.51	172.107	
600.0	600.0	600.0	600.0	4.2	4.2	103.74	-348.0	1,423.3	1,465.2	1,456.4	8.88	165.049	
700.0	700.0	700.0	700.0	4.4	4.4	103.74	-348.0	1,423.3	1,465.2	1,456.0	9.23	158.757	
800.0	800.0	800.0	800.0	4.6	4.6	103.74	-348.0	1,423.3	1,465.2	1,455.7	9.57	153.100	
900.0	900.0	900.0	900.0	4.8	4.8	103.74	-348.0	1,423.3	1,465.2	1,455.3	9.90	147.976	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	103.74	-348.0	1,423.3	1,465.2	1,455.0	10.22	143.304	CC, ES
1,100.0	1,100.0	1,080.5	1,080.5	5.2	5.1	-166.30	-347.2	1,424.1	1,467.6	1,457.0	10.61	138.270	
1,200.0	1,199.8	1,160.7	1,160.6	5.4	5.3	-166.42	-344.7	1,426.3	1,474.7	1,463.7	11.00	134.112	
1,300.0	1,299.5	1,240.1	1,239.8	5.7	5.6	-166.62	-340.5	1,430.0	1,486.5	1,475.1	11.39	130.465	
1,400.0	1,398.7	1,318.4	1,317.7	6.0	5.8	-166.89	-334.8	1,435.1	1,503.0	1,491.2	11.81	127.246	
1,500.0	1,497.5	1,406.1	1,404.8	6.3	6.1	-167.28	-326.6	1,442.5	1,524.3	1,512.0	12.28	124.087	
1,600.0	1,595.6	1,487.7	1,485.5	6.6	6.2	-167.70	-318.0	1,450.2	1,549.7	1,537.0	12.67	122.342	
1,700.0	1,693.6	1,582.7	1,579.6	6.9	6.5	-168.30	-308.0	1,459.1	1,576.5	1,563.4	13.14	120.021	
1,800.0	1,791.5	1,677.8	1,673.7	7.2	6.7	-168.87	-298.0	1,468.1	1,603.5	1,589.9	13.60	117.922	
1,900.0	1,889.4	1,772.8	1,767.8	7.5	7.0	-169.43	-288.0	1,477.0	1,630.6	1,616.6	14.09	115.760	
2,000.0	1,987.3	1,867.8	1,861.8	7.8	7.3	-169.96	-278.0	1,486.0	1,657.9	1,643.3	14.60	113.569	
2,100.0	2,085.2	1,962.9	1,955.9	8.1	7.6	-170.48	-268.0	1,494.9	1,685.3	1,670.2	15.13	111.377	
2,200.0	2,183.2	2,057.9	2,050.0	8.5	7.9	-170.99	-257.9	1,503.9	1,712.9	1,697.2	15.68	109.205	
2,300.0	2,281.1	2,152.9	2,144.1	8.9	8.2	-171.47	-247.9	1,512.8	1,740.5	1,724.2	16.26	107.070	
2,400.0	2,379.0	2,248.0	2,238.2	9.2	8.5	-171.95	-237.9	1,521.8	1,768.3	1,751.4	16.84	104.985	
2,500.0	2,476.9	2,343.0	2,332.2	9.6	8.8	-172.41	-227.9	1,530.7	1,796.2	1,778.7	17.45	102.958	
2,600.0	2,574.9	2,438.0	2,426.3	10.0	9.2	-172.85	-217.9	1,539.7	1,824.1	1,806.1	18.06	100.996	
2,700.0	2,672.8	2,533.1	2,520.4	10.4	9.5	-173.28	-207.9	1,548.6	1,852.2	1,833.5	18.69	99.102	
2,800.0	2,770.7	2,628.1	2,614.5	10.8	9.9	-173.70	-197.9	1,557.6	1,880.4	1,861.1	19.33	97.279	
2,900.0	2,868.6	2,723.1	2,708.5	11.2	10.2	-174.11	-187.9	1,566.5	1,908.7	1,888.7	19.98	95.527	
3,000.0	2,966.6	2,818.1	2,802.6	11.6	10.6	-174.50	-177.9	1,575.5	1,937.0	1,916.4	20.64	93.846	
3,100.0	3,064.5	2,913.2	2,896.7	12.0	10.9	-174.89	-167.9	1,584.4	1,965.5	1,944.2	21.31	92.235	
3,200.0	3,162.4	3,008.2	2,990.8	12.5	11.3	-175.26	-157.9	1,593.4	1,994.0	1,972.0	21.99	90.692	
3,300.0	3,260.3	3,103.2	3,084.9	12.9	11.7	-175.62	-147.8	1,602.3	2,022.6	1,999.9	22.67	89.215	
3,400.0	3,358.2	3,198.3	3,178.9	13.3	12.0	-175.98	-137.8	1,611.3	2,051.3	2,027.9	23.36	87.801	
3,500.0	3,456.2	3,293.3	3,273.0	13.8	12.4	-176.32	-127.8	1,620.2	2,080.0	2,056.0	24.06	86.449	
3,600.0	3,554.1	3,388.3	3,367.1	14.2	12.8	-176.65	-117.8	1,629.2	2,108.8	2,084.1	24.76	85.156	
3,700.0	3,652.0	3,483.4	3,461.2	14.6	13.2	-176.98	-107.8	1,638.1	2,137.7	2,112.2	25.47	83.918	
3,800.0	3,749.9	3,578.4	3,555.2	15.1	13.6	-177.30	-97.8	1,647.1	2,166.7	2,140.5	26.19	82.734	
3,900.0	3,847.9	3,673.4	3,649.3	15.5	13.9	-177.61	-87.8	1,656.0	2,195.7	2,168.8	26.91	81.601	
4,000.0	3,945.8	3,768.5	3,743.4	16.0	14.3	-177.91	-77.8	1,665.0	2,224.7	2,197.1	27.63	80.516	
4,100.0	4,043.7	3,863.5	3,837.5	16.4	14.7	-178.20	-67.8	1,673.9	2,253.8	2,225.5	28.36	79.477	
4,200.0	4,141.6	3,958.5	3,931.6	16.8	15.1	-178.48	-57.8	1,682.9	2,283.0	2,253.9	29.09	78.481	
4,300.0	4,239.6	4,053.6	4,025.6	17.3	15.5	-178.76	-47.8	1,691.8	2,312.2	2,282.4	29.82	77.527	
4,400.0	4,337.5	4,159.5	4,130.5	17.7	15.9	-179.06	-36.7	1,701.7	2,341.4	2,310.8	30.60	76.515	
4,500.0	4,435.4	4,260.5	4,260.6	18.2	16.4	-179.38	-24.7	1,712.5	2,369.6	2,338.1	31.49	75.260	
4,600.0	4,533.3	4,423.1	4,392.5	18.6	16.9	-179.63	-14.8	1,721.3	2,396.3	2,363.9	32.36	74.056	
4,700.0	4,631.2	4,557.2	4,526.1	19.1	17.4	-179.83	-7.1	1,728.2	2,421.5	2,388.3	33.21	72.909	
4,800.0	4,729.2	4,692.5	4,661.3	19.5	17.9	-179.96	-1.7	1,733.0	2,445.3	2,411.2	34.05	71.823	
4,900.0	4,827.1	4,829.0	4,797.7	20.0	18.3	179.97	1.3	1,735.7	2,467.5	2,432.7	34.84	70.821	
5,000.0	4,925.0	4,956.3	4,925.0	20.5	18.5	179.95	2.0	1,736.3	2,488.2	2,452.7	35.52	70.048	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #708H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	103.45	-347.6	1,453.3	1,494.3	1,487.9	6.43	232.435	
100.0	100.0	100.0	100.0	3.2	3.2	103.45	-347.6	1,453.3	1,494.3	1,487.4	6.89	216.805	
200.0	200.0	200.0	200.0	3.5	3.5	103.45	-347.6	1,453.3	1,494.3	1,487.0	7.33	203.912	
300.0	300.0	300.0	300.0	3.7	3.7	103.45	-347.6	1,453.3	1,494.3	1,486.6	7.74	193.029	
400.0	400.0	400.0	400.0	3.9	3.9	103.45	-347.6	1,453.3	1,494.3	1,486.2	8.14	183.676	
500.0	500.0	500.0	500.0	4.1	4.1	103.45	-347.6	1,453.3	1,494.3	1,485.8	8.51	175.520	
600.0	600.0	600.0	600.0	4.2	4.2	103.45	-347.6	1,453.3	1,494.3	1,485.4	8.88	168.322	
700.0	700.0	700.0	700.0	4.4	4.4	103.45	-347.6	1,453.3	1,494.3	1,485.1	9.23	161.906	
800.0	800.0	800.0	800.0	4.6	4.6	103.45	-347.6	1,453.3	1,494.3	1,484.7	9.57	156.136	
900.0	900.0	900.0	900.0	4.8	4.8	103.45	-347.6	1,453.3	1,494.3	1,484.4	9.90	150.910	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	103.45	-347.6	1,453.3	1,494.3	1,484.1	10.22	146.146	CC, ES
1,100.0	1,100.0	1,071.6	1,071.6	5.2	5.1	-166.57	-347.2	1,454.1	1,496.9	1,486.3	10.62	140.940	
1,200.0	1,199.8	1,142.8	1,142.8	5.4	5.3	-166.63	-346.0	1,456.5	1,504.9	1,493.9	11.01	136.688	
1,300.0	1,299.5	1,200.0	1,199.8	5.7	5.4	-166.70	-344.4	1,459.5	1,518.2	1,506.8	11.38	133.414	
1,400.0	1,398.7	1,282.9	1,282.5	6.0	5.7	-166.87	-341.2	1,465.7	1,536.5	1,524.7	11.83	129.848	
1,500.0	1,497.5	1,351.2	1,350.3	6.3	5.9	-167.04	-337.8	1,472.4	1,560.1	1,547.8	12.27	127.127	
1,600.0	1,595.6	1,417.9	1,416.4	6.6	6.1	-167.25	-333.7	1,480.4	1,588.8	1,576.1	12.67	125.434	
1,700.0	1,693.6	1,483.2	1,480.9	6.9	6.3	-167.60	-329.0	1,489.5	1,620.4	1,607.3	13.10	123.691	
1,800.0	1,791.5	1,561.5	1,558.0	7.2	6.5	-168.05	-322.7	1,501.8	1,653.6	1,640.1	13.53	122.254	
1,900.0	1,889.4	1,654.6	1,649.6	7.5	6.7	-168.56	-315.1	1,516.7	1,687.2	1,673.1	14.04	120.209	
2,000.0	1,987.3	1,747.7	1,741.1	7.8	7.0	-169.06	-307.4	1,531.5	1,720.9	1,706.3	14.57	118.077	
2,100.0	2,085.2	1,840.8	1,832.7	8.1	7.2	-169.54	-299.8	1,546.4	1,754.7	1,739.5	15.14	115.900	
2,200.0	2,183.2	1,933.9	1,924.3	8.5	7.5	-170.00	-292.2	1,561.2	1,788.6	1,772.8	15.73	113.712	
2,300.0	2,281.1	2,027.0	2,015.9	8.9	7.8	-170.44	-284.6	1,576.1	1,822.6	1,806.2	16.34	111.540	
2,400.0	2,379.0	2,120.1	2,107.5	9.2	8.2	-170.87	-276.9	1,591.0	1,856.7	1,839.7	16.97	109.403	
2,500.0	2,476.9	2,213.2	2,199.1	9.6	8.5	-171.28	-269.3	1,605.8	1,890.9	1,873.2	17.62	107.317	
2,600.0	2,574.9	2,306.3	2,290.7	10.0	8.8	-171.68	-261.7	1,620.7	1,925.1	1,906.9	18.28	105.292	
2,700.0	2,672.8	2,399.4	2,382.3	10.4	9.2	-172.06	-254.1	1,635.5	1,959.5	1,940.5	18.96	103.334	
2,800.0	2,770.7	2,492.5	2,473.8	10.8	9.5	-172.43	-246.4	1,650.4	1,993.9	1,974.3	19.65	101.447	
2,900.0	2,868.6	2,585.6	2,565.4	11.2	9.9	-172.79	-238.8	1,665.3	2,028.4	2,008.1	20.36	99.634	
3,000.0	2,966.6	2,678.7	2,657.0	11.6	10.2	-173.14	-231.2	1,680.1	2,063.0	2,041.9	21.07	97.897	
3,100.0	3,064.5	2,771.8	2,748.6	12.0	10.6	-173.48	-223.5	1,695.0	2,097.7	2,075.9	21.80	96.233	
3,200.0	3,162.4	2,864.9	2,840.2	12.5	11.0	-173.80	-215.9	1,709.8	2,132.4	2,109.8	22.53	94.642	
3,300.0	3,260.3	2,958.0	2,931.8	12.9	11.4	-174.12	-208.3	1,724.7	2,167.1	2,143.9	23.27	93.122	
3,400.0	3,358.2	3,051.1	3,023.4	13.3	11.7	-174.42	-200.7	1,739.6	2,201.9	2,177.9	24.02	91.669	
3,500.0	3,456.2	3,144.2	3,115.0	13.8	12.1	-174.72	-193.0	1,754.4	2,236.8	2,212.0	24.78	90.282	
3,600.0	3,554.1	3,237.3	3,206.5	14.2	12.5	-175.00	-185.4	1,769.3	2,271.7	2,246.2	25.54	88.958	
3,700.0	3,652.0	3,330.4	3,298.1	14.6	12.9	-175.28	-177.8	1,784.1	2,306.7	2,280.4	26.30	87.693	
3,800.0	3,749.9	3,423.5	3,389.7	15.1	13.3	-175.55	-170.1	1,799.0	2,341.7	2,314.7	27.08	86.485	
3,900.0	3,847.9	3,516.6	3,481.3	15.5	13.7	-175.81	-162.5	1,813.8	2,376.8	2,348.9	27.85	85.330	
4,000.0	3,945.8	3,609.7	3,572.9	16.0	14.1	-176.07	-154.9	1,828.7	2,411.9	2,383.3	28.64	84.227	
4,100.0	4,043.7	3,702.8	3,664.5	16.4	14.5	-176.31	-147.3	1,843.6	2,447.0	2,417.6	29.42	83.172	
4,200.0	4,141.6	3,795.9	3,756.1	16.8	14.9	-176.55	-139.6	1,858.4	2,482.2	2,452.0	30.21	82.163	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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Offset Design: ZIA HILLS UNIT 2531 PROJECT - *ZIA HILLS UNIT 2531 WC #709H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	103.17	-347.2	1,483.3	1,523.4	1,517.0	6.43	236.961	
100.0	100.0	100.0	100.0	3.2	3.2	103.17	-347.2	1,483.3	1,523.4	1,516.5	6.89	221.027	
200.0	200.0	200.0	200.0	3.5	3.5	103.17	-347.2	1,483.3	1,523.4	1,516.1	7.33	207.882	
300.0	300.0	300.0	300.0	3.7	3.7	103.17	-347.2	1,483.3	1,523.4	1,515.7	7.74	196.787	
400.0	400.0	400.0	400.0	3.9	3.9	103.17	-347.2	1,483.3	1,523.4	1,515.3	8.14	187.252	
500.0	500.0	500.0	500.0	4.1	4.1	103.17	-347.2	1,483.3	1,523.4	1,514.9	8.51	178.938	
600.0	600.0	600.0	600.0	4.2	4.2	103.17	-347.2	1,483.3	1,523.4	1,514.5	8.88	171.600	
700.0	700.0	700.0	700.0	4.4	4.4	103.17	-347.2	1,483.3	1,523.4	1,514.2	9.23	165.058	
800.0	800.0	800.0	800.0	4.6	4.6	103.17	-347.2	1,483.3	1,523.4	1,513.8	9.57	159.176	
900.0	900.0	900.0	900.0	4.8	4.8	103.17	-347.2	1,483.3	1,523.4	1,513.5	9.90	153.849	
1,000.0	1,000.0	1,000.0	1,000.0	4.9	4.9	103.17	-347.2	1,483.3	1,523.4	1,513.2	10.22	148.992 CC, ES	
1,100.0	1,100.0	1,068.9	1,068.9	5.2	5.1	-166.84	-346.9	1,484.1	1,526.1	1,515.5	10.62	143.654	
1,200.0	1,199.8	1,137.4	1,137.4	5.4	5.3	-166.88	-346.1	1,486.4	1,534.3	1,523.2	11.02	139.281	
1,300.0	1,299.5	1,200.0	1,199.8	5.7	5.4	-166.94	-344.9	1,489.9	1,547.8	1,536.4	11.41	135.698	
1,400.0	1,398.7	1,272.3	1,271.9	6.0	5.6	-167.04	-343.0	1,495.5	1,566.7	1,554.9	11.84	132.283	
1,500.0	1,497.5	1,338.0	1,337.2	6.3	5.8	-167.16	-340.7	1,502.1	1,590.9	1,578.6	12.28	129.516	
1,600.0	1,595.6	1,400.0	1,398.7	6.6	6.0	-167.29	-338.2	1,509.7	1,620.2	1,607.5	12.67	127.874	
1,700.0	1,693.6	1,465.1	1,463.1	6.9	6.2	-167.59	-335.0	1,519.0	1,652.6	1,639.5	13.11	126.031	
1,800.0	1,791.5	1,527.0	1,524.1	7.2	6.4	-167.88	-331.5	1,529.1	1,686.8	1,673.3	13.53	124.650	
1,900.0	1,889.4	1,602.4	1,598.0	7.5	6.7	-168.26	-326.8	1,543.0	1,723.0	1,708.9	14.03	122.804	
2,000.0	1,987.3	1,672.1	1,666.1	7.8	6.8	-168.62	-322.1	1,556.8	1,760.2	1,745.7	14.48	121.529	
2,100.0	2,085.2	1,763.9	1,755.9	8.1	7.1	-169.07	-315.9	1,574.9	1,797.7	1,782.7	15.05	119.475	
2,200.0	2,183.2	1,855.6	1,845.6	8.5	7.4	-169.51	-309.7	1,593.0	1,835.3	1,819.7	15.64	117.366	
2,300.0	2,281.1	1,947.4	1,935.3	8.9	7.7	-169.92	-303.5	1,611.2	1,873.0	1,856.8	16.25	115.246	
2,400.0	2,379.0	2,039.1	2,025.1	9.2	8.0	-170.33	-297.3	1,629.3	1,910.8	1,893.9	16.89	113.140	
2,500.0	2,476.9	2,130.9	2,114.8	9.6	8.3	-170.71	-291.1	1,647.4	1,948.6	1,931.1	17.54	111.069	
2,600.0	2,574.9	2,222.7	2,204.6	10.0	8.6	-171.08	-284.9	1,665.5	1,986.6	1,968.3	18.22	109.046	
2,700.0	2,672.8	2,314.4	2,294.3	10.4	9.0	-171.44	-278.7	1,683.7	2,024.6	2,005.6	18.91	107.083	
2,800.0	2,770.7	2,406.2	2,384.0	10.8	9.3	-171.79	-272.5	1,701.8	2,062.6	2,043.0	19.61	105.186	
2,900.0	2,868.6	2,497.9	2,473.8	11.2	9.7	-172.12	-266.3	1,719.9	2,100.7	2,080.4	20.32	103.358	
3,000.0	2,966.6	2,589.7	2,563.5	11.6	10.0	-172.44	-260.1	1,738.0	2,138.9	2,117.9	21.05	101.601	
3,100.0	3,064.5	2,681.5	2,653.3	12.0	10.4	-172.75	-253.9	1,756.2	2,177.2	2,155.4	21.79	99.916	
3,200.0	3,162.4	2,773.2	2,743.0	12.5	10.8	-173.05	-247.7	1,774.3	2,215.4	2,192.9	22.54	98.303	
3,300.0	3,260.3	2,865.0	2,832.7	12.9	11.2	-173.34	-241.5	1,792.4	2,253.8	2,230.5	23.29	96.761	
3,400.0	3,358.2	2,956.7	2,922.5	13.3	11.5	-173.62	-235.3	1,810.5	2,292.2	2,268.1	24.06	95.287	
3,500.0	3,456.2	3,048.5	3,012.2	13.8	11.9	-173.89	-229.1	1,828.7	2,330.6	2,305.8	24.83	93.878	
3,600.0	3,554.1	3,140.3	3,102.0	14.2	12.3	-174.15	-222.9	1,846.8	2,369.1	2,343.5	25.60	92.533	
3,700.0	3,652.0	3,232.0	3,191.7	14.6	12.7	-174.40	-216.7	1,864.9	2,407.6	2,381.2	26.39	91.248	
3,800.0	3,749.9	3,323.8	3,281.4	15.1	13.1	-174.65	-210.5	1,883.0	2,446.2	2,419.0	27.17	90.021	
3,900.0	3,847.9	3,415.6	3,371.2	15.5	13.5	-174.89	-204.3	1,901.1	2,484.8	2,456.8	27.97	88.848 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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	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)				
7,200.0	7,097.5	14,160.0	9,502.6	29.1	79.2	163.34	-586.3	-884.6	2,481.7	2,420.6	61.07	40.640		
7,300.0	7,197.5	14,160.0	9,502.6	29.1	79.2	163.34	-586.3	-884.6	2,384.9	2,324.0	60.93	39.140		
7,400.0	7,297.5	14,160.0	9,502.6	29.2	79.2	163.34	-586.3	-884.6	2,288.4	2,227.6	60.78	37.651		
7,500.0	7,397.5	14,160.0	9,502.6	29.2	79.2	163.34	-586.3	-884.6	2,192.2	2,131.6	60.61	36.171		
7,600.0	7,497.5	14,160.0	9,502.6	29.2	79.2	163.34	-586.3	-884.6	2,096.4	2,036.0	60.41	34.703		
7,700.0	7,597.5	14,160.0	9,502.6	29.2	79.2	163.34	-586.3	-884.6	2,001.0	1,940.8	60.18	33.249		
7,800.0	7,697.5	14,160.0	9,502.6	29.3	79.2	163.34	-586.3	-884.6	1,906.0	1,846.1	59.92	31.809		
7,900.0	7,797.5	14,160.0	9,502.6	29.3	79.2	163.34	-586.3	-884.6	1,811.6	1,752.0	59.62	30.386		
8,000.0	7,897.5	14,160.0	9,502.6	29.3	79.2	163.34	-586.3	-884.6	1,717.8	1,658.5	59.27	28.983		
8,100.0	7,997.5	14,160.0	9,502.6	29.4	79.2	163.34	-586.3	-884.6	1,624.7	1,565.9	58.86	27.602		
8,200.0	8,097.5	14,160.0	9,502.6	29.4	79.2	163.34	-586.3	-884.6	1,532.6	1,474.2	58.39	26.248		
8,300.0	8,197.5	14,160.0	9,502.6	29.4	79.2	163.34	-586.3	-884.6	1,441.4	1,383.6	57.83	24.924		
8,400.0	8,297.5	14,160.0	9,502.6	29.5	79.2	163.34	-586.3	-884.6	1,351.6	1,294.4	57.18	23.637		
8,500.0	8,397.5	14,160.0	9,502.6	29.5	79.2	163.34	-586.3	-884.6	1,263.2	1,206.8	56.41	22.393		
8,600.0	8,497.5	14,160.0	9,502.6	29.5	79.2	163.34	-586.3	-884.6	1,176.7	1,121.2	55.50	21.201		
8,700.0	8,597.5	14,160.0	9,502.6	29.5	79.2	163.34	-586.3	-884.6	1,092.6	1,038.1	54.43	20.072		
8,800.0	8,697.5	14,160.0	9,502.6	29.6	79.2	163.34	-586.3	-884.6	1,011.3	958.1	53.17	19.019		
8,900.0	8,797.5	14,160.0	9,502.6	29.6	79.2	163.34	-586.3	-884.6	933.6	881.9	51.71	18.055		
9,000.0	8,897.5	14,160.0	9,502.6	29.6	79.2	163.34	-586.3	-884.6	860.6	810.5	50.05	17.194		
9,100.0	8,997.5	14,160.0	9,502.6	29.7	79.2	163.34	-586.3	-884.6	793.5	745.2	48.26	16.442		
9,200.0	9,097.5	14,160.0	9,502.6	29.7	79.2	163.34	-586.3	-884.6	733.9	687.4	46.50	15.783		
9,300.0	9,197.5	14,160.0	9,502.6	29.7	79.2	163.34	-586.3	-884.6	683.8	638.7	45.09	15.164		
9,400.0	9,297.5	14,160.0	9,502.6	29.8	79.2	163.34	-586.3	-884.6	645.4	600.9	44.53	14.493		
9,500.0	9,397.5	14,160.0	9,502.6	29.8	79.2	163.34	-586.3	-884.6	620.9	575.6	45.32	13.701		
9,600.0	9,497.5	14,160.0	9,502.6	29.8	79.2	163.34	-586.3	-884.6	612.0	564.4	47.61	12.855		
9,605.1	9,502.6	14,160.0	9,502.6	29.8	79.2	163.34	-586.3	-884.6	612.0	564.2	47.76	12.814	CC, ES	
9,700.0	9,597.5	14,160.0	9,502.6	29.9	79.2	163.34	-586.3	-884.6	619.3	568.3	51.02	12.138		
9,800.0	9,697.5	14,160.0	9,502.6	29.9	79.2	163.34	-586.3	-884.6	642.3	587.4	54.86	11.707		
9,900.0	9,797.5	14,160.0	9,502.6	29.9	79.2	163.34	-586.3	-884.6	679.3	620.8	58.51	11.611	SF	
10,000.0	9,897.5	14,160.0	9,502.6	30.0	79.2	163.34	-586.3	-884.6	728.3	666.7	61.62	11.820		
10,100.0	9,997.5	14,160.0	9,502.6	30.0	79.2	163.34	-586.3	-884.6	787.1	722.9	64.12	12.275		
10,200.0	10,097.5	14,160.0	9,502.6	30.0	79.2	163.34	-586.3	-884.6	853.5	787.4	66.05	12.921		
10,300.0	10,197.5	14,160.0	9,502.6	30.1	79.2	163.34	-586.3	-884.6	926.0	858.4	67.54	13.710		
10,400.0	10,297.5	14,160.0	9,502.6	30.1	79.2	163.34	-586.3	-884.6	1,003.2	934.5	68.67	14.608		
10,500.0	10,397.5	14,160.0	9,502.6	30.1	79.2	163.34	-586.3	-884.6	1,084.2	1,014.6	69.56	15.587		
10,600.0	10,497.5	14,160.0	9,502.6	30.2	79.2	163.34	-586.3	-884.6	1,168.1	1,097.8	70.25	16.628		
10,700.0	10,597.5	14,160.0	9,502.6	30.2	79.2	163.34	-586.3	-884.6	1,254.3	1,183.5	70.80	17.716		
10,800.0	10,697.5	14,160.0	9,502.6	30.2	79.2	163.34	-586.3	-884.6	1,342.5	1,271.3	71.26	18.839		
10,900.0	10,797.5	14,160.0	9,502.6	30.3	79.2	163.34	-586.3	-884.6	1,432.2	1,360.6	71.65	19.990		
11,000.0	10,897.5	14,160.0	9,502.6	30.3	79.2	163.34	-586.3	-884.6	1,523.3	1,451.3	71.98	21.162		
11,100.0	10,997.5	14,160.0	9,502.6	30.3	79.2	163.34	-586.3	-884.6	1,615.3	1,543.1	72.28	22.349		
11,200.0	11,097.5	14,160.0	9,502.6	30.4	79.2	163.34	-586.3	-884.6	1,708.3	1,635.7	72.55	23.547		
11,300.0	11,197.5	14,160.0	9,502.6	30.4	79.2	163.34	-586.3	-884.6	1,802.0	1,729.2	72.80	24.753		
11,400.0	11,297.5	14,160.0	9,502.6	30.4	79.2	163.34	-586.3	-884.6	1,896.4	1,823.3	73.04	25.964		
11,500.0	11,397.4	14,160.0	9,502.6	30.5	79.2	-12.22	-586.3	-884.6	1,990.2	1,917.0	73.27	27.163		
11,600.0	11,494.8	14,160.0	9,502.6	30.4	79.2	-8.41	-586.3	-884.6	2,077.2	2,003.7	73.49	28.265		
11,700.0	11,585.6	14,160.0	9,502.6	30.4	79.2	-6.53	-586.3	-884.6	2,154.0	2,080.3	73.67	29.238		
11,800.0	11,665.7	14,160.0	9,502.6	30.5	79.2	-5.47	-586.3	-884.6	2,218.4	2,144.6	73.78	30.067		
11,900.0	11,731.7	14,160.0	9,502.6	30.5	79.2	-4.84	-586.3	-884.6	2,268.9	2,195.1	73.80	30.744		
12,000.0	11,780.7	14,160.0	9,502.6	30.5	79.2	-4.47	-586.3	-884.6	2,304.1	2,230.4	73.71	31.260		
12,100.0	11,810.6	14,160.0	9,502.6	30.6	79.2	-4.29	-586.3	-884.6	2,323.4	2,249.9	73.50	31.609		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Reference Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	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)				
12,200.0	11,820.0	14,160.0	9,502.6	30.7	79.2	-4.26	-586.3	-884.6	2,326.1	2,252.9	73.18	31.785		
12,300.0	11,820.0	14,132.6	9,503.0	30.9	78.8	-4.28	-613.7	-883.8	2,323.6	2,250.9	72.69	31.967		
12,400.0	11,820.0	14,044.8	9,504.3	31.0	77.4	-4.34	-701.5	-881.1	2,322.4	2,250.4	72.01	32.250		
12,476.8	11,820.0	13,996.8	9,504.7	31.2	76.6	-4.37	-749.8	-879.6	2,322.0	2,250.5	71.56	32.449		
12,500.0	11,820.0	13,965.8	9,504.7	31.2	76.1	-4.40	-780.3	-878.5	2,322.1	2,250.7	71.38	32.531		
12,600.0	11,820.0	13,860.4	9,505.4	31.5	74.4	-4.48	-885.8	-874.8	2,321.7	2,251.0	70.70	32.838		
12,611.6	11,820.0	13,852.8	9,505.4	31.5	74.2	-4.48	-893.3	-874.5	2,321.7	2,251.0	70.64	32.868		
12,700.0	11,820.0	13,792.0	9,505.1	31.7	73.3	-4.52	-954.1	-872.7	2,322.3	2,252.1	70.14	33.107		
12,800.0	11,820.0	13,718.5	9,503.8	32.0	72.1	-4.56	-1,027.6	-870.7	2,324.1	2,254.5	69.60	33.393		
12,900.0	11,820.0	13,508.0	9,502.5	32.3	68.7	-4.59	-1,238.0	-868.3	2,325.6	2,256.9	68.71	33.846		
13,000.0	11,820.0	13,449.8	9,503.4	32.7	67.7	-4.59	-1,296.2	-868.2	2,324.1	2,255.8	68.29	34.031		
13,024.0	11,820.0	13,436.1	9,503.5	32.8	67.5	-4.59	-1,309.9	-868.2	2,324.0	2,255.8	68.20	34.078		
13,100.0	11,820.0	13,346.1	9,503.5	33.0	66.1	-4.59	-1,399.9	-867.9	2,324.0	2,256.2	67.77	34.293		
13,182.5	11,820.0	13,281.9	9,503.9	33.4	65.0	-4.56	-1,464.1	-868.6	2,323.4	2,256.0	67.42	34.460		
13,200.0	11,820.0	13,272.5	9,503.9	33.4	64.9	-4.56	-1,473.4	-868.8	2,323.4	2,256.1	67.36	34.492		
13,300.0	11,820.0	13,172.2	9,502.4	33.8	63.3	-4.50	-1,573.8	-870.7	2,324.7	2,257.8	66.91	34.743		
13,379.9	11,820.0	13,084.4	9,502.9	34.2	61.9	-4.48	-1,661.6	-871.1	2,324.2	2,257.7	66.55	34.922		
13,400.0	11,820.0	13,072.2	9,502.8	34.3	61.7	-4.47	-1,673.7	-871.2	2,324.2	2,257.8	66.49	34.954		
13,500.0	11,820.0	12,978.3	9,501.8	34.7	60.2	-4.42	-1,767.7	-872.8	2,325.2	2,259.0	66.14	35.154		
13,600.0	11,820.0	12,890.2	9,501.1	35.2	58.8	-4.34	-1,855.6	-875.7	2,325.7	2,259.8	65.85	35.320		
13,700.0	11,820.0	12,798.5	9,499.1	35.7	57.3	-4.25	-1,947.3	-878.6	2,327.6	2,262.0	65.57	35.497		
13,800.0	11,820.0	12,620.0	9,498.3	36.2	54.5	-4.09	-2,125.7	-884.3	2,328.0	2,262.9	65.12	35.749		
13,900.0	11,820.0	12,559.6	9,498.9	36.8	53.5	-4.04	-2,186.0	-886.4	2,326.9	2,261.8	65.02	35.787		
14,000.0	11,820.0	12,405.5	9,499.8	37.3	51.1	-3.92	-2,340.1	-890.5	2,326.3	2,261.6	64.69	35.964		
14,100.0	11,820.0	12,318.9	9,501.7	37.9	49.7	-3.88	-2,426.7	-891.7	2,324.0	2,259.4	64.59	35.981		
14,200.0	11,820.0	12,247.2	9,502.6	38.5	48.6	-3.84	-2,498.3	-893.3	2,322.6	2,258.1	64.58	35.967		
14,300.0	11,820.0	12,146.0	9,503.5	39.1	47.0	-3.77	-2,599.5	-895.5	2,321.5	2,257.0	64.52	35.980		
14,377.4	11,820.0	12,086.2	9,503.9	39.6	46.1	-3.75	-2,659.3	-896.5	2,321.0	2,256.5	64.55	35.957		
14,400.0	11,820.0	12,072.0	9,503.9	39.7	45.9	-3.74	-2,673.5	-896.8	2,321.1	2,256.5	64.57	35.948		
14,500.0	11,820.0	11,998.7	9,503.0	40.3	44.7	-3.69	-2,746.7	-898.2	2,322.1	2,257.4	64.65	35.917		
14,600.0	11,820.0	11,840.3	9,502.1	41.0	42.3	-3.66	-2,905.2	-898.7	2,322.7	2,258.1	64.54	35.990		
14,679.0	11,820.0	11,784.6	9,502.4	41.5	41.4	-3.65	-2,960.8	-898.7	2,322.3	2,257.6	64.66	35.914		
14,700.0	11,820.0	11,773.5	9,502.4	41.6	41.2	-3.65	-2,971.9	-898.8	2,322.3	2,257.6	64.71	35.889		
14,800.0	11,820.0	11,605.9	9,504.5	42.3	38.7	-3.61	-3,139.6	-900.0	2,320.8	2,256.2	64.65	35.897		
14,900.0	11,820.0	11,545.9	9,505.8	43.0	37.8	-3.62	-3,199.5	-899.3	2,318.9	2,254.0	64.90	35.728		
14,930.4	11,820.0	11,533.2	9,505.8	43.2	37.6	-3.62	-3,212.2	-899.1	2,318.8	2,253.8	65.00	35.674		
15,000.0	11,820.0	11,484.0	9,505.2	43.7	36.8	-3.65	-3,261.4	-897.9	2,319.6	2,254.4	65.15	35.602		
15,100.0	11,820.0	11,413.7	9,503.4	44.4	35.7	-3.67	-3,331.6	-896.6	2,321.8	2,256.4	65.44	35.481		
15,200.0	11,820.0	11,315.6	9,501.4	45.1	34.3	-3.67	-3,429.7	-896.0	2,323.9	2,258.2	65.70	35.370		
15,300.0	11,820.0	11,209.1	9,499.2	45.8	32.7	-3.68	-3,536.1	-894.8	2,326.1	2,260.1	65.98	35.255		
15,400.0	11,820.0	11,105.0	9,497.3	46.5	31.2	-3.64	-3,640.2	-896.1	2,327.7	2,261.4	66.32	35.097		
15,500.0	11,820.0	11,023.4	9,495.5	47.2	30.0	-3.56	-3,721.7	-898.5	2,329.7	2,263.0	66.76	34.897		
15,600.0	11,820.0	10,943.8	9,493.0	48.0	28.9	-3.51	-3,801.3	-900.2	2,332.7	2,265.5	67.22	34.703		
15,700.0	11,820.0	10,761.1	9,491.0	48.7	26.3	-3.40	-3,984.0	-903.6	2,333.1	2,265.6	67.50	34.562		
15,706.3	11,820.0	10,756.9	9,491.0	48.8	26.3	-3.40	-3,988.1	-903.7	2,333.1	2,265.5	67.54	34.544		
15,800.0	11,820.0	10,684.1	9,490.4	49.5	25.3	-3.34	-4,060.9	-905.8	2,333.6	2,265.5	68.06	34.289		
15,900.0	11,820.0	10,512.7	9,490.7	50.3	23.2	-3.16	-4,232.2	-912.5	2,333.4	2,264.9	68.46	34.086		
16,000.0	11,820.0	10,442.0	9,491.6	51.0	22.3	-3.08	-4,302.8	-915.6	2,331.9	2,262.7	69.11	33.739		
16,070.2	11,820.0	10,392.6	9,491.7	51.6	21.8	-3.02	-4,352.1	-917.6	2,331.5	2,261.9	69.59	33.505		
16,100.0	11,820.0	10,372.1	9,491.6	51.8	21.5	-3.00	-4,372.7	-918.2	2,331.6	2,261.8	69.79	33.409		
16,200.0	11,820.0	10,237.8	9,491.6	52.6	20.2	-2.89	-4,506.9	-922.2	2,331.5	2,261.2	70.36	33.137		

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 #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,300.0	11,820.0	10,157.0	9,491.9	53.4	19.4	-2.82	-4,587.6	-924.7	2,330.9	2,259.8	71.07	32.797	
16,317.9	11,820.0	10,144.8	9,491.9	53.5	19.4	-2.81	-4,599.9	-925.1	2,330.9	2,259.7	71.21	32.735	
16,400.0	11,820.0	10,083.2	9,491.5	54.2	18.9	-2.75	-4,661.4	-927.4	2,331.2	2,259.4	71.82	32.459	
16,500.0	11,820.0	10,000.0	9,490.4	55.0	18.4	-2.66	-4,744.5	-930.6	2,332.4	2,259.8	72.58	32.135	
16,600.0	11,820.0	9,936.0	9,488.9	55.8	18.1	-2.61	-4,808.5	-932.2	2,334.7	2,261.3	73.37	31.820	
16,700.0	11,820.0	9,905.0	9,487.3	56.6	18.0	-2.59	-4,839.4	-932.9	2,339.4	2,265.2	74.18	31.536	
16,800.0	11,820.0	9,873.0	9,484.8	57.4	17.9	-2.56	-4,871.3	-933.7	2,347.0	2,272.0	74.96	31.309	
16,900.0	11,820.0	9,842.0	9,481.3	58.2	17.8	-2.54	-4,902.1	-934.1	2,357.7	2,282.0	75.70	31.144	
17,000.0	11,820.0	9,826.3	9,479.1	59.1	17.8	-2.54	-4,917.7	-934.2	2,371.4	2,295.0	76.37	31.051	
17,100.0	11,820.0	9,810.0	9,476.4	59.9	17.7	-2.53	-4,933.7	-934.4	2,388.4	2,311.4	76.98	31.026	
17,200.0	11,820.0	9,779.0	9,470.0	60.7	17.7	-2.51	-4,964.1	-934.7	2,408.5	2,331.0	77.58	31.046	
17,300.0	11,820.0	9,764.7	9,466.6	61.5	17.7	-2.50	-4,977.9	-934.9	2,431.8	2,353.8	78.07	31.150	
17,400.0	11,820.0	9,748.0	9,462.3	62.4	17.6	-2.48	-4,994.1	-935.3	2,458.2	2,379.7	78.51	31.310	
17,500.0	11,820.0	9,717.0	9,453.2	63.2	17.6	-2.45	-5,023.7	-936.2	2,487.3	2,408.3	78.99	31.489	

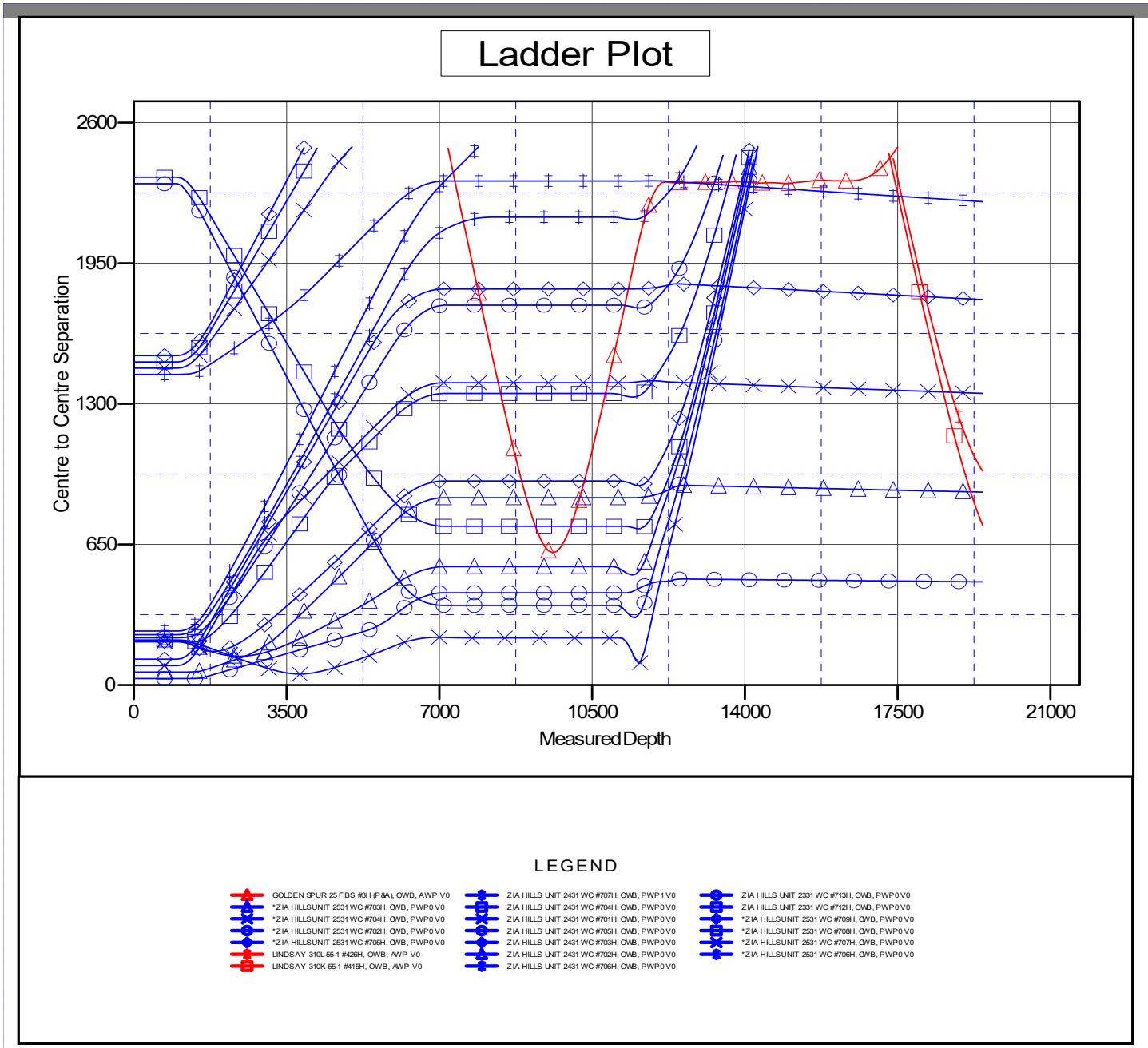
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	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 #701H - Slot ZHU 2531 W
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.32°

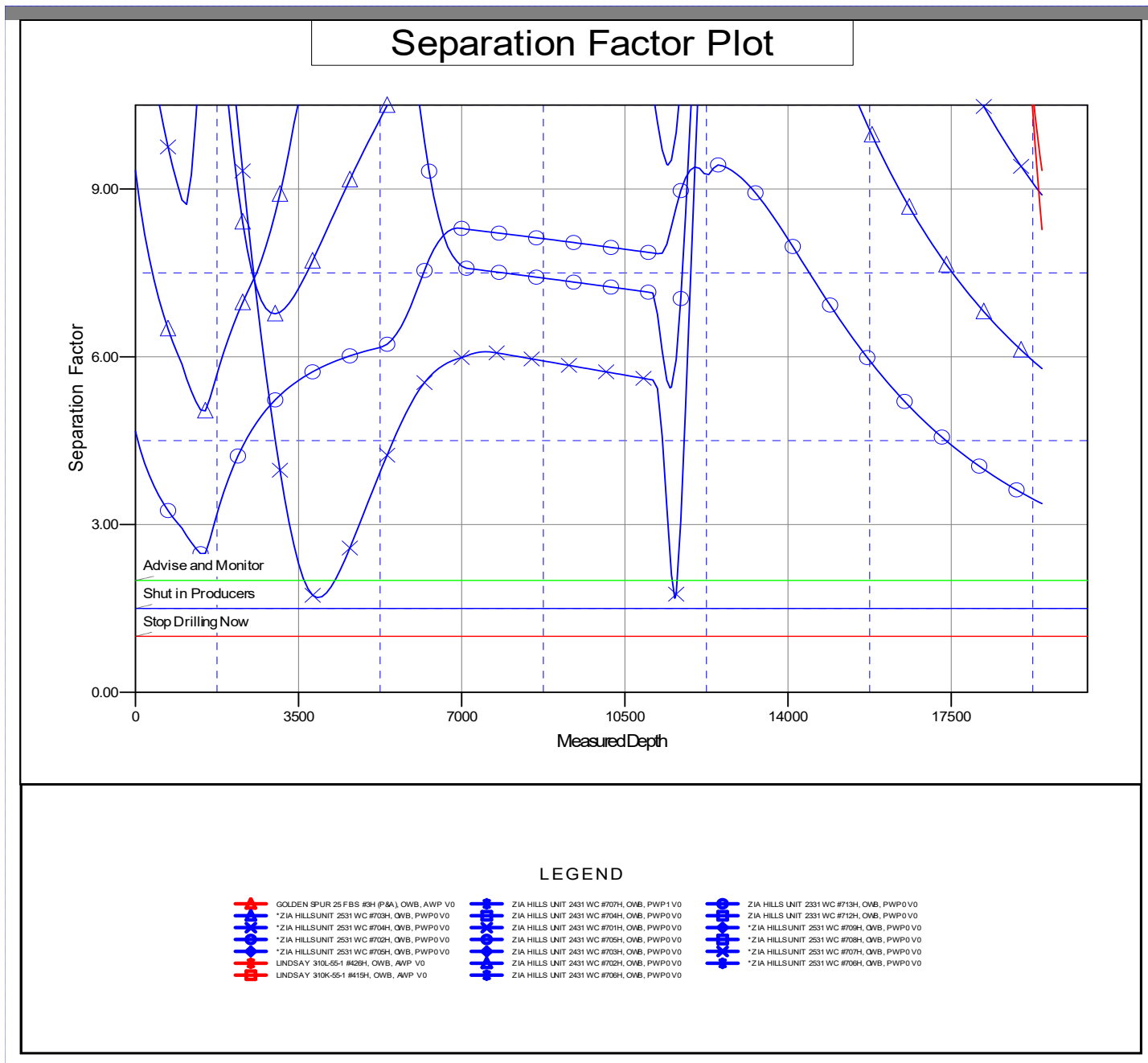


CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Central Planning Prod
Reference Design:	PWP0	Offset TVD Reference:	Reference Datum

Reference Depths are relative to WELL @ 3200.0usft (Original Well Ele) Coordinates are relative to: *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 W
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Central Meridian is 104° 20' 0.000 W Grid Convergence at Surface is: 0.32°



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 #701H - Slot ZHU 2531 WC #701H**

OWB

Plan: PWP0

Standard Planning Report

10 August, 2023

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	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	47,302.53797753

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	187.55

Plan Survey Tool Program	Date	8/10/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,448.2 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	
1,584.9	11.70	270.00	1,580.8	0.0	-59.5	2.00	2.00	0.00	270.00	
5,932.7	11.70	270.00	5,838.3	0.0	-941.0	0.00	0.00	0.00	0.00	
7,102.5	0.00	0.00	7,000.0	0.0	-1,060.0	1.00	-1.00	0.00	180.00	
11,445.0	0.00	0.00	11,342.5	0.0	-1,060.0	0.00	0.00	0.00	0.00	
12,195.0	90.00	179.74	11,820.0	-477.5	-1,057.9	12.00	12.00	23.97	179.74	
19,448.4	90.00	179.74	11,820.0	-7,730.8	-1,025.3	0.00	0.00	0.00	0.00	

ConocoPhillips Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	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	270.00	1,100.0	0.0	-1.7	0.2	2.00	2.00	0.00	
1,200.0	4.00	270.00	1,199.8	0.0	-7.0	0.9	2.00	2.00	0.00	
1,300.0	6.00	270.00	1,299.5	0.0	-15.7	2.1	2.00	2.00	0.00	
1,400.0	8.00	270.00	1,398.7	0.0	-27.9	3.7	2.00	2.00	0.00	
1,500.0	10.00	270.00	1,497.5	0.0	-43.5	5.7	2.00	2.00	0.00	
1,584.9	11.70	270.00	1,580.8	0.0	-59.5	7.8	2.00	2.00	0.00	
1,600.0	11.70	270.00	1,595.6	0.0	-62.6	8.2	0.00	0.00	0.00	
1,700.0	11.70	270.00	1,693.6	0.0	-82.8	10.9	0.00	0.00	0.00	
1,800.0	11.70	270.00	1,791.5	0.0	-103.1	13.6	0.00	0.00	0.00	
1,900.0	11.70	270.00	1,889.4	0.0	-123.4	16.2	0.00	0.00	0.00	
2,000.0	11.70	270.00	1,987.3	0.0	-143.7	18.9	0.00	0.00	0.00	
2,100.0	11.70	270.00	2,085.2	0.0	-163.9	21.6	0.00	0.00	0.00	
2,200.0	11.70	270.00	2,183.2	0.0	-184.2	24.2	0.00	0.00	0.00	
2,300.0	11.70	270.00	2,281.1	0.0	-204.5	26.9	0.00	0.00	0.00	
2,400.0	11.70	270.00	2,379.0	0.0	-224.8	29.6	0.00	0.00	0.00	
2,500.0	11.70	270.00	2,476.9	0.0	-245.0	32.2	0.00	0.00	0.00	
2,600.0	11.70	270.00	2,574.9	0.0	-265.3	34.9	0.00	0.00	0.00	
2,700.0	11.70	270.00	2,672.8	0.0	-285.6	37.5	0.00	0.00	0.00	
2,800.0	11.70	270.00	2,770.7	0.0	-305.9	40.2	0.00	0.00	0.00	
2,900.0	11.70	270.00	2,868.6	0.0	-326.1	42.9	0.00	0.00	0.00	
3,000.0	11.70	270.00	2,966.6	0.0	-346.4	45.5	0.00	0.00	0.00	
3,100.0	11.70	270.00	3,064.5	0.0	-366.7	48.2	0.00	0.00	0.00	
3,200.0	11.70	270.00	3,162.4	0.0	-387.0	50.9	0.00	0.00	0.00	
3,300.0	11.70	270.00	3,260.3	0.0	-407.2	53.5	0.00	0.00	0.00	
3,400.0	11.70	270.00	3,358.2	0.0	-427.5	56.2	0.00	0.00	0.00	
3,500.0	11.70	270.00	3,456.2	0.0	-447.8	58.9	0.00	0.00	0.00	
3,600.0	11.70	270.00	3,554.1	0.0	-468.1	61.5	0.00	0.00	0.00	
3,700.0	11.70	270.00	3,652.0	0.0	-488.3	64.2	0.00	0.00	0.00	
3,800.0	11.70	270.00	3,749.9	0.0	-508.6	66.9	0.00	0.00	0.00	
3,900.0	11.70	270.00	3,847.9	0.0	-528.9	69.5	0.00	0.00	0.00	
4,000.0	11.70	270.00	3,945.8	0.0	-549.2	72.2	0.00	0.00	0.00	
4,100.0	11.70	270.00	4,043.7	0.0	-569.4	74.9	0.00	0.00	0.00	
4,200.0	11.70	270.00	4,141.6	0.0	-589.7	77.5	0.00	0.00	0.00	
4,300.0	11.70	270.00	4,239.6	0.0	-610.0	80.2	0.00	0.00	0.00	
4,400.0	11.70	270.00	4,337.5	0.0	-630.3	82.9	0.00	0.00	0.00	
4,500.0	11.70	270.00	4,435.4	0.0	-650.5	85.5	0.00	0.00	0.00	
4,600.0	11.70	270.00	4,533.3	0.0	-670.8	88.2	0.00	0.00	0.00	
4,700.0	11.70	270.00	4,631.2	0.0	-691.1	90.9	0.00	0.00	0.00	
4,800.0	11.70	270.00	4,729.2	0.0	-711.4	93.5	0.00	0.00	0.00	
4,900.0	11.70	270.00	4,827.1	0.0	-731.6	96.2	0.00	0.00	0.00	
5,000.0	11.70	270.00	4,925.0	0.0	-751.9	98.9	0.00	0.00	0.00	
5,100.0	11.70	270.00	5,022.9	0.0	-772.2	101.5	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	11.70	270.00	5,120.9	0.0	-792.5	104.2	0.00	0.00	0.00	
5,300.0	11.70	270.00	5,218.8	0.0	-812.7	106.9	0.00	0.00	0.00	
5,400.0	11.70	270.00	5,316.7	0.0	-833.0	109.5	0.00	0.00	0.00	
5,500.0	11.70	270.00	5,414.6	0.0	-853.3	112.2	0.00	0.00	0.00	
5,600.0	11.70	270.00	5,512.6	0.0	-873.5	114.9	0.00	0.00	0.00	
5,700.0	11.70	270.00	5,610.5	0.0	-893.8	117.5	0.00	0.00	0.00	
5,800.0	11.70	270.00	5,708.4	0.0	-914.1	120.2	0.00	0.00	0.00	
5,900.0	11.70	270.00	5,806.3	0.0	-934.4	122.8	0.00	0.00	0.00	
5,932.7	11.70	270.00	5,838.3	0.0	-941.0	123.7	0.00	0.00	0.00	
6,000.0	11.02	270.00	5,904.3	0.0	-954.3	125.5	1.00	-1.00	0.00	
6,100.0	10.02	270.00	6,002.6	0.0	-972.5	127.9	1.00	-1.00	0.00	
6,200.0	9.02	270.00	6,101.3	0.0	-989.1	130.0	1.00	-1.00	0.00	
6,300.0	8.02	270.00	6,200.2	0.0	-1,003.9	132.0	1.00	-1.00	0.00	
6,400.0	7.02	270.00	6,299.3	0.0	-1,017.0	133.7	1.00	-1.00	0.00	
6,500.0	6.02	270.00	6,398.6	0.0	-1,028.4	135.2	1.00	-1.00	0.00	
6,600.0	5.02	270.00	6,498.2	0.0	-1,038.0	136.5	1.00	-1.00	0.00	
6,700.0	4.02	270.00	6,597.9	0.0	-1,045.9	137.5	1.00	-1.00	0.00	
6,800.0	3.02	270.00	6,697.7	0.0	-1,052.0	138.3	1.00	-1.00	0.00	
6,900.0	2.02	270.00	6,797.6	0.0	-1,056.4	138.9	1.00	-1.00	0.00	
7,000.0	1.02	270.00	6,897.5	0.0	-1,059.1	139.2	1.00	-1.00	0.00	
7,102.5	0.00	0.00	7,000.0	0.0	-1,060.0	139.4	1.00	-1.00	0.00	
7,200.0	0.00	0.00	7,097.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,197.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,297.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,397.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,497.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,597.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,697.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,797.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,897.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,997.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,097.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,197.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,297.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,397.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,497.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,597.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,697.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,797.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,897.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,997.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,097.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,197.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,297.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,397.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,497.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,597.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,697.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,797.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,897.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,997.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,097.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,197.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	

ConocoPhillips Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,400.0	0.00	0.00	10,297.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,397.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,497.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,597.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,697.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,797.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,897.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,997.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,097.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,197.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,297.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,445.0	0.00	0.00	11,342.5	0.0	-1,060.0	139.4	0.00	0.00	0.00	
11,450.0	0.60	179.74	11,347.5	0.0	-1,060.0	139.4	12.00	12.00	0.00	
11,475.0	3.60	179.74	11,372.5	-0.9	-1,060.0	140.3	12.00	12.00	0.00	
11,500.0	6.60	179.74	11,397.4	-3.2	-1,060.0	142.5	12.00	12.00	0.00	
11,525.0	9.60	179.74	11,422.2	-6.7	-1,060.0	146.0	12.00	12.00	0.00	
11,550.0	12.60	179.74	11,446.7	-11.5	-1,059.9	150.8	12.00	12.00	0.00	
11,575.0	15.60	179.74	11,470.9	-17.6	-1,059.9	156.8	12.00	12.00	0.00	
11,600.0	18.60	179.74	11,494.8	-25.0	-1,059.9	164.1	12.00	12.00	0.00	
11,625.0	21.60	179.74	11,518.3	-33.5	-1,059.8	172.6	12.00	12.00	0.00	
11,650.0	24.60	179.74	11,541.3	-43.4	-1,059.8	182.3	12.00	12.00	0.00	
11,675.0	27.60	179.74	11,563.7	-54.4	-1,059.8	193.2	12.00	12.00	0.00	
11,700.0	30.60	179.74	11,585.6	-66.5	-1,059.7	205.3	12.00	12.00	0.00	
11,725.0	33.60	179.74	11,606.8	-79.8	-1,059.6	218.4	12.00	12.00	0.00	
11,750.0	36.60	179.74	11,627.2	-94.2	-1,059.6	232.7	12.00	12.00	0.00	
11,775.0	39.60	179.74	11,646.9	-109.6	-1,059.5	247.9	12.00	12.00	0.00	
11,800.0	42.60	179.74	11,665.7	-126.0	-1,059.4	264.2	12.00	12.00	0.00	
11,825.0	45.60	179.74	11,683.7	-143.4	-1,059.4	281.5	12.00	12.00	0.00	
11,850.0	48.60	179.74	11,700.7	-161.7	-1,059.3	299.6	12.00	12.00	0.00	
11,875.0	51.60	179.74	11,716.7	-180.9	-1,059.2	318.6	12.00	12.00	0.00	
11,900.0	54.60	179.74	11,731.7	-200.9	-1,059.1	338.4	12.00	12.00	0.00	
11,925.0	57.60	179.74	11,745.7	-221.7	-1,059.0	359.0	12.00	12.00	0.00	
11,950.0	60.60	179.74	11,758.5	-243.1	-1,058.9	380.2	12.00	12.00	0.00	
11,975.0	63.60	179.74	11,770.2	-265.2	-1,058.8	402.1	12.00	12.00	0.00	
12,000.0	66.60	179.74	11,780.7	-287.9	-1,058.7	424.6	12.00	12.00	0.00	
12,025.0	69.60	179.74	11,790.0	-311.1	-1,058.6	447.5	12.00	12.00	0.00	
12,050.0	72.60	179.74	11,798.1	-334.7	-1,058.5	471.0	12.00	12.00	0.00	
12,075.0	75.60	179.74	11,805.0	-358.8	-1,058.4	494.8	12.00	12.00	0.00	
12,100.0	78.60	179.74	11,810.6	-383.1	-1,058.3	518.9	12.00	12.00	0.00	
12,125.0	81.60	179.74	11,814.8	-407.7	-1,058.2	543.3	12.00	12.00	0.00	
12,150.0	84.60	179.74	11,817.8	-432.6	-1,058.1	567.9	12.00	12.00	0.00	
12,175.0	87.60	179.74	11,819.5	-457.5	-1,057.9	592.6	12.00	12.00	0.00	
12,195.0	90.00	179.74	11,820.0	-477.5	-1,057.9	612.4	12.00	12.00	0.00	
12,200.0	90.00	179.74	11,820.0	-482.5	-1,057.8	617.4	0.00	0.00	0.00	
12,300.0	90.00	179.74	11,820.0	-582.5	-1,057.4	716.5	0.00	0.00	0.00	
12,400.0	90.00	179.74	11,820.0	-682.5	-1,056.9	815.5	0.00	0.00	0.00	
12,500.0	90.00	179.74	11,820.0	-782.5	-1,056.5	914.6	0.00	0.00	0.00	
12,600.0	90.00	179.74	11,820.0	-882.5	-1,056.0	1,013.7	0.00	0.00	0.00	
12,700.0	90.00	179.74	11,820.0	-982.5	-1,055.6	1,112.8	0.00	0.00	0.00	
12,800.0	90.00	179.74	11,820.0	-1,082.5	-1,055.1	1,211.8	0.00	0.00	0.00	
12,900.0	90.00	179.74	11,820.0	-1,182.5	-1,054.7	1,310.9	0.00	0.00	0.00	
13,000.0	90.00	179.74	11,820.0	-1,282.5	-1,054.2	1,410.0	0.00	0.00	0.00	
13,100.0	90.00	179.74	11,820.0	-1,382.5	-1,053.8	1,509.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
13,200.0	90.00	179.74	11,820.0	-1,482.5	-1,053.4	1,608.1	0.00	0.00	0.00	
13,300.0	90.00	179.74	11,820.0	-1,582.5	-1,052.9	1,707.2	0.00	0.00	0.00	
13,400.0	90.00	179.74	11,820.0	-1,682.5	-1,052.5	1,806.3	0.00	0.00	0.00	
13,500.0	90.00	179.74	11,820.0	-1,782.5	-1,052.0	1,905.3	0.00	0.00	0.00	
13,600.0	90.00	179.74	11,820.0	-1,882.5	-1,051.6	2,004.4	0.00	0.00	0.00	
13,700.0	90.00	179.74	11,820.0	-1,982.5	-1,051.1	2,103.5	0.00	0.00	0.00	
13,800.0	90.00	179.74	11,820.0	-2,082.5	-1,050.7	2,202.5	0.00	0.00	0.00	
13,900.0	90.00	179.74	11,820.0	-2,182.5	-1,050.2	2,301.6	0.00	0.00	0.00	
14,000.0	90.00	179.74	11,820.0	-2,282.5	-1,049.8	2,400.7	0.00	0.00	0.00	
14,100.0	90.00	179.74	11,820.0	-2,382.5	-1,049.3	2,499.8	0.00	0.00	0.00	
14,200.0	90.00	179.74	11,820.0	-2,482.5	-1,048.9	2,598.8	0.00	0.00	0.00	
14,300.0	90.00	179.74	11,820.0	-2,582.5	-1,048.4	2,697.9	0.00	0.00	0.00	
14,400.0	90.00	179.74	11,820.0	-2,682.5	-1,048.0	2,797.0	0.00	0.00	0.00	
14,500.0	90.00	179.74	11,820.0	-2,782.5	-1,047.5	2,896.0	0.00	0.00	0.00	
14,600.0	90.00	179.74	11,820.0	-2,882.5	-1,047.1	2,995.1	0.00	0.00	0.00	
14,700.0	90.00	179.74	11,820.0	-2,982.5	-1,046.6	3,094.2	0.00	0.00	0.00	
14,800.0	90.00	179.74	11,820.0	-3,082.5	-1,046.2	3,193.3	0.00	0.00	0.00	
14,900.0	90.00	179.74	11,820.0	-3,182.5	-1,045.7	3,292.3	0.00	0.00	0.00	
15,000.0	90.00	179.74	11,820.0	-3,282.5	-1,045.3	3,391.4	0.00	0.00	0.00	
15,100.0	90.00	179.74	11,820.0	-3,382.5	-1,044.8	3,490.5	0.00	0.00	0.00	
15,200.0	90.00	179.74	11,820.0	-3,482.5	-1,044.4	3,589.5	0.00	0.00	0.00	
15,300.0	90.00	179.74	11,820.0	-3,582.5	-1,043.9	3,688.6	0.00	0.00	0.00	
15,400.0	90.00	179.74	11,820.0	-3,682.5	-1,043.5	3,787.7	0.00	0.00	0.00	
15,500.0	90.00	179.74	11,820.0	-3,782.5	-1,043.0	3,886.8	0.00	0.00	0.00	
15,600.0	90.00	179.74	11,820.0	-3,882.5	-1,042.6	3,985.8	0.00	0.00	0.00	
15,700.0	90.00	179.74	11,820.0	-3,982.5	-1,042.1	4,084.9	0.00	0.00	0.00	
15,800.0	90.00	179.74	11,820.0	-4,082.5	-1,041.7	4,184.0	0.00	0.00	0.00	
15,900.0	90.00	179.74	11,820.0	-4,182.5	-1,041.2	4,283.1	0.00	0.00	0.00	
16,000.0	90.00	179.74	11,820.0	-4,282.5	-1,040.8	4,382.1	0.00	0.00	0.00	
16,100.0	90.00	179.74	11,820.0	-4,382.5	-1,040.3	4,481.2	0.00	0.00	0.00	
16,200.0	90.00	179.74	11,820.0	-4,482.5	-1,039.9	4,580.3	0.00	0.00	0.00	
16,300.0	90.00	179.74	11,820.0	-4,582.5	-1,039.4	4,679.3	0.00	0.00	0.00	
16,400.0	90.00	179.74	11,820.0	-4,682.5	-1,039.0	4,778.4	0.00	0.00	0.00	
16,500.0	90.00	179.74	11,820.0	-4,782.5	-1,038.6	4,877.5	0.00	0.00	0.00	
16,600.0	90.00	179.74	11,820.0	-4,882.5	-1,038.1	4,976.6	0.00	0.00	0.00	
16,700.0	90.00	179.74	11,820.0	-4,982.5	-1,037.7	5,075.6	0.00	0.00	0.00	
16,800.0	90.00	179.74	11,820.0	-5,082.5	-1,037.2	5,174.7	0.00	0.00	0.00	
16,900.0	90.00	179.74	11,820.0	-5,182.4	-1,036.8	5,273.8	0.00	0.00	0.00	
17,000.0	90.00	179.74	11,820.0	-5,282.4	-1,036.3	5,372.8	0.00	0.00	0.00	
17,100.0	90.00	179.74	11,820.0	-5,382.4	-1,035.9	5,471.9	0.00	0.00	0.00	
17,200.0	90.00	179.74	11,820.0	-5,482.4	-1,035.4	5,571.0	0.00	0.00	0.00	
17,300.0	90.00	179.74	11,820.0	-5,582.4	-1,035.0	5,670.1	0.00	0.00	0.00	
17,400.0	90.00	179.74	11,820.0	-5,682.4	-1,034.5	5,769.1	0.00	0.00	0.00	
17,500.0	90.00	179.74	11,820.0	-5,782.4	-1,034.1	5,868.2	0.00	0.00	0.00	
17,600.0	90.00	179.74	11,820.0	-5,882.4	-1,033.6	5,967.3	0.00	0.00	0.00	
17,700.0	90.00	179.74	11,820.0	-5,982.4	-1,033.2	6,066.3	0.00	0.00	0.00	
17,800.0	90.00	179.74	11,820.0	-6,082.4	-1,032.7	6,165.4	0.00	0.00	0.00	
17,900.0	90.00	179.74	11,820.0	-6,182.4	-1,032.3	6,264.5	0.00	0.00	0.00	
18,000.0	90.00	179.74	11,820.0	-6,282.4	-1,031.8	6,363.6	0.00	0.00	0.00	
18,100.0	90.00	179.74	11,820.0	-6,382.4	-1,031.4	6,462.6	0.00	0.00	0.00	
18,200.0	90.00	179.74	11,820.0	-6,482.4	-1,030.9	6,561.7	0.00	0.00	0.00	
18,300.0	90.00	179.74	11,820.0	-6,582.4	-1,030.5	6,660.8	0.00	0.00	0.00	
18,400.0	90.00	179.74	11,820.0	-6,682.4	-1,030.0	6,759.9	0.00	0.00	0.00	

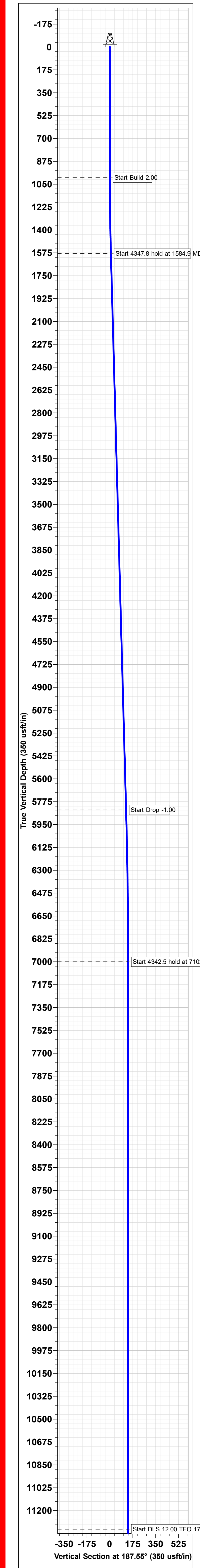
ConocoPhillips

Planning Report

Database:	Central Planning Prod	Local Co-ordinate Reference:	Well *ZIA HILLS UNIT 2531 WC #701H - Slot ZHU 2531 WC #701H
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 #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

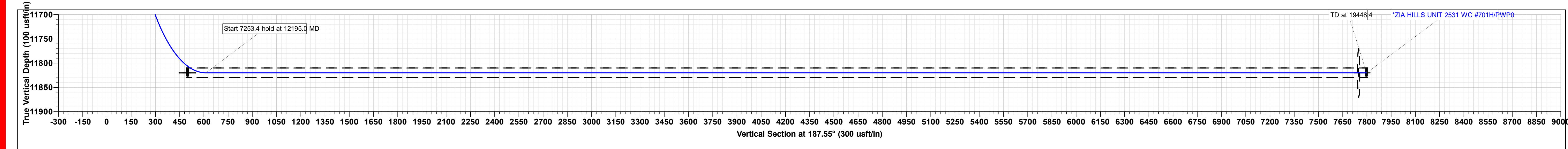
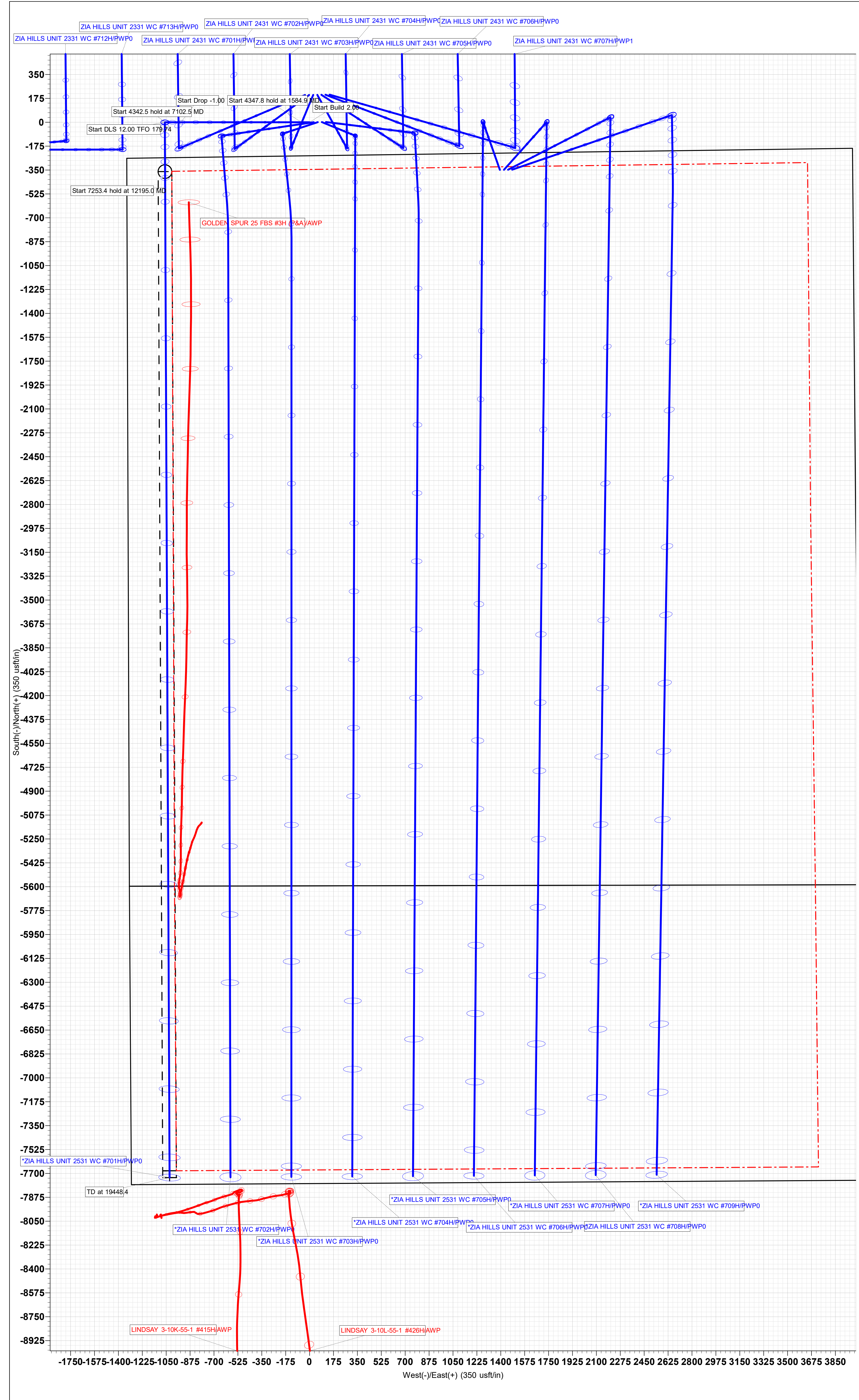
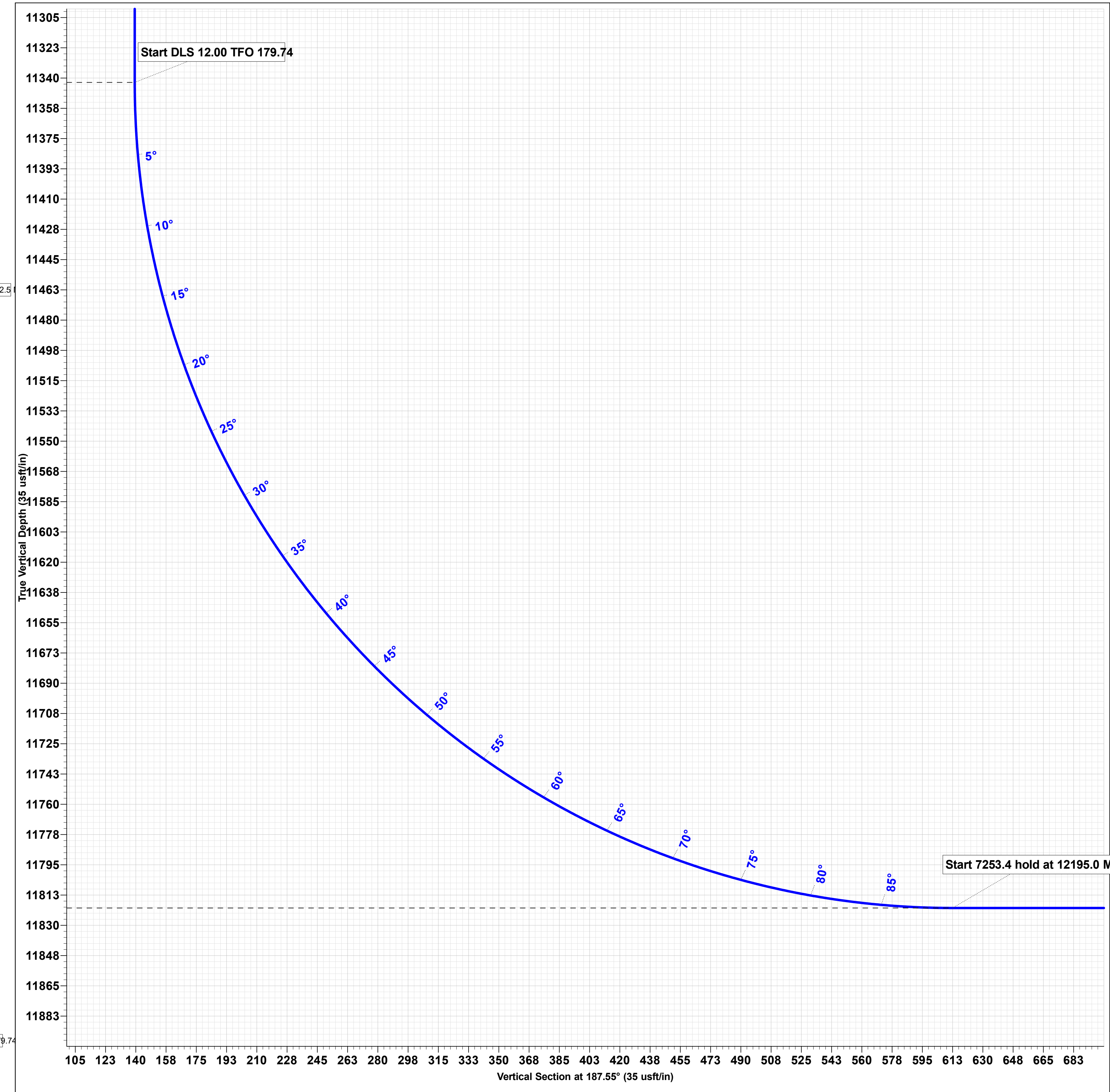
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
18,500.0	90.00	179.74	11,820.0	-6,782.4	-1,029.6	6,858.9	0.00	0.00	0.00	
18,600.0	90.00	179.74	11,820.0	-6,882.4	-1,029.1	6,958.0	0.00	0.00	0.00	
18,700.0	90.00	179.74	11,820.0	-6,982.4	-1,028.7	7,057.1	0.00	0.00	0.00	
18,800.0	90.00	179.74	11,820.0	-7,082.4	-1,028.2	7,156.1	0.00	0.00	0.00	
18,900.0	90.00	179.74	11,820.0	-7,182.4	-1,027.8	7,255.2	0.00	0.00	0.00	
19,000.0	90.00	179.74	11,820.0	-7,282.4	-1,027.3	7,354.3	0.00	0.00	0.00	
19,100.0	90.00	179.74	11,820.0	-7,382.4	-1,026.9	7,453.4	0.00	0.00	0.00	
19,200.0	90.00	179.74	11,820.0	-7,482.4	-1,026.4	7,552.4	0.00	0.00	0.00	
19,300.0	90.00	179.74	11,820.0	-7,582.4	-1,026.0	7,651.5	0.00	0.00	0.00	
19,400.0	90.00	179.74	11,820.0	-7,682.4	-1,025.5	7,750.6	0.00	0.00	0.00	
19,448.4	90.00	179.74	11,820.0	-7,730.8	-1,025.3	7,798.5	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP (ZHU 2531 WC #70 - hit/miss target - Shape - plan misses target center by 0.1usft at 19398.4usft MD (11820.0 TVD, -7680.8 N, -1025.6 E) - Circle (radius 50.0)	90.00	179.74	11,820.0	-7,680.8	-1,025.7	364,362.10	684,298.33	32° 0' 1.267 N	103° 44' 19.733 W	
PBHL (ZHU 2531 WC #70 - plan hits target center - Rectangle (sides W100.0 H7,369.5 D20.0)	0.00	359.74	11,820.0	-7,730.8	-1,025.3	364,312.10	684,298.66	32° 0' 0.772 N	103° 44' 19.733 W	
FTP (ZHU 2531 WC #70 - plan misses target center by 14.0usft at 12081.0usft MD (11806.4 TVD, -364.5 N, -1058.4 E) - Circle (radius 50.0)	0.00	0.00	11,820.0	-361.4	-1,059.2	371,681.48	684,264.79	32° 1' 13.703 N	103° 44' 19.655 W	



Project: ZIA HILLS UNIT PROSPECT
 Site: ZIA HILLS UNIT 2531 PROJECT
 Well: ZIA HILLS UNIT 2531 WC #701H
 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
1584.9	11.70	270.00	1580.8	0.0	-59.5	2.00	270.00	7.8
5932.7	11.70	270.00	5838.3	0.0	-941.0	0.00	0.00	123.7
7102.5	0.00	0.00	7000.0	0.0	-1060.0	1.00	180.00	139.4
11445.0	0.00	0.00	11342.5	0.0	-1060.0	0.00	0.00	139.4
12195.0	90.00	179.74	11820.0	-477.5	-1057.9	12.00	179.74	612.4
19448.4	90.00	179.74	11820.0	-7730.8	-1025.3	0.00	0.00	7798.5



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	ZIA HILLS UNIT 2531 WC 701H
SURFACE HOLE FOOTAGE:	245'/S & 1340'/W
BOTTOM HOLE FOOTAGE:	50'/S & 280'/W
LOCATION:	Section 24, T.26 S., R.31 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> 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:

- 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 430628

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 430628
	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