

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
		8. Lease Name and Well No. [334841]
2. Name of Operator [217817]		9. API Well No. 30-025-52475
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory [98081]
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

NGMP Rec 01/23/2024

SL

(Continued on page 2)

KZ
01/29/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 2535 FSL / 2090 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0278585 / LONG: -103.7125074 (TVD: 0 feet, MD: 0 feet)
PPP: SWNE / 2653 FSL / 1617 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0281673 / LONG: -103.710979 (TVD: 11487 feet, MD: 11584 feet)
PPP: NWSE / 2620 FSL / 1617 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0280774 / LONG: -103.7109808 (TVD: 11487 feet, MD: 11550 feet)
PPP: SWSE / 1 FSL / 1566 FEL / TWSP: 26S / RANGE: 32E / SECTION: 18 / LAT: 32.0355213 / LONG: -103.7108418 (TVD: 11703 feet, MD: 14224 feet)
BHL: NWSE / 2620 FSL / 1566 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0574205 / LONG: -103.7108849 (TVD: 11703 feet, MD: 22041 feet)

BLM Point of Contact

Name: JANET D ESTES
Title: ADJUDICATOR
Phone: (575) 234-6233
Email: JESTES@BLM.GOV

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazon Road, Artec, NM 87410
District IV
1220 S. St Francis Dr., NM 87505
Phone: (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 30-025-52475	² Pool Code 98081	³ Pool Name Zia Hills; Wolfcamp
⁴ Property Code 334841	⁵ Property Name ZIA HILLS UNIT 1932 WC	⁶ Well Number 711H
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 3,167'

¹⁰ Surface Location

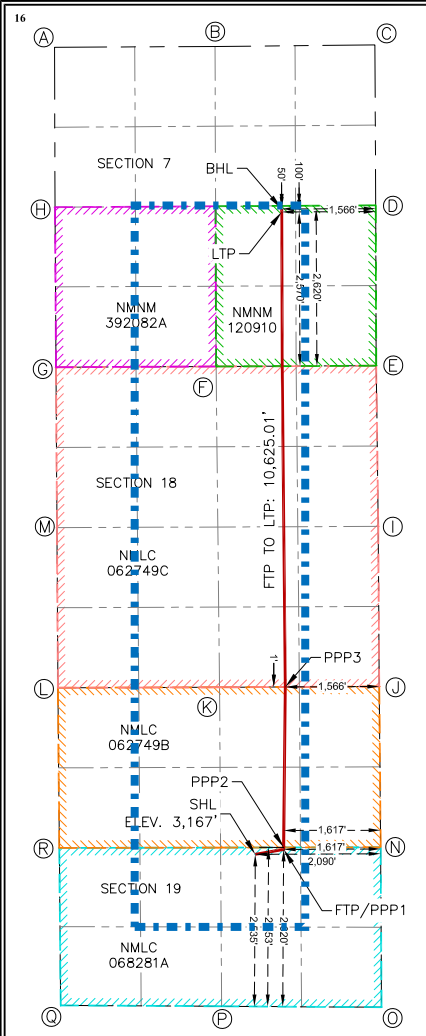
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	19	26-S	32-E		2,535'	SOUTH	2,090'	EAST	LEA

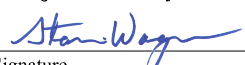
¹⁰ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	7	26-S	32-E		2,620'	SOUTH	1,566'	EAST	LEA

¹² Dedicated Acres 720	¹³ Joint or Infill	¹⁴ Consolidation Code Unit	¹⁵ Order No. R-20080
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	CORNER COORDINATES NEW MEXICO EAST - NAD 83 A-CALCULATED CORNER N-387,877.60' E-730,384.64' B-FOUND IRON PIPE W/ BRASS CAP N-387,891.28' E-733,059.15' C-FOUND IRON PIPE W/ BRASS CAP N-387,916.23' E-735,723.72' D-FOUND BENT IRON PIPE W/ BRASS CAP N-385,243.70' E-735,736.29' E-FOUND IRON PIPE W/ BRASS CAP N-382,570.93' E-735,744.95' F-CALCULATED CORNER N-382,558.04' E-733,076.87' G-FOUND IRON PIPE W/ BRASS CAP N-382,545.16' E-730,408.79' H-FOUND BENT IRON PIPE W/ BRASS CAP N-385,211.90' E-730,393.18' I-FOUND IRON PIPE W/ BRASS CAP N-379,892.50' E-735,778.31' J-FOUND IRON PIPE W/ BRASS CAP N-377,224.61' E-735,795.66' K-FOUND 1" IRON PIPE N-377,211.54' E-733,134.18' L-FOUND 2" IRON PIPE N-377,203.52' E-730,441.03' M-FOUND 1" IRON PIPE N-379,872.18' E-730,424.72' N-FOUND IRON PIPE W/ BRASS CAP N-374,544.72' E-735,819.04' O-FOUND IRON PIPE W/ BRASS CAP N-371,879.35' E-735,833.03' P-FOUND IRON PIPE W/ BRASS CAP N-371,894.62' E-733,169.03' Q-FOUND 2" IRON PIPE W/ CAP N-371,909.34' E-730,466.74' R-FOUND 1" IRON PIPE N-374,533.91' E-730,464.25'
	SURFACE HOLE LOCATION 2,535' FSL & 2,090' FEL NEW MEXICO EAST-NAD 83 NORTH:374,426.40' EAST:733,729.58' LAT:32.02785854 LONG:-103.71250741 FIRST TAKE POINT / PENETRATION POINT 1 2,620' FSL & 1,617' FEL NEW MEXICO EAST-NAD 83 NORTH:374,508.74' EAST:734,202.21' LAT:32.02807742 LONG:-103.71098082 PENETRATION POINT 2 2,653' FSL & 1,617' FEL NEW MEXICO EAST-NAD 83 NORTH:374,541.46' EAST:734,202.54' LAT:32.02816736 LONG:-103.71097915 PENETRATION POINT 3 1' FSL & 1,566' FEL NEW MEXICO EAST-NAD 83 NORTH:377,216.92' EAST:734,229.68' LAT:32.03552130 LONG:-103.71084182 LAST TAKE POINT 2,570' FSL & 1,566' FEL NEW MEXICO EAST-NAD 83 NORTH:385,133.36' EAST:734,170.58' LAT:32.05728311 LONG:-103.71088528 BOTTOM HOLE LOCATION 2,620' FSL & 1,566' FEL NEW MEXICO EAST-NAD 83 NORTH:385,183.36' EAST:734,170.40' LAT:32.05742056 LONG:-103.71088493

17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature: Stan Wagner Date: 6/19/23
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date: 6/5/23  MARK J. MURRAY P.L.S. NO. 12177

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: 06/05/2023

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 1932 WC 709H	30-025-	J-19-26S-32E	2535 FSL & 2150 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 710H	30-025-	J-19-26S-32E	2535 FSL & 2120 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 711H	30-025-	J-19-26S-32E	2535 FSL & 2090 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 712H	30-025-	J-19-26S-32E	2535 FSL & 2060 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 713H	30-025-	J-19-26S-32E	2535 FSL & 2030 FEL	± 818	± 3209	± 1907
Zia Hills Unit 1932 WC 714H	30-025-	J-19-26S-32E	2535 FSL & 2000 FEL	± 818	± 3209	± 1907

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Zia Hills Unit 1932 WC	Pending	± 8/1/2024	± 25 days from spud	TBD	TBD	TBD
709H, 710H, 711H, 712H, 713H, 714H						

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

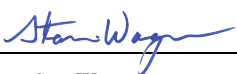
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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: 06/05/2023
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 1932 WC 711H

1. Geologic Formations

TVD of target	11,703' EOL	Pilot hole depth	NA
MD at TD:	22,042'	Deepest expected fresh water:	202'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	1224	Water	
Top of Salt	1543	Salt	
Base of Salt	4008	Salt	
Lamar	4275	Salt Water	
Bell Canyon	4311	Salt Water	
Cherry Canyon	5202	Oil/Gas	
Brushy Canyon	6626	Oil/Gas	
Bone Spring Lime	8271	Oil/Gas	
1st Bone Spring Sand	9283	Oil/Gas	
2nd Bone Spring Sand	9967	Oil/Gas	
3rd Bone Spring Sand	11144	Oil/Gas	
Wolfcamp	11510	Target	
Wolfcamp A	11274	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	1350	10.75"	45.5	J55	BTC	3.38	1.02	11.64	12.96
9.875"	0	8500	7.625"	29.7	L80-ICY	BTC	1.35	1.04	2.88	2.90
8.750"	8500	11064	7.625"	29.7	P110-ICY	W513	1.29	1.57	3.25	1.95
6.75"	0	10864	5.5"	23	P110-CY	BTC	1.91	2.22	2.92	2.92
6.75"	10864	22,042	5.5"	23	P110-CY	W441	1.77	2.06	2.71	2.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

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

ConocoPhillips Company - Zia Hills Unit 1932 WC 711H

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

ConocoPhillips Company - Zia Hills Unit 1932 WC 711H**3. Cementing Program**

Casing	# Skcs	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	644	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	810	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	681	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	941	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	10,564'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 1932 WC 711H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 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 1932 WC 711H

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 - 9.9	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
---	-----------------------------

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 1932 WC 711H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	8220 psi at 11703' TVD
Abnormal Temperature	NO 175 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

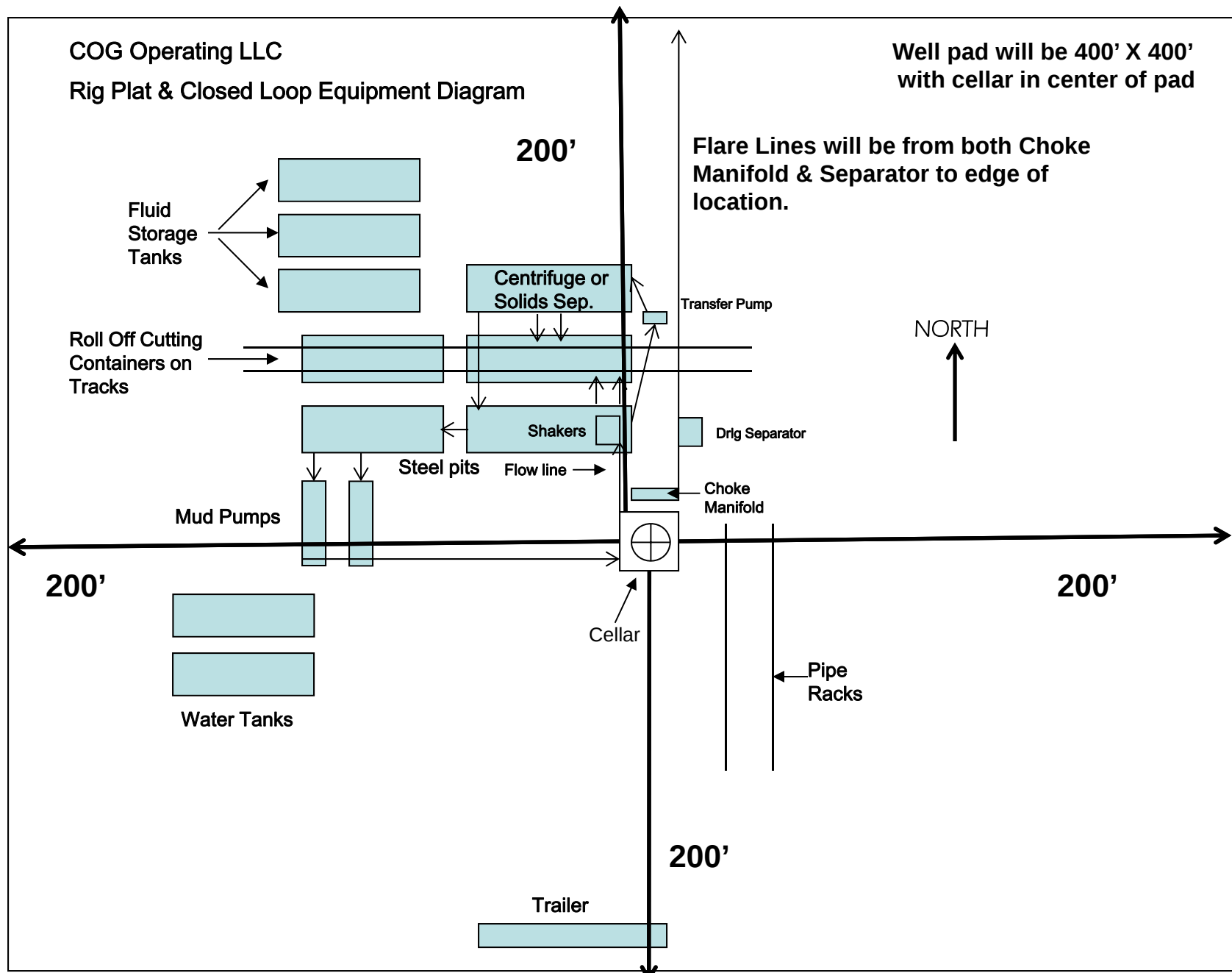


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 1932 PROJECT

ZIA HILLS UNIT 1932 WC #711H

OWB

PWP1

Anticollision Report

09 May, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference	PWP1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,000.0usft	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	5/9/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp-Initilzd Cont. rev.5	
1,500.0	11,164.0	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,164.0	22,041.7	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 1932 PROJECT						
CONOCO FEDERAL #2 - OWB - AWP	4,061.4	4,026.7	382.3	239.3	2.674	CC
CONOCO FEDERAL #2 - OWB - AWP	4,400.0	4,362.8	389.2	228.6	2.423	ES, SF
PADUCA 7 6 W1GB FEDERAL #2H - OWB - AWP	22,041.7	11,714.2	215.0	129.0	2.501	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,466.6	1,466.8	59.9	50.7	6.481	CC
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,500.0	1,500.0	59.9	50.6	6.442	ES
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	22,041.7	22,113.0	824.0	657.7	4.954	SF
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,793.5	1,795.2	28.6	18.4	2.811	CC
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	1,800.0	1,801.6	28.6	18.4	2.806	ES
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	22,041.7	22,294.0	447.7	280.5	2.679	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,500.0	1,499.9	30.0	20.7	3.226	CC
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,700.0	1,698.5	30.5	20.6	3.080	ES
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,041.7	22,192.1	448.6	281.1	2.678	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,500.0	1,499.9	60.1	50.8	6.459	CC
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,700.0	1,697.3	60.6	50.7	6.115	ES
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	22,041.7	22,070.4	824.6	655.4	4.872	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,000.0	999.9	90.1	81.6	10.692	CC, ES
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,100.0	1,096.9	91.7	83.0	10.526	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,504.4	1,507.4	208.1	198.3	21.126	CC, ES
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,800.0	1,808.5	213.6	202.9	19.891	SF
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,325.9	2,349.5	180.8	167.5	13.558	CC, ES
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	2,700.0	2,718.8	190.4	175.4	12.681	SF
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	4,824.9	4,838.1	163.7	138.8	6.568	CC
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	4,900.0	4,910.7	164.3	138.7	6.433	ES
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	11,164.0	11,161.4	205.9	166.8	5.275	SF
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	2,311.2	2,319.9	194.8	182.4	15.744	CC, ES
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	11,164.0	11,211.4	364.7	324.4	9.043	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,504.9	1,508.5	209.4	199.6	21.264	CC, ES
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	5,500.0	5,476.3	484.2	451.7	14.896	SF
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,465.8	1,468.4	220.3	210.5	22.678	CC
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,500.0	1,502.6	220.3	210.5	22.500	ES
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	5,500.0	5,451.4	626.9	593.1	18.528	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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
ZIA HILLS UNIT 1932 PROJECT						
CONOCO FEDERAL #2 - OWB - AWP	22,041.7	4,368.0				Out of Range @TD
PADUCA 7 6 W1GB FEDERAL #2H - OWB - AWP	22,041.7	11,714.2	215.0	129.0	2.501	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	22,041.7	22,113.0	824.0	657.7	4.954	SF
ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1	22,041.7	22,294.0	447.7	280.5	2.679	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,041.7	22,192.1	448.6	281.1	2.678	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	22,041.7	22,070.4	824.6	655.4	4.872	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	22,041.7	22,345.6				Out of Range @TD
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	22,041.7	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	22,041.7	11,350.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	22,041.7	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	22,041.7	11,400.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	22,041.7	11,300.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	22,041.7	11,499.3				Out of Range @TD

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO FEDERAL #2 - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 490-INC-ONLY													Offset Well Error:	10.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	10.0	117.91	-227.4	429.2	485.9					
100.0	100.0	85.3	85.3	3.0	10.0	117.91	-227.4	429.2	485.7	470.6	15.14	32.085		
200.0	200.0	185.3	185.3	3.2	10.2	117.91	-227.4	429.2	485.7	470.4	15.35	31.633		
300.0	300.0	285.3	285.3	3.3	10.4	117.91	-227.4	429.2	485.7	470.0	15.69	30.963		
400.0	400.0	385.3	385.3	3.4	10.7	117.91	-227.4	429.2	485.7	469.6	16.13	30.114		
500.0	500.0	485.3	485.3	3.5	11.0	117.91	-227.4	429.2	485.7	469.0	16.67	29.135		
600.0	600.0	585.3	585.3	3.7	12.0	117.91	-227.4	429.2	485.7	467.7	18.02	26.951		
700.0	700.0	685.3	685.3	3.8	13.3	117.91	-227.4	429.2	485.7	466.0	19.73	24.619		
751.9	751.9	737.2	737.2	3.9	14.0	117.83	-226.6	429.2	485.3	464.6	20.72	23.428		
800.0	800.0	785.0	785.0	3.9	14.7	117.83	-226.6	429.2	485.3	463.7	21.68	22.389		
900.0	900.0	884.4	884.4	4.0	16.2	117.86	-226.9	429.2	485.5	461.7	23.80	20.394		
1,000.0	1,000.0	985.4	985.3	4.2	17.9	117.91	-227.4	429.2	485.7	459.6	26.11	18.605		
1,100.0	1,100.0	1,085.4	1,085.3	4.3	19.7	117.91	-227.4	429.2	485.7	457.1	28.58	16.992		
1,124.8	1,124.8	1,110.0	1,109.9	4.3	20.1	117.86	-226.9	429.2	485.5	456.3	29.21	16.621		
1,200.0	1,200.0	1,183.9	1,183.8	4.4	21.5	117.89	-227.2	429.2	485.6	454.5	31.11	15.609		
1,300.0	1,300.0	1,285.4	1,285.3	4.5	23.6	117.91	-227.4	429.2	485.7	451.8	33.93	14.314		
1,400.0	1,400.0	1,385.4	1,385.3	4.6	25.7	117.91	-227.4	429.2	485.7	448.9	36.83	13.187		
1,456.8	1,456.8	1,442.2	1,442.1	4.7	26.9	117.81	-226.4	429.2	485.2	446.7	38.50	12.603		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO FEDERAL #2 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 490-INC-ONLY												Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
1,500.0	1,500.0	1,485.0	1,484.9	4.8	27.8	117.81	-226.4	429.2	485.3	445.5	39.77	12.201	
1,600.0	1,600.0	1,584.2	1,584.1	4.9	29.9	68.00	-226.8	429.2	484.9	442.2	42.73	11.349	
1,700.0	1,699.9	1,685.4	1,685.2	5.0	32.2	68.52	-227.4	429.2	483.8	437.9	45.88	10.545	
1,800.0	1,799.7	1,785.2	1,785.0	5.2	34.7	69.27	-227.4	429.2	481.4	432.0	49.43	9.738	
1,900.0	1,899.3	1,884.8	1,884.6	5.5	37.3	70.34	-227.4	429.2	478.2	425.2	53.01	9.022	
2,000.0	1,998.6	1,983.2	1,983.0	5.7	39.8	71.56	-225.9	429.2	473.6	417.0	56.56	8.373	
2,033.3	2,031.6	2,015.8	2,015.6	5.8	40.7	72.10	-226.0	429.2	472.3	414.5	57.74	8.179	
2,100.0	2,097.6	2,081.0	2,080.7	5.9	42.4	63.59	-226.5	429.2	469.0	408.9	60.10	7.804	
2,158.1	2,155.2	2,137.7	2,137.5	6.0	43.9	56.16	-227.1	429.2	465.3	403.2	62.16	7.486	
2,200.0	2,196.7	2,182.4	2,182.0	6.1	45.0	56.83	-227.4	429.2	462.2	398.4	63.79	7.246	
2,300.0	2,295.7	2,281.4	2,281.0	6.4	47.7	58.29	-227.4	429.2	454.7	387.3	67.46	6.741	
2,400.0	2,394.7	2,380.5	2,380.0	6.7	50.3	59.79	-227.4	429.2	447.5	376.4	71.14	6.291	
2,500.0	2,493.7	2,478.2	2,477.7	7.0	52.9	61.12	-225.4	429.2	439.4	364.6	74.77	5.876	
2,600.0	2,592.8	2,575.3	2,574.8	7.3	55.5	62.78	-226.2	429.2	433.3	354.9	78.39	5.528	
2,700.0	2,691.8	2,677.8	2,677.1	7.7	58.2	64.59	-227.4	429.2	427.9	345.6	82.22	5.204	
2,800.0	2,790.8	2,776.8	2,776.1	8.0	60.9	66.28	-227.4	429.2	422.0	336.1	85.94	4.911	
2,900.0	2,889.9	2,875.8	2,875.2	8.4	63.6	68.02	-227.4	429.2	416.6	326.9	89.67	4.646	
3,000.0	2,988.9	2,974.0	2,973.3	8.7	66.2	69.64	-225.7	429.2	410.3	317.0	93.37	4.395	
3,100.0	3,087.9	3,071.6	3,070.9	9.1	68.9	71.48	-226.2	429.2	406.0	309.0	97.05	4.184	
3,200.0	3,186.9	3,169.1	3,168.4	9.5	71.5	73.40	-227.2	429.2	402.6	301.9	100.72	3.997	
3,300.0	3,286.0	3,272.2	3,271.3	9.9	74.9	75.39	-227.4	429.2	398.9	293.5	105.44	3.783	
3,400.0	3,385.0	3,371.2	3,370.3	10.3	78.2	77.32	-227.4	429.2	395.6	285.5	110.09	3.593	
3,500.0	3,484.0	3,469.3	3,468.3	10.7	81.5	79.10	-225.3	429.2	391.0	276.3	114.70	3.409	
3,600.0	3,583.0	3,566.1	3,565.1	11.1	84.8	81.10	-225.9	429.2	389.2	269.9	119.25	3.263	
3,700.0	3,682.1	3,662.8	3,661.8	11.4	88.0	83.16	-227.2	429.2	388.4	264.6	123.79	3.137	
3,800.0	3,781.1	3,767.9	3,766.4	11.8	92.0	85.31	-227.4	429.2	387.1	257.8	129.34	2.993	
3,900.0	3,880.1	3,866.9	3,865.4	12.2	95.7	87.35	-227.4	429.2	386.2	251.7	134.54	2.870	
4,000.0	3,979.1	3,965.9	3,964.4	12.7	99.5	89.39	-227.4	429.2	385.8	246.0	139.76	2.761	
4,061.4	4,040.0	4,026.7	4,025.1	12.9	101.8	90.44	-223.6	429.2	382.3	239.3	142.95	2.674 CC	
4,100.0	4,078.2	4,063.7	4,062.1	13.1	103.2	91.22	-223.7	429.2	382.4	237.5	144.90	2.639	
4,200.0	4,177.2	4,159.7	4,158.1	13.5	106.8	93.25	-224.4	429.2	383.7	233.8	149.96	2.559	
4,300.0	4,276.2	4,255.7	4,254.0	13.9	110.4	95.31	-226.0	429.2	386.4	231.4	155.00	2.493	
4,400.0	4,375.3	4,362.8	4,360.6	14.3	114.4	97.54	-227.4	429.2	389.2	228.6	160.62	2.423 ES, SF	
4,500.0	4,474.3	4,368.0	4,365.7	14.7	114.6	97.64	-227.4	429.2	402.4	245.8	156.57	2.570	
4,600.0	4,573.3	4,368.0	4,365.7	15.1	114.6	97.64	-227.4	429.2	438.6	293.7	144.90	3.027	
4,700.0	4,672.3	4,368.0	4,365.7	15.5	114.6	97.64	-227.4	429.2	492.7	362.3	130.39	3.779	
4,800.0	4,771.4	4,368.0	4,365.7	15.9	114.6	97.64	-227.4	429.2	559.6	443.3	116.31	4.811	
4,900.0	4,870.4	4,368.0	4,365.7	16.4	114.6	97.64	-227.4	429.2	635.3	531.3	104.01	6.108	
5,000.0	4,969.4	4,368.0	4,365.7	16.8	114.6	97.64	-227.4	429.2	716.9	623.2	93.73	7.649	
5,081.4	5,050.0	4,368.0	4,365.7	17.1	114.6	97.64	-227.4	429.2	786.5	699.8	86.73	9.068	
5,100.0	5,068.4	4,368.0	4,365.7	17.2	114.6	97.97	-227.4	429.2	802.7	717.5	85.28	9.413	
5,200.0	5,167.6	4,368.0	4,365.7	17.6	114.6	99.87	-227.4	429.2	891.4	813.2	78.27	11.389	
5,300.0	5,267.0	4,368.0	4,365.7	18.0	114.6	102.00	-227.4	429.2	982.2	909.8	72.38	13.569	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - PADUCA 7 6 W1GB FEDERAL #2H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 80-MWD - OWSG R1													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
21,300.0	11,703.0	11,621.0	11,613.3	78.9	40.8	-21.37	10,916.7	374.3	920.2	849.6	70.59	13.035		
21,400.0	11,703.0	11,621.0	11,613.3	79.6	40.8	-21.37	10,916.7	374.3	822.4	751.1	71.30	11.535		
21,500.0	11,703.0	11,632.0	11,624.1	80.3	40.8	-22.70	10,919.0	374.2	725.0	653.1	71.96	10.075		
21,600.0	11,703.0	11,641.0	11,632.8	81.1	40.8	-23.88	10,921.0	374.2	628.2	555.3	72.92	8.616		
21,700.0	11,703.0	11,651.0	11,642.5	81.8	40.9	-25.33	10,923.5	374.1	532.1	457.9	74.23	7.168		
21,800.0	11,703.0	11,668.0	11,658.8	82.6	40.9	-28.20	10,928.2	374.0	436.9	361.1	75.79	5.765		
21,900.0	11,703.0	11,683.8	11,673.9	83.3	41.0	-31.47	10,933.0	373.8	343.1	264.7	78.47	4.373		
21,991.7	11,703.0	11,702.1	11,691.1	84.0	41.0	-36.12	10,939.3	373.5	259.3	176.8	82.53	3.142		
22,000.0	11,703.0	11,704.0	11,692.8	84.0	41.0	-36.66	10,940.0	373.4	251.9	168.9	83.02	3.034		
22,041.7	11,703.0	11,714.2	11,702.3	84.3	41.0	-39.82	10,943.8	373.2	215.0	129.0	85.99	2.501 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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
0.0	0.0	0.2	0.2	3.0	3.0	-89.59	0.4	-59.9	59.9					
100.0	100.0	100.2	100.2	3.0	3.0	-89.59	0.4	-59.9	59.9	53.4	6.52	9.191		
200.0	200.0	200.2	200.2	3.2	3.2	-89.59	0.4	-59.9	59.9	53.2	6.76	8.865		
300.0	300.0	300.2	300.2	3.3	3.3	-89.59	0.4	-59.9	59.9	52.9	6.99	8.572		
400.0	400.0	400.2	400.2	3.4	3.4	-89.59	0.4	-59.9	59.9	52.7	7.22	8.306		
500.0	500.0	500.2	500.2	3.5	3.5	-89.59	0.4	-59.9	59.9	52.5	7.43	8.065		
600.0	600.0	600.2	600.2	3.7	3.7	-89.59	0.4	-59.9	59.9	52.3	7.64	7.844		
700.0	700.0	700.2	700.2	3.8	3.8	-89.59	0.4	-59.9	59.9	52.1	7.84	7.640		
800.0	800.0	800.2	800.2	3.9	3.9	-89.59	0.4	-59.9	59.9	51.9	8.04	7.452		
900.0	900.0	900.2	900.2	4.0	4.0	-89.59	0.4	-59.9	59.9	51.7	8.23	7.278		
1,000.0	1,000.0	1,000.2	1,000.2	4.2	4.2	-89.59	0.4	-59.9	59.9	51.5	8.42	7.115		
1,100.0	1,100.0	1,100.2	1,100.2	4.3	4.3	-89.59	0.4	-59.9	59.9	51.3	8.61	6.963		
1,200.0	1,200.0	1,200.2	1,200.2	4.4	4.4	-89.59	0.4	-59.9	59.9	51.1	8.79	6.821		
1,300.0	1,300.0	1,300.2	1,300.2	4.5	4.5	-89.59	0.4	-59.9	59.9	51.0	8.96	6.687		
1,400.0	1,400.0	1,400.2	1,400.2	4.6	4.6	-89.59	0.4	-59.9	59.9	50.8	9.14	6.561		
1,466.6	1,466.6	1,466.8	1,466.8	4.7	4.7	-89.59	0.4	-59.9	59.9	50.7	9.25	6.481 CC		
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.59	0.4	-59.9	59.9	50.6	9.30	6.442 ES		
1,600.0	1,600.0	1,598.2	1,598.2	4.9	4.9	-139.76	1.1	-61.5	62.5	52.9	9.58	6.526		
1,700.0	1,699.9	1,695.8	1,695.7	5.0	5.1	-140.19	2.9	-66.1	70.3	60.3	10.02	7.017		
1,800.0	1,799.7	1,792.6	1,792.1	5.2	5.3	-140.71	6.0	-73.8	83.2	72.7	10.47	7.948		
1,900.0	1,899.3	1,888.1	1,887.0	5.5	5.6	-141.20	10.3	-84.3	101.1	90.2	10.93	9.254		
2,000.0	1,998.6	1,985.3	1,983.2	5.7	5.8	-141.84	15.3	-96.8	122.9	111.6	11.38	10.804		
2,033.3	2,031.6	2,017.7	2,015.3	5.8	5.9	-142.15	17.0	-101.0	130.7	119.2	11.50	11.364		
2,100.0	2,097.6	2,082.4	2,079.4	5.9	6.0	-152.41	20.4	-109.3	146.7	135.0	11.78	12.458		
2,158.1	2,155.2	2,138.7	2,135.0	6.0	6.2	-160.87	23.3	-116.6	161.3	149.3	12.03	13.409		
2,200.0	2,196.7	2,179.2	2,175.2	6.1	6.3	-160.68	25.4	-121.8	172.0	159.8	12.21	14.087		
2,300.0	2,295.7	2,275.8	2,270.9	6.4	6.6	-160.30	30.5	-134.3	197.6	184.9	12.74	15.511		
2,400.0	2,394.7	2,372.5	2,366.6	6.7	6.9	-160.02	35.5	-146.8	223.2	209.9	13.29	16.790		
2,500.0	2,493.7	2,469.2	2,462.3	7.0	7.2	-159.79	40.5	-159.2	248.7	234.9	13.87	17.937		
2,600.0	2,592.8	2,565.9	2,558.1	7.3	7.5	-159.60	45.6	-171.7	274.3	259.9	14.46	18.968		
2,700.0	2,691.8	2,662.5	2,653.8	7.7	7.8	-159.45	50.6	-184.2	299.9	284.8	15.07	19.894		
2,800.0	2,790.8	2,759.2	2,749.5	8.0	8.2	-159.32	55.7	-196.6	325.5	309.8	15.70	20.728		
2,900.0	2,889.9	2,855.9	2,845.3	8.4	8.5	-159.21	60.7	-209.1	351.1	334.7	16.34	21.481		
3,000.0	2,988.9	2,952.5	2,941.0	8.7	8.9	-159.12	65.7	-221.6	376.7	359.7	17.00	22.161		
3,100.0	3,087.9	3,049.2	3,036.7	9.1	9.2	-159.03	70.8	-234.1	402.2	384.6	17.66	22.777		
3,200.0	3,186.9	3,145.9	3,132.5	9.5	9.6	-158.96	75.8	-246.5	427.8	409.5	18.33	23.337		
3,300.0	3,286.0	3,242.5	3,228.2	9.9	10.0	-158.89	80.9	-259.0	453.4	434.4	19.01	23.847		
3,400.0	3,385.0	3,339.2	3,323.9	10.3	10.3	-158.84	85.9	-271.5	479.0	459.3	19.70	24.312		
3,500.0	3,484.0	3,435.9	3,419.6	10.7	10.7	-158.78	90.9	-284.0	504.6	484.2	20.40	24.737		
3,600.0	3,583.0	3,533.1	3,515.9	11.1	11.1	-158.74	96.0	-296.5	530.2	509.1	21.09	25.142		
3,700.0	3,682.1	3,639.2	3,621.1	11.4	11.5	-158.73	101.1	-309.2	554.9	533.0	21.84	25.405		
3,800.0	3,781.1	3,746.3	3,727.5	11.8	11.9	-158.81	105.6	-320.2	577.9	555.3	22.60	25.565		
3,900.0	3,880.1	3,854.1	3,834.9	12.2	12.3	-158.96	109.3	-329.4	599.2	575.8	23.36	25.654		
4,000.0	3,979.1	3,962.8	3,943.3	12.7	12.6	-159.18	112.3	-336.7	618.8	594.7	24.10	25.681		
4,100.0	4,078.2	4,072.1	4,052.4	13.1	13.0	-159.46	114.5	-342.2	636.8	612.0	24.82	25.658		
4,200.0	4,177.2	4,182.0	4,162.3	13.5	13.3	-159.80	115.9	-345.7	653.0	627.5	25.51	25.596		
4,300.0	4,276.2	4,292.5	4,272.8	13.9	13.6	-160.20	116.6	-347.3	667.5	641.3	26.16	25.520		
4,400.0	4,375.3	4,395.2	4,375.5	14.3	13.7	-160.61	116.6	-347.4	680.7	654.1	26.62	25.575		
4,500.0	4,474.3	4,494.2	4,474.5	14.7	13.7	-160.99	116.6	-347.4	693.9	666.8	27.07	25.630		
4,600.0	4,573.3	4,593.2	4,573.5	15.1	13.8	-161.35	116.6	-347.4	707.1	679.5	27.54	25.676		
4,700.0	4,672.3	4,692.3	4,672.5	15.5	13.9	-161.71	116.6	-347.4	720.3	692.3	28.01	25.715		
4,800.0	4,771.4	4,791.3	4,771.6	15.9	13.9	-162.05	116.6	-347.4	733.5	705.0	28.49	25.748		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
4,900.0	4,870.4	4,890.3	4,870.6	16.4	14.0	-162.38	116.6	-347.4	746.8	717.8	28.97		
5,000.0	4,969.4	4,989.3	4,969.6	16.8	14.0	-162.69	116.6	-347.4	760.1	730.6	29.46		
5,081.4	5,050.0	5,069.9	5,050.2	17.1	14.1	-162.94	116.6	-347.4	770.9	741.0	29.86		
5,100.0	5,068.4	5,088.4	5,068.6	17.2	14.1	-163.01	116.6	-347.4	773.3	743.4	29.94		
5,200.0	5,167.6	5,187.6	5,167.8	17.6	14.2	-163.31	116.6	-347.4	785.5	755.1	30.45		
5,300.0	5,267.0	5,287.0	5,267.2	18.0	14.2	-163.57	116.6	-347.4	796.1	765.2	30.93		
5,400.0	5,366.6	5,386.5	5,366.8	18.4	14.3	-163.78	116.6	-347.4	805.0	773.6	31.40		
5,500.0	5,466.3	5,486.2	5,466.5	18.7	14.3	-163.95	116.6	-347.4	812.2	780.3	31.85		
5,600.0	5,566.1	5,586.1	5,566.3	19.1	14.4	-164.08	116.6	-347.4	817.8	785.5	32.29		
5,700.0	5,666.1	5,686.0	5,666.3	19.4	14.5	-164.17	116.6	-347.4	821.6	788.9	32.69		
5,800.0	5,766.0	5,786.0	5,766.2	19.7	14.5	-164.22	116.6	-347.4	823.8	790.8	33.06		
5,881.4	5,847.4	5,867.3	5,847.6	19.8	14.6	-96.23	116.6	-347.4	824.4	791.2	33.23		
5,900.0	5,866.0	5,886.0	5,866.2	19.8	14.6	-96.23	116.6	-347.4	824.4	791.2	33.24		
6,000.0	5,966.0	5,986.0	5,966.2	19.9	14.7	-96.23	116.6	-347.4	824.4	791.0	33.36		
6,100.0	6,066.0	6,086.0	6,066.2	19.9	14.7	-96.23	116.6	-347.4	824.4	790.9	33.46		
6,200.0	6,166.0	6,186.0	6,166.2	20.0	14.8	-96.23	116.6	-347.4	824.4	790.8	33.56		
6,300.0	6,266.0	6,286.0	6,266.2	20.0	14.8	-96.23	116.6	-347.4	824.4	790.7	33.67		
6,400.0	6,366.0	6,386.0	6,366.2	20.0	14.9	-96.23	116.6	-347.4	824.4	790.6	33.77		
6,500.0	6,466.0	6,486.0	6,466.2	20.1	15.0	-96.23	116.6	-347.4	824.4	790.5	33.88		
6,600.0	6,566.0	6,586.0	6,566.2	20.1	15.0	-96.23	116.6	-347.4	824.4	790.4	33.99		
6,700.0	6,666.0	6,686.0	6,666.2	20.2	15.1	-96.23	116.6	-347.4	824.4	790.3	34.09		
6,800.0	6,766.0	6,786.0	6,766.2	20.2	15.2	-96.23	116.6	-347.4	824.4	790.2	34.20		
6,900.0	6,866.0	6,886.0	6,866.2	20.3	15.2	-96.23	116.6	-347.4	824.4	790.1	34.31		
7,000.0	6,966.0	6,986.0	6,966.2	20.3	15.3	-96.23	116.6	-347.4	824.4	790.0	34.42		
7,100.0	7,066.0	7,086.0	7,066.2	20.4	15.3	-96.23	116.6	-347.4	824.4	789.9	34.52		
7,200.0	7,166.0	7,186.0	7,166.2	20.4	15.4	-96.23	116.6	-347.4	824.4	789.8	34.63		
7,300.0	7,266.0	7,286.0	7,266.2	20.5	15.5	-96.23	116.6	-347.4	824.4	789.7	34.74		
7,400.0	7,366.0	7,386.0	7,366.2	20.5	15.5	-96.23	116.6	-347.4	824.4	789.6	34.85		
7,500.0	7,466.0	7,486.0	7,466.2	20.5	15.6	-96.23	116.6	-347.4	824.4	789.4	34.96		
7,600.0	7,566.0	7,586.0	7,566.2	20.6	15.7	-96.23	116.6	-347.4	824.4	789.3	35.07		
7,700.0	7,666.0	7,686.0	7,666.2	20.6	15.7	-96.23	116.6	-347.4	824.4	789.2	35.18		
7,800.0	7,766.0	7,786.0	7,766.2	20.7	15.8	-96.23	116.6	-347.4	824.4	789.1	35.29		
7,900.0	7,866.0	7,886.0	7,866.2	20.7	15.9	-96.23	116.6	-347.4	824.4	789.0	35.41		
8,000.0	7,966.0	7,986.0	7,966.2	20.8	15.9	-96.23	116.6	-347.4	824.4	788.9	35.52		
8,100.0	8,066.0	8,086.0	8,066.2	20.8	16.0	-96.23	116.6	-347.4	824.4	788.8	35.63		
8,200.0	8,166.0	8,186.0	8,166.2	20.9	16.1	-96.23	116.6	-347.4	824.4	788.7	35.74		
8,300.0	8,266.0	8,286.0	8,266.2	20.9	16.1	-96.23	116.6	-347.4	824.4	788.5	35.86		
8,400.0	8,366.0	8,386.0	8,366.2	21.0	16.2	-96.23	116.6	-347.4	824.4	788.4	35.97		
8,500.0	8,466.0	8,486.0	8,466.2	21.0	16.3	-96.23	116.6	-347.4	824.4	788.3	36.08		
8,600.0	8,566.0	8,586.0	8,566.2	21.1	16.3	-96.23	116.6	-347.4	824.4	788.2	36.20		
8,700.0	8,666.0	8,686.0	8,666.2	21.1	16.4	-96.23	116.6	-347.4	824.4	788.1	36.31		
8,800.0	8,766.0	8,786.0	8,766.2	21.2	16.5	-96.23	116.6	-347.4	824.4	788.0	36.43		
8,900.0	8,866.0	8,886.0	8,866.2	21.2	16.5	-96.23	116.6	-347.4	824.4	787.9	36.54		
9,000.0	8,966.0	8,986.0	8,966.2	21.3	16.6	-96.23	116.6	-347.4	824.4	787.7	36.66		
9,100.0	9,066.0	9,086.0	9,066.2	21.3	16.7	-96.23	116.6	-347.4	824.4	787.6	36.77		
9,200.0	9,166.0	9,186.0	9,166.2	21.4	16.7	-96.23	116.6	-347.4	824.4	787.5	36.89		
9,300.0	9,266.0	9,286.0	9,266.2	21.4	16.8	-96.23	116.6	-347.4	824.4	787.4	37.01		
9,400.0	9,366.0	9,386.0	9,366.2	21.5	16.9	-96.23	116.6	-347.4	824.4	787.3	37.12		
9,500.0	9,466.0	9,486.0	9,466.2	21.5	16.9	-96.23	116.6	-347.4	824.4	787.2	37.24		
9,600.0	9,566.0	9,586.0	9,566.2	21.6	17.0	-96.23	116.6	-347.4	824.4	787.0	37.36		
9,700.0	9,666.0	9,686.0	9,666.2	21.6	17.1	-96.23	116.6	-347.4	824.4	786.9	37.48		
9,800.0	9,766.0	9,786.0	9,766.2	21.7	17.1	-96.23	116.6	-347.4	824.4	786.8	37.59		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.0	9,866.0	9,886.0	9,866.2	21.7	17.2	-96.23	116.6	-347.4	824.4	786.7	37.71	21.860	
10,000.0	9,966.0	9,986.0	9,966.2	21.8	17.3	-96.23	116.6	-347.4	824.4	786.6	37.83	21.792	
10,100.0	10,066.0	10,086.0	10,066.2	21.8	17.3	-96.23	116.6	-347.4	824.4	786.5	37.95	21.723	
10,200.0	10,166.0	10,186.0	10,166.2	21.9	17.4	-96.23	116.6	-347.4	824.4	786.3	38.07	21.655	
10,300.0	10,266.0	10,286.0	10,266.2	21.9	17.5	-96.23	116.6	-347.4	824.4	786.2	38.19	21.587	
10,400.0	10,366.0	10,386.0	10,366.2	22.0	17.5	-96.23	116.6	-347.4	824.4	786.1	38.31	21.519	
10,500.0	10,466.0	10,486.0	10,466.2	22.0	17.6	-96.23	116.6	-347.4	824.4	786.0	38.43	21.452	
10,600.0	10,566.0	10,586.0	10,566.2	22.1	17.7	-96.23	116.6	-347.4	824.4	785.9	38.55	21.385	
10,700.0	10,666.0	10,686.0	10,666.2	22.1	17.7	-96.23	116.6	-347.4	824.4	785.7	38.67	21.318	
10,800.0	10,766.0	10,786.0	10,766.2	22.2	17.8	-96.23	116.6	-347.4	824.4	785.6	38.79	21.251	
10,900.0	10,866.0	10,886.0	10,866.2	22.2	17.9	-96.23	116.6	-347.4	824.4	785.5	38.92	21.185	
11,000.0	10,966.0	10,986.0	10,966.2	22.3	17.9	-96.23	116.6	-347.4	824.4	785.4	39.04	21.119	
11,100.0	11,066.0	11,086.0	11,066.2	22.3	18.0	-96.23	116.6	-347.4	824.4	785.2	39.16	21.053	
11,164.0	11,130.0	11,150.0	11,130.2	22.4	18.0	-96.23	116.6	-347.4	824.4	785.2	39.21	21.026	
11,200.0	11,166.0	11,192.4	11,172.6	22.4	18.1	-96.05	118.2	-347.4	824.4	785.2	39.23	21.013	
11,250.0	11,215.7	11,251.2	11,231.0	22.4	18.1	-95.98	125.6	-347.5	824.3	785.0	39.26	20.995	
11,300.0	11,264.8	11,309.9	11,288.1	22.4	18.1	-95.85	138.8	-347.5	824.1	784.8	39.29	20.976	
11,350.0	11,312.8	11,368.2	11,343.2	22.4	18.1	-95.68	157.7	-347.6	823.9	784.6	39.32	20.955	
11,400.0	11,359.4	11,426.2	11,395.9	22.4	18.2	-95.45	182.0	-347.7	823.6	784.2	39.34	20.933	
11,450.0	11,404.3	11,483.7	11,445.4	22.5	18.2	-95.18	211.2	-347.8	823.2	783.8	39.37	20.909	
11,500.0	11,447.1	11,540.7	11,491.3	22.5	18.2	-94.86	244.9	-347.9	822.8	783.4	39.40	20.885	
11,550.0	11,487.5	11,597.1	11,533.3	22.5	18.3	-94.51	282.5	-348.0	822.4	783.0	39.43	20.859	
11,600.0	11,525.1	11,652.8	11,570.9	22.5	18.3	-94.12	323.6	-348.1	822.0	782.6	39.46	20.830	
11,650.0	11,559.8	11,707.8	11,603.9	22.6	18.3	-93.69	367.5	-348.3	821.6	782.1	39.51	20.797	
11,700.0	11,591.2	11,762.1	11,632.3	22.6	18.4	-93.24	413.8	-348.4	821.2	781.7	39.56	20.759	
11,750.0	11,619.1	11,815.7	11,655.8	22.6	18.4	-92.77	461.9	-348.6	820.9	781.3	39.63	20.716	
11,800.0	11,643.2	11,868.5	11,674.6	22.7	18.5	-92.28	511.3	-348.8	820.6	780.9	39.71	20.666	
11,850.0	11,663.5	11,920.7	11,688.5	22.7	18.5	-91.77	561.5	-348.9	820.4	780.6	39.81	20.608	
11,900.0	11,679.7	11,972.1	11,697.7	22.7	18.6	-91.25	612.1	-349.1	820.2	780.3	39.93	20.542	
11,950.0	11,691.7	12,022.8	11,702.4	22.8	18.7	-90.73	662.5	-349.3	820.1	780.0	40.07	20.468	
12,000.0	11,699.4	12,072.6	11,703.0	22.8	18.7	-90.24	712.4	-349.4	820.0	779.8	40.23	20.385	
12,003.3	11,699.8	12,076.0	11,703.0	22.9	18.7	-90.21	715.8	-349.4	820.0	779.8	40.24	20.379	
12,050.0	11,702.8	12,122.5	11,703.0	22.9	18.8	-90.00	762.3	-349.6	820.1	779.6	40.41	20.291	
12,064.0	11,703.0	12,136.5	11,703.0	22.9	18.9	-89.99	776.3	-349.6	820.1	779.6	40.47	20.263	
12,100.0	11,703.0	12,172.5	11,703.0	23.0	18.9	-89.99	812.3	-349.7	820.1	779.5	40.62	20.189	
12,200.0	11,703.0	12,272.5	11,703.0	23.1	19.1	-89.99	912.3	-350.1	820.1	779.0	41.08	19.963	
12,300.0	11,703.0	12,372.5	11,703.0	23.3	19.4	-89.99	1,012.3	-350.4	820.2	778.6	41.59	19.718	
12,400.0	11,703.0	12,472.5	11,703.0	23.5	19.6	-89.99	1,112.3	-350.7	820.2	778.0	42.15	19.457	
12,500.0	11,703.0	12,572.5	11,703.0	23.7	19.9	-89.99	1,212.3	-351.1	820.2	777.5	42.76	19.182	
12,600.0	11,703.0	12,672.5	11,703.0	23.9	20.3	-89.99	1,312.3	-351.4	820.3	776.9	43.41	18.895	
12,700.0	11,703.0	12,772.5	11,703.0	24.2	20.6	-89.99	1,412.3	-351.7	820.3	776.2	44.11	18.599	
12,800.0	11,703.0	12,872.5	11,703.0	24.5	21.0	-89.99	1,512.3	-352.1	820.3	775.5	44.84	18.295	
12,900.0	11,703.0	12,972.5	11,703.0	24.8	21.4	-89.99	1,612.3	-352.4	820.4	774.8	45.61	17.987	
13,000.0	11,703.0	13,072.5	11,703.0	25.1	21.9	-89.99	1,712.3	-352.7	820.4	774.0	46.42	17.674	
13,100.0	11,703.0	13,172.5	11,703.0	25.5	22.3	-89.99	1,812.3	-353.1	820.5	773.2	47.26	17.360	
13,200.0	11,703.0	13,272.5	11,703.0	25.9	22.8	-89.99	1,912.3	-353.4	820.5	772.4	48.14	17.045	
13,300.0	11,703.0	13,372.5	11,703.0	26.3	23.2	-89.99	2,012.3	-353.7	820.5	771.5	49.04	16.731	
13,400.0	11,703.0	13,472.5	11,703.0	26.7	23.7	-89.99	2,112.3	-354.1	820.6	770.6	49.98	16.418	
13,500.0	11,703.0	13,572.5	11,703.0	27.1	24.3	-89.99	2,212.3	-354.4	820.6	769.7	50.94	16.108	
13,600.0	11,703.0	13,672.5	11,703.0	27.6	24.8	-89.99	2,312.3	-354.7	820.7	768.7	51.93	15.802	
13,700.0	11,703.0	13,772.5	11,703.0	28.0	25.3	-89.99	2,412.3	-355.1	820.7	767.8	52.95	15.500	
13,800.0	11,703.0	13,872.5	11,703.0	28.5	25.9	-89.99	2,512.3	-355.4	820.7	766.8	53.98	15.203	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.0	11,703.0	13,972.5	11,703.0	29.0	26.4	-89.99	2,612.3	-355.7	820.8	765.7	55.04	14.912	
14,000.0	11,703.0	14,072.5	11,703.0	29.5	27.0	-89.99	2,712.3	-356.0	820.8	764.7	56.12	14.625	
14,100.0	11,703.0	14,172.5	11,703.0	30.0	27.6	-89.99	2,812.3	-356.4	820.9	763.6	57.22	14.345	
14,200.0	11,703.0	14,272.5	11,703.0	30.5	28.2	-89.99	2,912.3	-356.7	820.9	762.6	58.34	14.071	
14,300.0	11,703.0	14,372.5	11,703.0	31.1	28.8	-89.99	3,012.3	-357.0	820.9	761.5	59.47	13.803	
14,400.0	11,703.0	14,472.5	11,703.0	31.6	29.4	-89.99	3,112.3	-357.4	821.0	760.4	60.63	13.542	
14,500.0	11,703.0	14,572.5	11,703.0	32.2	30.0	-89.99	3,212.3	-357.7	821.0	759.2	61.79	13.287	
14,600.0	11,703.0	14,672.5	11,703.0	32.7	30.6	-89.99	3,312.3	-358.0	821.1	758.1	62.97	13.038	
14,700.0	11,703.0	14,772.5	11,703.0	33.3	31.3	-89.99	3,412.3	-358.4	821.1	756.9	64.17	12.796	
14,800.0	11,703.0	14,872.5	11,703.0	33.9	31.9	-89.99	3,512.3	-358.7	821.1	755.8	65.37	12.561	
14,900.0	11,703.0	14,972.5	11,703.0	34.5	32.5	-89.99	3,612.3	-359.0	821.2	754.6	66.59	12.331	
15,000.0	11,703.0	15,072.5	11,703.0	35.1	33.2	-89.99	3,712.3	-359.4	821.2	753.4	67.83	12.108	
15,100.0	11,703.0	15,172.5	11,703.0	35.7	33.8	-89.99	3,812.3	-359.7	821.3	752.2	69.07	11.891	
15,200.0	11,703.0	15,272.5	11,703.0	36.3	34.5	-89.99	3,912.3	-360.0	821.3	751.0	70.32	11.679	
15,300.0	11,703.0	15,372.5	11,703.0	36.9	35.1	-89.99	4,012.3	-360.4	821.3	749.8	71.58	11.474	
15,400.0	11,703.0	15,472.5	11,703.0	37.5	35.8	-89.99	4,112.3	-360.7	821.4	748.5	72.85	11.274	
15,500.0	11,703.0	15,572.5	11,703.0	38.2	36.5	-89.99	4,212.3	-361.0	821.4	747.3	74.14	11.080	
15,600.0	11,703.0	15,672.5	11,703.0	38.8	37.1	-89.99	4,312.3	-361.4	821.5	746.0	75.42	10.891	
15,700.0	11,703.0	15,772.5	11,703.0	39.4	37.8	-89.99	4,412.3	-361.7	821.5	744.8	76.72	10.708	
15,800.0	11,703.0	15,872.5	11,703.0	40.1	38.5	-89.99	4,512.3	-362.0	821.5	743.5	78.03	10.529	
15,900.0	11,703.0	15,972.5	11,703.0	40.7	39.2	-89.99	4,612.3	-362.3	821.6	742.2	79.34	10.355	
16,000.0	11,703.0	16,072.5	11,703.0	41.4	39.9	-89.99	4,712.3	-362.7	821.6	741.0	80.66	10.187	
16,100.0	11,703.0	16,172.5	11,703.0	42.0	40.6	-89.99	4,812.3	-363.0	821.7	739.7	81.98	10.023	
16,200.0	11,703.0	16,272.5	11,703.0	42.7	41.2	-89.99	4,912.3	-363.3	821.7	738.4	83.31	9.863	
16,300.0	11,703.0	16,372.5	11,703.0	43.4	41.9	-89.99	5,012.3	-363.7	821.7	737.1	84.65	9.708	
16,400.0	11,703.0	16,472.5	11,703.0	44.0	42.6	-89.99	5,112.3	-364.0	821.8	735.8	85.99	9.556	
16,500.0	11,703.0	16,572.5	11,703.0	44.7	43.3	-89.99	5,212.3	-364.3	821.8	734.5	87.34	9.409	
16,600.0	11,703.0	16,672.5	11,703.0	45.4	44.0	-89.99	5,312.3	-364.7	821.8	733.2	88.69	9.266	
16,700.0	11,703.0	16,772.5	11,703.0	46.0	44.7	-89.99	5,412.3	-365.0	821.9	731.8	90.05	9.127	
16,800.0	11,703.0	16,872.5	11,703.0	46.7	45.4	-89.99	5,512.3	-365.3	821.9	730.5	91.41	8.991	
16,900.0	11,703.0	16,972.5	11,703.0	47.4	46.1	-89.99	5,612.3	-365.7	822.0	729.2	92.78	8.859	
17,000.0	11,703.0	17,072.5	11,703.0	48.1	46.8	-89.99	5,712.3	-366.0	822.0	727.9	94.15	8.731	
17,100.0	11,703.0	17,172.5	11,703.0	48.8	47.5	-89.99	5,812.3	-366.3	822.0	726.5	95.53	8.605	
17,200.0	11,703.0	17,272.5	11,703.0	49.5	48.3	-89.99	5,912.3	-366.7	822.1	725.2	96.91	8.483	
17,300.0	11,703.0	17,372.5	11,703.0	50.1	49.0	-89.99	6,012.3	-367.0	822.1	723.8	98.29	8.364	
17,400.0	11,703.0	17,472.5	11,703.0	50.8	49.7	-89.99	6,112.3	-367.3	822.2	722.5	99.68	8.248	
17,500.0	11,703.0	17,572.5	11,703.0	51.5	50.4	-89.99	6,212.3	-367.7	822.2	721.1	101.07	8.135	
17,600.0	11,703.0	17,672.5	11,703.0	52.2	51.1	-89.99	6,312.3	-368.0	822.2	719.8	102.46	8.025	
17,700.0	11,703.0	17,772.5	11,703.0	52.9	51.8	-89.99	6,412.3	-368.3	822.3	718.4	103.86	7.918	
17,800.0	11,703.0	17,872.5	11,703.0	53.6	52.6	-89.99	6,512.3	-368.6	822.3	717.1	105.25	7.813	
17,900.0	11,703.0	17,972.5	11,703.0	54.3	53.3	-89.99	6,612.3	-369.0	822.4	715.7	106.66	7.710	
18,000.0	11,703.0	18,072.5	11,703.0	55.0	54.0	-89.99	6,712.3	-369.3	822.4	714.3	108.06	7.610	
18,100.0	11,703.0	18,172.5	11,703.0	55.7	54.7	-89.99	6,812.3	-369.6	822.4	713.0	109.47	7.513	
18,200.0	11,703.0	18,272.5	11,703.0	56.4	55.4	-89.99	6,912.3	-370.0	822.5	711.6	110.88	7.418	
18,300.0	11,703.0	18,372.5	11,703.0	57.2	56.2	-89.99	7,012.3	-370.3	822.5	710.2	112.29	7.325	
18,400.0	11,703.0	18,472.5	11,703.0	57.9	56.9	-89.99	7,112.3	-370.6	822.6	708.9	113.71	7.234	
18,500.0	11,703.0	18,572.5	11,703.0	58.6	57.6	-89.99	7,212.3	-371.0	822.6	707.5	115.13	7.145	
18,600.0	11,703.0	18,672.5	11,703.0	59.3	58.3	-89.99	7,312.3	-371.3	822.6	706.1	116.55	7.058	
18,700.0	11,703.0	18,772.5	11,703.0	60.0	59.1	-89.99	7,412.2	-371.6	822.7	704.7	117.97	6.974	
18,800.0	11,703.0	18,872.5	11,703.0	60.7	59.8	-89.99	7,512.2	-372.0	822.7	703.3	119.39	6.891	
18,900.0	11,703.0	18,972.5	11,703.0	61.4	60.5	-89.99	7,612.2	-372.3	822.8	701.9	120.82	6.810	
19,000.0	11,703.0	19,072.5	11,703.0	62.1	61.3	-89.99	7,712.2	-372.6	822.8	700.6	122.25	6.731	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11150-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,100.0	11,703.0	19,172.5	11,703.0	62.9	62.0	-89.99	7,812.2	-373.0	822.8	699.2	123.68	6.653	
19,200.0	11,703.0	19,272.5	11,703.0	63.6	62.7	-89.99	7,912.2	-373.3	822.9	697.8	125.11	6.577	
19,300.0	11,703.0	19,372.5	11,703.0	64.3	63.5	-89.99	8,012.2	-373.6	822.9	696.4	126.54	6.503	
19,400.0	11,703.0	19,472.5	11,703.0	65.0	64.2	-89.99	8,112.2	-374.0	823.0	695.0	127.98	6.431	
19,500.0	11,703.0	19,572.5	11,703.0	65.7	64.9	-89.99	8,212.2	-374.3	823.0	693.6	129.41	6.359	
19,600.0	11,703.0	19,672.5	11,703.0	66.5	65.7	-89.99	8,312.2	-374.6	823.0	692.2	130.85	6.290	
19,700.0	11,703.0	19,772.5	11,703.0	67.2	66.4	-89.99	8,412.2	-374.9	823.1	690.8	132.29	6.222	
19,800.0	11,703.0	19,872.5	11,703.0	67.9	67.1	-89.99	8,512.2	-375.3	823.1	689.4	133.73	6.155	
19,900.0	11,703.0	19,972.5	11,703.0	68.6	67.9	-89.99	8,612.2	-375.6	823.2	688.0	135.17	6.090	
20,000.0	11,703.0	20,072.5	11,703.0	69.4	68.6	-89.99	8,712.2	-375.9	823.2	686.6	136.62	6.026	
20,100.0	11,703.0	20,172.5	11,703.0	70.1	69.4	-89.99	8,812.2	-376.3	823.2	685.2	138.06	5.963	
20,200.0	11,703.0	20,272.5	11,703.0	70.8	70.1	-89.99	8,912.2	-376.6	823.3	683.8	139.51	5.901	
20,300.0	11,703.0	20,372.5	11,703.0	71.6	70.8	-89.99	9,012.2	-376.9	823.3	682.4	140.96	5.841	
20,400.0	11,703.0	20,472.5	11,703.0	72.3	71.6	-89.99	9,112.2	-377.3	823.3	680.9	142.41	5.782	
20,500.0	11,703.0	20,572.5	11,703.0	73.0	72.3	-89.99	9,212.2	-377.6	823.4	679.5	143.86	5.724	
20,600.0	11,703.0	20,672.5	11,703.0	73.7	73.0	-89.99	9,312.2	-377.9	823.4	678.1	145.31	5.667	
20,700.0	11,703.0	20,772.5	11,703.0	74.5	73.8	-89.99	9,412.2	-378.3	823.5	676.7	146.76	5.611	
20,800.0	11,703.0	20,872.5	11,703.0	75.2	74.5	-89.99	9,512.2	-378.6	823.5	675.3	148.21	5.556	
20,900.0	11,703.0	20,972.5	11,703.0	75.9	75.3	-89.99	9,612.2	-378.9	823.5	673.9	149.67	5.503	
21,000.0	11,703.0	21,072.5	11,703.0	76.7	76.0	-89.99	9,712.2	-379.3	823.6	672.5	151.12	5.450	
21,100.0	11,703.0	21,172.5	11,703.0	77.4	76.8	-89.99	9,812.2	-379.6	823.6	671.0	152.58	5.398	
21,200.0	11,703.0	21,272.5	11,703.0	78.1	77.5	-89.99	9,912.2	-379.9	823.7	669.6	154.04	5.347	
21,300.0	11,703.0	21,372.5	11,703.0	78.9	78.2	-89.99	10,012.2	-380.3	823.7	668.2	155.49	5.297	
21,400.0	11,703.0	21,472.5	11,703.0	79.6	79.0	-89.99	10,112.2	-380.6	823.7	666.8	156.95	5.248	
21,500.0	11,703.0	21,572.5	11,703.0	80.3	79.7	-89.99	10,212.2	-380.9	823.8	665.4	158.41	5.200	
21,600.0	11,703.0	21,672.5	11,703.0	81.1	80.5	-89.99	10,312.2	-381.2	823.8	663.9	159.87	5.153	
21,700.0	11,703.0	21,772.5	11,703.0	81.8	81.2	-89.99	10,412.2	-381.6	823.9	662.5	161.34	5.106	
21,800.0	11,703.0	21,872.5	11,703.0	82.6	82.0	-89.99	10,512.2	-381.9	823.9	661.1	162.80	5.061	
21,900.0	11,703.0	21,972.5	11,703.0	83.3	82.7	-89.99	10,612.2	-382.2	823.9	659.7	164.26	5.016	
21,991.7	11,703.0	22,064.3	11,703.0	84.0	83.4	-89.99	10,704.0	-382.5	824.0	658.4	165.60	4.976	
22,000.0	11,703.0	22,072.5	11,703.0	84.0	83.5	-89.99	10,712.2	-382.6	824.0	658.3	165.72	4.972	
22,041.7	11,703.0	22,113.0	11,703.0	84.3	83.8	-89.99	10,752.7	-382.7	824.0	657.7	166.32	4.954 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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-89.33	0.3	-30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	-89.33	0.3	-30.0	30.0	23.4	6.52	4.595	
200.0	200.0	200.0	200.0	3.2	3.2	-89.33	0.3	-30.0	30.0	23.2	6.76	4.432	
300.0	300.0	300.0	300.0	3.3	3.3	-89.33	0.3	-30.0	30.0	23.0	6.99	4.285	
400.0	400.0	400.0	400.0	3.4	3.4	-89.33	0.3	-30.0	30.0	22.7	7.21	4.153	
500.0	500.0	500.0	500.0	3.5	3.5	-89.33	0.3	-30.0	30.0	22.5	7.43	4.032	
600.0	600.0	600.0	600.0	3.7	3.7	-89.33	0.3	-30.0	30.0	22.3	7.64	3.922	
700.0	700.0	700.0	700.0	3.8	3.8	-89.33	0.3	-30.0	30.0	22.1	7.84	3.820	
800.0	800.0	800.0	800.0	3.9	3.9	-89.33	0.3	-30.0	30.0	21.9	8.04	3.726	
900.0	900.0	900.0	900.0	4.0	4.0	-89.33	0.3	-30.0	30.0	21.7	8.23	3.638	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	-89.33	0.3	-30.0	30.0	21.5	8.42	3.557	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	-89.33	0.3	-30.0	30.0	21.4	8.61	3.481	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-89.33	0.3	-30.0	30.0	21.2	8.79	3.410	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-89.33	0.3	-30.0	30.0	21.0	8.96	3.343	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-89.33	0.3	-30.0	30.0	20.8	9.13	3.280	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.33	0.3	-30.0	30.0	20.7	9.30	3.220	
1,600.0	1,600.0	1,600.7	1,600.7	4.9	4.9	-138.51	1.6	-28.7	29.8	20.2	9.54	3.118	
1,700.0	1,699.9	1,701.4	1,701.2	5.0	5.1	-135.97	5.4	-25.0	29.2	19.2	9.93	2.938	
1,793.5	1,793.2	1,795.2	1,794.7	5.2	5.2	-132.48	11.0	-19.7	28.6	18.4	10.17	2.811 CC	
1,800.0	1,799.7	1,801.6	1,801.1	5.2	5.3	-132.31	11.4	-19.3	28.6	18.4	10.19	2.806 ES	
1,900.0	1,899.3	1,901.6	1,900.7	5.5	5.5	-131.80	17.7	-13.2	29.6	19.0	10.56	2.802	
2,000.0	1,998.6	2,001.6	2,000.3	5.7	5.7	-134.79	24.0	-7.2	32.4	21.4	10.98	2.947	
2,033.3	2,031.6	2,034.9	2,033.5	5.8	5.8	-136.36	26.1	-5.1	33.7	22.6	11.11	3.038	
2,100.0	2,097.6	2,101.4	2,099.8	5.9	5.9	-148.03	30.2	-1.1	37.2	25.8	11.39	3.265	
2,158.1	2,155.2	2,159.4	2,157.5	6.0	6.1	-156.39	33.9	2.4	40.9	29.3	11.61	3.520	
2,200.0	2,196.7	2,201.2	2,199.2	6.1	6.2	-155.93	36.5	4.9	43.8	32.0	11.76	3.721	
2,300.0	2,295.7	2,301.0	2,298.6	6.4	6.5	-155.02	42.7	11.0	50.7	38.5	12.21	4.149	
2,400.0	2,394.7	2,400.7	2,397.9	6.7	6.7	-154.34	49.0	17.0	57.6	44.9	12.68	4.542	
2,500.0	2,493.7	2,500.5	2,497.3	7.0	7.0	-153.80	55.2	23.0	64.5	51.4	13.17	4.901	
2,600.0	2,592.8	2,600.2	2,596.7	7.3	7.3	-153.37	61.5	29.1	71.5	57.8	13.66	5.230	
2,700.0	2,691.8	2,700.0	2,696.1	7.7	7.6	-153.01	67.8	35.1	78.4	64.2	14.17	5.532	
2,800.0	2,790.8	2,799.8	2,795.5	8.0	8.0	-152.71	74.0	41.2	85.3	70.6	14.69	5.810	
2,900.0	2,889.9	2,899.5	2,894.8	8.4	8.3	-152.46	80.3	47.2	92.3	77.1	15.21	6.065	
3,000.0	2,988.9	2,998.6	2,993.6	8.7	8.6	-152.39	86.2	53.0	99.4	83.7	15.70	6.331	
3,100.0	3,087.9	3,097.2	3,091.9	9.1	8.9	-152.98	91.1	57.6	107.6	91.3	16.29	6.602	
3,200.0	3,186.9	3,195.5	3,190.1	9.5	9.2	-154.14	94.7	61.1	116.8	99.9	16.93	6.901	
3,300.0	3,286.0	3,293.5	3,288.1	9.9	9.5	-155.69	97.0	63.4	127.2	109.6	17.60	7.230	
3,400.0	3,385.0	3,391.2	3,385.7	10.3	9.7	-157.52	98.2	64.5	138.9	120.6	18.29	7.596	
3,500.0	3,484.0	3,489.4	3,484.0	10.7	9.8	-159.46	98.3	64.7	151.7	132.8	18.90	8.028	
3,600.0	3,583.0	3,588.5	3,583.0	11.1	9.9	-161.15	98.3	64.7	164.8	145.3	19.52	8.445	
3,700.0	3,682.1	3,687.5	3,682.0	11.4	10.0	-162.60	98.3	64.7	178.1	158.0	20.13	8.846	
3,800.0	3,781.1	3,786.5	3,781.1	11.8	10.0	-163.84	98.3	64.7	191.4	170.7	20.73	9.232	
3,900.0	3,880.1	3,885.6	3,880.1	12.2	10.1	-164.93	98.3	64.7	204.8	183.5	21.33	9.604	
4,000.0	3,979.1	3,984.6	3,979.1	12.7	10.2	-165.88	98.3	64.7	218.3	196.4	21.92	9.961	
4,100.0	4,078.2	4,083.6	4,078.1	13.1	10.3	-166.71	98.3	64.7	231.8	209.3	22.50	10.304	
4,200.0	4,177.2	4,182.6	4,177.2	13.5	10.4	-167.46	98.3	64.7	245.4	222.3	23.08	10.632	
4,300.0	4,276.2	4,281.7	4,276.2	13.9	10.5	-168.13	98.3	64.7	259.0	235.4	23.66	10.947	
4,400.0	4,375.3	4,380.7	4,375.2	14.3	10.5	-168.73	98.3	64.7	272.7	248.4	24.24	11.248	
4,500.0	4,474.3	4,479.7	4,474.2	14.7	10.6	-169.27	98.3	64.7	286.3	261.5	24.82	11.537	
4,600.0	4,573.3	4,578.7	4,573.3	15.1	10.7	-169.77	98.3	64.7	300.0	274.6	25.39	11.814	
4,700.0	4,672.3	4,677.8	4,672.3	15.5	10.8	-170.22	98.3	64.7	313.7	287.8	25.97	12.079	
4,800.0	4,771.4	4,776.8	4,771.3	15.9	10.9	-170.63	98.3	64.7	327.5	300.9	26.55	12.334	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,870.4	4,875.8	4,870.4	16.4	11.0	-171.01	98.3	64.7	341.2	314.1	27.13	12.577	
5,000.0	4,969.4	4,974.8	4,969.4	16.8	11.0	-171.36	98.3	64.7	355.0	327.2	27.71	12.811	
5,081.4	5,050.0	5,055.4	5,050.0	17.1	11.1	-171.63	98.3	64.7	366.2	338.0	28.17	13.000	
5,100.0	5,068.4	5,073.9	5,068.4	17.2	11.1	-171.69	98.3	64.7	368.7	340.4	28.27	13.043	
5,200.0	5,167.6	5,173.1	5,167.6	17.6	11.2	-171.99	98.3	64.7	381.3	352.4	28.85	13.218	
5,300.0	5,267.0	5,272.5	5,267.0	18.0	11.3	-172.23	98.3	64.7	392.2	362.8	29.40	13.341	
5,400.0	5,366.6	5,372.0	5,366.6	18.4	11.4	-172.42	98.3	64.7	401.4	371.4	29.93	13.410	
5,500.0	5,466.3	5,471.7	5,466.3	18.7	11.4	-172.56	98.3	64.7	408.8	378.4	30.44	13.429	
5,600.0	5,566.1	5,571.6	5,566.1	19.1	11.5	-172.68	98.3	64.7	414.6	383.6	30.93	13.404	
5,700.0	5,666.1	5,671.5	5,666.0	19.4	11.6	-172.75	98.3	64.7	418.6	387.2	31.38	13.338	
5,800.0	5,766.0	5,771.5	5,766.0	19.7	11.7	-172.79	98.3	64.7	420.8	389.1	31.79	13.240	
5,881.4	5,847.4	5,852.8	5,847.4	19.8	11.8	-104.80	98.3	64.7	421.4	389.4	31.97	13.179	
5,900.0	5,866.0	5,871.5	5,866.0	19.8	11.8	-104.80	98.3	64.7	421.4	389.4	31.99	13.174	
6,000.0	5,966.0	5,971.5	5,966.0	19.9	11.9	-104.80	98.3	64.7	421.4	389.3	32.11	13.124	
6,100.0	6,066.0	6,071.5	6,066.0	19.9	11.9	-104.80	98.3	64.7	421.4	389.2	32.22	13.078	
6,200.0	6,166.0	6,171.5	6,166.0	20.0	12.0	-104.80	98.3	64.7	421.4	389.1	32.34	13.032	
6,300.0	6,266.0	6,271.5	6,266.0	20.0	12.1	-104.80	98.3	64.7	421.4	389.0	32.45	12.986	
6,400.0	6,366.0	6,371.5	6,366.0	20.0	12.2	-104.80	98.3	64.7	421.4	388.8	32.56	12.941	
6,500.0	6,466.0	6,471.5	6,466.0	20.1	12.3	-104.80	98.3	64.7	421.4	388.7	32.68	12.895	
6,600.0	6,566.0	6,571.5	6,566.0	20.1	12.4	-104.80	98.3	64.7	421.4	388.6	32.79	12.850	
6,700.0	6,666.0	6,671.5	6,666.0	20.2	12.4	-104.80	98.3	64.7	421.4	388.5	32.91	12.805	
6,800.0	6,766.0	6,771.5	6,766.0	20.2	12.5	-104.80	98.3	64.7	421.4	388.4	33.03	12.760	
6,900.0	6,866.0	6,871.5	6,866.0	20.3	12.6	-104.80	98.3	64.7	421.4	388.3	33.14	12.716	
7,000.0	6,966.0	6,971.5	6,966.0	20.3	12.7	-104.80	98.3	64.7	421.4	388.2	33.26	12.671	
7,100.0	7,066.0	7,071.5	7,066.0	20.4	12.8	-104.80	98.3	64.7	421.4	388.0	33.37	12.627	
7,200.0	7,166.0	7,171.5	7,166.0	20.4	12.9	-104.80	98.3	64.7	421.4	387.9	33.49	12.583	
7,300.0	7,266.0	7,271.5	7,266.0	20.5	12.9	-104.80	98.3	64.7	421.4	387.8	33.61	12.539	
7,400.0	7,366.0	7,371.5	7,366.0	20.5	13.0	-104.80	98.3	64.7	421.4	387.7	33.73	12.495	
7,500.0	7,466.0	7,471.5	7,466.0	20.5	13.1	-104.80	98.3	64.7	421.4	387.6	33.85	12.451	
7,600.0	7,566.0	7,571.5	7,566.0	20.6	13.2	-104.80	98.3	64.7	421.4	387.4	33.96	12.408	
7,700.0	7,666.0	7,671.5	7,666.0	20.6	13.3	-104.80	98.3	64.7	421.4	387.3	34.08	12.364	
7,800.0	7,766.0	7,771.5	7,766.0	20.7	13.4	-104.80	98.3	64.7	421.4	387.2	34.20	12.321	
7,900.0	7,866.0	7,871.5	7,866.0	20.7	13.4	-104.80	98.3	64.7	421.4	387.1	34.32	12.278	
8,000.0	7,966.0	7,971.5	7,966.0	20.8	13.5	-104.80	98.3	64.7	421.4	387.0	34.44	12.235	
8,100.0	8,066.0	8,071.5	8,066.0	20.8	13.6	-104.80	98.3	64.7	421.4	386.8	34.56	12.193	
8,200.0	8,166.0	8,171.5	8,166.0	20.9	13.7	-104.80	98.3	64.7	421.4	386.7	34.68	12.150	
8,300.0	8,266.0	8,271.5	8,266.0	20.9	13.8	-104.80	98.3	64.7	421.4	386.6	34.80	12.108	
8,400.0	8,366.0	8,371.5	8,366.0	21.0	13.9	-104.80	98.3	64.7	421.4	386.5	34.93	12.066	
8,500.0	8,466.0	8,471.5	8,466.0	21.0	13.9	-104.80	98.3	64.7	421.4	386.4	35.05	12.024	
8,600.0	8,566.0	8,571.5	8,566.0	21.1	14.0	-104.80	98.3	64.7	421.4	386.2	35.17	11.982	
8,700.0	8,666.0	8,671.5	8,666.0	21.1	14.1	-104.80	98.3	64.7	421.4	386.1	35.29	11.941	
8,800.0	8,766.0	8,771.5	8,766.0	21.2	14.2	-104.80	98.3	64.7	421.4	386.0	35.41	11.900	
8,900.0	8,866.0	8,871.5	8,866.0	21.2	14.3	-104.80	98.3	64.7	421.4	385.9	35.54	11.858	
9,000.0	8,966.0	8,971.5	8,966.0	21.3	14.4	-104.80	98.3	64.7	421.4	385.8	35.66	11.817	
9,100.0	9,066.0	9,071.5	9,066.0	21.3	14.4	-104.80	98.3	64.7	421.4	385.6	35.78	11.777	
9,200.0	9,166.0	9,171.5	9,166.0	21.4	14.5	-104.80	98.3	64.7	421.4	385.5	35.91	11.736	
9,300.0	9,266.0	9,271.5	9,266.0	21.4	14.6	-104.80	98.3	64.7	421.4	385.4	36.03	11.696	
9,400.0	9,366.0	9,371.5	9,366.0	21.5	14.7	-104.80	98.3	64.7	421.4	385.3	36.16	11.655	
9,500.0	9,466.0	9,471.5	9,466.0	21.5	14.8	-104.80	98.3	64.7	421.4	385.1	36.28	11.615	
9,600.0	9,566.0	9,571.5	9,566.0	21.6	14.9	-104.80	98.3	64.7	421.4	385.0	36.41	11.575	
9,700.0	9,666.0	9,671.5	9,666.0	21.6	14.9	-104.80	98.3	64.7	421.4	384.9	36.53	11.536	
9,800.0	9,766.0	9,771.5	9,766.0	21.7	15.0	-104.80	98.3	64.7	421.4	384.8	36.66	11.496	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
9,900.0	9,866.0	9,871.5	9,866.0	21.7	15.1	-104.80		98.3	64.7	421.4	384.6	36.78	11.457
10,000.0	9,966.0	9,971.5	9,966.0	21.8	15.2	-104.80		98.3	64.7	421.4	384.5	36.91	11.418
10,100.0	10,066.0	10,071.5	10,066.0	21.8	15.3	-104.80		98.3	64.7	421.4	384.4	37.03	11.379
10,200.0	10,166.0	10,171.5	10,166.0	21.9	15.3	-104.80		98.3	64.7	421.4	384.2	37.16	11.340
10,300.0	10,266.0	10,271.5	10,266.0	21.9	15.4	-104.80		98.3	64.7	421.4	384.1	37.29	11.301
10,400.0	10,366.0	10,371.5	10,366.0	22.0	15.5	-104.80		98.3	64.7	421.4	384.0	37.42	11.263
10,500.0	10,466.0	10,471.5	10,466.0	22.0	15.6	-104.80		98.3	64.7	421.4	383.9	37.54	11.225
10,600.0	10,566.0	10,571.5	10,566.0	22.1	15.7	-104.80		98.3	64.7	421.4	383.7	37.67	11.187
10,700.0	10,666.0	10,671.5	10,666.0	22.1	15.8	-104.80		98.3	64.7	421.4	383.6	37.80	11.149
10,800.0	10,766.0	10,771.5	10,766.0	22.2	15.8	-104.80		98.3	64.7	421.4	383.5	37.93	11.111
10,900.0	10,866.0	10,871.5	10,866.0	22.2	15.9	-104.80		98.3	64.7	421.4	383.4	38.06	11.074
11,000.0	10,966.0	10,971.5	10,966.0	22.3	16.0	-104.80		98.3	64.7	421.4	383.2	38.18	11.036
11,100.0	11,066.0	11,071.5	11,066.0	22.3	16.1	-104.80		98.3	64.7	421.4	383.1	38.31	10.999
11,164.0	11,130.0	11,135.4	11,130.0	22.4	16.1	-104.80		98.3	64.7	421.4	383.0	38.38	10.979
11,200.0	11,166.0	11,171.4	11,166.0	22.4	16.2	-104.76		98.3	64.7	421.7	383.3	38.43	10.974
11,250.0	11,215.7	11,221.1	11,215.7	22.4	16.2	-105.32		98.3	64.7	423.1	384.6	38.51	10.985
11,300.0	11,264.8	11,270.2	11,264.7	22.4	16.3	-106.29		98.3	64.7	425.8	387.1	38.63	11.020
11,350.0	11,312.8	11,320.6	11,315.1	22.4	16.3	-107.68		98.4	64.7	429.9	391.2	38.78	11.087
11,400.0	11,359.4	11,384.4	11,378.8	22.4	16.4	-109.56		103.1	64.7	434.8	395.8	38.98	11.155
11,450.0	11,404.3	11,450.9	11,444.1	22.5	16.4	-111.29		115.5	64.6	439.6	400.4	39.20	11.214
11,500.0	11,447.1	11,520.0	11,509.9	22.5	16.5	-112.83		136.2	64.5	444.1	404.6	39.46	11.254
11,550.0	11,487.5	11,591.6	11,575.0	22.5	16.6	-114.16		165.9	64.4	448.2	408.4	39.78	11.266
11,600.0	11,525.1	11,665.5	11,637.7	22.5	16.7	-115.23		204.8	64.3	451.6	411.5	40.15	11.249
11,650.0	11,559.8	11,741.1	11,696.3	22.6	16.8	-116.02		252.7	64.2	454.2	413.7	40.54	11.204
11,700.0	11,591.2	11,818.1	11,748.8	22.6	16.9	-116.51		308.9	64.0	455.8	414.9	40.93	11.138
11,750.0	11,619.1	11,895.8	11,793.7	22.6	17.0	-116.68		372.2	63.8	456.4	415.2	41.26	11.062
11,800.0	11,643.2	11,973.5	11,829.7	22.7	17.1	-116.52		441.0	63.5	455.9	414.4	41.50	10.987
11,850.0	11,663.5	12,050.6	11,855.8	22.7	17.2	-116.04		513.4	63.3	454.4	412.8	41.61	10.920
11,900.0	11,679.7	12,126.3	11,871.8	22.7	17.2	-115.26		587.4	63.0	451.9	410.3	41.58	10.868
11,950.0	11,691.7	12,200.3	11,877.9	22.8	17.3	-114.20		661.1	62.8	448.5	407.1	41.41	10.831
12,000.0	11,699.4	12,253.0	11,878.0	22.8	17.3	-113.52		713.8	62.6	445.4	404.0	41.39	10.762
12,050.0	11,702.8	12,302.9	11,878.0	22.9	17.4	-113.24		763.7	62.5	444.0	402.6	41.50	10.700
12,063.4	11,703.0	12,316.3	11,878.0	22.9	17.4	-113.22		777.1	62.4	444.0	402.4	41.55	10.686
12,064.0	11,703.0	12,316.8	11,878.0	22.9	17.4	-113.22		777.6	62.4	444.0	402.4	41.55	10.686
12,100.0	11,703.0	12,352.9	11,878.0	23.0	17.4	-113.22		813.6	62.3	444.0	402.3	41.69	10.649
12,200.0	11,703.0	12,452.9	11,878.0	23.1	17.5	-113.22		913.6	62.0	444.0	401.9	42.14	10.538
12,300.0	11,703.0	12,552.9	11,878.0	23.3	17.7	-113.22		1,013.6	61.6	444.1	401.4	42.63	10.416
12,400.0	11,703.0	12,652.9	11,878.0	23.5	17.9	-113.22		1,113.6	61.3	444.1	400.9	43.17	10.286
12,500.0	11,703.0	12,752.9	11,878.0	23.7	18.2	-113.22		1,213.6	61.0	444.1	400.4	43.76	10.149
12,600.0	11,703.0	12,852.9	11,878.0	23.9	18.6	-113.21		1,313.6	60.6	444.2	399.8	44.40	10.005
12,700.0	11,703.0	12,952.9	11,878.0	24.2	18.9	-113.21		1,413.6	60.3	444.2	399.2	45.07	9.856
12,800.0	11,703.0	13,052.9	11,878.0	24.5	19.4	-113.21		1,513.6	60.0	444.3	398.5	45.79	9.703
12,900.0	11,703.0	13,152.9	11,878.0	24.8	19.8	-113.21		1,613.6	59.6	444.3	397.8	46.54	9.546
13,000.0	11,703.0	13,252.9	11,878.0	25.1	20.3	-113.21		1,713.6	59.3	444.3	397.0	47.33	9.388
13,100.0	11,703.0	13,352.9	11,878.0	25.5	20.7	-113.20		1,813.6	59.0	444.4	396.2	48.16	9.227
13,200.0	11,703.0	13,452.9	11,878.0	25.9	21.2	-113.20		1,913.6	58.6	444.4	395.4	49.02	9.066
13,300.0	11,703.0	13,552.9	11,878.0	26.3	21.8	-113.20		2,013.6	58.3	444.4	394.5	49.91	8.905
13,400.0	11,703.0	13,652.9	11,878.0	26.7	22.3	-113.20		2,113.6	58.0	444.5	393.7	50.83	8.745
13,500.0	11,703.0	13,752.9	11,878.0	27.1	22.9	-113.19		2,213.6	57.6	444.5	392.7	51.78	8.585
13,600.0	11,703.0	13,852.9	11,878.0	27.6	23.4	-113.19		2,313.6	57.3	444.6	391.8	52.75	8.427
13,700.0	11,703.0	13,952.9	11,878.0	28.0	24.0	-113.19		2,413.6	57.0	444.6	390.8	53.75	8.271
13,800.0	11,703.0	14,052.9	11,878.0	28.5	24.6	-113.19		2,513.6	56.6	444.6	389.8	54.78	8.117

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,900.0	11,703.0	14,152.9	11,878.0	29.0	25.2	-113.19	2,613.6	56.3	444.7	388.8	55.82	7.966	
14,000.0	11,703.0	14,252.9	11,878.0	29.5	25.8	-113.18	2,713.6	56.0	444.7	387.8	56.89	7.817	
14,100.0	11,703.0	14,352.9	11,878.0	30.0	26.4	-113.18	2,813.6	55.7	444.7	386.8	57.98	7.671	
14,200.0	11,703.0	14,452.9	11,878.0	30.5	27.0	-113.18	2,913.6	55.3	444.8	385.7	59.09	7.528	
14,300.0	11,703.0	14,552.9	11,878.0	31.1	27.6	-113.18	3,013.6	55.0	444.8	384.6	60.21	7.388	
14,400.0	11,703.0	14,652.9	11,878.0	31.6	28.3	-113.18	3,113.6	54.7	444.8	383.5	61.35	7.251	
14,500.0	11,703.0	14,752.9	11,878.0	32.2	28.9	-113.17	3,213.6	54.3	444.9	382.4	62.51	7.117	
14,600.0	11,703.0	14,852.9	11,878.0	32.7	29.6	-113.17	3,313.6	54.0	444.9	381.2	63.68	6.987	
14,700.0	11,703.0	14,952.9	11,878.0	33.3	30.2	-113.17	3,413.6	53.7	445.0	380.1	64.87	6.859	
14,800.0	11,703.0	15,052.9	11,878.0	33.9	30.9	-113.17	3,513.6	53.3	445.0	378.9	66.07	6.735	
14,900.0	11,703.0	15,152.9	11,878.0	34.5	31.5	-113.17	3,613.6	53.0	445.0	377.7	67.28	6.614	
15,000.0	11,703.0	15,252.9	11,878.0	35.1	32.2	-113.16	3,713.6	52.7	445.1	376.6	68.51	6.497	
15,100.0	11,703.0	15,352.9	11,878.0	35.7	32.9	-113.16	3,813.6	52.3	445.1	375.4	69.74	6.382	
15,200.0	11,703.0	15,452.9	11,878.0	36.3	33.6	-113.16	3,913.6	52.0	445.1	374.2	70.99	6.270	
15,300.0	11,703.0	15,552.9	11,878.0	36.9	34.2	-113.16	4,013.6	51.7	445.2	372.9	72.25	6.162	
15,400.0	11,703.0	15,652.9	11,878.0	37.5	34.9	-113.16	4,113.6	51.3	445.2	371.7	73.51	6.056	
15,500.0	11,703.0	15,752.9	11,878.0	38.2	35.6	-113.15	4,213.6	51.0	445.3	370.5	74.79	5.953	
15,600.0	11,703.0	15,852.9	11,878.0	38.8	36.3	-113.15	4,313.6	50.7	445.3	369.2	76.08	5.853	
15,700.0	11,703.0	15,952.9	11,878.0	39.4	37.0	-113.15	4,413.6	50.3	445.3	368.0	77.37	5.756	
15,800.0	11,703.0	16,052.9	11,878.0	40.1	37.7	-113.15	4,513.6	50.0	445.4	366.7	78.67	5.661	
15,900.0	11,703.0	16,152.9	11,878.0	40.7	38.4	-113.14	4,613.6	49.7	445.4	365.4	79.98	5.569	
16,000.0	11,703.0	16,252.9	11,878.0	41.4	39.1	-113.14	4,713.6	49.3	445.4	364.1	81.30	5.479	
16,100.0	11,703.0	16,352.9	11,878.0	42.0	39.8	-113.14	4,813.6	49.0	445.5	362.9	82.62	5.392	
16,200.0	11,703.0	16,452.9	11,878.0	42.7	40.5	-113.14	4,913.6	48.7	445.5	361.6	83.95	5.307	
16,300.0	11,703.0	16,552.9	11,878.0	43.4	41.2	-113.14	5,013.6	48.3	445.5	360.3	85.28	5.224	
16,400.0	11,703.0	16,652.9	11,878.0	44.0	41.9	-113.13	5,113.6	48.0	445.6	359.0	86.62	5.144	
16,500.0	11,703.0	16,752.9	11,878.0	44.7	42.6	-113.13	5,213.6	47.7	445.6	357.6	87.97	5.066	
16,600.0	11,703.0	16,852.9	11,878.0	45.4	43.3	-113.13	5,313.6	47.3	445.7	356.3	89.32	4.989	
16,700.0	11,703.0	16,952.9	11,878.0	46.0	44.0	-113.13	5,413.6	47.0	445.7	355.0	90.68	4.915	
16,800.0	11,703.0	17,052.9	11,878.0	46.7	44.7	-113.13	5,513.6	46.7	445.7	353.7	92.04	4.843	
16,900.0	11,703.0	17,152.9	11,878.0	47.4	45.5	-113.12	5,613.6	46.3	445.8	352.4	93.41	4.772	
17,000.0	11,703.0	17,252.9	11,878.0	48.1	46.2	-113.12	5,713.6	46.0	445.8	351.0	94.78	4.703	
17,100.0	11,703.0	17,352.9	11,878.0	48.8	46.9	-113.12	5,813.6	45.7	445.8	349.7	96.16	4.637	
17,200.0	11,703.0	17,452.9	11,878.0	49.5	47.6	-113.12	5,913.6	45.4	445.9	348.3	97.54	4.571	
17,300.0	11,703.0	17,552.9	11,878.0	50.1	48.3	-113.12	6,013.6	45.0	445.9	347.0	98.92	4.508	
17,400.0	11,703.0	17,652.9	11,878.0	50.8	49.1	-113.11	6,113.6	44.7	446.0	345.6	100.31	4.446	
17,500.0	11,703.0	17,752.9	11,878.0	51.5	49.8	-113.11	6,213.6	44.4	446.0	344.3	101.70	4.385	
17,600.0	11,703.0	17,852.9	11,878.0	52.2	50.5	-113.11	6,313.6	44.0	446.0	342.9	103.09	4.326	
17,700.0	11,703.0	17,952.9	11,878.0	52.9	51.2	-113.11	6,413.6	43.7	446.1	341.6	104.49	4.269	
17,800.0	11,703.0	18,052.9	11,878.0	53.6	52.0	-113.11	6,513.6	43.4	446.1	340.2	105.89	4.213	
17,900.0	11,703.0	18,152.9	11,878.0	54.3	52.7	-113.10	6,613.6	43.0	446.1	338.8	107.30	4.158	
18,000.0	11,703.0	18,252.9	11,878.0	55.0	53.4	-113.10	6,713.6	42.7	446.2	337.5	108.71	4.104	
18,100.0	11,703.0	18,352.9	11,878.0	55.7	54.2	-113.10	6,813.6	42.4	446.2	336.1	110.12	4.052	
18,200.0	11,703.0	18,452.9	11,878.0	56.4	54.9	-113.10	6,913.6	42.0	446.2	334.7	111.53	4.001	
18,300.0	11,703.0	18,552.9	11,878.0	57.2	55.6	-113.09	7,013.6	41.7	446.3	333.3	112.94	3.951	
18,400.0	11,703.0	18,652.9	11,878.0	57.9	56.4	-113.09	7,113.6	41.4	446.3	332.0	114.36	3.903	
18,500.0	11,703.0	18,752.9	11,878.0	58.6	57.1	-113.09	7,213.6	41.0	446.4	330.6	115.78	3.855	
18,600.0	11,703.0	18,852.9	11,878.0	59.3	57.8	-113.09	7,313.6	40.7	446.4	329.2	117.20	3.809	
18,700.0	11,703.0	18,952.9	11,878.0	60.0	58.6	-113.09	7,413.6	40.4	446.4	327.8	118.63	3.763	
18,800.0	11,703.0	19,052.9	11,878.0	60.7	59.3	-113.08	7,513.6	40.0	446.5	326.4	120.06	3.719	
18,900.0	11,703.0	19,152.9	11,878.0	61.4	60.0	-113.08	7,613.6	39.7	446.5	325.0	121.48	3.675	
19,000.0	11,703.0	19,252.9	11,878.0	62.1	60.8	-113.08	7,713.6	39.4	446.5	323.6	122.92	3.633	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11311-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,100.0	11,703.0	19,352.9	11,878.0	62.9	61.5	-113.08	7,813.6	39.0	446.6	322.2	124.35	3.591		
19,200.0	11,703.0	19,452.9	11,878.0	63.6	62.3	-113.08	7,913.6	38.7	446.6	320.8	125.78	3.551		
19,300.0	11,703.0	19,552.9	11,878.0	64.3	63.0	-113.07	8,013.6	38.4	446.7	319.4	127.22	3.511		
19,400.0	11,703.0	19,652.9	11,878.0	65.0	63.7	-113.07	8,113.6	38.0	446.7	318.0	128.66	3.472		
19,500.0	11,703.0	19,752.9	11,878.0	65.7	64.5	-113.07	8,213.6	37.7	446.7	316.6	130.10	3.434		
19,600.0	11,703.0	19,852.9	11,878.0	66.5	65.2	-113.07	8,313.6	37.4	446.8	315.2	131.54	3.396		
19,700.0	11,703.0	19,952.9	11,878.0	67.2	66.0	-113.07	8,413.6	37.0	446.8	313.8	132.98	3.360		
19,800.0	11,703.0	20,052.9	11,878.0	67.9	66.7	-113.06	8,513.6	36.7	446.8	312.4	134.43	3.324		
19,900.0	11,703.0	20,152.9	11,878.0	68.6	67.4	-113.06	8,613.6	36.4	446.9	311.0	135.88	3.289		
20,000.0	11,703.0	20,252.9	11,878.0	69.4	68.2	-113.06	8,713.6	36.0	446.9	309.6	137.32	3.254		
20,100.0	11,703.0	20,352.9	11,878.0	70.1	68.9	-113.06	8,813.6	35.7	446.9	308.2	138.77	3.221		
20,200.0	11,703.0	20,452.9	11,878.0	70.8	69.7	-113.06	8,913.6	35.4	447.0	306.8	140.22	3.188		
20,300.0	11,703.0	20,552.9	11,878.0	71.6	70.4	-113.05	9,013.6	35.0	447.0	305.3	141.68	3.155		
20,400.0	11,703.0	20,652.9	11,878.0	72.3	71.2	-113.05	9,113.6	34.7	447.1	303.9	143.13	3.123		
20,500.0	11,703.0	20,752.9	11,878.0	73.0	71.9	-113.05	9,213.6	34.4	447.1	302.5	144.58	3.092		
20,600.0	11,703.0	20,852.9	11,878.0	73.7	72.7	-113.05	9,313.6	34.1	447.1	301.1	146.04	3.062		
20,700.0	11,703.0	20,952.9	11,878.0	74.5	73.4	-113.04	9,413.6	33.7	447.2	299.7	147.50	3.032		
20,800.0	11,703.0	21,052.9	11,878.0	75.2	74.1	-113.04	9,513.6	33.4	447.2	298.3	148.95	3.002		
20,900.0	11,703.0	21,152.9	11,878.0	75.9	74.9	-113.04	9,613.6	33.1	447.2	296.8	150.41	2.973		
21,000.0	11,703.0	21,252.9	11,878.0	76.7	75.6	-113.04	9,713.6	32.7	447.3	295.4	151.87	2.945		
21,100.0	11,703.0	21,352.9	11,878.0	77.4	76.4	-113.04	9,813.6	32.4	447.3	294.0	153.34	2.917		
21,200.0	11,703.0	21,452.9	11,878.0	78.1	77.1	-113.03	9,913.6	32.1	447.4	292.6	154.80	2.890		
21,300.0	11,703.0	21,552.9	11,878.0	78.9	77.9	-113.03	10,013.6	31.7	447.4	291.1	156.26	2.863		
21,400.0	11,703.0	21,652.9	11,878.0	79.6	78.6	-113.03	10,113.6	31.4	447.4	289.7	157.72	2.837		
21,500.0	11,703.0	21,752.9	11,878.0	80.3	79.4	-113.03	10,213.6	31.1	447.5	288.3	159.19	2.811		
21,600.0	11,703.0	21,852.9	11,878.0	81.1	80.1	-113.03	10,313.6	30.7	447.5	286.8	160.66	2.785		
21,700.0	11,703.0	21,952.9	11,878.0	81.8	80.9	-113.02	10,413.6	30.4	447.5	285.4	162.12	2.760		
21,800.0	11,703.0	22,052.9	11,878.0	82.6	81.6	-113.02	10,513.6	30.1	447.6	284.0	163.59	2.736		
21,900.0	11,703.0	22,152.9	11,878.0	83.3	82.4	-113.02	10,613.6	29.7	447.6	282.6	165.06	2.712		
21,991.7	11,703.0	22,244.6	11,878.0	84.0	83.1	-113.02	10,705.3	29.4	447.6	281.2	166.40	2.690		
22,000.0	11,703.0	22,252.9	11,878.0	84.0	83.1	-113.02	10,713.6	29.4	447.6	281.1	166.53	2.688		
22,041.7	11,703.0	22,294.0	11,878.0	84.3	83.4	-113.02	10,754.7	29.3	447.7	280.5	167.13	2.679 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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	90.06	0.0	30.0	30.0					
100.0	100.0	99.9	99.9	3.0	3.0	90.06	0.0	30.0	30.0	23.5	6.52	4.603		
200.0	200.0	199.9	199.9	3.2	3.2	90.06	0.0	30.0	30.0	23.2	6.76	4.439		
300.0	300.0	299.9	299.9	3.3	3.3	90.06	0.0	30.0	30.0	23.0	6.99	4.292		
400.0	400.0	399.9	399.9	3.4	3.4	90.06	0.0	30.0	30.0	22.8	7.21	4.160		
500.0	500.0	499.9	499.9	3.5	3.5	90.06	0.0	30.0	30.0	22.6	7.43	4.039		
600.0	600.0	599.9	599.9	3.7	3.7	90.06	0.0	30.0	30.0	22.4	7.64	3.928		
700.0	700.0	699.9	699.9	3.8	3.8	90.06	0.0	30.0	30.0	22.2	7.84	3.826		
800.0	800.0	799.9	799.9	3.9	3.9	90.06	0.0	30.0	30.0	22.0	8.04	3.732		
900.0	900.0	899.9	899.9	4.0	4.0	90.06	0.0	30.0	30.0	21.8	8.23	3.644		
1,000.0	1,000.0	999.9	999.9	4.2	4.2	90.06	0.0	30.0	30.0	21.6	8.42	3.563		
1,100.0	1,100.0	1,099.9	1,099.9	4.3	4.3	90.06	0.0	30.0	30.0	21.4	8.61	3.487		
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	90.06	0.0	30.0	30.0	21.2	8.79	3.415		
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	90.06	0.0	30.0	30.0	21.0	8.96	3.348		
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	90.06	0.0	30.0	30.0	20.9	9.13	3.285		
1,500.0	1,500.0	1,499.9	1,499.9	4.8	4.8	90.06	0.0	30.0	30.0	20.7	9.30	3.226 CC		
1,600.0	1,600.0	1,599.2	1,599.2	4.9	4.9	40.42	0.6	31.1	30.1	20.6	9.52	3.164		
1,700.0	1,699.9	1,698.5	1,698.4	5.0	5.0	41.49	2.5	34.5	30.5	20.6	9.91	3.080 ES		
1,800.0	1,799.7	1,797.8	1,797.5	5.2	5.2	43.20	5.8	40.1	31.2	20.9	10.30	3.026		
1,900.0	1,899.3	1,897.1	1,896.4	5.5	5.4	45.47	10.3	47.9	32.1	21.4	10.70	3.003		
2,000.0	1,998.6	1,996.4	1,995.0	5.7	5.7	48.20	16.1	57.9	33.4	22.3	11.10	3.011		
2,033.3	2,031.6	2,029.5	2,027.8	5.8	5.7	49.18	18.3	61.7	33.9	22.8	11.16	3.041		
2,100.0	2,097.6	2,095.4	2,093.0	5.9	5.9	40.47	22.8	70.4	35.2	23.9	11.36	3.103		
2,158.1	2,155.2	2,152.8	2,149.5	6.0	6.1	31.16	26.7	79.1	36.8	25.2	11.62	3.168		
2,200.0	2,196.7	2,194.1	2,190.2	6.1	6.2	29.88	29.4	86.0	38.4	26.6	11.81	3.248		
2,300.0	2,295.7	2,293.0	2,287.1	6.4	6.4	27.15	35.8	104.9	44.4	32.1	12.33	3.604		
2,400.0	2,394.7	2,392.8	2,384.6	6.7	6.8	25.06	42.3	124.6	51.3	38.3	12.97	3.955		
2,500.0	2,493.7	2,492.5	2,482.2	7.0	7.1	23.47	48.7	144.3	58.2	44.6	13.65	4.266		
2,600.0	2,592.8	2,592.2	2,579.8	7.3	7.5	22.21	55.1	164.1	65.2	50.8	14.35	4.542		
2,700.0	2,691.8	2,692.0	2,677.3	7.7	7.8	21.20	61.5	183.8	72.1	57.1	15.07	4.787		
2,800.0	2,790.8	2,791.7	2,774.9	8.0	8.2	20.36	67.9	203.5	79.1	63.3	15.81	5.005		
2,900.0	2,889.9	2,891.5	2,872.5	8.4	8.6	19.66	74.3	223.2	86.1	69.6	16.57	5.199		
3,000.0	2,988.9	2,991.2	2,970.1	8.7	9.0	19.07	80.7	243.0	93.1	75.8	17.33	5.373		
3,100.0	3,087.9	3,091.0	3,067.6	9.1	9.4	18.56	87.1	262.7	100.2	82.0	18.12	5.529		
3,200.0	3,186.9	3,190.7	3,165.2	9.5	9.8	18.12	93.5	282.4	107.2	88.3	18.91	5.669		
3,300.0	3,286.0	3,290.5	3,262.8	9.9	10.2	17.73	99.9	302.1	114.2	94.5	19.71	5.796		
3,400.0	3,385.0	3,390.2	3,360.3	10.3	10.7	17.38	106.3	321.9	121.3	100.8	20.52	5.911		
3,500.0	3,484.0	3,490.0	3,457.9	10.7	11.1	17.08	112.8	341.6	128.3	107.0	21.33	6.015		
3,600.0	3,583.0	3,589.7	3,555.5	11.1	11.5	16.80	119.2	361.3	135.4	113.2	22.15	6.110		
3,700.0	3,682.1	3,689.5	3,653.0	11.4	11.9	16.56	125.6	381.0	142.4	119.4	22.98	6.197		
3,800.0	3,781.1	3,789.2	3,750.6	11.8	12.4	16.33	132.0	400.8	149.5	125.7	23.81	6.276		
3,900.0	3,880.1	3,889.0	3,848.2	12.2	12.8	16.13	138.4	420.5	156.5	131.9	24.65	6.349		
4,000.0	3,979.1	3,988.7	3,945.8	12.7	13.3	15.94	144.8	440.2	163.6	138.1	25.49	6.417		
4,100.0	4,078.2	4,088.5	4,043.3	13.1	13.7	15.77	151.2	459.9	170.6	144.3	26.34	6.479		
4,200.0	4,177.2	4,188.2	4,140.9	13.5	14.1	15.62	157.6	479.7	177.7	150.5	27.19	6.536		
4,300.0	4,276.2	4,288.0	4,238.5	13.9	14.6	15.47	164.0	499.4	184.8	156.7	28.04	6.590		
4,400.0	4,375.3	4,387.7	4,336.0	14.3	15.0	15.34	170.4	519.1	191.8	162.9	28.89	6.639		
4,500.0	4,474.3	4,487.5	4,433.6	14.7	15.5	15.21	176.8	538.8	198.9	169.1	29.75	6.686		
4,600.0	4,573.3	4,587.2	4,531.2	15.1	15.9	15.10	183.2	558.6	205.9	175.3	30.61	6.729		
4,700.0	4,672.3	4,687.0	4,628.7	15.5	16.4	14.99	189.7	578.3	213.0	181.5	31.47	6.770		
4,800.0	4,771.4	4,786.7	4,726.3	15.9	16.9	14.89	196.1	598.0	220.1	187.7	32.33	6.807		
4,900.0	4,870.4	4,886.5	4,823.9	16.4	17.3	14.79	202.5	617.7	227.1	193.9	33.19	6.843		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,000.0	4,969.4	4,986.2	4,921.4	16.8	17.8	14.70	208.9	637.4	234.2	200.1	34.06	6.877	
5,081.4	5,050.0	5,067.4	5,000.8	17.1	18.1	14.63	214.1	653.5	240.0	205.2	34.76	6.904	
5,100.0	5,068.4	5,086.0	5,019.0	17.2	18.2	14.62	215.3	657.2	241.3	206.4	34.91	6.912	
5,200.0	5,167.6	5,185.6	5,116.5	17.6	18.7	14.49	221.7	676.9	249.5	213.7	35.79	6.972	
5,300.0	5,267.0	5,285.1	5,213.8	18.0	19.1	14.28	228.1	696.6	259.4	222.8	36.66	7.078	
5,400.0	5,366.6	5,384.5	5,311.0	18.4	19.6	14.00	234.5	716.2	271.0	233.5	37.52	7.224	
5,500.0	5,466.3	5,483.5	5,407.9	18.7	20.1	13.67	240.8	735.8	284.3	246.0	38.37	7.410	
5,600.0	5,566.1	5,582.4	5,504.6	19.1	20.5	13.29	247.2	755.3	299.3	260.1	39.21	7.634	
5,700.0	5,666.1	5,681.0	5,601.0	19.4	21.0	12.88	253.5	774.8	316.0	275.9	40.02	7.894	
5,800.0	5,766.0	5,779.2	5,697.1	19.7	21.4	12.46	259.8	794.3	334.3	293.5	40.81	8.193	
5,881.4	5,847.4	5,858.9	5,775.1	19.8	21.8	80.11	265.0	810.0	350.5	309.2	41.34	8.478	
5,900.0	5,866.0	5,877.2	5,792.9	19.8	21.9	80.02	266.1	813.6	354.4	312.9	41.45	8.550	
6,000.0	5,966.0	5,982.4	5,895.9	19.9	22.4	79.56	272.7	833.9	374.5	332.4	42.07	8.902	
6,100.0	6,066.0	6,086.0	6,007.9	19.9	22.9	79.18	278.6	852.1	391.2	348.5	42.71	9.161	
6,200.0	6,166.0	6,211.0	6,122.0	20.0	23.4	78.92	283.2	866.3	404.1	360.8	43.26	9.341	
6,300.0	6,266.0	6,327.1	6,237.5	20.0	23.9	78.74	286.4	876.2	413.0	369.3	43.70	9.449	
6,400.0	6,366.0	6,443.8	6,354.1	20.0	24.3	78.65	288.2	881.6	417.8	373.8	44.02	9.492	
6,500.0	6,466.0	6,555.6	6,465.9	20.1	24.5	78.63	288.6	882.7	418.8	374.7	44.13	9.490	
6,600.0	6,566.0	6,655.6	6,565.9	20.1	24.5	78.63	288.6	882.7	418.8	374.6	44.20	9.475	
6,700.0	6,666.0	6,755.6	6,665.9	20.2	24.5	78.63	288.6	882.7	418.8	374.5	44.28	9.458	
6,800.0	6,766.0	6,855.6	6,765.9	20.2	24.6	78.63	288.6	882.7	418.8	374.4	44.36	9.442	
6,900.0	6,866.0	6,955.6	6,865.9	20.3	24.6	78.63	288.6	882.7	418.8	374.4	44.43	9.425	
7,000.0	6,966.0	7,055.6	6,965.9	20.3	24.6	78.63	288.6	882.7	418.8	374.3	44.51	9.409	
7,100.0	7,066.0	7,155.6	7,065.9	20.4	24.7	78.63	288.6	882.7	418.8	374.2	44.59	9.392	
7,200.0	7,166.0	7,255.6	7,165.9	20.4	24.7	78.63	288.6	882.7	418.8	374.1	44.67	9.375	
7,300.0	7,266.0	7,355.6	7,265.9	20.5	24.8	78.63	288.6	882.7	418.8	374.0	44.75	9.359	
7,400.0	7,366.0	7,455.6	7,365.9	20.5	24.8	78.63	288.6	882.7	418.8	374.0	44.83	9.342	
7,500.0	7,466.0	7,555.6	7,465.9	20.5	24.8	78.63	288.6	882.7	418.8	373.9	44.91	9.325	
7,600.0	7,566.0	7,655.6	7,565.9	20.6	24.9	78.63	288.6	882.7	418.8	373.8	44.99	9.308	
7,700.0	7,666.0	7,755.6	7,665.9	20.6	24.9	78.63	288.6	882.7	418.8	373.7	45.07	9.292	
7,800.0	7,766.0	7,855.6	7,765.9	20.7	24.9	78.63	288.6	882.7	418.8	373.6	45.15	9.275	
7,900.0	7,866.0	7,955.6	7,865.9	20.7	25.0	78.63	288.6	882.7	418.8	373.6	45.24	9.258	
8,000.0	7,966.0	8,055.6	7,965.9	20.8	25.0	78.63	288.6	882.7	418.8	373.5	45.32	9.241	
8,100.0	8,066.0	8,155.6	8,065.9	20.8	25.0	78.63	288.6	882.7	418.8	373.4	45.40	9.224	
8,200.0	8,166.0	8,255.6	8,165.9	20.9	25.1	78.63	288.6	882.7	418.8	373.3	45.49	9.207	
8,300.0	8,266.0	8,355.6	8,265.9	20.9	25.1	78.63	288.6	882.7	418.8	373.2	45.57	9.190	
8,400.0	8,366.0	8,455.6	8,365.9	21.0	25.2	78.63	288.6	882.7	418.8	373.1	45.66	9.173	
8,500.0	8,466.0	8,555.6	8,465.9	21.0	25.2	78.63	288.6	882.7	418.8	373.1	45.74	9.156	
8,600.0	8,566.0	8,655.6	8,565.9	21.1	25.2	78.63	288.6	882.7	418.8	373.0	45.83	9.139	
8,700.0	8,666.0	8,755.6	8,665.9	21.1	25.3	78.63	288.6	882.7	418.8	372.9	45.91	9.122	
8,800.0	8,766.0	8,855.6	8,765.9	21.2	25.3	78.63	288.6	882.7	418.8	372.8	46.00	9.105	
8,900.0	8,866.0	8,955.6	8,865.9	21.2	25.4	78.63	288.6	882.7	418.8	372.7	46.08	9.088	
9,000.0	8,966.0	9,055.6	8,965.9	21.3	25.4	78.63	288.6	882.7	418.8	372.6	46.17	9.071	
9,100.0	9,066.0	9,155.6	9,065.9	21.3	25.4	78.63	288.6	882.7	418.8	372.5	46.26	9.054	
9,200.0	9,166.0	9,255.6	9,165.9	21.4	25.5	78.63	288.6	882.7	418.8	372.4	46.35	9.036	
9,300.0	9,266.0	9,355.6	9,265.9	21.4	25.5	78.63	288.6	882.7	418.8	372.4	46.43	9.019	
9,400.0	9,366.0	9,455.6	9,365.9	21.5	25.6	78.63	288.6	882.7	418.8	372.3	46.52	9.002	
9,500.0	9,466.0	9,555.6	9,465.9	21.5	25.6	78.63	288.6	882.7	418.8	372.2	46.61	8.985	
9,600.0	9,566.0	9,655.6	9,565.9	21.6	25.6	78.63	288.6	882.7	418.8	372.1	46.70	8.968	
9,700.0	9,666.0	9,755.6	9,665.9	21.6	25.7	78.63	288.6	882.7	418.8	372.0	46.79	8.951	
9,800.0	9,766.0	9,855.6	9,765.9	21.7	25.7	78.63	288.6	882.7	418.8	371.9	46.88	8.933	
9,900.0	9,866.0	9,955.6	9,865.9	21.7	25.8	78.63	288.6	882.7	418.8	371.8	46.97	8.916	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,000.0	9,966.0	10,055.6	9,965.9	21.8	25.8	78.63	288.6	882.7	418.8	371.7	47.06	8.899	
10,100.0	10,066.0	10,155.6	10,065.9	21.8	25.8	78.63	288.6	882.7	418.8	371.6	47.15	8.882	
10,200.0	10,166.0	10,255.6	10,165.9	21.9	25.9	78.63	288.6	882.7	418.8	371.6	47.24	8.865	
10,300.0	10,266.0	10,355.6	10,265.9	21.9	25.9	78.63	288.6	882.7	418.8	371.5	47.34	8.847	
10,400.0	10,366.0	10,455.6	10,365.9	22.0	26.0	78.63	288.6	882.7	418.8	371.4	47.43	8.830	
10,500.0	10,466.0	10,555.6	10,465.9	22.0	26.0	78.63	288.6	882.7	418.8	371.3	47.52	8.813	
10,600.0	10,566.0	10,655.6	10,565.9	22.1	26.1	78.63	288.6	882.7	418.8	371.2	47.61	8.796	
10,700.0	10,666.0	10,755.6	10,665.9	22.1	26.1	78.63	288.6	882.7	418.8	371.1	47.71	8.779	
10,800.0	10,766.0	10,855.6	10,765.9	22.2	26.1	78.63	288.6	882.7	418.8	371.0	47.80	8.761	
10,900.0	10,866.0	10,955.6	10,865.9	22.2	26.2	78.63	288.6	882.7	418.8	370.9	47.89	8.744	
11,000.0	10,966.0	11,055.6	10,965.9	22.3	26.2	78.63	288.6	882.7	418.8	370.8	47.99	8.727	
11,100.0	11,066.0	11,155.6	11,065.9	22.3	26.3	78.63	288.6	882.7	418.8	370.7	48.08	8.710	
11,164.0	11,130.0	11,219.6	11,129.9	22.4	26.3	78.63	288.6	882.7	418.8	370.7	48.14	8.700	
11,200.0	11,166.0	11,255.6	11,165.9	22.4	26.3	78.97	288.6	882.7	418.6	370.4	48.14	8.694	
11,250.0	11,215.7	11,305.3	11,215.6	22.4	26.3	79.78	288.6	882.7	417.6	369.5	48.11	8.680	
11,300.0	11,264.8	11,354.3	11,264.6	22.4	26.4	81.22	288.6	882.7	416.0	368.0	48.00	8.666	
11,350.0	11,312.8	11,400.0	11,310.3	22.4	26.4	83.13	288.6	882.7	414.0	366.2	47.84	8.655	
11,400.0	11,359.4	11,445.9	11,356.1	22.4	26.4	85.29	290.8	882.7	412.4	364.8	47.59	8.664	
11,450.0	11,404.3	11,491.0	11,400.9	22.5	26.4	87.42	296.5	882.7	411.3	364.0	47.28	8.699	
11,500.0	11,447.1	11,537.3	11,446.2	22.5	26.4	89.59	306.0	882.6	410.8	363.9	46.90	8.759	
11,509.1	11,454.7	11,545.9	11,454.5	22.5	26.4	89.99	308.1	882.6	410.8	364.0	46.83	8.773	
11,550.0	11,487.5	11,584.9	11,491.8	22.5	26.4	91.79	319.5	882.6	411.1	364.6	46.48	8.844	
11,600.0	11,525.1	11,633.8	11,537.3	22.5	26.5	94.00	337.3	882.5	412.0	365.9	46.03	8.950	
11,650.0	11,559.8	11,684.3	11,582.6	22.6	26.5	96.21	359.7	882.5	413.6	368.0	45.59	9.072	
11,700.0	11,591.2	11,736.5	11,627.0	22.6	26.5	98.39	386.9	882.4	415.8	370.7	45.18	9.203	
11,750.0	11,619.1	11,790.5	11,670.3	22.6	26.5	100.53	419.3	882.3	418.7	373.9	44.86	9.335	
11,800.0	11,643.2	11,846.5	11,711.7	22.7	26.5	102.62	456.9	882.2	422.1	377.5	44.64	9.456	
11,850.0	11,663.5	11,904.6	11,750.6	22.7	26.5	104.62	500.1	882.1	426.0	381.4	44.57	9.558	
11,900.0	11,679.7	11,965.1	11,786.2	22.7	26.6	106.53	548.9	882.0	430.1	385.5	44.66	9.632	
11,950.0	11,691.7	12,027.8	11,817.5	22.8	26.6	108.32	603.3	881.8	434.4	389.5	44.91	9.674	
12,000.0	11,699.4	12,093.0	11,843.5	22.8	26.7	109.97	663.0	881.6	438.7	393.4	45.31	9.683	
12,050.0	11,702.8	12,160.5	11,863.1	22.9	26.7	111.44	727.5	881.5	442.8	397.0	45.83	9.662	
12,064.0	11,703.0	12,179.8	11,867.3	22.9	26.7	111.82	746.4	881.4	443.9	397.9	45.99	9.651	
12,100.0	11,703.0	12,230.5	11,875.3	23.0	26.8	112.77	796.4	881.3	446.1	399.6	46.43	9.607	
12,200.0	11,703.0	12,350.3	11,879.0	23.1	26.9	113.21	916.1	881.0	447.1	399.9	47.23	9.467	
12,300.0	11,703.0	12,450.3	11,879.0	23.3	27.1	113.20	1,016.1	880.7	447.1	399.5	47.64	9.385	
12,400.0	11,703.0	12,550.3	11,879.0	23.5	27.2	113.20	1,116.1	880.4	447.1	399.0	48.10	9.296	
12,500.0	11,703.0	12,650.3	11,879.0	23.7	27.4	113.20	1,216.1	880.1	447.1	398.5	48.60	9.200	
12,600.0	11,703.0	12,750.3	11,879.0	23.9	27.6	113.20	1,316.1	879.9	447.2	398.0	49.15	9.098	
12,700.0	11,703.0	12,850.3	11,879.0	24.2	27.8	113.20	1,416.1	879.6	447.2	397.4	49.74	8.991	
12,800.0	11,703.0	12,950.3	11,879.0	24.5	28.1	113.20	1,516.1	879.3	447.2	396.8	50.36	8.880	
12,900.0	11,703.0	13,050.3	11,879.0	24.8	28.3	113.20	1,616.1	879.0	447.2	396.2	51.02	8.765	
13,000.0	11,703.0	13,150.3	11,879.0	25.1	28.6	113.20	1,716.1	878.8	447.2	395.5	51.72	8.647	
13,100.0	11,703.0	13,250.3	11,879.0	25.5	28.9	113.20	1,816.1	878.5	447.2	394.8	52.45	8.526	
13,200.0	11,703.0	13,350.3	11,879.0	25.9	29.3	113.20	1,916.1	878.2	447.3	394.0	53.22	8.404	
13,300.0	11,703.0	13,450.3	11,879.0	26.3	29.6	113.20	2,016.1	877.9	447.3	393.3	54.02	8.280	
13,400.0	11,703.0	13,550.3	11,879.0	26.7	30.0	113.19	2,116.1	877.7	447.3	392.4	54.84	8.156	
13,500.0	11,703.0	13,650.3	11,879.0	27.1	30.3	113.19	2,216.1	877.4	447.3	391.6	55.70	8.030	
13,600.0	11,703.0	13,750.3	11,879.0	27.6	30.7	113.19	2,316.1	877.1	447.3	390.7	56.59	7.905	
13,700.0	11,703.0	13,850.3	11,879.0	28.0	31.1	113.19	2,416.1	876.8	447.3	389.8	57.50	7.780	
13,800.0	11,703.0	13,950.3	11,879.0	28.5	31.6	113.19	2,516.1	876.6	447.4	388.9	58.43	7.656	
13,900.0	11,703.0	14,050.3	11,879.0	29.0	32.0	113.19	2,616.1	876.3	447.4	388.0	59.39	7.532	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
14,000.0	11,703.0	14,150.3	11,879.0	29.5	32.4	113.19		2,716.1	876.0	447.4	387.0	60.38	7.410
14,100.0	11,703.0	14,250.3	11,879.0	30.0	32.9	113.19		2,816.1	875.7	447.4	386.0	61.38	7.289
14,200.0	11,703.0	14,350.3	11,879.0	30.5	33.4	113.19		2,916.1	875.5	447.4	385.0	62.40	7.170
14,300.0	11,703.0	14,450.3	11,879.0	31.1	33.9	113.19		3,016.1	875.2	447.4	384.0	63.45	7.052
14,400.0	11,703.0	14,550.3	11,879.0	31.6	34.4	113.19		3,116.1	874.9	447.4	382.9	64.51	6.936
14,500.0	11,703.0	14,650.3	11,879.0	32.2	34.9	113.18		3,216.1	874.6	447.5	381.9	65.59	6.822
14,600.0	11,703.0	14,750.3	11,879.0	32.7	35.4	113.18		3,316.1	874.4	447.5	380.8	66.69	6.710
14,700.0	11,703.0	14,850.3	11,879.0	33.3	35.9	113.18		3,416.1	874.1	447.5	379.7	67.80	6.600
14,800.0	11,703.0	14,950.3	11,879.0	33.9	36.4	113.18		3,516.1	873.8	447.5	378.6	68.93	6.492
14,900.0	11,703.0	15,050.3	11,879.0	34.5	37.0	113.18		3,616.1	873.5	447.5	377.4	70.08	6.386
15,000.0	11,703.0	15,150.3	11,879.0	35.1	37.5	113.18		3,716.1	873.3	447.5	376.3	71.23	6.283
15,100.0	11,703.0	15,250.3	11,879.0	35.7	38.1	113.18		3,816.1	873.0	447.6	375.1	72.40	6.181
15,200.0	11,703.0	15,350.3	11,879.0	36.3	38.7	113.18		3,916.1	872.7	447.6	374.0	73.59	6.082
15,300.0	11,703.0	15,450.3	11,879.0	36.9	39.2	113.18		4,016.1	872.4	447.6	372.8	74.78	5.985
15,400.0	11,703.0	15,550.3	11,879.0	37.5	39.8	113.18		4,116.1	872.2	447.6	371.6	75.99	5.890
15,500.0	11,703.0	15,650.3	11,879.0	38.2	40.4	113.18		4,216.1	871.9	447.6	370.4	77.21	5.798
15,600.0	11,703.0	15,750.3	11,879.0	38.8	41.0	113.17		4,316.1	871.6	447.6	369.2	78.43	5.707
15,700.0	11,703.0	15,850.3	11,879.0	39.4	41.6	113.17		4,416.1	871.3	447.6	368.0	79.67	5.619
15,800.0	11,703.0	15,950.3	11,879.0	40.1	42.2	113.17		4,516.1	871.1	447.7	366.7	80.92	5.532
15,900.0	11,703.0	16,050.3	11,879.0	40.7	42.8	113.17		4,616.1	870.8	447.7	365.5	82.17	5.448
16,000.0	11,703.0	16,150.3	11,879.0	41.4	43.4	113.17		4,716.1	870.5	447.7	364.3	83.44	5.366
16,100.0	11,703.0	16,250.3	11,879.0	42.0	44.1	113.17		4,816.1	870.2	447.7	363.0	84.71	5.285
16,200.0	11,703.0	16,350.3	11,879.0	42.7	44.7	113.17		4,916.1	870.0	447.7	361.7	85.99	5.207
16,300.0	11,703.0	16,450.3	11,879.0	43.4	45.3	113.17		5,016.1	869.7	447.7	360.5	87.27	5.130
16,400.0	11,703.0	16,550.3	11,879.0	44.0	45.9	113.17		5,116.1	869.4	447.8	359.2	88.57	5.055
16,500.0	11,703.0	16,650.3	11,879.0	44.7	46.6	113.17		5,216.1	869.1	447.8	357.9	89.87	4.982
16,600.0	11,703.0	16,750.3	11,879.0	45.4	47.2	113.17		5,316.1	868.9	447.8	356.6	91.18	4.911
16,700.0	11,703.0	16,850.3	11,879.0	46.0	47.9	113.16		5,416.1	868.6	447.8	355.3	92.49	4.842
16,800.0	11,703.0	16,950.3	11,879.0	46.7	48.5	113.16		5,516.1	868.3	447.8	354.0	93.81	4.774
16,900.0	11,703.0	17,050.3	11,879.0	47.4	49.2	113.16		5,616.1	868.0	447.8	352.7	95.14	4.707
17,000.0	11,703.0	17,150.3	11,879.0	48.1	49.8	113.16		5,716.1	867.8	447.9	351.4	96.47	4.642
17,100.0	11,703.0	17,250.3	11,879.0	48.8	50.5	113.16		5,816.1	867.5	447.9	350.1	97.81	4.579
17,200.0	11,703.0	17,350.3	11,879.0	49.5	51.1	113.16		5,916.1	867.2	447.9	348.7	99.15	4.517
17,300.0	11,703.0	17,450.3	11,879.0	50.1	51.8	113.16		6,016.1	866.9	447.9	347.4	100.49	4.457
17,400.0	11,703.0	17,550.3	11,879.0	50.8	52.5	113.16		6,116.1	866.7	447.9	346.1	101.84	4.398
17,500.0	11,703.0	17,650.3	11,879.0	51.5	53.1	113.16		6,216.1	866.4	447.9	344.7	103.20	4.340
17,600.0	11,703.0	17,750.3	11,879.0	52.2	53.8	113.16		6,316.1	866.1	447.9	343.4	104.56	4.284
17,700.0	11,703.0	17,850.3	11,879.0	52.9	54.5	113.16		6,416.1	865.8	448.0	342.0	105.92	4.229
17,800.0	11,703.0	17,950.3	11,879.0	53.6	55.2	113.15		6,516.1	865.6	448.0	340.7	107.29	4.175
17,900.0	11,703.0	18,050.3	11,879.0	54.3	55.8	113.15		6,616.1	865.3	448.0	339.3	108.66	4.123
18,000.0	11,703.0	18,150.3	11,879.0	55.0	56.5	113.15		6,716.1	865.0	448.0	338.0	110.04	4.071
18,100.0	11,703.0	18,250.3	11,879.0	55.7	57.2	113.15		6,816.1	864.7	448.0	336.6	111.42	4.021
18,200.0	11,703.0	18,350.3	11,879.0	56.4	57.9	113.15		6,916.1	864.5	448.0	335.2	112.80	3.972
18,300.0	11,703.0	18,450.3	11,879.0	57.2	58.6	113.15		7,016.1	864.2	448.1	333.9	114.18	3.924
18,400.0	11,703.0	18,550.3	11,879.0	57.9	59.3	113.15		7,116.1	863.9	448.1	332.5	115.57	3.877
18,500.0	11,703.0	18,650.3	11,879.0	58.6	60.0	113.15		7,216.1	863.6	448.1	331.1	116.96	3.831
18,600.0	11,703.0	18,750.3	11,879.0	59.3	60.7	113.15		7,316.1	863.4	448.1	329.7	118.36	3.786
18,700.0	11,703.0	18,850.3	11,879.0	60.0	61.4	113.15		7,416.1	863.1	448.1	328.4	119.76	3.742
18,800.0	11,703.0	18,950.3	11,879.0	60.7	62.0	113.15		7,516.1	862.8	448.1	327.0	121.16	3.699
18,900.0	11,703.0	19,050.3	11,879.0	61.4	62.7	113.14		7,616.1	862.5	448.1	325.6	122.56	3.657
19,000.0	11,703.0	19,150.3	11,879.0	62.1	63.4	113.14		7,716.1	862.3	448.2	324.2	123.97	3.615
19,100.0	11,703.0	19,250.3	11,879.0	62.9	64.1	113.14		7,816.1	862.0	448.2	322.8	125.37	3.575

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11410-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,200.0	11,703.0	19,350.3	11,879.0	63.6	64.8	113.14	7,916.1	861.7	448.2	321.4	126.78	3.535	
19,300.0	11,703.0	19,450.3	11,879.0	64.3	65.6	113.14	8,016.1	861.4	448.2	320.0	128.20	3.496	
19,400.0	11,703.0	19,550.3	11,879.0	65.0	66.3	113.14	8,116.1	861.2	448.2	318.6	129.61	3.458	
19,500.0	11,703.0	19,650.3	11,879.0	65.7	67.0	113.14	8,216.1	860.9	448.2	317.2	131.03	3.421	
19,600.0	11,703.0	19,750.3	11,879.0	66.5	67.7	113.14	8,316.1	860.6	448.3	315.8	132.45	3.384	
19,700.0	11,703.0	19,850.3	11,879.0	67.2	68.4	113.14	8,416.1	860.3	448.3	314.4	133.87	3.349	
19,800.0	11,703.0	19,950.3	11,879.0	67.9	69.1	113.14	8,516.1	860.1	448.3	313.0	135.29	3.314	
19,900.0	11,703.0	20,050.3	11,879.0	68.6	69.8	113.14	8,616.1	859.8	448.3	311.6	136.72	3.279	
20,000.0	11,703.0	20,150.3	11,879.0	69.4	70.5	113.13	8,716.1	859.5	448.3	310.2	138.14	3.245	
20,100.0	11,703.0	20,250.3	11,879.0	70.1	71.2	113.13	8,816.1	859.2	448.3	308.8	139.57	3.212	
20,200.0	11,703.0	20,350.3	11,879.0	70.8	71.9	113.13	8,916.1	859.0	448.4	307.4	141.00	3.180	
20,300.0	11,703.0	20,450.3	11,879.0	71.6	72.7	113.13	9,016.1	858.7	448.4	305.9	142.43	3.148	
20,400.0	11,703.0	20,550.3	11,879.0	72.3	73.4	113.13	9,116.1	858.4	448.4	304.5	143.87	3.117	
20,500.0	11,703.0	20,650.3	11,879.0	73.0	74.1	113.13	9,216.1	858.1	448.4	303.1	145.30	3.086	
20,600.0	11,703.0	20,750.3	11,879.0	73.7	74.8	113.13	9,316.1	857.9	448.4	301.7	146.74	3.056	
20,700.0	11,703.0	20,850.3	11,879.0	74.5	75.5	113.13	9,416.1	857.6	448.4	300.3	148.18	3.026	
20,800.0	11,703.0	20,950.3	11,879.0	75.2	76.2	113.13	9,516.1	857.3	448.4	298.8	149.62	2.997	
20,900.0	11,703.0	21,050.3	11,879.0	75.9	77.0	113.13	9,616.1	857.0	448.5	297.4	151.06	2.969	
21,000.0	11,703.0	21,150.3	11,879.0	76.7	77.7	113.12	9,716.1	856.8	448.5	296.0	152.50	2.941	
21,100.0	11,703.0	21,250.3	11,879.0	77.4	78.4	113.12	9,816.1	856.5	448.5	294.5	153.94	2.913	
21,200.0	11,703.0	21,350.3	11,879.0	78.1	79.1	113.12	9,916.1	856.2	448.5	293.1	155.39	2.886	
21,300.0	11,703.0	21,450.3	11,879.0	78.9	79.8	113.12	10,016.1	855.9	448.5	291.7	156.84	2.860	
21,400.0	11,703.0	21,550.3	11,879.0	79.6	80.6	113.12	10,116.1	855.7	448.5	290.3	158.28	2.834	
21,500.0	11,703.0	21,650.3	11,879.0	80.3	81.3	113.12	10,216.1	855.4	448.6	288.8	159.73	2.808	
21,600.0	11,703.0	21,750.3	11,879.0	81.1	82.0	113.12	10,316.1	855.1	448.6	287.4	161.18	2.783	
21,700.0	11,703.0	21,850.3	11,879.0	81.8	82.8	113.12	10,416.1	854.8	448.6	286.0	162.63	2.758	
21,800.0	11,703.0	21,950.3	11,879.0	82.6	83.5	113.12	10,516.1	854.6	448.6	284.5	164.08	2.734	
21,900.0	11,703.0	22,050.3	11,879.0	83.3	84.2	113.12	10,616.1	854.3	448.6	283.1	165.54	2.710	
21,991.7	11,703.0	22,142.1	11,879.0	84.0	84.9	113.12	10,707.8	854.0	448.6	281.8	166.87	2.689	
22,000.0	11,703.0	22,150.3	11,879.0	84.0	84.9	113.12	10,716.1	854.0	448.6	281.7	166.97	2.687	
22,041.7	11,703.0	22,192.1	11,879.0	84.3	85.2	113.12	10,757.8	853.9	448.6	281.1	167.50	2.678 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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	90.29	-0.3	60.1	60.1				
100.0	100.0	99.9	99.9	3.0	3.0	90.29	-0.3	60.1	60.1	53.6	6.52	9.216	
200.0	200.0	199.9	199.9	3.2	3.2	90.29	-0.3	60.1	60.1	53.3	6.76	8.889	
300.0	300.0	299.9	299.9	3.3	3.3	90.29	-0.3	60.1	60.1	53.1	6.99	8.595	
400.0	400.0	399.9	399.9	3.4	3.4	90.29	-0.3	60.1	60.1	52.9	7.21	8.329	
500.0	500.0	499.9	499.9	3.5	3.5	90.29	-0.3	60.1	60.1	52.7	7.43	8.087	
600.0	600.0	599.9	599.9	3.7	3.7	90.29	-0.3	60.1	60.1	52.5	7.64	7.865	
700.0	700.0	699.9	699.9	3.8	3.8	90.29	-0.3	60.1	60.1	52.2	7.84	7.661	
800.0	800.0	799.9	799.9	3.9	3.9	90.29	-0.3	60.1	60.1	52.0	8.04	7.472	
900.0	900.0	899.9	899.9	4.0	4.0	90.29	-0.3	60.1	60.1	51.9	8.23	7.297	
1,000.0	1,000.0	999.9	999.9	4.2	4.2	90.29	-0.3	60.1	60.1	51.7	8.42	7.134	
1,100.0	1,100.0	1,099.9	1,099.9	4.3	4.3	90.29	-0.3	60.1	60.1	51.5	8.61	6.982	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	90.29	-0.3	60.1	60.1	51.3	8.79	6.839	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	90.29	-0.3	60.1	60.1	51.1	8.96	6.705	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	90.29	-0.3	60.1	60.1	51.0	9.13	6.578	
1,500.0	1,500.0	1,499.9	1,499.9	4.8	4.8	90.29	-0.3	60.1	60.1	50.8	9.30	6.459 CC	
1,600.0	1,600.0	1,598.6	1,598.6	4.9	4.9	40.47	0.3	61.2	60.2	50.7	9.52	6.323	
1,700.0	1,699.9	1,697.3	1,697.2	5.0	5.0	41.01	2.2	64.5	60.6	50.7	9.90	6.115 ES	
1,800.0	1,799.7	1,795.9	1,795.6	5.2	5.2	41.90	5.4	70.0	61.2	50.9	10.30	5.938	
1,900.0	1,899.3	1,894.1	1,893.4	5.5	5.3	43.27	9.7	77.9	62.3	51.6	10.62	5.864	
2,000.0	1,998.6	1,991.9	1,990.4	5.7	5.6	45.66	14.2	89.0	64.8	53.8	11.06	5.862	
2,033.3	2,031.6	2,024.4	2,022.6	5.8	5.7	46.65	15.7	93.4	66.1	54.9	11.17	5.913	
2,100.0	2,097.6	2,089.5	2,086.9	5.9	5.9	38.54	18.9	103.4	69.0	57.6	11.45	6.028	
2,158.1	2,155.2	2,146.2	2,142.6	6.0	6.1	30.42	21.8	113.2	72.0	60.3	11.71	6.149	
2,200.0	2,196.7	2,187.0	2,182.6	6.1	6.2	30.14	23.9	121.0	74.6	62.7	11.90	6.266	
2,300.0	2,295.7	2,284.0	2,277.2	6.4	6.6	29.23	29.0	141.7	83.1	70.6	12.48	6.659	
2,400.0	2,394.7	2,382.9	2,373.3	6.7	6.9	28.23	34.4	165.0	93.8	80.7	13.09	7.163	
2,500.0	2,493.7	2,482.4	2,469.7	7.0	7.3	27.42	39.8	188.4	104.5	90.8	13.73	7.610	
2,600.0	2,592.8	2,581.8	2,566.2	7.3	7.6	26.77	45.2	211.9	115.3	100.9	14.40	8.003	
2,700.0	2,691.8	2,681.2	2,662.6	7.7	8.0	26.23	50.6	235.3	126.1	111.0	15.10	8.348	
2,800.0	2,790.8	2,780.6	2,759.1	8.0	8.4	25.77	56.0	258.7	136.8	121.0	15.82	8.652	
2,900.0	2,889.9	2,880.0	2,855.5	8.4	8.8	25.38	61.4	282.2	147.6	131.1	16.55	8.921	
3,000.0	2,988.9	2,979.4	2,952.0	8.7	9.2	25.04	66.9	305.6	158.4	141.1	17.30	9.159	
3,100.0	3,087.9	3,078.8	3,048.5	9.1	9.6	24.74	72.3	329.0	169.2	151.2	18.06	9.370	
3,200.0	3,186.9	3,178.2	3,144.9	9.5	10.0	24.48	77.7	352.5	180.1	161.2	18.84	9.559	
3,300.0	3,286.0	3,277.6	3,241.4	9.9	10.4	24.25	83.1	375.9	190.9	171.3	19.62	9.727	
3,400.0	3,385.0	3,377.1	3,337.8	10.3	10.8	24.05	88.5	399.3	201.7	181.3	20.42	9.878	
3,500.0	3,484.0	3,476.5	3,434.3	10.7	11.3	23.87	93.9	422.8	212.5	191.3	21.22	10.015	
3,600.0	3,583.0	3,575.9	3,530.8	11.1	11.7	23.70	99.3	446.2	223.3	201.3	22.03	10.138	
3,700.0	3,682.1	3,675.3	3,627.2	11.4	12.2	23.55	104.7	469.6	234.2	211.3	22.85	10.249	
3,800.0	3,781.1	3,774.7	3,723.7	11.8	12.6	23.41	110.1	493.1	245.0	221.3	23.67	10.350	
3,900.0	3,880.1	3,874.1	3,820.1	12.2	13.1	23.28	115.5	516.5	255.8	231.3	24.50	10.443	
4,000.0	3,979.1	3,973.5	3,916.6	12.7	13.5	23.17	121.0	539.9	266.6	241.3	25.33	10.527	
4,100.0	4,078.2	4,072.9	4,013.0	13.1	14.0	23.06	126.4	563.4	277.5	251.3	26.16	10.605	
4,200.0	4,177.2	4,172.3	4,109.5	13.5	14.4	22.96	131.8	586.8	288.3	261.3	27.00	10.676	
4,300.0	4,276.2	4,271.8	4,206.0	13.9	14.9	22.87	137.2	610.2	299.1	271.3	27.85	10.742	
4,400.0	4,375.3	4,371.2	4,302.4	14.3	15.3	22.79	142.6	633.7	310.0	281.3	28.69	10.802	
4,500.0	4,474.3	4,470.6	4,398.9	14.7	15.8	22.71	148.0	657.1	320.8	291.2	29.54	10.858	
4,600.0	4,573.3	4,570.0	4,495.3	15.1	16.3	22.63	153.4	680.5	331.6	301.2	30.39	10.910	
4,700.0	4,672.3	4,669.4	4,591.8	15.5	16.7	22.56	158.8	704.0	342.4	311.2	31.25	10.959	
4,800.0	4,771.4	4,768.8	4,688.2	15.9	17.2	22.50	164.2	727.4	353.3	321.2	32.11	11.004	
4,900.0	4,870.4	4,868.2	4,784.7	16.4	17.7	22.44	169.6	750.8	364.1	331.2	32.96	11.046	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
5,000.0	4,969.4	4,967.6	4,881.2	16.8	18.1	22.38	175.1	774.3	374.9	341.1	33.82	11.085	
5,081.4	5,050.0	5,048.5	4,959.7	17.1	18.5	22.33	179.5	793.3	383.8	349.2	34.52	11.118	
5,100.0	5,068.4	5,067.0	4,977.6	17.2	18.6	22.33	180.5	797.7	385.8	351.1	34.67	11.127	
5,200.0	5,167.6	5,166.3	5,073.9	17.6	19.1	22.26	185.9	821.1	397.7	362.2	35.55	11.190	
5,300.0	5,267.0	5,265.4	5,170.1	18.0	19.5	22.11	191.3	844.5	411.3	374.9	36.41	11.295	
5,400.0	5,366.6	5,364.2	5,266.0	18.4	20.0	21.89	196.6	867.8	426.4	389.2	37.28	11.439	
5,500.0	5,466.3	5,462.8	5,361.6	18.7	20.5	21.60	202.0	891.0	443.2	405.1	38.14	11.621	
5,600.0	5,566.1	5,561.0	5,456.9	19.1	20.9	21.27	207.4	914.1	461.6	422.6	38.99	11.838	
5,700.0	5,666.1	5,658.9	5,551.9	19.4	21.4	20.90	212.7	937.2	481.6	441.7	39.82	12.092	
5,800.0	5,766.0	5,756.5	5,646.6	19.7	21.9	20.50	218.0	960.2	503.2	462.6	40.63	12.384	
5,881.4	5,847.4	5,835.6	5,723.3	19.8	22.2	88.16	222.3	978.9	522.0	480.8	41.20	12.670	
5,900.0	5,866.0	5,853.6	5,740.9	19.8	22.3	88.07	223.3	983.1	526.4	485.1	41.31	12.744	
6,000.0	5,966.0	5,950.7	5,835.0	19.9	22.8	87.58	228.6	1,006.0	550.2	508.3	41.93	13.122	
6,100.0	6,066.0	6,047.7	5,929.1	19.9	23.3	87.14	233.8	1,028.9	574.0	531.5	42.54	13.494	
6,200.0	6,166.0	6,144.7	6,023.3	20.0	23.7	86.73	239.1	1,051.7	597.9	554.7	43.15	13.856	
6,300.0	6,266.0	6,241.8	6,117.4	20.0	24.2	86.36	244.4	1,074.6	621.7	578.0	43.76	14.209	
6,400.0	6,366.0	6,338.8	6,211.6	20.0	24.7	86.01	249.7	1,097.5	645.6	601.3	44.37	14.553	
6,500.0	6,466.0	6,435.8	6,305.7	20.1	25.1	85.68	255.0	1,120.4	669.6	624.6	44.97	14.888	
6,600.0	6,566.0	6,532.8	6,399.9	20.1	25.6	85.38	260.2	1,143.2	693.5	647.9	45.58	15.214	
6,700.0	6,666.0	6,629.9	6,494.0	20.2	26.1	85.10	265.5	1,166.1	717.5	671.3	46.19	15.533	
6,800.0	6,766.0	6,726.9	6,588.2	20.2	26.5	84.84	270.8	1,189.0	741.4	694.6	46.80	15.843	
6,900.0	6,866.0	6,824.8	6,683.2	20.3	27.0	84.59	276.1	1,212.0	765.4	718.0	47.41	16.144	
7,000.0	6,966.0	6,958.3	6,813.4	20.3	27.6	84.30	282.7	1,240.4	787.1	738.8	48.25	16.311	
7,100.0	7,066.0	7,094.3	6,947.4	20.4	28.3	84.09	287.9	1,263.2	804.1	755.1	48.99	16.414	
7,200.0	7,166.0	7,232.2	7,084.2	20.4	28.9	83.94	291.8	1,280.0	816.5	766.9	49.58	16.467	
7,300.0	7,266.0	7,371.6	7,223.2	20.5	29.4	83.85	294.2	1,290.4	824.1	774.1	50.01	16.478	
7,400.0	7,366.0	7,511.6	7,363.1	20.5	29.8	83.82	295.1	1,294.2	826.9	776.7	50.19	16.474	
7,500.0	7,466.0	7,614.4	7,466.0	20.5	29.9	83.82	295.1	1,294.2	826.9	776.7	50.24	16.459	
7,600.0	7,566.0	7,714.4	7,566.0	20.6	29.9	83.82	295.1	1,294.2	826.9	776.6	50.31	16.436	
7,700.0	7,666.0	7,814.4	7,666.0	20.6	29.9	83.82	295.1	1,294.2	826.9	776.5	50.38	16.413	
7,800.0	7,766.0	7,914.4	7,766.0	20.7	30.0	83.82	295.1	1,294.2	826.9	776.5	50.45	16.391	
7,900.0	7,866.0	8,014.4	7,866.0	20.7	30.0	83.82	295.1	1,294.2	826.9	776.4	50.52	16.368	
8,000.0	7,966.0	8,114.4	7,966.0	20.8	30.0	83.82	295.1	1,294.2	826.9	776.3	50.59	16.345	
8,100.0	8,066.0	8,214.4	8,066.0	20.8	30.0	83.82	295.1	1,294.2	826.9	776.3	50.66	16.322	
8,200.0	8,166.0	8,314.4	8,166.0	20.9	30.1	83.82	295.1	1,294.2	826.9	776.2	50.74	16.299	
8,300.0	8,266.0	8,414.4	8,266.0	20.9	30.1	83.82	295.1	1,294.2	826.9	776.1	50.81	16.275	
8,400.0	8,366.0	8,514.4	8,366.0	21.0	30.1	83.82	295.1	1,294.2	826.9	776.0	50.88	16.252	
8,500.0	8,466.0	8,614.4	8,466.0	21.0	30.2	83.82	295.1	1,294.2	826.9	776.0	50.95	16.229	
8,600.0	8,566.0	8,714.4	8,566.0	21.1	30.2	83.82	295.1	1,294.2	826.9	775.9	51.03	16.205	
8,700.0	8,666.0	8,814.4	8,666.0	21.1	30.2	83.82	295.1	1,294.2	826.9	775.8	51.10	16.182	
8,800.0	8,766.0	8,914.4	8,766.0	21.2	30.2	83.82	295.1	1,294.2	826.9	775.7	51.17	16.159	
8,900.0	8,866.0	9,014.4	8,866.0	21.2	30.3	83.82	295.1	1,294.2	826.9	775.7	51.25	16.135	
9,000.0	8,966.0	9,114.4	8,966.0	21.3	30.3	83.82	295.1	1,294.2	826.9	775.6	51.32	16.111	
9,100.0	9,066.0	9,214.4	9,066.0	21.3	30.3	83.82	295.1	1,294.2	826.9	775.5	51.40	16.088	
9,200.0	9,166.0	9,314.4	9,166.0	21.4	30.4	83.82	295.1	1,294.2	826.9	775.4	51.48	16.064	
9,300.0	9,266.0	9,414.4	9,266.0	21.4	30.4	83.82	295.1	1,294.2	826.9	775.4	51.55	16.040	
9,400.0	9,366.0	9,514.4	9,366.0	21.5	30.4	83.82	295.1	1,294.2	826.9	775.3	51.63	16.016	
9,500.0	9,466.0	9,614.4	9,466.0	21.5	30.5	83.82	295.1	1,294.2	826.9	775.2	51.71	15.993	
9,600.0	9,566.0	9,714.4	9,566.0	21.6	30.5	83.82	295.1	1,294.2	826.9	775.1	51.78	15.969	
9,700.0	9,666.0	9,814.4	9,666.0	21.6	30.5	83.82	295.1	1,294.2	826.9	775.1	51.86	15.945	
9,800.0	9,766.0	9,914.4	9,766.0	21.7	30.6	83.82	295.1	1,294.2	826.9	775.0	51.94	15.921	
9,900.0	9,866.0	10,014.4	9,866.0	21.7	30.6	83.82	295.1	1,294.2	826.9	774.9	52.02	15.897	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,966.0	10,114.4	9,966.0	21.8	30.6	83.82	295.1	1,294.2	826.9	774.8	52.10	15.872	
10,100.0	10,066.0	10,214.4	10,066.0	21.8	30.7	83.82	295.1	1,294.2	826.9	774.7	52.18	15.848	
10,200.0	10,166.0	10,314.4	10,166.0	21.9	30.7	83.82	295.1	1,294.2	826.9	774.7	52.26	15.824	
10,300.0	10,266.0	10,414.4	10,266.0	21.9	30.7	83.82	295.1	1,294.2	826.9	774.6	52.34	15.800	
10,400.0	10,366.0	10,514.4	10,366.0	22.0	30.8	83.82	295.1	1,294.2	826.9	774.5	52.42	15.776	
10,500.0	10,466.0	10,614.4	10,466.0	22.0	30.8	83.82	295.1	1,294.2	826.9	774.4	52.50	15.751	
10,600.0	10,566.0	10,714.4	10,566.0	22.1	30.8	83.82	295.1	1,294.2	826.9	774.3	52.58	15.727	
10,700.0	10,666.0	10,814.4	10,666.0	22.1	30.9	83.82	295.1	1,294.2	826.9	774.3	52.66	15.703	
10,800.0	10,766.0	10,914.4	10,766.0	22.2	30.9	83.82	295.1	1,294.2	826.9	774.2	52.74	15.678	
10,900.0	10,866.0	11,014.4	10,866.0	22.2	30.9	83.82	295.1	1,294.2	826.9	774.1	52.83	15.654	
11,000.0	10,966.0	11,114.4	10,966.0	22.3	31.0	83.82	295.1	1,294.2	826.9	774.0	52.91	15.629	
11,100.0	11,066.0	11,214.4	11,066.0	22.3	31.0	83.82	295.1	1,294.2	826.9	773.9	52.99	15.605	
11,164.0	11,130.0	11,278.4	11,129.9	22.4	31.0	83.82	295.1	1,294.2	826.9	773.9	53.03	15.594	
11,200.0	11,166.0	11,309.9	11,161.4	22.4	31.0	84.00	295.9	1,294.2	826.9	773.8	53.07	15.581	
11,250.0	11,215.7	11,353.3	11,204.6	22.4	31.0	84.05	299.8	1,294.2	826.8	773.7	53.13	15.562	
11,300.0	11,264.8	11,400.0	11,250.6	22.4	31.0	84.15	307.7	1,294.2	826.7	773.5	53.16	15.552	
11,350.0	11,312.8	11,440.4	11,289.8	22.4	31.0	84.28	317.5	1,294.1	826.5	773.3	53.21	15.532	
11,400.0	11,359.4	11,484.1	11,331.3	22.4	31.0	84.45	331.2	1,294.1	826.2	773.0	53.24	15.520	
11,450.0	11,404.3	11,528.0	11,371.8	22.5	31.0	84.67	348.1	1,294.1	826.0	772.7	53.25	15.511	
11,500.0	11,447.1	11,572.1	11,411.1	22.5	31.1	84.91	368.2	1,294.0	825.6	772.4	53.25	15.504	
11,550.0	11,487.5	11,616.4	11,448.8	22.5	31.1	85.19	391.3	1,293.9	825.3	772.1	53.25	15.499	
11,600.0	11,525.1	11,661.0	11,484.9	22.5	31.1	85.51	417.4	1,293.9	824.9	771.7	53.24	15.496	
11,650.0	11,559.8	11,705.8	11,519.1	22.6	31.1	85.86	446.5	1,293.8	824.6	771.4	53.22	15.494	
11,700.0	11,591.2	11,750.0	11,550.4	22.6	31.1	86.22	477.6	1,293.7	824.2	771.0	53.19	15.494	
11,750.0	11,619.1	11,796.5	11,580.7	22.6	31.1	86.63	513.0	1,293.6	823.8	770.7	53.17	15.493	
11,800.0	11,643.2	11,842.5	11,607.7	22.7	31.1	87.06	550.1	1,293.5	823.5	770.4	53.16	15.492	
11,850.0	11,663.5	11,888.9	11,631.8	22.7	31.2	87.51	589.7	1,293.4	823.2	770.1	53.14	15.490	
11,900.0	11,679.7	11,935.7	11,652.9	22.7	31.2	87.98	631.6	1,293.3	823.0	769.8	53.14	15.486	
11,950.0	11,691.7	11,983.1	11,670.7	22.8	31.2	88.47	675.5	1,293.2	822.7	769.6	53.15	15.480	
12,000.0	11,699.4	12,031.0	11,684.9	22.8	31.2	88.97	721.2	1,293.0	822.6	769.4	53.18	15.469	
12,050.0	11,702.8	12,079.5	11,695.3	22.9	31.3	89.48	768.5	1,292.9	822.5	769.3	53.22	15.454	
12,064.0	11,703.0	12,093.2	11,697.5	22.9	31.3	89.62	782.0	1,292.9	822.5	769.2	53.24	15.449	
12,093.4	11,703.0	12,122.2	11,701.1	23.0	31.3	89.88	810.8	1,292.8	822.5	769.2	53.28	15.435	
12,100.0	11,703.0	12,128.7	11,701.8	23.0	31.3	89.92	817.3	1,292.8	822.5	769.2	53.30	15.432	
12,200.0	11,703.0	12,228.7	11,704.0	23.1	31.4	90.08	917.2	1,292.5	822.5	768.9	53.61	15.343	
12,300.0	11,703.0	12,328.7	11,704.0	23.3	31.6	90.08	1,017.2	1,292.2	822.5	768.5	53.98	15.236	
12,400.0	11,703.0	12,428.7	11,704.0	23.5	31.7	90.08	1,117.2	1,292.0	822.5	768.1	54.40	15.120	
12,500.0	11,703.0	12,528.7	11,704.0	23.7	31.9	90.08	1,217.2	1,291.7	822.6	767.7	54.85	14.995	
12,600.0	11,703.0	12,628.7	11,704.0	23.9	32.0	90.08	1,317.2	1,291.4	822.6	767.2	55.35	14.863	
12,700.0	11,703.0	12,728.7	11,704.0	24.2	32.2	90.08	1,417.2	1,291.2	822.6	766.7	55.87	14.722	
12,800.0	11,703.0	12,828.7	11,704.0	24.5	32.5	90.08	1,517.2	1,290.9	822.6	766.2	56.44	14.576	
12,900.0	11,703.0	12,928.7	11,704.0	24.8	32.7	90.08	1,617.2	1,290.6	822.6	765.6	57.04	14.423	
13,000.0	11,703.0	13,028.7	11,704.0	25.1	33.0	90.08	1,717.2	1,290.4	822.7	765.0	57.67	14.266	
13,100.0	11,703.0	13,128.7	11,704.0	25.5	33.2	90.08	1,817.2	1,290.1	822.7	764.4	58.33	14.104	
13,200.0	11,703.0	13,228.7	11,704.0	25.9	33.5	90.08	1,917.2	1,289.8	822.7	763.7	59.03	13.938	
13,300.0	11,703.0	13,328.7	11,704.0	26.3	33.8	90.08	2,017.2	1,289.5	822.7	763.0	59.75	13.769	
13,400.0	11,703.0	13,428.7	11,704.0	26.7	34.1	90.08	2,117.2	1,289.3	822.8	762.2	60.51	13.598	
13,500.0	11,703.0	13,528.7	11,704.0	27.1	34.5	90.08	2,217.2	1,289.0	822.8	761.5	61.29	13.424	
13,600.0	11,703.0	13,628.7	11,704.0	27.6	34.8	90.08	2,317.2	1,288.7	822.8	760.7	62.10	13.250	
13,700.0	11,703.0	13,728.7	11,704.0	28.0	35.2	90.08	2,417.2	1,288.5	822.8	759.9	62.93	13.074	
13,800.0	11,703.0	13,828.7	11,704.0	28.5	35.6	90.08	2,517.2	1,288.2	822.8	759.0	63.79	12.898	
13,900.0	11,703.0	13,928.7	11,704.0	29.0	35.9	90.08	2,617.2	1,287.9	822.9	758.2	64.68	12.723	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS												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)			
14,000.0	11,703.0	14,028.7	11,704.0	29.5	36.3	90.08	2,717.2	1,287.6	822.9	757.3	65.58	12.547	
14,100.0	11,703.0	14,128.7	11,704.0	30.0	36.8	90.08	2,817.2	1,287.4	822.9	756.4	66.51	12.372	
14,200.0	11,703.0	14,228.7	11,704.0	30.5	37.2	90.08	2,917.2	1,287.1	822.9	755.5	67.46	12.198	
14,300.0	11,703.0	14,328.7	11,704.0	31.1	37.6	90.08	3,017.2	1,286.8	822.9	754.5	68.43	12.026	
14,400.0	11,703.0	14,428.7	11,704.0	31.6	38.1	90.08	3,117.2	1,286.6	823.0	753.5	69.42	11.855	
14,500.0	11,703.0	14,528.7	11,704.0	32.2	38.5	90.08	3,217.2	1,286.3	823.0	752.6	70.43	11.686	
14,600.0	11,703.0	14,628.7	11,704.0	32.7	39.0	90.08	3,317.2	1,286.0	823.0	751.6	71.45	11.518	
14,700.0	11,703.0	14,728.7	11,704.0	33.3	39.5	90.08	3,417.2	1,285.8	823.0	750.5	72.49	11.353	
14,800.0	11,703.0	14,828.7	11,704.0	33.9	40.0	90.08	3,517.2	1,285.5	823.1	749.5	73.55	11.190	
14,900.0	11,703.0	14,928.7	11,704.0	34.5	40.5	90.08	3,617.2	1,285.2	823.1	748.5	74.63	11.030	
15,000.0	11,703.0	15,028.7	11,704.0	35.1	41.0	90.08	3,717.2	1,284.9	823.1	747.4	75.71	10.871	
15,100.0	11,703.0	15,128.7	11,704.0	35.7	41.5	90.08	3,817.2	1,284.7	823.1	746.3	76.82	10.716	
15,200.0	11,703.0	15,228.7	11,704.0	36.3	42.0	90.08	3,917.2	1,284.4	823.1	745.2	77.93	10.562	
15,300.0	11,703.0	15,328.7	11,704.0	36.9	42.6	90.08	4,017.2	1,284.1	823.2	744.1	79.06	10.412	
15,400.0	11,703.0	15,428.7	11,704.0	37.5	43.1	90.08	4,117.2	1,283.9	823.2	743.0	80.20	10.264	
15,500.0	11,703.0	15,528.7	11,704.0	38.2	43.6	90.08	4,217.2	1,283.6	823.2	741.9	81.36	10.119	
15,600.0	11,703.0	15,628.7	11,704.0	38.8	44.2	90.08	4,317.2	1,283.3	823.2	740.7	82.52	9.976	
15,700.0	11,703.0	15,728.7	11,704.0	39.4	44.7	90.08	4,417.2	1,283.1	823.2	739.6	83.70	9.836	
15,800.0	11,703.0	15,828.7	11,704.0	40.1	45.3	90.08	4,517.2	1,282.8	823.3	738.4	84.88	9.699	
15,900.0	11,703.0	15,928.7	11,704.0	40.7	45.9	90.08	4,617.2	1,282.5	823.3	737.2	86.08	9.564	
16,000.0	11,703.0	16,028.7	11,704.0	41.4	46.5	90.08	4,717.2	1,282.2	823.3	736.0	87.28	9.433	
16,100.0	11,703.0	16,128.7	11,704.0	42.0	47.0	90.08	4,817.2	1,282.0	823.3	734.8	88.50	9.303	
16,200.0	11,703.0	16,228.7	11,704.0	42.7	47.6	90.08	4,917.2	1,281.7	823.4	733.6	89.72	9.177	
16,300.0	11,703.0	16,328.7	11,704.0	43.4	48.2	90.08	5,017.2	1,281.4	823.4	732.4	90.96	9.052	
16,400.0	11,703.0	16,428.7	11,704.0	44.0	48.8	90.08	5,117.2	1,281.2	823.4	731.2	92.20	8.931	
16,500.0	11,703.0	16,528.7	11,704.0	44.7	49.4	90.08	5,217.2	1,280.9	823.4	730.0	93.45	8.812	
16,600.0	11,703.0	16,628.7	11,704.0	45.4	50.0	90.08	5,317.2	1,280.6	823.4	728.7	94.70	8.695	
16,700.0	11,703.0	16,728.7	11,704.0	46.0	50.6	90.08	5,417.2	1,280.3	823.5	727.5	95.96	8.581	
16,800.0	11,703.0	16,828.7	11,704.0	46.7	51.2	90.08	5,517.2	1,280.1	823.5	726.3	97.23	8.469	
16,900.0	11,703.0	16,928.7	11,704.0	47.4	51.9	90.08	5,617.2	1,279.8	823.5	725.0	98.51	8.360	
17,000.0	11,703.0	17,028.7	11,704.0	48.1	52.5	90.08	5,717.2	1,279.5	823.5	723.7	99.79	8.252	
17,100.0	11,703.0	17,128.7	11,704.0	48.8	53.1	90.08	5,817.2	1,279.3	823.6	722.5	101.08	8.147	
17,200.0	11,703.0	17,228.7	11,704.0	49.5	53.7	90.08	5,917.2	1,279.0	823.6	721.2	102.38	8.044	
17,300.0	11,703.0	17,328.7	11,704.0	50.1	54.4	90.08	6,017.2	1,278.7	823.6	719.9	103.68	7.944	
17,400.0	11,703.0	17,428.7	11,704.0	50.8	55.0	90.08	6,117.2	1,278.5	823.6	718.6	104.99	7.845	
17,500.0	11,703.0	17,528.7	11,704.0	51.5	55.7	90.08	6,217.2	1,278.2	823.6	717.3	106.30	7.748	
17,600.0	11,703.0	17,628.7	11,704.0	52.2	56.3	90.08	6,317.2	1,277.9	823.7	716.0	107.62	7.654	
17,700.0	11,703.0	17,728.7	11,704.0	52.9	56.9	90.07	6,417.2	1,277.6	823.7	714.7	108.94	7.561	
17,800.0	11,703.0	17,828.7	11,704.0	53.6	57.6	90.07	6,517.2	1,277.4	823.7	713.4	110.26	7.470	
17,900.0	11,703.0	17,928.7	11,704.0	54.3	58.2	90.07	6,617.2	1,277.1	823.7	712.1	111.60	7.381	
18,000.0	11,703.0	18,028.7	11,704.0	55.0	58.9	90.07	6,717.2	1,276.8	823.7	710.8	112.93	7.294	
18,100.0	11,703.0	18,128.7	11,704.0	55.7	59.6	90.07	6,817.2	1,276.6	823.8	709.5	114.27	7.209	
18,200.0	11,703.0	18,228.7	11,704.0	56.4	60.2	90.07	6,917.2	1,276.3	823.8	708.2	115.61	7.125	
18,300.0	11,703.0	18,328.7	11,704.0	57.2	60.9	90.07	7,017.2	1,276.0	823.8	706.8	116.96	7.043	
18,400.0	11,703.0	18,428.7	11,704.0	57.9	61.5	90.07	7,117.2	1,275.7	823.8	705.5	118.31	6.963	
18,500.0	11,703.0	18,528.7	11,704.0	58.6	62.2	90.07	7,217.2	1,275.5	823.9	704.2	119.67	6.884	
18,600.0	11,703.0	18,628.7	11,704.0	59.3	62.9	90.07	7,317.2	1,275.2	823.9	702.8	121.03	6.807	
18,700.0	11,703.0	18,728.7	11,704.0	60.0	63.5	90.07	7,417.2	1,274.9	823.9	701.5	122.39	6.732	
18,800.0	11,703.0	18,828.7	11,704.0	60.7	64.2	90.07	7,517.2	1,274.7	823.9	700.2	123.76	6.658	
18,900.0	11,703.0	18,928.7	11,704.0	61.4	64.9	90.07	7,617.2	1,274.4	823.9	698.8	125.13	6.585	
19,000.0	11,703.0	19,028.7	11,704.0	62.1	65.6	90.07	7,717.2	1,274.1	824.0	697.5	126.50	6.514	
19,100.0	11,703.0	19,128.7	11,704.0	62.9	66.2	90.07	7,817.2	1,273.9	824.0	696.1	127.87	6.444	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11277-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,200.0	11,703.0	19,228.7	11,704.0	63.6	66.9	90.07	7,917.2	1,273.6	824.0	694.8	129.25	6.375	
19,300.0	11,703.0	19,328.7	11,704.0	64.3	67.6	90.07	8,017.2	1,273.3	824.0	693.4	130.63	6.308	
19,400.0	11,703.0	19,428.7	11,704.0	65.0	68.3	90.07	8,117.2	1,273.0	824.0	692.0	132.01	6.242	
19,500.0	11,703.0	19,528.7	11,704.0	65.7	69.0	90.07	8,217.2	1,272.8	824.1	690.7	133.40	6.177	
19,600.0	11,703.0	19,628.7	11,704.0	66.5	69.7	90.07	8,317.2	1,272.5	824.1	689.3	134.79	6.114	
19,700.0	11,703.0	19,728.7	11,704.0	67.2	70.4	90.07	8,417.2	1,272.2	824.1	687.9	136.18	6.052	
19,800.0	11,703.0	19,828.7	11,704.0	67.9	71.0	90.07	8,517.2	1,272.0	824.1	686.6	137.57	5.990	
19,900.0	11,703.0	19,928.7	11,704.0	68.6	71.7	90.07	8,617.2	1,271.7	824.2	685.2	138.97	5.930	
20,000.0	11,703.0	20,028.7	11,704.0	69.4	72.4	90.07	8,717.2	1,271.4	824.2	683.8	140.37	5.872	
20,100.0	11,703.0	20,128.7	11,704.0	70.1	73.1	90.07	8,817.2	1,271.2	824.2	682.4	141.77	5.814	
20,200.0	11,703.0	20,228.7	11,704.0	70.8	73.8	90.07	8,917.2	1,270.9	824.2	681.0	143.17	5.757	
20,300.0	11,703.0	20,328.7	11,704.0	71.6	74.5	90.07	9,017.2	1,270.6	824.2	679.7	144.58	5.701	
20,400.0	11,703.0	20,428.7	11,704.0	72.3	75.2	90.07	9,117.2	1,270.3	824.3	678.3	145.98	5.646	
20,500.0	11,703.0	20,528.7	11,704.0	73.0	75.9	90.07	9,217.2	1,270.1	824.3	676.9	147.39	5.592	
20,600.0	11,703.0	20,628.7	11,704.0	73.7	76.6	90.07	9,317.2	1,269.8	824.3	675.5	148.80	5.540	
20,700.0	11,703.0	20,728.7	11,704.0	74.5	77.3	90.07	9,417.2	1,269.5	824.3	674.1	150.22	5.488	
20,800.0	11,703.0	20,828.7	11,704.0	75.2	78.0	90.07	9,517.2	1,269.3	824.4	672.7	151.63	5.437	
20,900.0	11,703.0	20,928.7	11,704.0	75.9	78.7	90.07	9,617.2	1,269.0	824.4	671.3	153.05	5.386	
21,000.0	11,703.0	21,028.7	11,704.0	76.7	79.4	90.07	9,717.2	1,268.7	824.4	669.9	154.46	5.337	
21,100.0	11,703.0	21,128.7	11,704.0	77.4	80.1	90.07	9,817.2	1,268.4	824.4	668.5	155.88	5.289	
21,200.0	11,703.0	21,228.7	11,704.0	78.1	80.8	90.07	9,917.2	1,268.2	824.4	667.1	157.30	5.241	
21,300.0	11,703.0	21,328.7	11,704.0	78.9	81.5	90.07	10,017.2	1,267.9	824.5	665.7	158.73	5.194	
21,400.0	11,703.0	21,428.7	11,704.0	79.6	82.3	90.07	10,117.2	1,267.6	824.5	664.3	160.15	5.148	
21,500.0	11,703.0	21,528.7	11,704.0	80.3	83.0	90.07	10,217.2	1,267.4	824.5	662.9	161.58	5.103	
21,600.0	11,703.0	21,628.7	11,704.0	81.1	83.7	90.07	10,317.2	1,267.1	824.5	661.5	163.00	5.058	
21,700.0	11,703.0	21,728.7	11,704.0	81.8	84.4	90.07	10,417.2	1,266.8	824.5	660.1	164.43	5.015	
21,800.0	11,703.0	21,828.7	11,704.0	82.6	85.1	90.07	10,517.2	1,266.6	824.6	658.7	165.86	4.971	
21,900.0	11,703.0	21,928.7	11,704.0	83.3	85.8	90.07	10,617.2	1,266.3	824.6	657.3	167.29	4.929	
21,991.7	11,703.0	22,020.4	11,704.0	84.0	86.5	90.07	10,708.9	1,266.0	824.6	656.0	168.60	4.891	
22,000.0	11,703.0	22,028.7	11,704.0	84.0	86.5	90.07	10,717.2	1,266.0	824.6	655.9	168.71	4.888	
22,041.7	11,703.0	22,070.4	11,704.0	84.3	86.8	90.07	10,758.9	1,265.9	824.6	655.4	169.24	4.872 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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	90.30	-0.5	90.1	90.1				
100.0	100.0	99.9	99.9	3.0	3.0	90.30	-0.5	90.1	90.1	83.5	6.52	13.813	
200.0	200.0	199.9	199.9	3.2	3.2	90.30	-0.5	90.1	90.1	83.3	6.76	13.322	
300.0	300.0	299.9	299.9	3.3	3.3	90.30	-0.5	90.1	90.1	83.1	6.99	12.882	
400.0	400.0	399.9	399.9	3.4	3.4	90.30	-0.5	90.1	90.1	82.8	7.21	12.483	
500.0	500.0	499.9	499.9	3.5	3.5	90.30	-0.5	90.1	90.1	82.6	7.43	12.120	
600.0	600.0	599.9	599.9	3.7	3.7	90.30	-0.5	90.1	90.1	82.4	7.64	11.788	
700.0	700.0	699.9	699.9	3.8	3.8	90.30	-0.5	90.1	90.1	82.2	7.84	11.482	
800.0	800.0	799.9	799.9	3.9	3.9	90.30	-0.5	90.1	90.1	82.0	8.04	11.199	
900.0	900.0	899.9	899.9	4.0	4.0	90.30	-0.5	90.1	90.1	81.8	8.23	10.937	
1,000.0	1,000.0	999.9	999.9	4.2	4.2	90.30	-0.5	90.1	90.1	81.6	8.42	10.692 CC, ES	
1,100.0	1,100.0	1,096.9	1,096.9	4.3	4.3	90.13	-0.2	91.7	91.7	83.0	8.71	10.526 SF	
1,200.0	1,200.0	1,193.6	1,193.5	4.4	4.4	89.67	0.6	96.5	96.7	87.7	9.00	10.753	
1,300.0	1,300.0	1,289.9	1,289.4	4.5	4.6	89.00	1.8	104.5	105.1	95.8	9.27	11.335	
1,400.0	1,400.0	1,385.5	1,384.4	4.6	4.8	88.23	3.6	115.6	116.7	107.2	9.54	12.239	
1,500.0	1,500.0	1,480.3	1,478.1	4.8	5.0	87.43	5.8	129.7	131.7	121.9	9.80	13.437	
1,600.0	1,600.0	1,574.3	1,570.4	4.9	5.2	36.82	8.5	146.7	148.9	138.8	10.06	14.799	
1,700.0	1,699.9	1,667.5	1,661.4	5.0	5.5	36.70	11.6	166.5	167.2	156.7	10.43	16.023	
1,800.0	1,799.7	1,760.5	1,751.6	5.2	5.7	36.93	15.2	189.2	186.6	175.8	10.75	17.351	
1,900.0	1,899.3	1,858.7	1,846.5	5.5	5.9	37.52	19.2	214.3	205.2	194.0	11.16	18.382	
2,000.0	1,998.6	1,957.3	1,941.7	5.7	6.1	38.42	23.2	239.5	221.8	210.2	11.65	19.047	
2,033.3	2,031.6	1,990.2	1,973.4	5.8	6.2	38.78	24.5	247.9	226.9	215.2	11.78	19.270	
2,100.0	2,097.6	2,056.1	2,037.1	5.9	6.4	30.07	27.2	264.7	236.6	224.5	12.09	19.563	
2,158.1	2,155.2	2,113.6	2,092.7	6.0	6.6	22.18	29.5	279.4	244.4	232.0	12.38	19.734	
2,200.0	2,196.7	2,155.2	2,132.8	6.1	6.7	22.28	31.2	290.1	249.8	237.2	12.60	19.825	
2,300.0	2,295.7	2,254.3	2,228.6	6.4	7.0	22.50	35.2	315.4	262.6	249.4	13.21	19.878	
2,400.0	2,394.7	2,353.5	2,324.4	6.7	7.4	22.70	39.2	340.7	275.5	261.7	13.86	19.882	
2,500.0	2,493.7	2,452.7	2,420.2	7.0	7.7	22.88	43.3	366.1	288.4	273.9	14.53	19.849	
2,600.0	2,592.8	2,551.8	2,516.0	7.3	8.1	23.05	47.3	391.4	301.3	286.1	15.23	19.789	
2,700.0	2,691.8	2,651.0	2,611.8	7.7	8.5	23.20	51.3	416.8	314.2	298.3	15.94	19.710	
2,800.0	2,790.8	2,750.2	2,707.5	8.0	8.9	23.35	55.3	442.1	327.1	310.4	16.67	19.617	
2,900.0	2,889.9	2,849.3	2,803.3	8.4	9.3	23.48	59.3	467.5	340.0	322.6	17.42	19.516	
3,000.0	2,988.9	2,948.5	2,899.1	8.7	9.7	23.60	63.3	492.8	352.9	334.7	18.18	19.409	
3,100.0	3,087.9	3,047.6	2,994.9	9.1	10.1	23.71	67.3	518.2	365.8	346.8	18.95	19.299	
3,200.0	3,186.9	3,146.8	3,090.7	9.5	10.6	23.82	71.4	543.5	378.7	358.9	19.73	19.189	
3,300.0	3,286.0	3,246.0	3,186.5	9.9	11.0	23.91	75.4	568.9	391.6	371.0	20.52	19.079	
3,400.0	3,385.0	3,345.1	3,282.2	10.3	11.4	24.01	79.4	594.2	404.5	383.2	21.32	18.970	
3,500.0	3,484.0	3,444.3	3,378.0	10.7	11.9	24.09	83.4	619.6	417.4	395.2	22.13	18.863	
3,600.0	3,583.0	3,543.5	3,473.8	11.1	12.3	24.17	87.4	644.9	430.3	407.3	22.94	18.759	
3,700.0	3,682.1	3,642.6	3,569.6	11.4	12.8	24.25	91.4	670.3	443.2	419.4	23.75	18.658	
3,800.0	3,781.1	3,741.8	3,665.4	11.8	13.2	24.32	95.4	695.6	456.1	431.5	24.57	18.559	
3,900.0	3,880.1	3,840.9	3,761.2	12.2	13.7	24.39	99.5	721.0	469.0	443.6	25.40	18.464	
4,000.0	3,979.1	3,940.1	3,856.9	12.7	14.1	24.45	103.5	746.3	481.9	455.7	26.23	18.372	
4,100.0	4,078.2	4,039.3	3,952.7	13.1	14.6	24.51	107.5	771.7	494.8	467.7	27.06	18.284	
4,200.0	4,177.2	4,138.4	4,048.5	13.5	15.1	24.57	111.5	797.0	507.7	479.8	27.90	18.198	
4,300.0	4,276.2	4,237.6	4,144.3	13.9	15.5	24.63	115.5	822.4	520.6	491.9	28.74	18.116	
4,400.0	4,375.3	4,336.8	4,240.1	14.3	16.0	24.68	119.5	847.7	533.5	503.9	29.58	18.037	
4,500.0	4,474.3	4,435.9	4,335.9	14.7	16.5	24.73	123.5	873.1	546.4	516.0	30.42	17.961	
4,600.0	4,573.3	4,535.1	4,431.6	15.1	16.9	24.78	127.6	898.4	559.3	528.1	31.27	17.887	
4,700.0	4,672.3	4,634.2	4,527.4	15.5	17.4	24.82	131.6	923.8	572.3	540.1	32.12	17.817	
4,800.0	4,771.4	4,733.4	4,623.2	15.9	17.9	24.87	135.6	949.1	585.2	552.2	32.97	17.749	
4,900.0	4,870.4	4,832.6	4,719.0	16.4	18.4	24.91	139.6	974.5	598.1	564.2	33.82	17.683	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
5,000.0	4,969.4	4,931.7	4,814.8	16.8	18.8	24.95	143.6	999.8	611.0	576.3		34.68	17.620
5,081.4	5,050.0	5,012.4	4,892.7	17.1	19.2	24.98	146.9	1,020.5	621.5	586.1		35.36	17.574
5,100.0	5,068.4	5,030.9	4,910.6	17.2	19.3	24.99	147.6	1,025.2	623.9	588.4		35.52	17.567
5,200.0	5,167.6	5,129.9	5,006.2	17.6	19.8	25.05	151.6	1,050.5	637.9	601.5		36.38	17.534
5,300.0	5,267.0	5,228.7	5,101.6	18.0	20.3	25.04	155.6	1,075.7	653.5	616.2		37.23	17.550
5,400.0	5,366.6	5,327.2	5,196.8	18.4	20.7	24.98	159.6	1,100.9	670.6	632.5		38.08	17.608
5,500.0	5,466.3	5,425.4	5,291.6	18.7	21.2	24.87	163.6	1,126.0	689.2	650.3		38.93	17.707
5,600.0	5,566.1	5,523.3	5,386.2	19.1	21.7	24.71	167.6	1,151.1	709.5	669.7		39.76	17.845
5,700.0	5,666.1	5,620.8	5,480.4	19.4	22.2	24.52	171.5	1,176.0	731.3	690.7		40.58	18.023
5,800.0	5,766.0	5,718.0	5,574.2	19.7	22.6	24.30	175.5	1,200.8	754.6	713.3		41.37	18.242
5,881.4	5,847.4	5,796.7	5,650.3	19.8	23.0	92.09	178.6	1,220.9	774.8	732.9		41.93	18.479
5,900.0	5,866.0	5,814.7	5,667.7	19.8	23.1	92.03	179.4	1,225.5	779.6	737.5		42.04	18.543
6,000.0	5,966.0	5,911.3	5,761.0	19.9	23.6	91.67	183.3	1,250.2	805.0	762.3		42.66	18.869
6,100.0	6,066.0	6,007.9	5,854.3	19.9	24.0	91.34	187.2	1,274.9	830.5	787.2		43.28	19.188
6,200.0	6,166.0	6,104.5	5,947.6	20.0	24.5	91.03	191.1	1,299.6	856.0	812.1		43.90	19.499
6,300.0	6,266.0	6,201.1	6,040.9	20.0	25.0	90.74	195.0	1,324.3	881.5	837.0		44.52	19.802
6,400.0	6,366.0	6,297.7	6,134.2	20.0	25.5	90.46	198.9	1,349.0	907.1	861.9		45.14	20.096
6,500.0	6,466.0	6,394.3	6,227.5	20.1	25.9	90.20	202.8	1,373.7	932.6	886.9		45.76	20.382
6,600.0	6,566.0	6,490.9	6,320.8	20.1	26.4	89.96	206.7	1,398.4	958.2	911.8		46.38	20.660
6,700.0	6,666.0	6,587.4	6,414.1	20.2	26.9	89.72	210.7	1,423.1	983.8	936.8		47.00	20.931

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.8	2.8	3.0	3.0	-163.56	-199.6	-58.9	208.1				
100.0	100.0	102.8	102.8	3.0	3.0	-163.56	-199.6	-58.9	208.1	201.6	6.52	31.902	
200.0	200.0	202.8	202.8	3.2	3.2	-163.56	-199.6	-58.9	208.1	201.4	6.77	30.729	
300.0	300.0	302.8	302.8	3.3	3.3	-163.56	-199.6	-58.9	208.1	201.1	7.02	29.651	
400.0	400.0	402.8	402.8	3.4	3.4	-163.56	-199.6	-58.9	208.1	200.9	7.26	28.656	
500.0	500.0	502.8	502.8	3.5	3.6	-163.56	-199.6	-58.9	208.1	200.6	7.51	27.734	
600.0	600.0	602.8	602.8	3.7	3.7	-163.56	-199.6	-58.9	208.1	200.4	7.74	26.876	
700.0	700.0	702.8	702.8	3.8	3.8	-163.56	-199.6	-58.9	208.1	200.2	7.98	26.074	
800.0	800.0	802.8	802.8	3.9	3.9	-163.56	-199.6	-58.9	208.1	199.9	8.22	25.324	
900.0	900.0	902.8	902.8	4.0	4.0	-163.56	-199.6	-58.9	208.1	199.7	8.45	24.620	
1,000.0	1,000.0	1,002.8	1,002.8	4.2	4.2	-163.56	-199.6	-58.9	208.1	199.5	8.69	23.958	
1,100.0	1,100.0	1,102.8	1,102.8	4.3	4.3	-163.56	-199.6	-58.9	208.1	199.2	8.92	23.333	
1,200.0	1,200.0	1,202.8	1,202.8	4.4	4.4	-163.56	-199.6	-58.9	208.1	199.0	9.15	22.743	
1,300.0	1,300.0	1,302.8	1,302.8	4.5	4.5	-163.56	-199.6	-58.9	208.1	198.8	9.38	22.184	
1,400.0	1,400.0	1,402.8	1,402.8	4.6	4.6	-163.56	-199.6	-58.9	208.1	198.5	9.61	21.654	
1,500.0	1,500.0	1,502.8	1,502.8	4.8	4.8	-163.56	-199.6	-58.9	208.1	198.3	9.84	21.150	
1,504.4	1,504.4	1,507.4	1,507.4	4.8	4.8	146.44	-199.6	-58.9	208.1	198.3	9.85	21.126 CC, ES	
1,600.0	1,600.0	1,605.3	1,605.2	4.9	4.9	147.14	-198.5	-60.5	208.6	198.6	10.07	20.715	
1,700.0	1,699.9	1,707.3	1,707.1	5.0	5.1	149.15	-195.2	-65.0	210.3	199.9	10.41	20.204	
1,800.0	1,799.7	1,808.5	1,807.9	5.2	5.4	152.37	-189.9	-72.3	213.6	202.9	10.74	19.891 SF	
1,900.0	1,899.3	1,907.8	1,906.5	5.5	5.5	156.43	-182.9	-81.9	219.5	208.5	11.01	19.928	
2,000.0	1,998.6	2,006.0	2,004.0	5.7	5.8	160.50	-175.9	-91.6	228.9	217.5	11.39	20.090	
2,033.3	2,031.6	2,038.7	2,036.4	5.8	5.8	161.83	-173.6	-94.8	232.8	221.3	11.48	20.271	
2,100.0	2,097.6	2,103.8	2,101.1	5.9	6.0	154.88	-168.9	-101.2	241.0	229.3	11.70	20.592	
2,158.1	2,155.2	2,160.5	2,157.3	6.0	6.2	148.94	-164.8	-106.8	248.0	236.2	11.89	20.863	
2,200.0	2,196.7	2,201.3	2,197.8	6.1	6.3	150.74	-161.9	-110.8	253.3	241.3	12.02	21.071	
2,300.0	2,295.7	2,298.7	2,294.5	6.4	6.6	154.73	-154.9	-120.4	266.8	254.3	12.44	21.445	
2,400.0	2,394.7	2,396.1	2,391.1	6.7	6.8	158.34	-148.0	-130.0	281.4	268.5	12.89	21.832	
2,500.0	2,493.7	2,493.5	2,487.8	7.0	7.2	161.59	-141.0	-139.6	297.1	283.7	13.37	22.218	
2,600.0	2,592.8	2,590.9	2,584.5	7.3	7.5	164.51	-134.0	-149.2	313.6	299.7	13.88	22.592	
2,700.0	2,691.8	2,688.2	2,681.1	7.7	7.8	167.15	-127.0	-158.8	330.9	316.5	14.42	22.951	
2,800.0	2,790.8	2,785.6	2,777.8	8.0	8.1	169.52	-120.1	-168.4	348.8	333.8	14.97	23.290	
2,900.0	2,889.9	2,883.0	2,874.5	8.4	8.5	171.66	-113.1	-178.0	367.2	351.6	15.55	23.609	
3,000.0	2,988.9	2,980.4	2,971.1	8.7	8.8	173.60	-106.1	-187.6	386.1	369.9	16.15	23.909	
3,100.0	3,087.9	3,077.8	3,067.8	9.1	9.2	175.35	-99.1	-197.2	405.3	388.6	16.76	24.189	
3,200.0	3,186.9	3,175.2	3,164.4	9.5	9.5	176.95	-92.2	-206.8	424.9	407.5	17.38	24.451	
3,300.0	3,286.0	3,272.6	3,261.1	9.9	9.9	178.41	-85.2	-216.4	444.8	426.8	18.01	24.696	
3,400.0	3,385.0	3,370.0	3,357.8	10.3	10.2	179.75	-78.2	-226.0	465.0	446.3	18.65	24.925	
3,500.0	3,484.0	3,467.4	3,454.4	10.7	10.6	-179.03	-71.2	-235.6	485.4	466.1	19.31	25.140	
3,600.0	3,583.0	3,564.8	3,551.1	11.1	11.0	-177.90	-64.3	-245.2	505.9	486.0	19.97	25.341	
3,700.0	3,682.1	3,662.1	3,647.8	11.4	11.4	-176.86	-57.3	-254.8	526.7	506.1	20.63	25.530	
3,800.0	3,781.1	3,759.5	3,744.4	11.8	11.7	-175.90	-50.3	-264.4	547.6	526.3	21.30	25.707	
3,900.0	3,880.1	3,856.9	3,841.1	12.2	12.1	-175.01	-43.3	-274.0	568.6	546.7	21.98	25.874	
4,000.0	3,979.1	3,954.3	3,937.8	12.7	12.5	-174.19	-36.4	-283.6	589.8	567.2	22.66	26.031	
4,100.0	4,078.2	4,051.7	4,034.4	13.1	12.9	-173.42	-29.4	-293.3	611.1	587.7	23.34	26.179	
4,200.0	4,177.2	4,149.1	4,131.1	13.5	13.3	-172.70	-22.4	-302.9	632.5	608.4	24.03	26.319	
4,300.0	4,276.2	4,246.5	4,227.8	13.9	13.6	-172.03	-15.4	-312.5	653.9	629.2	24.72	26.452	
4,400.0	4,375.3	4,343.9	4,324.4	14.3	14.0	-171.40	-8.4	-322.1	675.5	650.1	25.42	26.577	
4,500.0	4,474.3	4,441.3	4,421.1	14.7	14.4	-170.81	-1.5	-331.7	697.1	671.0	26.11	26.696	
4,600.0	4,573.3	4,538.7	4,517.7	15.1	14.8	-170.25	5.5	-341.3	718.8	692.0	26.81	26.809	
4,700.0	4,672.3	4,636.0	4,614.4	15.5	15.2	-169.73	12.5	-350.9	740.5	713.0	27.51	26.916	
4,800.0	4,771.4	4,733.4	4,711.1	15.9	15.6	-169.24	19.5	-360.5	762.3	734.1	28.22	27.018	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,870.4	4,830.8	4,807.7	16.4	16.0	-168.77	26.4	-370.1	784.2	755.3	28.92	27.115	
5,000.0	4,969.4	4,928.2	4,904.4	16.8	16.4	-168.33	33.4	-379.7	806.1	776.4	29.63	27.207	
5,081.4	5,050.0	5,007.5	4,983.1	17.1	16.7	-167.99	39.1	-387.5	823.9	793.7	30.19	27.288	
5,100.0	5,068.4	5,025.6	5,001.1	17.2	16.8	-167.92	40.4	-389.3	828.0	797.7	30.32	27.309	
5,200.0	5,167.6	5,123.2	5,098.0	17.6	17.2	-167.56	47.4	-398.9	848.8	817.8	31.03	27.354	
5,300.0	5,267.0	5,221.2	5,195.2	18.0	17.6	-167.18	54.4	-408.6	868.0	836.3	31.72	27.362	
5,400.0	5,366.6	5,319.4	5,292.7	18.4	18.0	-166.79	61.4	-418.2	885.6	853.2	32.41	27.328	
5,500.0	5,466.3	5,417.9	5,390.4	18.7	18.3	-166.39	68.5	-427.9	901.6	868.5	33.07	27.262	
5,600.0	5,566.1	5,526.6	5,498.4	19.1	18.8	-165.96	75.9	-438.1	915.5	881.7	33.76	27.119	
5,700.0	5,666.1	5,638.9	5,610.2	19.4	19.2	-165.59	82.3	-447.0	926.4	892.0	34.44	26.898	
5,800.0	5,766.0	5,751.8	5,722.8	19.7	19.6	-165.28	87.4	-454.0	934.3	899.2	35.07	26.643	
5,881.4	5,847.4	5,844.0	5,814.8	19.8	19.9	-97.07	90.7	-458.5	938.4	902.9	35.44	26.479	
5,900.0	5,866.0	5,865.2	5,835.9	19.8	20.0	-97.02	91.3	-459.3	939.0	903.5	35.50	26.455	
6,000.0	5,966.0	5,978.8	5,949.4	19.9	20.4	-96.84	93.8	-462.8	941.8	906.0	35.83	26.286	
6,100.0	6,066.0	6,092.5	6,063.1	19.9	20.7	-96.76	95.0	-464.5	943.2	907.0	36.11	26.120	
6,200.0	6,166.0	6,198.2	6,168.8	20.0	20.8	-96.75	95.1	-464.6	943.3	907.1	36.22	26.043	
6,300.0	6,266.0	6,298.2	6,268.8	20.0	20.8	-96.75	95.1	-464.6	943.3	907.0	36.32	25.974	
6,400.0	6,366.0	6,398.2	6,368.8	20.0	20.8	-96.75	95.1	-464.6	943.3	906.9	36.41	25.905	
6,500.0	6,466.0	6,498.2	6,468.8	20.1	20.9	-96.75	95.1	-464.6	943.3	906.8	36.51	25.837	
6,600.0	6,566.0	6,598.2	6,568.8	20.1	20.9	-96.75	95.1	-464.6	943.3	906.7	36.61	25.768	
6,700.0	6,666.0	6,698.2	6,668.8	20.2	21.0	-96.75	95.1	-464.6	943.3	906.6	36.70	25.699	
6,800.0	6,766.0	6,798.2	6,768.8	20.2	21.0	-96.75	95.1	-464.6	943.3	906.5	36.80	25.631	
6,900.0	6,866.0	6,898.2	6,868.8	20.3	21.1	-96.75	95.1	-464.6	943.3	906.4	36.90	25.562	
7,000.0	6,966.0	6,998.2	6,968.8	20.3	21.1	-96.75	95.1	-464.6	943.3	906.3	37.00	25.494	
7,100.0	7,066.0	7,098.2	7,068.8	20.4	21.2	-96.75	95.1	-464.6	943.3	906.2	37.10	25.426	
7,200.0	7,166.0	7,198.2	7,168.8	20.4	21.2	-96.75	95.1	-464.6	943.3	906.1	37.20	25.357	
7,300.0	7,266.0	7,298.2	7,268.8	20.5	21.3	-96.75	95.1	-464.6	943.3	906.0	37.30	25.289	
7,400.0	7,366.0	7,398.2	7,368.8	20.5	21.3	-96.75	95.1	-464.6	943.3	905.9	37.40	25.221	
7,500.0	7,466.0	7,498.2	7,468.8	20.5	21.3	-96.75	95.1	-464.6	943.3	905.8	37.50	25.153	
7,600.0	7,566.0	7,598.2	7,568.8	20.6	21.4	-96.75	95.1	-464.6	943.3	905.7	37.60	25.085	
7,700.0	7,666.0	7,698.2	7,668.8	20.6	21.4	-96.75	95.1	-464.6	943.3	905.6	37.71	25.017	
7,800.0	7,766.0	7,798.2	7,768.8	20.7	21.5	-96.75	95.1	-464.6	943.3	905.5	37.81	24.949	
7,900.0	7,866.0	7,898.2	7,868.8	20.7	21.5	-96.75	95.1	-464.6	943.3	905.4	37.91	24.881	
8,000.0	7,966.0	7,998.2	7,968.8	20.8	21.6	-96.75	95.1	-464.6	943.3	905.3	38.01	24.814	
8,100.0	8,066.0	8,098.2	8,068.8	20.8	21.6	-96.75	95.1	-464.6	943.3	905.2	38.12	24.746	
8,200.0	8,166.0	8,198.2	8,168.8	20.9	21.7	-96.75	95.1	-464.6	943.3	905.1	38.22	24.679	
8,300.0	8,266.0	8,298.2	8,268.8	20.9	21.7	-96.75	95.1	-464.6	943.3	905.0	38.33	24.612	
8,400.0	8,366.0	8,398.2	8,368.8	21.0	21.8	-96.75	95.1	-464.6	943.3	904.8	38.43	24.544	
8,500.0	8,466.0	8,498.2	8,468.8	21.0	21.8	-96.75	95.1	-464.6	943.3	904.7	38.54	24.477	
8,600.0	8,566.0	8,598.2	8,568.8	21.1	21.9	-96.75	95.1	-464.6	943.3	904.6	38.64	24.410	
8,700.0	8,666.0	8,698.2	8,668.8	21.1	21.9	-96.75	95.1	-464.6	943.3	904.5	38.75	24.344	
8,800.0	8,766.0	8,798.2	8,768.8	21.2	22.0	-96.75	95.1	-464.6	943.3	904.4	38.85	24.277	
8,900.0	8,866.0	8,898.2	8,868.8	21.2	22.0	-96.75	95.1	-464.6	943.3	904.3	38.96	24.210	
9,000.0	8,966.0	8,998.2	8,968.8	21.3	22.1	-96.75	95.1	-464.6	943.3	904.2	39.07	24.144	
9,100.0	9,066.0	9,098.2	9,068.8	21.3	22.1	-96.75	95.1	-464.6	943.3	904.1	39.18	24.078	
9,200.0	9,166.0	9,198.2	9,168.8	21.4	22.2	-96.75	95.1	-464.6	943.3	904.0	39.28	24.011	
9,300.0	9,266.0	9,298.2	9,268.8	21.4	22.2	-96.75	95.1	-464.6	943.3	903.9	39.39	23.945	
9,400.0	9,366.0	9,398.2	9,368.8	21.5	22.3	-96.75	95.1	-464.6	943.3	903.8	39.50	23.880	
9,500.0	9,466.0	9,498.2	9,468.8	21.5	22.3	-96.75	95.1	-464.6	943.3	903.7	39.61	23.814	
9,600.0	9,566.0	9,598.2	9,568.8	21.6	22.4	-96.75	95.1	-464.6	943.3	903.6	39.72	23.748	
9,700.0	9,666.0	9,698.2	9,668.8	21.6	22.4	-96.75	95.1	-464.6	943.3	903.4	39.83	23.683	
9,800.0	9,766.0	9,798.2	9,768.8	21.7	22.5	-96.75	95.1	-464.6	943.3	903.3	39.94	23.618	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11161-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,866.0	9,898.2	9,868.8	21.7	22.5	-96.75	95.1	-464.6	943.3	903.2	40.05	23.552		
10,000.0	9,966.0	9,998.2	9,968.8	21.8	22.6	-96.75	95.1	-464.6	943.3	903.1	40.16	23.487		
10,100.0	10,066.0	10,098.2	10,068.8	21.8	22.6	-96.75	95.1	-464.6	943.3	903.0	40.27	23.423		
10,200.0	10,166.0	10,198.2	10,168.8	21.9	22.7	-96.75	95.1	-464.6	943.3	902.9	40.38	23.358		
10,300.0	10,266.0	10,298.2	10,268.8	21.9	22.7	-96.75	95.1	-464.6	943.3	902.8	40.50	23.294		
10,400.0	10,366.0	10,398.2	10,368.8	22.0	22.8	-96.75	95.1	-464.6	943.3	902.7	40.61	23.229		
10,500.0	10,466.0	10,498.2	10,468.8	22.0	22.8	-96.75	95.1	-464.6	943.3	902.6	40.72	23.165		
10,600.0	10,566.0	10,598.2	10,568.8	22.1	22.9	-96.75	95.1	-464.6	943.3	902.4	40.83	23.101		
10,700.0	10,666.0	10,698.2	10,668.8	22.1	22.9	-96.75	95.1	-464.6	943.3	902.3	40.95	23.037		
10,800.0	10,766.0	10,798.2	10,768.8	22.2	23.0	-96.75	95.1	-464.6	943.3	902.2	41.06	22.974		
10,900.0	10,866.0	10,898.2	10,868.8	22.2	23.0	-96.75	95.1	-464.6	943.3	902.1	41.17	22.910		
11,000.0	10,966.0	10,998.2	10,968.8	22.3	23.1	-96.75	95.1	-464.6	943.3	902.0	41.29	22.847		
11,100.0	11,066.0	11,098.2	11,068.8	22.3	23.2	-96.75	95.1	-464.6	943.3	901.9	41.40	22.784		
11,142.4	11,108.4	11,140.6	11,111.2	22.4	23.2	-96.75	95.1	-464.6	943.3	901.8	41.44	22.764		
11,164.0	11,130.0	11,161.4	11,132.0	22.4	23.2	-96.75	95.1	-464.6	943.3	901.8	41.45	22.755		
11,200.0	11,166.0	11,192.4	11,163.0	22.4	23.2	-96.67	94.3	-464.6	943.5	902.1	41.46	22.759		
11,250.0	11,215.7	11,233.4	11,203.9	22.4	23.2	-97.03	90.6	-464.6	944.7	903.3	41.44	22.799		
11,300.0	11,264.8	11,271.9	11,241.9	22.4	23.2	-97.60	84.5	-464.6	947.0	905.6	41.39	22.882		
11,350.0	11,312.8	11,306.8	11,275.9	22.4	23.3	-98.23	76.8	-464.5	950.8	909.5	41.31	23.014		
11,400.0	11,359.4	11,337.4	11,305.3	22.4	23.3	-98.78	68.3	-464.5	956.3	915.1	41.22	23.201		
11,450.0	11,404.3	11,363.4	11,329.8	22.5	23.3	-99.11	59.9	-464.4	964.0	922.9	41.11	23.449		
11,500.0	11,447.1	11,384.8	11,349.8	22.5	23.3	-99.11	52.2	-464.4	974.0	933.0	40.99	23.763		
11,550.0	11,487.5	11,400.0	11,363.8	22.5	23.3	-98.60	46.2	-464.3	986.6	945.8	40.87	24.141		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.9	1.9	3.0	3.0	-171.74	-199.8	-29.0	201.9				
100.0	100.0	101.9	101.9	3.0	3.0	-171.74	-199.8	-29.0	201.9	195.4	6.52	30.948	
200.0	200.0	201.9	201.9	3.2	3.2	-171.74	-199.8	-29.0	201.9	195.1	6.77	29.808	
300.0	300.0	301.9	301.9	3.3	3.3	-171.74	-199.8	-29.0	201.9	194.9	7.02	28.759	
400.0	400.0	401.9	401.9	3.4	3.4	-171.74	-199.8	-29.0	201.9	194.6	7.27	27.789	
500.0	500.0	501.9	501.9	3.5	3.5	-171.74	-199.8	-29.0	201.9	194.4	7.51	26.889	
600.0	600.0	601.9	601.9	3.7	3.7	-171.74	-199.8	-29.0	201.9	194.2	7.75	26.051	
700.0	700.0	701.9	701.9	3.8	3.8	-171.74	-199.8	-29.0	201.9	193.9	7.99	25.268	
800.0	800.0	801.9	801.9	3.9	3.9	-171.74	-199.8	-29.0	201.9	193.7	8.23	24.534	
900.0	900.0	901.9	901.9	4.0	4.0	-171.74	-199.8	-29.0	201.9	193.4	8.47	23.846	
1,000.0	1,000.0	1,001.9	1,001.9	4.2	4.2	-171.74	-199.8	-29.0	201.9	193.2	8.70	23.197	
1,100.0	1,100.0	1,101.9	1,101.9	4.3	4.3	-171.74	-199.8	-29.0	201.9	193.0	8.94	22.586	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	-171.74	-199.8	-29.0	201.9	192.7	9.17	22.008	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	-171.74	-199.8	-29.0	201.9	192.5	9.41	21.461	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	-171.74	-199.8	-29.0	201.9	192.3	9.64	20.942	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	-171.74	-199.8	-29.0	201.9	192.0	9.88	20.445	
1,600.0	1,600.0	1,609.4	1,609.4	4.9	5.0	138.64	-197.7	-29.1	201.0	190.8	10.20	19.699	
1,700.0	1,699.9	1,716.6	1,716.4	5.0	5.3	139.80	-191.6	-29.3	198.4	187.7	10.64	18.640	
1,800.0	1,799.7	1,823.5	1,822.8	5.2	5.6	141.80	-181.6	-29.7	194.2	183.1	11.10	17.505	
1,900.0	1,899.3	1,927.9	1,926.4	5.5	5.9	144.63	-168.1	-30.3	189.0	177.5	11.55	16.359	
2,000.0	1,998.6	2,027.3	2,024.7	5.7	6.1	147.98	-154.3	-30.8	185.5	173.5	12.00	15.465	
2,033.3	2,031.6	2,060.4	2,057.5	5.8	6.2	149.21	-149.7	-31.0	185.0	172.9	12.11	15.272	
2,100.0	2,097.6	2,126.4	2,122.9	5.9	6.3	142.39	-140.5	-31.4	184.0	171.7	12.39	14.858	
2,158.1	2,155.2	2,183.9	2,179.8	6.0	6.5	136.79	-132.5	-31.7	182.8	170.2	12.61	14.491	
2,200.0	2,196.7	2,225.2	2,220.8	6.1	6.6	138.85	-126.7	-31.9	181.9	169.2	12.77	14.248	
2,300.0	2,295.7	2,324.0	2,318.5	6.4	6.9	143.82	-113.0	-32.5	180.9	167.7	13.22	13.682	
2,325.9	2,321.3	2,349.5	2,343.8	6.5	7.0	145.11	-109.4	-32.6	180.8	167.5	13.34	13.558 CC, ES	
2,400.0	2,394.7	2,422.7	2,416.3	6.7	7.2	148.81	-99.3	-33.0	181.2	167.5	13.67	13.253	
2,500.0	2,493.7	2,521.4	2,514.0	7.0	7.5	153.75	-85.5	-33.6	183.0	168.8	14.13	12.951	
2,600.0	2,592.8	2,620.1	2,611.8	7.3	7.8	158.56	-71.8	-34.1	186.1	171.5	14.58	12.765	
2,700.0	2,691.8	2,718.8	2,709.5	7.7	8.2	163.18	-58.1	-34.7	190.4	175.4	15.02	12.681 SF	
2,800.0	2,790.8	2,817.5	2,807.3	8.0	8.5	167.58	-44.4	-35.2	196.0	180.6	15.46	12.685	
2,900.0	2,889.9	2,916.2	2,905.1	8.4	8.9	171.71	-30.6	-35.8	202.8	186.9	15.89	12.762	
3,000.0	2,988.9	3,015.0	3,002.8	8.7	9.2	175.56	-16.9	-36.3	210.5	194.1	16.31	12.900	
3,100.0	3,087.9	3,113.7	3,100.6	9.1	9.6	179.13	-3.2	-36.9	219.1	202.3	16.74	13.086	
3,200.0	3,186.9	3,212.4	3,198.3	9.5	10.0	-177.57	10.6	-37.4	228.5	211.3	17.16	13.310	
3,300.0	3,286.0	3,311.1	3,296.1	9.9	10.3	-174.54	24.3	-38.0	238.6	221.0	17.59	13.565	
3,400.0	3,385.0	3,409.4	3,393.5	10.3	10.7	-171.81	37.8	-38.5	249.3	231.3	17.98	13.869	
3,500.0	3,484.0	3,507.5	3,490.8	10.7	11.0	-169.62	49.8	-39.0	260.8	242.4	18.42	14.158	
3,600.0	3,583.0	3,605.8	3,588.5	11.1	11.4	-167.96	60.3	-39.4	272.9	254.0	18.89	14.449	
3,700.0	3,682.1	3,704.2	3,686.6	11.4	11.8	-166.78	69.0	-39.8	285.4	266.0	19.37	14.732	
3,800.0	3,781.1	3,802.8	3,784.9	11.8	12.1	-166.03	76.1	-40.1	298.1	278.3	19.88	14.999	
3,900.0	3,880.1	3,901.4	3,883.4	12.2	12.4	-165.65	81.5	-40.3	311.1	290.7	20.40	15.250	
4,000.0	3,979.1	4,000.0	3,981.9	12.7	12.7	-165.60	85.2	-40.4	324.2	303.3	20.94	15.482	
4,100.0	4,078.2	4,098.6	4,080.4	13.1	13.0	-165.84	87.2	-40.5	337.5	316.0	21.50	15.696	
4,200.0	4,177.2	4,197.2	4,179.1	13.5	13.1	-166.33	87.6	-40.5	351.0	329.0	22.05	15.921	
4,300.0	4,276.2	4,296.2	4,278.1	13.9	13.2	-166.84	87.6	-40.5	364.6	341.9	22.63	16.109	
4,400.0	4,375.3	4,395.3	4,377.1	14.3	13.2	-167.32	87.6	-40.5	378.1	354.9	23.22	16.286	
4,500.0	4,474.3	4,494.3	4,476.1	14.7	13.3	-167.77	87.6	-40.5	391.7	367.9	23.81	16.455	
4,600.0	4,573.3	4,593.3	4,575.2	15.1	13.4	-168.19	87.6	-40.5	405.3	380.9	24.40	16.615	
4,700.0	4,672.3	4,692.4	4,674.2	15.5	13.4	-168.58	87.6	-40.5	419.0	394.0	24.99	16.768	
4,800.0	4,771.4	4,791.4	4,773.2	15.9	13.5	-168.94	87.6	-40.5	432.6	407.1	25.58	16.914	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,870.4	4,890.4	4,872.3	16.4	13.6	-169.28	87.6	-40.5	446.3	420.1	26.17	17.053		
5,000.0	4,969.4	4,989.4	4,971.3	16.8	13.6	-169.61	87.6	-40.5	460.0	433.2	26.76	17.187		
5,081.4	5,050.0	5,070.0	5,051.9	17.1	13.7	-169.86	87.6	-40.5	471.1	443.9	27.24	17.297		
5,100.0	5,068.4	5,088.5	5,070.3	17.2	13.7	-169.91	87.6	-40.5	473.7	446.3	27.34	17.325		
5,200.0	5,167.6	5,187.7	5,169.5	17.6	13.8	-170.20	87.6	-40.5	486.2	458.3	27.94	17.405		
5,300.0	5,267.0	5,287.0	5,268.9	18.0	13.8	-170.43	87.6	-40.5	497.0	468.5	28.50	17.439		
5,400.0	5,366.6	5,386.6	5,368.5	18.4	13.9	-170.62	87.6	-40.5	506.2	477.1	29.05	17.425		
5,500.0	5,466.3	5,486.3	5,468.2	18.7	14.0	-170.77	87.6	-40.5	513.6	484.0	29.57	17.367		
5,600.0	5,566.1	5,586.2	5,568.0	19.1	14.1	-170.88	87.6	-40.5	519.3	489.2	30.07	17.269		
5,700.0	5,666.1	5,686.1	5,667.9	19.4	14.1	-170.96	87.6	-40.5	523.3	492.8	30.53	17.138		
5,800.0	5,766.0	5,786.0	5,767.9	19.7	14.2	-171.00	87.6	-40.5	525.6	494.6	30.95	16.982		
5,881.4	5,847.4	5,867.4	5,849.3	19.8	14.3	-103.01	87.6	-40.5	526.1	495.0	31.14	16.894		
5,900.0	5,866.0	5,886.0	5,867.9	19.8	14.3	-103.01	87.6	-40.5	526.1	495.0	31.16	16.887		
6,000.0	5,966.0	5,986.0	5,967.9	19.9	14.3	-103.01	87.6	-40.5	526.1	494.9	31.28	16.818		
6,100.0	6,066.0	6,086.0	6,067.9	19.9	14.4	-103.01	87.6	-40.5	526.1	494.7	31.40	16.756		
6,200.0	6,166.0	6,186.0	6,167.9	20.0	14.5	-103.01	87.6	-40.5	526.1	494.6	31.52	16.694		
6,300.0	6,266.0	6,286.0	6,267.9	20.0	14.6	-103.01	87.6	-40.5	526.1	494.5	31.63	16.632		
6,400.0	6,366.0	6,386.0	6,367.9	20.0	14.6	-103.01	87.6	-40.5	526.1	494.4	31.75	16.570		
6,500.0	6,466.0	6,486.0	6,467.9	20.1	14.7	-103.01	87.6	-40.5	526.1	494.3	31.87	16.509		
6,600.0	6,566.0	6,586.0	6,567.9	20.1	14.8	-103.01	87.6	-40.5	526.1	494.1	31.99	16.448		
6,700.0	6,666.0	6,686.0	6,667.9	20.2	14.8	-103.01	87.6	-40.5	526.1	494.0	32.11	16.387		
6,800.0	6,766.0	6,786.0	6,767.9	20.2	14.9	-103.01	87.6	-40.5	526.1	493.9	32.23	16.326		
6,900.0	6,866.0	6,886.0	6,867.9	20.3	15.0	-103.01	87.6	-40.5	526.1	493.8	32.35	16.266		
7,000.0	6,966.0	6,986.0	6,967.9	20.3	15.1	-103.01	87.6	-40.5	526.1	493.7	32.47	16.205		
7,100.0	7,066.0	7,086.0	7,067.9	20.4	15.1	-103.01	87.6	-40.5	526.1	493.5	32.59	16.146		
7,200.0	7,166.0	7,186.0	7,167.9	20.4	15.2	-103.01	87.6	-40.5	526.1	493.4	32.71	16.086		
7,300.0	7,266.0	7,286.0	7,267.9	20.5	15.3	-103.01	87.6	-40.5	526.1	493.3	32.83	16.027		
7,400.0	7,366.0	7,386.0	7,367.9	20.5	15.3	-103.01	87.6	-40.5	526.1	493.2	32.95	15.968		
7,500.0	7,466.0	7,486.0	7,467.9	20.5	15.4	-103.01	87.6	-40.5	526.1	493.1	33.07	15.909		
7,600.0	7,566.0	7,586.0	7,567.9	20.6	15.5	-103.01	87.6	-40.5	526.1	492.9	33.19	15.850		
7,700.0	7,666.0	7,686.0	7,667.9	20.6	15.6	-103.01	87.6	-40.5	526.1	492.8	33.32	15.792		
7,800.0	7,766.0	7,786.0	7,767.9	20.7	15.6	-103.01	87.6	-40.5	526.1	492.7	33.44	15.734		
7,900.0	7,866.0	7,886.0	7,867.9	20.7	15.7	-103.01	87.6	-40.5	526.1	492.6	33.56	15.676		
8,000.0	7,966.0	7,986.0	7,967.9	20.8	15.8	-103.01	87.6	-40.5	526.1	492.5	33.69	15.619		
8,100.0	8,066.0	8,086.0	8,067.9	20.8	15.9	-103.01	87.6	-40.5	526.1	492.3	33.81	15.562		
8,200.0	8,166.0	8,186.0	8,167.9	20.9	15.9	-103.01	87.6	-40.5	526.1	492.2	33.93	15.505		
8,300.0	8,266.0	8,286.0	8,267.9	20.9	16.0	-103.01	87.6	-40.5	526.1	492.1	34.06	15.448		
8,400.0	8,366.0	8,386.0	8,367.9	21.0	16.1	-103.01	87.6	-40.5	526.1	492.0	34.18	15.392		
8,500.0	8,466.0	8,486.0	8,467.9	21.0	16.2	-103.01	87.6	-40.5	526.1	491.8	34.31	15.336		
8,600.0	8,566.0	8,586.0	8,567.9	21.1	16.2	-103.01	87.6	-40.5	526.1	491.7	34.43	15.280		
8,700.0	8,666.0	8,686.0	8,667.9	21.1	16.3	-103.01	87.6	-40.5	526.1	491.6	34.56	15.224		
8,800.0	8,766.0	8,786.0	8,767.9	21.2	16.4	-103.01	87.6	-40.5	526.1	491.5	34.68	15.169		
8,900.0	8,866.0	8,886.0	8,867.9	21.2	16.4	-103.01	87.6	-40.5	526.1	491.3	34.81	15.114		
9,000.0	8,966.0	8,986.0	8,967.9	21.3	16.5	-103.01	87.6	-40.5	526.1	491.2	34.94	15.060		
9,100.0	9,066.0	9,086.0	9,067.9	21.3	16.6	-103.01	87.6	-40.5	526.1	491.1	35.06	15.005		
9,200.0	9,166.0	9,186.0	9,167.9	21.4	16.7	-103.01	87.6	-40.5	526.1	490.9	35.19	14.951		
9,300.0	9,266.0	9,286.0	9,267.9	21.4	16.7	-103.01	87.6	-40.5	526.1	490.8	35.32	14.897		
9,400.0	9,366.0	9,386.0	9,367.9	21.5	16.8	-103.01	87.6	-40.5	526.1	490.7	35.45	14.843		
9,500.0	9,466.0	9,486.0	9,467.9	21.5	16.9	-103.01	87.6	-40.5	526.1	490.6	35.57	14.790		
9,600.0	9,566.0	9,586.0	9,567.9	21.6	17.0	-103.01	87.6	-40.5	526.1	490.4	35.70	14.737		
9,700.0	9,666.0	9,686.0	9,667.9	21.6	17.0	-103.01	87.6	-40.5	526.1	490.3	35.83	14.684		
9,800.0	9,766.0	9,786.0	9,767.9	21.7	17.1	-103.01	87.6	-40.5	526.1	490.2	35.96	14.632		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11325-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,866.0	9,886.0	9,867.9	21.7	17.2	-103.01	87.6	-40.5	526.1	490.0	36.09	14.579		
10,000.0	9,966.0	9,986.0	9,967.9	21.8	17.3	-103.01	87.6	-40.5	526.1	489.9	36.22	14.527		
10,100.0	10,066.0	10,086.0	10,067.9	21.8	17.3	-103.01	87.6	-40.5	526.1	489.8	36.35	14.476		
10,200.0	10,166.0	10,186.0	10,167.9	21.9	17.4	-103.01	87.6	-40.5	526.1	489.7	36.48	14.424		
10,300.0	10,266.0	10,286.0	10,267.9	21.9	17.5	-103.01	87.6	-40.5	526.1	489.5	36.61	14.373		
10,400.0	10,366.0	10,386.0	10,367.9	22.0	17.6	-103.01	87.6	-40.5	526.1	489.4	36.74	14.322		
10,500.0	10,466.0	10,486.0	10,467.9	22.0	17.6	-103.01	87.6	-40.5	526.1	489.3	36.87	14.271		
10,600.0	10,566.0	10,586.0	10,567.9	22.1	17.7	-103.01	87.6	-40.5	526.1	489.1	37.00	14.221		
10,700.0	10,666.0	10,686.0	10,667.9	22.1	17.8	-103.01	87.6	-40.5	526.1	489.0	37.13	14.171		
10,800.0	10,766.0	10,786.0	10,767.9	22.2	17.9	-103.01	87.6	-40.5	526.1	488.9	37.26	14.121		
10,900.0	10,866.0	10,886.0	10,867.9	22.2	17.9	-103.01	87.6	-40.5	526.1	488.7	37.39	14.071		
11,000.0	10,966.0	10,986.0	10,967.9	22.3	18.0	-103.01	87.6	-40.5	526.1	488.6	37.52	14.022		
11,100.0	11,066.0	11,086.0	11,067.9	22.3	18.1	-103.01	87.6	-40.5	526.1	488.5	37.65	13.973		
11,164.0	11,130.0	11,150.0	11,131.9	22.4	18.1	-103.01	87.6	-40.5	526.1	488.4	37.73	13.946		
11,200.0	11,166.0	11,186.0	11,167.9	22.4	18.2	-102.94	87.6	-40.5	526.4	488.6	37.77	13.937		
11,250.0	11,215.7	11,235.7	11,217.6	22.4	18.2	-103.38	87.6	-40.5	527.6	489.8	37.85	13.938		
11,300.0	11,264.8	11,284.8	11,266.6	22.4	18.2	-104.15	87.6	-40.5	529.9	492.0	37.97	13.956		
11,350.0	11,312.8	11,331.3	11,313.1	22.4	18.3	-105.14	87.5	-40.5	533.6	495.5	38.09	14.008		
11,400.0	11,359.4	11,367.3	11,349.1	22.4	18.3	-106.06	86.0	-40.5	539.4	501.2	38.20	14.119		
11,450.0	11,404.3	11,400.0	11,381.6	22.5	18.3	-106.98	82.7	-40.5	548.2	509.8	38.35	14.295		
11,500.0	11,447.1	11,427.8	11,409.1	22.5	18.4	-107.60	78.4	-40.5	560.3	521.8	38.50	14.553		
11,550.0	11,487.5	11,450.0	11,430.9	22.5	18.4	-107.66	74.0	-40.4	576.1	537.4	38.66	14.902		
11,600.0	11,525.1	11,470.9	11,451.2	22.5	18.4	-107.35	69.1	-40.4	595.8	556.9	38.82	15.347		
11,650.0	11,559.8	11,486.2	11,465.9	22.6	18.5	-106.17	65.1	-40.4	619.2	580.3	38.97	15.889		
11,700.0	11,591.2	11,500.0	11,479.1	22.6	18.5	-104.40	61.1	-40.4	646.3	607.2	39.11	16.526		
11,750.0	11,619.1	11,500.0	11,479.1	22.6	18.5	-100.68	61.1	-40.4	676.6	637.3	39.25	17.238		
11,800.0	11,643.2	11,500.0	11,479.1	22.7	18.5	-96.30	61.1	-40.4	709.7	670.3	39.37	18.027		
11,850.0	11,663.5	11,513.3	11,491.8	22.7	18.5	-92.79	57.0	-40.3	744.8	705.4	39.40	18.904		
11,900.0	11,679.7	11,513.3	11,491.8	22.7	18.5	-87.29	57.0	-40.3	781.8	742.4	39.44	19.822		
11,950.0	11,691.7	11,500.0	11,479.1	22.8	18.5	-79.94	61.1	-40.4	820.2	780.7	39.51	20.762		
12,000.0	11,699.4	11,500.0	11,479.1	22.8	18.5	-73.90	61.1	-40.4	859.2	819.7	39.48	21.763		
12,050.0	11,702.8	11,500.0	11,479.1	22.9	18.5	-67.89	61.1	-40.4	898.5	859.1	39.42	22.794		
12,064.0	11,703.0	11,500.0	11,479.1	22.9	18.5	-66.25	61.1	-40.4	909.5	870.1	39.39	23.087		
12,100.0	11,703.0	11,500.0	11,479.1	23.0	18.5	-66.25	61.1	-40.4	938.1	898.8	39.33	23.850		

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.6	1.6	3.0	3.0	179.67	-200.0	1.1	200.0				
100.0	100.0	101.6	101.6	3.0	3.0	179.67	-200.0	1.1	200.0	193.5	6.52	30.656	
200.0	200.0	201.6	201.6	3.2	3.2	179.67	-200.0	1.1	200.0	193.2	6.77	29.526	
300.0	300.0	301.6	301.6	3.3	3.3	179.67	-200.0	1.1	200.0	193.0	7.02	28.486	
400.0	400.0	401.6	401.6	3.4	3.4	179.67	-200.0	1.1	200.0	192.7	7.27	27.524	
500.0	500.0	501.6	501.6	3.5	3.5	179.67	-200.0	1.1	200.0	192.5	7.51	26.630	
600.0	600.0	601.6	601.6	3.7	3.7	179.67	-200.0	1.1	200.0	192.2	7.75	25.798	
700.0	700.0	701.6	701.6	3.8	3.8	179.67	-200.0	1.1	200.0	192.0	7.99	25.020	
800.0	800.0	801.6	801.6	3.9	3.9	179.67	-200.0	1.1	200.0	191.8	8.23	24.292	
900.0	900.0	901.6	901.6	4.0	4.0	179.67	-200.0	1.1	200.0	191.5	8.47	23.608	
1,000.0	1,000.0	1,001.6	1,001.6	4.2	4.2	179.67	-200.0	1.1	200.0	191.3	8.71	22.964	
1,100.0	1,100.0	1,101.6	1,101.6	4.3	4.3	179.67	-200.0	1.1	200.0	191.0	8.95	22.356	
1,200.0	1,200.0	1,201.6	1,201.6	4.4	4.4	179.67	-200.0	1.1	200.0	190.8	9.18	21.782	
1,300.0	1,300.0	1,301.6	1,301.6	4.5	4.5	179.67	-200.0	1.1	200.0	190.6	9.42	21.238	
1,400.0	1,400.0	1,401.6	1,401.6	4.6	4.6	179.67	-200.0	1.1	200.0	190.3	9.65	20.722	
1,500.0	1,500.0	1,501.7	1,501.7	4.8	4.8	179.67	-200.0	1.2	200.0	190.1	9.89	20.232	
1,600.0	1,600.0	1,606.4	1,606.4	4.9	4.9	129.76	-198.7	1.9	199.6	189.5	10.13	19.701	
1,700.0	1,699.9	1,711.1	1,711.0	5.0	5.1	130.06	-194.9	4.1	198.5	188.0	10.50	18.915	
1,800.0	1,799.7	1,815.8	1,815.4	5.2	5.3	130.55	-188.7	7.7	196.8	185.9	10.88	18.088	
1,900.0	1,899.3	1,920.4	1,919.6	5.5	5.6	131.26	-180.0	12.7	194.4	183.1	11.29	17.220	
2,000.0	1,998.6	2,025.0	2,023.3	5.7	5.8	132.21	-168.8	19.2	191.3	179.6	11.70	16.356	
2,033.3	2,031.6	2,057.5	2,055.5	5.8	5.9	132.54	-165.0	21.5	190.3	178.5	11.79	16.137	
2,100.0	2,097.6	2,121.2	2,118.6	5.9	6.0	123.62	-158.2	26.8	188.6	176.6	12.06	15.643	
2,158.1	2,155.2	2,176.7	2,173.7	6.0	6.2	115.83	-153.1	32.2	187.0	174.6	12.31	15.190	
2,200.0	2,196.7	2,216.8	2,213.4	6.1	6.3	116.10	-150.0	36.5	185.9	173.4	12.46	14.922	
2,300.0	2,295.7	2,314.6	2,310.3	6.4	6.5	116.34	-143.7	48.5	184.7	171.9	12.81	14.416	
2,400.0	2,394.7	2,414.6	2,409.3	6.7	6.8	116.48	-137.6	61.0	183.9	170.7	13.22	13.913	
2,500.0	2,493.7	2,514.6	2,508.3	7.0	7.1	116.63	-131.5	73.5	183.0	169.4	13.63	13.431	
2,600.0	2,592.8	2,614.6	2,607.3	7.3	7.4	116.77	-125.4	86.0	182.2	168.1	14.04	12.971	
2,700.0	2,691.8	2,714.6	2,706.3	7.7	7.7	116.92	-119.3	98.5	181.3	166.8	14.47	12.531	
2,800.0	2,790.8	2,814.6	2,805.4	8.0	8.0	117.07	-113.2	111.0	180.5	165.6	14.90	12.111	
2,900.0	2,889.9	2,914.6	2,904.4	8.4	8.4	117.22	-107.1	123.5	179.6	164.3	15.34	11.710	
3,000.0	2,988.9	3,014.6	3,003.4	8.7	8.7	117.37	-101.0	136.0	178.8	163.0	15.78	11.326	
3,100.0	3,087.9	3,114.6	3,102.4	9.1	9.1	117.53	-94.9	148.5	177.9	161.7	16.24	10.959	
3,200.0	3,186.9	3,214.6	3,201.5	9.5	9.4	117.68	-88.8	161.0	177.1	160.4	16.69	10.609	
3,300.0	3,286.0	3,314.5	3,300.5	9.9	9.8	117.84	-82.7	173.5	176.2	159.1	17.16	10.273	
3,400.0	3,385.0	3,414.5	3,399.5	10.3	10.2	117.99	-76.6	186.1	175.4	157.8	17.62	9.952	
3,500.0	3,484.0	3,514.5	3,498.5	10.7	10.6	118.15	-70.5	198.6	174.6	156.5	18.10	9.645	
3,600.0	3,583.0	3,614.5	3,597.5	11.1	11.0	118.31	-64.4	211.1	173.7	155.1	18.58	9.351	
3,700.0	3,682.1	3,714.5	3,696.6	11.4	11.4	118.48	-58.3	223.6	172.9	153.8	19.06	9.069	
3,800.0	3,781.1	3,814.5	3,795.6	11.8	11.8	118.64	-52.2	236.1	172.0	152.5	19.55	8.799	
3,900.0	3,880.1	3,914.5	3,894.6	12.2	12.2	118.81	-46.1	248.6	171.2	151.2	20.05	8.540	
4,000.0	3,979.1	4,014.5	3,993.6	12.7	12.6	118.97	-40.0	261.1	170.4	149.8	20.55	8.291	
4,100.0	4,078.2	4,114.5	4,092.7	13.1	13.0	119.14	-33.9	273.6	169.5	148.5	21.05	8.053	
4,200.0	4,177.2	4,214.5	4,191.7	13.5	13.4	119.31	-27.8	286.1	168.7	147.1	21.56	7.824	
4,300.0	4,276.2	4,314.5	4,290.7	13.9	13.8	119.49	-21.7	298.6	167.9	145.8	22.08	7.603	
4,400.0	4,375.3	4,414.5	4,389.7	14.3	14.2	119.66	-15.6	311.1	167.1	144.5	22.60	7.391	
4,500.0	4,474.3	4,514.5	4,488.7	14.7	14.6	119.83	-9.5	323.6	166.2	143.1	23.13	7.188	
4,600.0	4,573.3	4,614.5	4,587.8	15.1	15.0	120.01	-3.4	336.1	165.4	141.7	23.66	6.992	
4,700.0	4,672.3	4,714.5	4,686.8	15.5	15.4	120.19	2.7	348.7	164.6	140.4	24.19	6.803	
4,800.0	4,771.4	4,813.9	4,785.3	15.9	15.8	120.39	8.8	361.0	163.8	139.0	24.75	6.618	
4,824.9	4,796.1	4,838.1	4,809.2	16.0	15.9	120.50	10.1	363.8	163.7	138.8	24.93	6.568 CC	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface		Offset Wellbore Centre		Distance		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,870.4	4,910.7	4,881.4	16.4	16.3	121.20	13.7	371.2	164.3	138.7	25.54	6.433	ES
5,000.0	4,969.4	5,007.3	4,977.6	16.8	16.7	122.92	17.2	378.4	166.8	140.4	26.43	6.313	
5,081.4	5,050.0	5,085.5	5,055.7	17.1	17.0	124.90	19.0	382.0	170.5	143.3	27.27	6.253	
5,100.0	5,068.4	5,103.4	5,073.6	17.2	17.0	125.42	19.3	382.6	171.6	144.1	27.48	6.246	
5,200.0	5,167.6	5,199.0	5,169.2	17.6	17.2	128.29	20.0	384.0	178.2	149.7	28.56	6.240	
5,300.0	5,267.0	5,298.4	5,268.6	18.0	17.3	131.01	20.0	384.0	185.3	155.6	29.64	6.252	
5,400.0	5,366.6	5,398.0	5,368.2	18.4	17.4	133.14	20.0	384.0	191.5	161.0	30.46	6.287	
5,500.0	5,466.3	5,497.7	5,467.9	18.7	17.4	134.77	20.0	384.0	196.7	165.6	31.16	6.314	
5,600.0	5,566.1	5,597.5	5,567.7	19.1	17.5	135.97	20.0	384.0	200.9	169.1	31.75	6.327	
5,700.0	5,666.1	5,697.4	5,667.6	19.4	17.5	136.78	20.0	384.0	203.8	171.5	32.23	6.323	
5,800.0	5,766.0	5,797.4	5,767.6	19.7	17.6	137.23	20.0	384.0	205.5	172.8	32.61	6.301	
5,881.4	5,847.4	5,878.8	5,849.0	19.8	17.6	-154.66	20.0	384.0	205.9	173.1	32.77	6.282	
5,900.0	5,866.0	5,897.4	5,867.6	19.8	17.6	-154.66	20.0	384.0	205.9	173.1	32.79	6.279	
6,000.0	5,966.0	5,997.4	5,967.6	19.9	17.7	-154.66	20.0	384.0	205.9	173.0	32.91	6.257	
6,100.0	6,066.0	6,097.4	6,067.6	19.9	17.8	-154.66	20.0	384.0	205.9	172.9	33.02	6.236	
6,200.0	6,166.0	6,197.4	6,167.6	20.0	17.8	-154.66	20.0	384.0	205.9	172.8	33.13	6.215	
6,300.0	6,266.0	6,297.4	6,267.6	20.0	17.9	-154.66	20.0	384.0	205.9	172.6	33.24	6.194	
6,400.0	6,366.0	6,397.4	6,367.6	20.0	17.9	-154.66	20.0	384.0	205.9	172.5	33.35	6.174	
6,500.0	6,466.0	6,497.4	6,467.6	20.1	18.0	-154.66	20.0	384.0	205.9	172.4	33.46	6.153	
6,600.0	6,566.0	6,597.4	6,567.6	20.1	18.0	-154.66	20.0	384.0	205.9	172.3	33.57	6.133	
6,700.0	6,666.0	6,697.4	6,667.6	20.2	18.1	-154.66	20.0	384.0	205.9	172.2	33.68	6.112	
6,800.0	6,766.0	6,797.4	6,767.6	20.2	18.1	-154.66	20.0	384.0	205.9	172.1	33.80	6.092	
6,900.0	6,866.0	6,897.4	6,867.6	20.3	18.2	-154.66	20.0	384.0	205.9	172.0	33.91	6.071	
7,000.0	6,966.0	6,997.4	6,967.6	20.3	18.2	-154.66	20.0	384.0	205.9	171.9	34.02	6.051	
7,100.0	7,066.0	7,097.4	7,067.6	20.4	18.3	-154.66	20.0	384.0	205.9	171.7	34.14	6.031	
7,200.0	7,166.0	7,197.4	7,167.6	20.4	18.3	-154.66	20.0	384.0	205.9	171.6	34.25	6.011	
7,300.0	7,266.0	7,297.4	7,267.6	20.5	18.4	-154.66	20.0	384.0	205.9	171.5	34.37	5.991	
7,400.0	7,366.0	7,397.4	7,367.6	20.5	18.4	-154.66	20.0	384.0	205.9	171.4	34.48	5.971	
7,500.0	7,466.0	7,497.4	7,467.6	20.5	18.5	-154.66	20.0	384.0	205.9	171.3	34.60	5.951	
7,600.0	7,566.0	7,597.4	7,567.6	20.6	18.5	-154.66	20.0	384.0	205.9	171.2	34.71	5.931	
7,700.0	7,666.0	7,697.4	7,667.6	20.6	18.6	-154.66	20.0	384.0	205.9	171.1	34.83	5.911	
7,800.0	7,766.0	7,797.4	7,767.6	20.7	18.7	-154.66	20.0	384.0	205.9	170.9	34.94	5.892	
7,900.0	7,866.0	7,897.4	7,867.6	20.7	18.7	-154.66	20.0	384.0	205.9	170.8	35.06	5.872	
8,000.0	7,966.0	7,997.4	7,967.6	20.8	18.8	-154.66	20.0	384.0	205.9	170.7	35.18	5.852	
8,100.0	8,066.0	8,097.4	8,067.6	20.8	18.8	-154.66	20.0	384.0	205.9	170.6	35.30	5.833	
8,200.0	8,166.0	8,197.4	8,167.6	20.9	18.9	-154.66	20.0	384.0	205.9	170.5	35.41	5.813	
8,300.0	8,266.0	8,297.4	8,267.6	20.9	18.9	-154.66	20.0	384.0	205.9	170.3	35.53	5.794	
8,400.0	8,366.0	8,397.4	8,367.6	21.0	19.0	-154.66	20.0	384.0	205.9	170.2	35.65	5.775	
8,500.0	8,466.0	8,497.4	8,467.6	21.0	19.0	-154.66	20.0	384.0	205.9	170.1	35.77	5.756	
8,600.0	8,566.0	8,597.4	8,567.6	21.1	19.1	-154.66	20.0	384.0	205.9	170.0	35.89	5.736	
8,700.0	8,666.0	8,697.4	8,667.6	21.1	19.2	-154.66	20.0	384.0	205.9	169.9	36.01	5.717	
8,800.0	8,766.0	8,797.4	8,767.6	21.2	19.2	-154.66	20.0	384.0	205.9	169.8	36.13	5.698	
8,900.0	8,866.0	8,897.4	8,867.6	21.2	19.3	-154.66	20.0	384.0	205.9	169.6	36.25	5.680	
9,000.0	8,966.0	8,997.4	8,967.6	21.3	19.3	-154.66	20.0	384.0	205.9	169.5	36.37	5.661	
9,100.0	9,066.0	9,097.4	9,067.6	21.3	19.4	-154.66	20.0	384.0	205.9	169.4	36.49	5.642	
9,200.0	9,166.0	9,197.4	9,167.6	21.4	19.4	-154.66	20.0	384.0	205.9	169.3	36.61	5.623	
9,300.0	9,266.0	9,297.4	9,267.6	21.4	19.5	-154.66	20.0	384.0	205.9	169.1	36.73	5.605	
9,400.0	9,366.0	9,397.4	9,367.6	21.5	19.6	-154.66	20.0	384.0	205.9	169.0	36.86	5.586	
9,500.0	9,466.0	9,497.4	9,467.6	21.5	19.6	-154.66	20.0	384.0	205.9	168.9	36.98	5.568	
9,600.0	9,566.0	9,597.4	9,567.6	21.6	19.7	-154.66	20.0	384.0	205.9	168.8	37.10	5.549	
9,700.0	9,666.0	9,697.4	9,667.6	21.6	19.7	-154.66	20.0	384.0	205.9	168.7	37.22	5.531	
9,800.0	9,766.0	9,797.4	9,767.6	21.7	19.8	-154.66	20.0	384.0	205.9	168.5	37.35	5.513	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11162-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.0	9,866.0	9,897.4	9,867.6	21.7	19.9	-154.66	20.0	384.0	205.9	168.4	37.47	5.495	
10,000.0	9,966.0	9,997.4	9,967.6	21.8	19.9	-154.66	20.0	384.0	205.9	168.3	37.59	5.477	
10,100.0	10,066.0	10,097.4	10,067.6	21.8	20.0	-154.66	20.0	384.0	205.9	168.2	37.72	5.459	
10,200.0	10,166.0	10,197.4	10,167.6	21.9	20.0	-154.66	20.0	384.0	205.9	168.0	37.84	5.441	
10,300.0	10,266.0	10,297.4	10,267.6	21.9	20.1	-154.66	20.0	384.0	205.9	167.9	37.96	5.423	
10,400.0	10,366.0	10,397.4	10,367.6	22.0	20.2	-154.66	20.0	384.0	205.9	167.8	38.09	5.405	
10,500.0	10,466.0	10,497.4	10,467.6	22.0	20.2	-154.66	20.0	384.0	205.9	167.7	38.21	5.387	
10,600.0	10,566.0	10,597.4	10,567.6	22.1	20.3	-154.66	20.0	384.0	205.9	167.5	38.34	5.370	
10,700.0	10,666.0	10,697.4	10,667.6	22.1	20.3	-154.66	20.0	384.0	205.9	167.4	38.47	5.352	
10,800.0	10,766.0	10,797.4	10,767.6	22.2	20.4	-154.66	20.0	384.0	205.9	167.3	38.59	5.335	
10,900.0	10,866.0	10,897.4	10,867.6	22.2	20.5	-154.66	20.0	384.0	205.9	167.2	38.72	5.318	
11,000.0	10,966.0	10,997.4	10,967.6	22.3	20.5	-154.66	20.0	384.0	205.9	167.0	38.84	5.300	
11,100.0	11,066.0	11,097.4	11,067.6	22.3	20.6	-154.66	20.0	384.0	205.9	166.9	38.97	5.283	
11,164.0	11,130.0	11,161.4	11,131.6	22.4	20.6	-154.66	20.0	384.0	205.9	166.8	39.03	5.275 SF	
11,200.0	11,166.0	11,188.6	11,158.8	22.4	20.6	-154.59	19.3	384.0	207.7	168.7	38.94	5.332	
11,250.0	11,215.7	11,225.4	11,195.5	22.4	20.6	-155.02	16.4	384.0	216.0	177.3	38.76	5.573	
11,300.0	11,264.8	11,260.2	11,229.9	22.4	20.7	-155.65	11.5	384.0	231.1	192.6	38.55	5.995	
11,350.0	11,312.8	11,292.1	11,261.1	22.4	20.7	-156.26	5.2	384.1	252.6	214.2	38.36	6.584	
11,400.0	11,359.4	11,320.3	11,288.5	22.4	20.7	-156.64	-1.8	384.1	280.0	241.8	38.24	7.323	
11,450.0	11,404.3	11,350.0	11,316.8	22.5	20.7	-157.02	-10.7	384.2	312.7	274.6	38.10	8.206	
11,500.0	11,447.1	11,365.2	11,331.2	22.5	20.7	-156.04	-15.8	384.2	349.7	311.5	38.18	9.159	
11,550.0	11,487.5	11,381.8	11,346.7	22.5	20.7	-154.65	-21.8	384.2	390.5	352.3	38.23	10.216	
11,600.0	11,525.1	11,400.0	11,363.4	22.5	20.7	-152.73	-28.8	384.3	434.4	396.2	38.21	11.368	
11,650.0	11,559.8	11,400.0	11,363.4	22.6	20.7	-146.75	-28.8	384.3	480.4	442.0	38.43	12.500	
11,700.0	11,591.2	11,400.0	11,363.4	22.6	20.7	-136.37	-28.8	384.3	528.3	489.7	38.59	13.690	
11,750.0	11,619.1	11,415.0	11,377.0	22.6	20.7	-124.37	-35.1	384.3	576.8	538.4	38.45	15.001	
11,800.0	11,643.2	11,416.5	11,378.4	22.7	20.7	-96.58	-35.7	384.3	626.2	587.7	38.46	16.280	
11,850.0	11,663.5	11,415.9	11,377.8	22.7	20.7	-62.19	-35.4	384.3	675.7	637.2	38.44	17.576	
11,900.0	11,679.7	11,400.0	11,363.4	22.7	20.7	-35.82	-28.8	384.3	725.2	686.7	38.55	18.811	
11,950.0	11,691.7	11,400.0	11,363.4	22.8	20.7	-25.43	-28.8	384.3	773.8	735.4	38.42	20.140	
12,000.0	11,699.4	11,400.0	11,363.4	22.8	20.7	-19.31	-28.8	384.3	821.5	783.3	38.25	21.476	
12,050.0	11,702.8	11,400.0	11,363.4	22.9	20.7	-15.39	-28.8	384.3	868.3	830.2	38.06	22.812	
12,064.0	11,703.0	11,400.0	11,363.4	22.9	20.7	-14.54	-28.8	384.3	881.1	843.1	38.00	23.188	
12,100.0	11,703.0	11,400.0	11,363.4	23.0	20.7	-14.54	-28.8	384.3	914.2	876.4	37.85	24.152	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11386-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.9	1.9	3.0	3.0	171.17	-200.2	31.1	202.6				
100.0	100.0	101.9	101.9	3.0	3.0	171.17	-200.2	31.1	202.6	196.0	6.52	31.049	
200.0	200.0	201.9	201.9	3.2	3.2	171.17	-200.2	31.1	202.6	195.8	6.77	29.905	
300.0	300.0	301.9	301.9	3.3	3.3	171.17	-200.2	31.1	202.6	195.5	7.02	28.853	
400.0	400.0	401.9	401.9	3.4	3.4	171.17	-200.2	31.1	202.6	195.3	7.27	27.880	
500.0	500.0	501.9	501.9	3.5	3.5	171.17	-200.2	31.1	202.6	195.1	7.51	26.977	
600.0	600.0	601.9	601.9	3.7	3.7	171.17	-200.2	31.1	202.6	194.8	7.75	26.137	
700.0	700.0	701.9	701.9	3.8	3.8	171.17	-200.2	31.1	202.6	194.6	7.99	25.351	
800.0	800.0	801.9	801.9	3.9	3.9	171.17	-200.2	31.1	202.6	194.3	8.23	24.616	
900.0	900.0	901.9	901.9	4.0	4.0	171.17	-200.2	31.1	202.6	194.1	8.47	23.925	
1,000.0	1,000.0	1,001.9	1,001.9	4.2	4.2	171.17	-200.2	31.1	202.6	193.9	8.70	23.275	
1,100.0	1,100.0	1,101.9	1,101.9	4.3	4.3	171.17	-200.2	31.1	202.6	193.6	8.94	22.662	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	171.17	-200.2	31.1	202.6	193.4	9.17	22.082	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	171.17	-200.2	31.1	202.6	193.2	9.41	21.533	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	171.17	-200.2	31.1	202.6	192.9	9.64	21.013	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	171.17	-200.2	31.1	202.6	192.7	9.87	20.518	
1,600.0	1,600.0	1,605.2	1,605.2	4.9	4.9	121.17	-199.1	32.1	202.4	192.3	10.09	20.054	
1,700.0	1,699.9	1,708.4	1,708.3	5.0	5.1	121.19	-196.1	35.1	202.0	191.6	10.43	19.377	
1,800.0	1,799.7	1,811.6	1,811.3	5.2	5.3	121.23	-191.2	40.1	201.4	190.6	10.76	18.708	
1,900.0	1,899.3	1,914.8	1,914.0	5.5	5.5	121.29	-184.2	47.0	200.5	189.4	11.11	18.042	
2,000.0	1,998.6	2,018.0	2,016.4	5.7	5.8	121.37	-175.4	55.9	199.4	188.0	11.46	17.405	
2,033.3	2,031.6	2,051.2	2,049.3	5.8	5.8	121.40	-172.1	59.2	199.0	187.5	11.52	17.274	
2,100.0	2,097.6	2,115.8	2,113.1	5.9	6.0	111.79	-166.2	66.6	198.2	186.5	11.73	16.903	
2,158.1	2,155.2	2,172.0	2,168.6	6.0	6.1	103.27	-161.4	74.1	196.9	185.0	11.92	16.519	
2,200.0	2,196.7	2,212.5	2,208.6	6.1	6.3	102.97	-158.2	80.2	195.9	183.9	12.04	16.276	
2,300.0	2,295.7	2,309.1	2,303.5	6.4	6.6	101.65	-151.3	96.9	194.8	182.4	12.35	15.773	
2,311.2	2,306.8	2,319.9	2,314.1	6.4	6.6	101.45	-150.6	98.9	194.8	182.4	12.37	15.744 CC, ES	
2,400.0	2,394.7	2,407.7	2,399.9	6.7	6.8	99.64	-145.3	116.3	195.2	182.6	12.55	15.554	
2,500.0	2,493.7	2,507.4	2,497.5	7.0	7.1	97.57	-139.2	136.1	196.0	183.2	12.80	15.309	
2,600.0	2,592.8	2,607.2	2,595.1	7.3	7.5	95.51	-133.1	156.0	197.0	183.9	13.05	15.097	
2,700.0	2,691.8	2,706.9	2,692.6	7.7	7.8	93.48	-127.1	175.8	198.2	185.0	13.29	14.914	
2,800.0	2,790.8	2,806.7	2,790.2	8.0	8.2	91.48	-121.0	195.6	199.8	186.2	13.54	14.752	
2,900.0	2,889.9	2,906.4	2,887.8	8.4	8.6	89.51	-115.0	215.5	201.5	187.7	13.80	14.607	
3,000.0	2,988.9	3,006.2	2,985.3	8.7	8.9	87.58	-108.9	235.3	203.5	189.4	14.06	14.471	
3,100.0	3,087.9	3,105.9	3,082.9	9.1	9.3	85.69	-102.8	255.1	205.7	191.4	14.35	14.341	
3,200.0	3,186.9	3,205.6	3,180.5	9.5	9.8	83.83	-96.8	275.0	208.2	193.5	14.65	14.213	
3,300.0	3,286.0	3,305.4	3,278.0	9.9	10.2	82.03	-90.7	294.8	210.8	195.9	14.97	14.082	
3,400.0	3,385.0	3,405.1	3,375.6	10.3	10.6	80.27	-84.6	314.6	213.7	198.4	15.32	13.946	
3,500.0	3,484.0	3,504.9	3,473.2	10.7	11.0	78.55	-78.6	334.5	216.7	201.0	15.70	13.804	
3,600.0	3,583.0	3,604.6	3,570.7	11.1	11.4	76.89	-72.5	354.3	220.0	203.9	16.11	13.654	
3,700.0	3,682.1	3,704.4	3,668.3	11.4	11.9	75.28	-66.5	374.1	223.4	206.9	16.55	13.497	
3,800.0	3,781.1	3,804.1	3,765.9	11.8	12.3	73.71	-60.4	394.0	227.0	210.0	17.02	13.334	
3,900.0	3,880.1	3,903.9	3,863.4	12.2	12.7	72.20	-54.3	413.8	230.8	213.2	17.53	13.164	
4,000.0	3,979.1	4,003.6	3,961.0	12.7	13.2	70.73	-48.3	433.6	234.7	216.6	18.07	12.989	
4,100.0	4,078.2	4,103.4	4,058.6	13.1	13.6	69.31	-42.2	453.5	238.8	220.1	18.63	12.812	
4,200.0	4,177.2	4,203.1	4,156.1	13.5	14.0	67.94	-36.1	473.3	243.0	223.7	19.23	12.633	
4,300.0	4,276.2	4,302.8	4,253.7	13.9	14.5	66.62	-30.1	493.1	247.3	227.4	19.86	12.454	
4,400.0	4,375.3	4,402.6	4,351.3	14.3	14.9	65.35	-24.0	513.0	251.8	231.3	20.51	12.275	
4,500.0	4,474.3	4,502.3	4,448.8	14.7	15.4	64.12	-17.9	532.8	256.4	235.2	21.19	12.100	
4,600.0	4,573.3	4,602.1	4,546.4	15.1	15.8	62.93	-11.9	552.6	261.1	239.2	21.89	11.927	
4,700.0	4,672.3	4,701.8	4,644.0	15.5	16.3	61.79	-5.8	572.4	265.9	243.3	22.61	11.760	
4,800.0	4,771.4	4,801.6	4,741.5	15.9	16.7	60.68	0.2	592.3	270.8	247.4	23.35	11.597	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11386-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,870.4	4,901.3	4,839.1	16.4	17.2	59.62	6.3	612.1	275.8	251.7	24.11	11.439	
5,000.0	4,969.4	5,001.1	4,936.7	16.8	17.7	58.59	12.4	631.9	280.9	256.0	24.89	11.287	
5,081.4	5,050.0	5,082.2	5,016.0	17.1	18.0	57.79	17.3	648.1	285.1	259.6	25.52	11.173	
5,100.0	5,068.4	5,100.8	5,034.2	17.2	18.1	57.61	18.4	651.8	286.1	260.5	25.66	11.151	
5,200.0	5,167.6	5,200.5	5,131.7	17.6	18.6	56.51	24.5	671.6	292.0	265.5	26.52	11.012	
5,300.0	5,267.0	5,300.3	5,229.4	18.0	19.0	55.19	30.6	691.4	299.1	271.6	27.44	10.899	
5,400.0	5,366.6	5,403.3	5,330.3	18.4	19.5	53.78	36.5	710.9	306.6	278.1	28.45	10.777	
5,500.0	5,466.3	5,506.5	5,431.8	18.7	20.0	52.42	41.9	728.6	314.1	284.7	29.41	10.681	
5,600.0	5,566.1	5,609.9	5,533.8	19.1	20.4	51.12	46.8	744.6	321.7	291.3	30.35	10.598	
5,700.0	5,666.1	5,713.5	5,636.4	19.4	20.9	49.86	51.2	758.9	329.3	298.0	31.27	10.529	
5,800.0	5,766.0	5,817.3	5,739.3	19.7	21.3	48.65	55.0	771.4	336.8	304.7	32.15	10.475	
5,881.4	5,847.4	5,901.9	5,823.4	19.8	21.6	115.70	57.7	780.3	343.0	310.2	32.79	10.459	
5,900.0	5,866.0	5,921.3	5,842.7	19.8	21.7	115.48	58.3	782.1	344.4	311.4	32.92	10.461	
6,000.0	5,966.0	6,025.6	5,946.6	19.9	22.1	114.44	61.0	791.1	351.1	317.5	33.59	10.453	
6,100.0	6,066.0	6,130.2	6,051.0	19.9	22.5	113.64	63.2	798.3	356.5	322.3	34.15	10.438	
6,200.0	6,166.0	6,235.1	6,155.7	20.0	22.9	113.06	64.9	803.7	360.6	325.9	34.63	10.412	
6,300.0	6,266.0	6,340.1	6,260.6	20.0	23.2	112.68	66.0	807.2	363.3	328.3	35.01	10.376	
6,400.0	6,366.0	6,445.2	6,365.7	20.0	23.4	112.51	66.5	808.9	364.6	329.3	35.26	10.341	
6,500.0	6,466.0	6,547.4	6,467.9	20.1	23.5	112.49	66.5	809.1	364.7	329.3	35.38	10.310	
6,600.0	6,566.0	6,647.4	6,567.9	20.1	23.6	112.49	66.5	809.1	364.7	329.2	35.49	10.278	
6,700.0	6,666.0	6,747.4	6,667.9	20.2	23.6	112.49	66.5	809.1	364.7	329.1	35.58	10.250	
6,800.0	6,766.0	6,847.4	6,767.9	20.2	23.6	112.49	66.5	809.1	364.7	329.0	35.68	10.222	
6,900.0	6,866.0	6,947.4	6,867.9	20.3	23.7	112.49	66.5	809.1	364.7	328.9	35.78	10.194	
7,000.0	6,966.0	7,047.4	6,967.9	20.3	23.7	112.49	66.5	809.1	364.7	328.8	35.88	10.166	
7,100.0	7,066.0	7,147.4	7,067.9	20.4	23.7	112.49	66.5	809.1	364.7	328.7	35.98	10.138	
7,200.0	7,166.0	7,247.4	7,167.9	20.4	23.8	112.49	66.5	809.1	364.7	328.6	36.08	10.110	
7,300.0	7,266.0	7,347.4	7,267.9	20.5	23.8	112.49	66.5	809.1	364.7	328.5	36.18	10.082	
7,400.0	7,366.0	7,447.4	7,367.9	20.5	23.9	112.49	66.5	809.1	364.7	328.4	36.28	10.054	
7,500.0	7,466.0	7,547.4	7,467.9	20.5	23.9	112.49	66.5	809.1	364.7	328.3	36.38	10.026	
7,600.0	7,566.0	7,647.4	7,567.9	20.6	23.9	112.49	66.5	809.1	364.7	328.2	36.48	9.998	
7,700.0	7,666.0	7,747.4	7,667.9	20.6	24.0	112.49	66.5	809.1	364.7	328.1	36.58	9.970	
7,800.0	7,766.0	7,847.4	7,767.9	20.7	24.0	112.49	66.5	809.1	364.7	328.0	36.68	9.943	
7,900.0	7,866.0	7,947.4	7,867.9	20.7	24.1	112.49	66.5	809.1	364.7	327.9	36.78	9.915	
8,000.0	7,966.0	8,047.4	7,967.9	20.8	24.1	112.49	66.5	809.1	364.7	327.8	36.89	9.887	
8,100.0	8,066.0	8,147.4	8,067.9	20.8	24.1	112.49	66.5	809.1	364.7	327.7	36.99	9.860	
8,200.0	8,166.0	8,247.4	8,167.9	20.9	24.2	112.49	66.5	809.1	364.7	327.6	37.09	9.832	
8,300.0	8,266.0	8,347.4	8,267.9	20.9	24.2	112.49	66.5	809.1	364.7	327.5	37.20	9.805	
8,400.0	8,366.0	8,447.4	8,367.9	21.0	24.3	112.49	66.5	809.1	364.7	327.4	37.30	9.777	
8,500.0	8,466.0	8,547.4	8,467.9	21.0	24.3	112.49	66.5	809.1	364.7	327.3	37.41	9.750	
8,600.0	8,566.0	8,647.4	8,567.9	21.1	24.3	112.49	66.5	809.1	364.7	327.2	37.51	9.722	
8,700.0	8,666.0	8,747.4	8,667.9	21.1	24.4	112.49	66.5	809.1	364.7	327.1	37.62	9.695	
8,800.0	8,766.0	8,847.4	8,767.9	21.2	24.4	112.49	66.5	809.1	364.7	327.0	37.73	9.668	
8,900.0	8,866.0	8,947.4	8,867.9	21.2	24.5	112.49	66.5	809.1	364.7	326.9	37.83	9.640	
9,000.0	8,966.0	9,047.4	8,967.9	21.3	24.5	112.49	66.5	809.1	364.7	326.8	37.94	9.613	
9,100.0	9,066.0	9,147.4	9,067.9	21.3	24.5	112.49	66.5	809.1	364.7	326.7	38.05	9.586	
9,200.0	9,166.0	9,247.4	9,167.9	21.4	24.6	112.49	66.5	809.1	364.7	326.6	38.15	9.559	
9,300.0	9,266.0	9,347.4	9,267.9	21.4	24.6	112.49	66.5	809.1	364.7	326.4	38.26	9.532	
9,400.0	9,366.0	9,447.4	9,367.9	21.5	24.7	112.49	66.5	809.1	364.7	326.3	38.37	9.505	
9,500.0	9,466.0	9,547.4	9,467.9	21.5	24.7	112.49	66.5	809.1	364.7	326.2	38.48	9.478	
9,600.0	9,566.0	9,647.4	9,567.9	21.6	24.7	112.49	66.5	809.1	364.7	326.1	38.59	9.451	
9,700.0	9,666.0	9,747.4	9,667.9	21.6	24.8	112.49	66.5	809.1	364.7	326.0	38.70	9.425	
9,800.0	9,766.0	9,847.4	9,767.9	21.7	24.8	112.49	66.5	809.1	364.7	325.9	38.81	9.398	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1													Offset Site Error: 0.0 usft				
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11386-r.5 MWD+IFR1+MS				Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning				
9,900.0	9,866.0	9,947.4	9,867.9	21.7	24.9	112.49	66.5	809.1	364.7	325.8	38.92	9.371					
10,000.0	9,966.0	10,047.4	9,967.9	21.8	24.9	112.49	66.5	809.1	364.7	325.7	39.03	9.345					
10,100.0	10,066.0	10,147.4	10,067.9	21.8	25.0	112.49	66.5	809.1	364.7	325.6	39.14	9.318					
10,200.0	10,166.0	10,247.4	10,167.9	21.9	25.0	112.49	66.5	809.1	364.7	325.5	39.25	9.292					
10,300.0	10,266.0	10,347.4	10,267.9	21.9	25.0	112.49	66.5	809.1	364.7	325.3	39.36	9.265					
10,400.0	10,366.0	10,447.4	10,367.9	22.0	25.1	112.49	66.5	809.1	364.7	325.2	39.48	9.239					
10,500.0	10,466.0	10,547.4	10,467.9	22.0	25.1	112.49	66.5	809.1	364.7	325.1	39.59	9.213					
10,600.0	10,566.0	10,647.4	10,567.9	22.1	25.2	112.49	66.5	809.1	364.7	325.0	39.70	9.187					
10,700.0	10,666.0	10,747.4	10,667.9	22.1	25.2	112.49	66.5	809.1	364.7	324.9	39.81	9.160					
10,800.0	10,766.0	10,847.4	10,767.9	22.2	25.3	112.49	66.5	809.1	364.7	324.8	39.93	9.134					
10,900.0	10,866.0	10,947.4	10,867.9	22.2	25.3	112.49	66.5	809.1	364.7	324.7	40.04	9.108					
11,000.0	10,966.0	11,047.4	10,967.9	22.3	25.4	112.49	66.5	809.1	364.7	324.6	40.15	9.083					
11,100.0	11,066.0	11,147.4	11,067.9	22.3	25.4	112.49	66.5	809.1	364.7	324.4	40.27	9.057					
11,164.0	11,130.0	11,211.4	11,131.9	22.4	25.4	112.49	66.5	809.1	364.7	324.4	40.33	9.043 SF					
11,200.0	11,166.0	11,247.4	11,167.9	22.4	25.5	112.78	66.5	809.1	365.1	324.8	40.32	9.056					
11,250.0	11,215.7	11,297.1	11,217.6	22.4	25.5	113.35	66.5	809.1	367.2	327.1	40.16	9.145					
11,300.0	11,264.8	11,346.1	11,266.7	22.4	25.5	114.33	66.5	809.1	371.2	331.4	39.82	9.321					
11,350.0	11,312.8	11,392.4	11,312.9	22.4	25.5	115.56	66.5	809.1	377.3	337.9	39.35	9.587					
11,400.0	11,359.4	11,427.2	11,347.7	22.4	25.5	116.60	65.1	809.1	386.7	347.9	38.81	9.963					
11,450.0	11,404.3	11,458.5	11,378.9	22.5	25.5	117.56	62.0	809.1	400.3	362.1	38.16	10.490					
11,500.0	11,447.1	11,485.9	11,405.9	22.5	25.5	118.14	57.9	809.1	418.4	381.0	37.48	11.165					
11,550.0	11,487.5	11,509.0	11,428.6	22.5	25.5	118.12	53.5	809.2	441.2	404.4	36.85	11.972					
11,600.0	11,525.1	11,528.0	11,447.1	22.5	25.5	117.29	49.1	809.2	468.5	432.2	36.33	12.895					
11,650.0	11,559.8	11,550.0	11,468.3	22.6	25.5	116.32	43.4	809.2	500.0	464.2	35.80	13.969					
11,700.0	11,591.2	11,550.0	11,468.3	22.6	25.5	111.84	43.4	809.2	535.0	499.2	35.75	14.967					
11,750.0	11,619.1	11,562.6	11,480.4	22.6	25.5	108.12	39.7	809.2	573.0	537.5	35.47	16.156					
11,800.0	11,643.2	11,567.8	11,485.3	22.7	25.5	102.30	38.1	809.3	613.3	578.0	35.34	17.354					
11,850.0	11,663.5	11,570.3	11,487.7	22.7	25.5	94.97	37.3	809.3	655.5	620.2	35.26	18.590					
11,900.0	11,679.7	11,570.5	11,487.9	22.7	25.5	86.30	37.2	809.3	698.9	663.7	35.20	19.854					
11,950.0	11,691.7	11,568.7	11,486.2	22.8	25.5	76.79	37.8	809.3	742.9	707.8	35.14	21.139					
12,000.0	11,699.4	11,565.1	11,482.7	22.8	25.5	67.17	38.9	809.2	787.2	752.1	35.08	22.438					
12,050.0	11,702.8	11,550.0	11,468.3	22.9	25.5	56.99	43.4	809.2	831.5	796.4	35.14	23.663					
12,064.0	11,703.0	11,550.0	11,468.3	22.9	25.5	54.91	43.4	809.2	843.7	808.6	35.09	24.044					
12,100.0	11,703.0	11,550.0	11,468.3	23.0	25.5	54.91	43.4	809.2	875.4	840.4	34.98	25.022					
12,200.0	11,703.0	11,550.0	11,468.3	23.1	25.5	54.91	43.4	809.2	964.8	930.0	34.80	27.727					

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11274-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	3.5	3.5	3.0	3.0	163.05	-200.3	61.0	209.4				
100.0	100.0	103.5	103.5	3.0	3.1	163.05	-200.3	61.0	209.4	202.9	6.53	32.096	
200.0	200.0	203.5	203.5	3.2	3.2	163.05	-200.3	61.0	209.4	202.7	6.77	30.915	
300.0	300.0	303.5	303.5	3.3	3.3	163.05	-200.3	61.0	209.4	202.4	7.02	29.832	
400.0	400.0	403.5	403.5	3.4	3.4	163.05	-200.3	61.0	209.4	202.2	7.26	28.831	
500.0	500.0	503.5	503.5	3.5	3.6	163.05	-200.3	61.0	209.4	201.9	7.51	27.904	
600.0	600.0	603.5	603.5	3.7	3.7	163.05	-200.3	61.0	209.4	201.7	7.75	27.041	
700.0	700.0	703.5	703.5	3.8	3.8	163.05	-200.3	61.0	209.4	201.5	7.98	26.235	
800.0	800.0	803.5	803.5	3.9	3.9	163.05	-200.3	61.0	209.4	201.2	8.22	25.481	
900.0	900.0	903.5	903.5	4.0	4.0	163.05	-200.3	61.0	209.4	201.0	8.45	24.774	
1,000.0	1,000.0	1,003.5	1,003.5	4.2	4.2	163.05	-200.3	61.0	209.4	200.7	8.69	24.108	
1,100.0	1,100.0	1,103.5	1,103.5	4.3	4.3	163.05	-200.3	61.0	209.4	200.5	8.92	23.480	
1,200.0	1,200.0	1,203.5	1,203.5	4.4	4.4	163.05	-200.3	61.0	209.4	200.3	9.15	22.886	
1,300.0	1,300.0	1,303.5	1,303.5	4.5	4.5	163.05	-200.3	61.0	209.4	200.1	9.38	22.325	
1,400.0	1,400.0	1,403.5	1,403.5	4.6	4.6	163.05	-200.3	61.0	209.4	199.8	9.61	21.792	
1,500.0	1,500.0	1,503.5	1,503.5	4.8	4.8	163.05	-200.3	61.1	209.4	199.6	9.84	21.287	
1,504.9	1,504.9	1,508.5	1,508.5	4.8	4.8	113.05	-200.3	61.1	209.4	199.6	9.85	21.264	CC, ES
1,600.0	1,600.0	1,604.8	1,604.8	4.9	4.9	113.00	-199.6	62.3	209.6	199.6	10.04	20.883	
1,700.0	1,699.9	1,706.0	1,705.9	5.0	5.0	112.90	-197.6	65.9	210.2	199.9	10.35	20.320	
1,800.0	1,799.7	1,807.3	1,806.9	5.2	5.2	112.74	-194.2	71.7	211.3	200.6	10.65	19.834	
1,900.0	1,899.3	1,908.5	1,907.7	5.5	5.5	112.53	-189.4	79.9	212.8	201.8	10.96	19.414	
2,000.0	1,998.6	2,009.7	2,008.2	5.7	5.7	112.27	-183.4	90.5	214.7	203.4	11.26	19.068	
2,033.3	2,031.6	2,043.0	2,041.1	5.8	5.8	112.18	-181.1	94.4	215.4	204.1	11.30	19.063	
2,100.0	2,097.6	2,107.4	2,104.9	5.9	5.9	102.34	-176.7	103.1	216.6	205.2	11.45	18.919	
2,158.1	2,155.2	2,163.5	2,160.2	6.0	6.1	93.58	-173.2	111.8	217.0	205.5	11.59	18.726	
2,200.0	2,196.7	2,204.0	2,199.9	6.1	6.2	93.11	-170.7	118.8	217.3	205.6	11.67	18.614	
2,300.0	2,295.7	2,300.0	2,293.9	6.4	6.6	91.47	-165.2	137.5	219.0	207.1	11.93	18.350	
2,400.0	2,394.7	2,396.8	2,388.1	6.7	6.8	89.15	-160.1	159.5	222.6	210.5	12.14	18.335	
2,500.0	2,493.7	2,496.2	2,484.6	7.0	7.2	86.64	-155.1	183.0	227.2	214.8	12.42	18.289	
2,600.0	2,592.8	2,595.6	2,581.0	7.3	7.5	84.22	-150.1	206.5	232.2	219.5	12.72	18.256	
2,700.0	2,691.8	2,695.0	2,677.5	7.7	7.9	81.92	-145.1	230.0	237.6	224.6	13.04	18.218	
2,800.0	2,790.8	2,794.4	2,773.9	8.0	8.3	79.71	-140.1	253.5	243.4	230.0	13.40	18.170	
2,900.0	2,889.9	2,893.8	2,870.3	8.4	8.7	77.61	-135.1	277.1	249.6	235.8	13.78	18.106	
3,000.0	2,988.9	2,993.2	2,966.8	8.7	9.1	75.62	-130.1	300.6	256.0	241.8	14.20	18.024	
3,100.0	3,087.9	3,092.6	3,063.2	9.1	9.5	73.72	-125.1	324.1	262.8	248.1	14.66	17.924	
3,200.0	3,186.9	3,192.0	3,159.7	9.5	9.9	71.92	-120.1	347.6	269.8	254.6	15.15	17.808	
3,300.0	3,286.0	3,291.4	3,256.1	9.9	10.4	70.21	-115.1	371.2	277.0	261.4	15.67	17.676	
3,400.0	3,385.0	3,390.8	3,352.6	10.3	10.8	68.59	-110.1	394.7	284.6	268.3	16.23	17.532	
3,500.0	3,484.0	3,490.2	3,449.0	10.7	11.2	67.05	-105.1	418.2	292.3	275.5	16.82	17.378	
3,600.0	3,583.0	3,589.6	3,545.5	11.1	11.7	65.60	-100.1	441.7	300.2	282.8	17.44	17.218	
3,700.0	3,682.1	3,689.0	3,641.9	11.4	12.1	64.22	-95.1	465.2	308.3	290.2	18.08	17.054	
3,800.0	3,781.1	3,788.4	3,738.4	11.8	12.5	62.91	-90.2	488.8	316.6	297.8	18.75	16.887	
3,900.0	3,880.1	3,887.8	3,834.8	12.2	13.0	61.66	-85.2	512.3	325.0	305.6	19.44	16.722	
4,000.0	3,979.1	3,987.2	3,931.3	12.7	13.4	60.48	-80.2	535.8	333.6	313.4	20.15	16.558	
4,100.0	4,078.2	4,086.6	4,027.7	13.1	13.9	59.36	-75.2	559.3	342.3	321.4	20.88	16.397	
4,200.0	4,177.2	4,186.0	4,124.2	13.5	14.4	58.30	-70.2	582.9	351.1	329.5	21.62	16.240	
4,300.0	4,276.2	4,285.4	4,220.6	13.9	14.8	57.28	-65.2	606.4	360.1	337.7	22.38	16.088	
4,400.0	4,375.3	4,384.8	4,317.1	14.3	15.3	56.32	-60.2	629.9	369.1	346.0	23.16	15.942	
4,500.0	4,474.3	4,484.2	4,413.5	14.7	15.7	55.40	-55.2	653.4	378.3	354.4	23.94	15.801	
4,600.0	4,573.3	4,583.6	4,510.0	15.1	16.2	54.53	-50.2	676.9	387.5	362.8	24.74	15.666	
4,700.0	4,672.3	4,683.0	4,606.4	15.5	16.7	53.70	-45.2	700.5	396.9	371.3	25.54	15.537	
4,800.0	4,771.4	4,782.4	4,702.9	15.9	17.1	52.90	-40.2	724.0	406.3	379.9	26.36	15.414	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11274-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
4,900.0	4,870.4	4,881.8	4,799.3	16.4	17.6	52.14	-35.2	747.5	415.8	388.6	27.18	15.296	
5,000.0	4,969.4	4,981.2	4,895.8	16.8	18.1	51.42	-30.2	771.0	425.3	397.3	28.01	15.185	
5,081.4	5,050.0	5,062.1	4,974.2	17.1	18.5	50.85	-26.1	790.2	433.2	404.5	28.68	15.103	
5,100.0	5,068.4	5,080.6	4,992.2	17.2	18.5	50.74	-25.2	794.6	435.0	406.1	28.83	15.088	
5,200.0	5,167.6	5,179.9	5,088.5	17.6	19.0	50.04	-20.2	818.0	445.4	415.7	29.70	14.995	
5,300.0	5,267.0	5,279.0	5,184.6	18.0	19.5	49.22	-15.2	841.5	457.1	426.5	30.61	14.934	
5,400.0	5,366.6	5,377.8	5,280.5	18.4	20.0	48.29	-10.2	864.9	470.0	438.5	31.54	14.900	
5,500.0	5,466.3	5,476.3	5,376.2	18.7	20.4	47.28	-5.3	888.2	484.2	451.7	32.51	14.896 SF	
5,600.0	5,566.1	5,574.6	5,471.5	19.1	20.9	46.19	-0.3	911.4	499.8	466.3	33.49	14.923	
5,700.0	5,666.1	5,672.5	5,566.5	19.4	21.4	45.05	4.6	934.6	516.9	482.4	34.49	14.984	
5,800.0	5,766.0	5,770.0	5,661.1	19.7	21.8	43.87	9.5	957.7	535.3	499.8	35.49	15.083	
5,881.4	5,847.4	5,849.1	5,737.9	19.8	22.2	110.89	13.5	976.4	551.5	515.3	36.25	15.214	
5,900.0	5,866.0	5,867.2	5,755.4	19.8	22.3	110.64	14.4	980.7	555.3	518.9	36.41	15.252	
6,000.0	5,966.0	5,964.2	5,849.6	19.9	22.8	109.36	19.3	1,003.6	576.0	538.7	37.28	15.450	
6,100.0	6,066.0	6,061.3	5,943.7	19.9	23.2	108.16	24.2	1,026.6	597.0	558.8	38.13	15.658	
6,200.0	6,166.0	6,158.3	6,037.9	20.0	23.7	107.04	29.1	1,049.6	618.2	579.2	38.95	15.870	
6,300.0	6,266.0	6,255.3	6,132.0	20.0	24.2	105.99	33.9	1,072.5	639.6	599.8	39.76	16.086	
6,400.0	6,366.0	6,352.4	6,226.1	20.0	24.6	105.02	38.8	1,095.5	661.2	620.6	40.55	16.304	
6,500.0	6,466.0	6,449.4	6,320.3	20.1	25.1	104.10	43.7	1,118.4	682.9	641.6	41.33	16.523	
6,600.0	6,566.0	6,546.4	6,414.4	20.1	25.6	103.24	48.6	1,141.4	704.8	662.8	42.09	16.745	
6,700.0	6,666.0	6,663.2	6,528.1	20.2	26.1	102.31	54.2	1,167.8	726.0	683.1	42.97	16.895	
6,800.0	6,766.0	6,791.6	6,654.1	20.2	26.7	101.52	59.3	1,191.8	743.5	699.7	43.82	16.967	
6,900.0	6,866.0	6,921.9	6,783.0	20.3	27.3	100.94	63.3	1,210.5	757.0	712.5	44.53	17.002	
7,000.0	6,966.0	7,053.8	6,914.2	20.3	27.9	100.55	66.0	1,223.5	766.4	721.3	45.07	17.003	
7,100.0	7,066.0	7,186.6	7,046.8	20.4	28.3	100.35	67.5	1,230.7	771.4	726.0	45.44	16.978	
7,200.0	7,166.0	7,309.4	7,169.5	20.4	28.5	100.30	67.8	1,232.1	772.5	727.0	45.47	16.988	
7,300.0	7,266.0	7,409.4	7,269.5	20.5	28.5	100.30	67.8	1,232.1	772.5	726.9	45.55	16.958	
7,400.0	7,366.0	7,509.4	7,369.5	20.5	28.6	100.30	67.8	1,232.1	772.5	726.8	45.63	16.930	
7,500.0	7,466.0	7,609.4	7,469.5	20.5	28.6	100.30	67.8	1,232.1	772.5	726.8	45.70	16.901	
7,600.0	7,566.0	7,709.4	7,569.5	20.6	28.6	100.30	67.8	1,232.1	772.5	726.7	45.78	16.873	
7,700.0	7,666.0	7,809.4	7,669.5	20.6	28.7	100.30	67.8	1,232.1	772.5	726.6	45.86	16.845	
7,800.0	7,766.0	7,909.4	7,769.5	20.7	28.7	100.30	67.8	1,232.1	772.5	726.5	45.94	16.816	
7,900.0	7,866.0	8,009.4	7,869.5	20.7	28.7	100.30	67.8	1,232.1	772.5	726.4	46.01	16.788	
8,000.0	7,966.0	8,109.4	7,969.5	20.8	28.8	100.30	67.8	1,232.1	772.5	726.4	46.09	16.759	
8,100.0	8,066.0	8,209.4	8,069.5	20.8	28.8	100.30	67.8	1,232.1	772.5	726.3	46.17	16.730	
8,200.0	8,166.0	8,309.4	8,169.5	20.9	28.8	100.30	67.8	1,232.1	772.5	726.2	46.25	16.701	
8,300.0	8,266.0	8,409.4	8,269.5	20.9	28.8	100.30	67.8	1,232.1	772.5	726.1	46.33	16.673	
8,400.0	8,366.0	8,509.4	8,369.5	21.0	28.9	100.30	67.8	1,232.1	772.5	726.0	46.41	16.644	
8,500.0	8,466.0	8,609.4	8,469.5	21.0	28.9	100.30	67.8	1,232.1	772.5	726.0	46.49	16.615	
8,600.0	8,566.0	8,709.4	8,569.5	21.1	28.9	100.30	67.8	1,232.1	772.5	725.9	46.57	16.586	
8,700.0	8,666.0	8,809.4	8,669.5	21.1	29.0	100.30	67.8	1,232.1	772.5	725.8	46.65	16.557	
8,800.0	8,766.0	8,909.4	8,769.5	21.2	29.0	100.30	67.8	1,232.1	772.5	725.7	46.74	16.528	
8,900.0	8,866.0	9,009.4	8,869.5	21.2	29.0	100.30	67.8	1,232.1	772.5	725.6	46.82	16.499	
9,000.0	8,966.0	9,109.4	8,969.5	21.3	29.1	100.30	67.8	1,232.1	772.5	725.6	46.90	16.470	
9,100.0	9,066.0	9,209.4	9,069.5	21.3	29.1	100.30	67.8	1,232.1	772.5	725.5	46.99	16.440	
9,200.0	9,166.0	9,309.4	9,169.5	21.4	29.1	100.30	67.8	1,232.1	772.5	725.4	47.07	16.411	
9,300.0	9,266.0	9,409.4	9,269.5	21.4	29.2	100.30	67.8	1,232.1	772.5	725.3	47.15	16.382	
9,400.0	9,366.0	9,509.4	9,369.5	21.5	29.2	100.30	67.8	1,232.1	772.5	725.2	47.24	16.353	
9,500.0	9,466.0	9,609.4	9,469.5	21.5	29.2	100.30	67.8	1,232.1	772.5	725.1	47.32	16.323	
9,600.0	9,566.0	9,709.4	9,569.5	21.6	29.3	100.30	67.8	1,232.1	772.5	725.0	47.41	16.294	
9,700.0	9,666.0	9,809.4	9,669.5	21.6	29.3	100.30	67.8	1,232.1	772.5	725.0	47.49	16.265	
9,800.0	9,766.0	9,909.4	9,769.5	21.7	29.3	100.30	67.8	1,232.1	772.5	724.9	47.58	16.235	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11274-r.5 MWD+IFR1+MS		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,900.0	9,866.0	10,009.4	9,869.5	21.7	29.4	100.30	67.8	1,232.1	772.5	724.8	47.67	16.206		
10,000.0	9,966.0	10,109.4	9,969.5	21.8	29.4	100.30	67.8	1,232.1	772.5	724.7	47.75	16.176		
10,100.0	10,066.0	10,209.4	10,069.5	21.8	29.4	100.30	67.8	1,232.1	772.5	724.6	47.84	16.147		
10,200.0	10,166.0	10,309.4	10,169.5	21.9	29.5	100.30	67.8	1,232.1	772.5	724.5	47.93	16.117		
10,300.0	10,266.0	10,409.4	10,269.5	21.9	29.5	100.30	67.8	1,232.1	772.5	724.4	48.02	16.088		
10,400.0	10,366.0	10,509.4	10,369.5	22.0	29.5	100.30	67.8	1,232.1	772.5	724.4	48.10	16.058		
10,500.0	10,466.0	10,609.4	10,469.5	22.0	29.6	100.30	67.8	1,232.1	772.5	724.3	48.19	16.029		
10,600.0	10,566.0	10,709.4	10,569.5	22.1	29.6	100.30	67.8	1,232.1	772.5	724.2	48.28	15.999		
10,700.0	10,666.0	10,809.4	10,669.5	22.1	29.6	100.30	67.8	1,232.1	772.5	724.1	48.37	15.969		
10,800.0	10,766.0	10,909.4	10,769.5	22.2	29.7	100.30	67.8	1,232.1	772.5	724.0	48.46	15.940		
10,900.0	10,866.0	11,009.4	10,869.5	22.2	29.7	100.30	67.8	1,232.1	772.5	723.9	48.55	15.910		
11,000.0	10,966.0	11,109.4	10,969.5	22.3	29.8	100.30	67.8	1,232.1	772.5	723.8	48.64	15.881		
11,100.0	11,066.0	11,209.4	11,069.5	22.3	29.8	100.30	67.8	1,232.1	772.5	723.7	48.73	15.851		
11,164.0	11,130.0	11,273.3	11,133.5	22.4	29.8	100.30	67.8	1,232.1	772.5	723.7	48.78	15.837		
11,200.0	11,166.0	11,300.0	11,160.1	22.4	29.8	100.53	67.3	1,232.1	772.8	724.0	48.83	15.826		
11,250.0	11,215.7	11,341.1	11,201.1	22.4	29.8	100.91	63.9	1,232.1	774.6	725.9	48.77	15.885		
11,300.0	11,264.8	11,377.8	11,237.3	22.4	29.8	101.46	58.5	1,232.2	778.1	729.5	48.62	16.006		
11,350.0	11,312.8	11,411.2	11,270.0	22.4	29.8	102.05	51.5	1,232.2	783.6	735.2	48.37	16.199		
11,400.0	11,359.4	11,440.6	11,298.5	22.4	29.8	102.53	43.8	1,232.2	791.4	743.4	48.06	16.469		
11,450.0	11,404.3	11,465.9	11,322.5	22.5	29.8	102.74	36.0	1,232.3	801.9	754.2	47.68	16.821		
11,500.0	11,447.1	11,486.9	11,342.2	22.5	29.8	102.56	28.7	1,232.3	815.3	768.1	47.25	17.257		
11,550.0	11,487.5	11,500.0	11,354.3	22.5	29.9	101.66	23.8	1,232.4	831.7	784.9	46.84	17.758		
11,600.0	11,525.1	11,516.8	11,369.8	22.5	29.9	100.68	17.1	1,232.4	851.1	804.8	46.29	18.386		
11,650.0	11,559.8	11,526.4	11,378.4	22.6	29.9	98.88	13.1	1,232.4	873.5	827.7	45.79	19.074		
11,700.0	11,591.2	11,532.8	11,384.2	22.6	29.9	96.48	10.3	1,232.5	898.5	853.2	45.29	19.838		
11,750.0	11,619.1	11,536.4	11,387.5	22.6	29.9	93.48	8.8	1,232.5	925.8	881.1	44.79	20.670		
11,800.0	11,643.2	11,550.0	11,399.6	22.7	29.9	90.87	2.6	1,232.5	955.4	911.3	44.12	21.653		
11,850.0	11,663.5	11,536.5	11,387.6	22.7	29.9	85.89	8.7	1,232.5	986.3	942.5	43.82	22.506		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11508-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	2.6	2.6	3.0	3.0	155.57	-200.5	91.1	220.3				
100.0	100.0	102.6	102.6	3.0	3.0	155.57	-200.5	91.1	220.3	213.7	6.52	33.760	
200.0	200.0	202.6	202.6	3.2	3.2	155.57	-200.5	91.1	220.3	213.5	6.77	32.523	
300.0	300.0	302.6	302.6	3.3	3.3	155.57	-200.5	91.1	220.3	213.2	7.02	31.389	
400.0	400.0	402.6	402.6	3.4	3.4	155.57	-200.5	91.1	220.3	213.0	7.26	30.344	
500.0	500.0	502.6	502.6	3.5	3.6	155.57	-200.5	91.1	220.3	212.8	7.50	29.376	
600.0	600.0	602.6	602.6	3.7	3.7	155.57	-200.5	91.1	220.3	212.5	7.73	28.477	
700.0	700.0	702.6	702.6	3.8	3.8	155.57	-200.5	91.1	220.3	212.3	7.97	27.639	
800.0	800.0	802.6	802.6	3.9	3.9	155.57	-200.5	91.1	220.3	212.1	8.20	26.855	
900.0	900.0	902.6	902.6	4.0	4.0	155.57	-200.5	91.1	220.3	211.8	8.43	26.119	
1,000.0	1,000.0	1,002.6	1,002.6	4.2	4.2	155.57	-200.5	91.1	220.3	211.6	8.66	25.428	
1,100.0	1,100.0	1,102.6	1,102.6	4.3	4.3	155.57	-200.5	91.1	220.3	211.4	8.89	24.776	
1,200.0	1,200.0	1,202.6	1,202.6	4.4	4.4	155.57	-200.5	91.1	220.3	211.1	9.12	24.160	
1,300.0	1,300.0	1,302.6	1,302.6	4.5	4.5	155.57	-200.5	91.1	220.3	210.9	9.34	23.577	
1,400.0	1,400.0	1,402.6	1,402.6	4.6	4.6	155.57	-200.5	91.1	220.3	210.7	9.57	23.025	
1,465.8	1,465.8	1,468.4	1,468.4	4.7	4.7	155.57	-200.5	91.1	220.3	210.5	9.71	22.678 CC	
1,500.0	1,500.0	1,502.6	1,502.6	4.8	4.8	155.57	-200.5	91.1	220.3	210.5	9.79	22.500 ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	105.44	-200.3	92.8	221.1	211.1	9.98	22.153	
1,700.0	1,699.9	1,698.2	1,698.1	5.0	5.0	105.10	-199.6	97.9	223.7	213.4	10.29	21.740	
1,800.0	1,799.7	1,795.9	1,795.3	5.2	5.2	104.56	-198.4	106.2	227.9	217.3	10.59	21.518	
1,900.0	1,899.3	1,893.3	1,892.0	5.5	5.5	103.85	-196.8	117.8	233.8	222.9	10.89	21.465	
2,000.0	1,998.6	1,990.4	1,988.0	5.7	5.8	102.99	-194.7	132.6	241.4	230.2	11.20	21.563	
2,033.3	2,031.6	2,022.7	2,019.8	5.8	6.0	102.68	-193.9	138.2	244.3	233.0	11.27	21.687	
2,100.0	2,097.6	2,087.2	2,083.1	5.9	6.2	92.46	-192.2	150.5	249.8	238.4	11.45	21.818	
2,158.1	2,155.2	2,143.3	2,138.0	6.0	6.4	83.35	-190.5	162.3	253.8	242.2	11.60	21.878	
2,200.0	2,196.7	2,183.8	2,177.3	6.1	6.5	82.64	-189.2	171.5	256.6	244.9	11.70	21.933	
2,300.0	2,295.7	2,280.8	2,271.2	6.4	6.8	80.57	-185.8	195.6	264.2	252.2	11.97	22.071	
2,400.0	2,394.7	2,379.9	2,366.9	6.7	7.1	78.43	-182.3	221.1	272.5	260.2	12.32	22.112	
2,500.0	2,493.7	2,479.1	2,462.7	7.0	7.5	76.41	-178.7	246.5	281.1	268.4	12.72	22.105	
2,600.0	2,592.8	2,578.2	2,558.5	7.3	7.8	74.52	-175.1	271.9	290.1	277.0	13.14	22.072	
2,700.0	2,691.8	2,677.3	2,654.2	7.7	8.2	72.74	-171.6	297.3	299.4	285.8	13.60	22.014	
2,800.0	2,790.8	2,776.5	2,750.0	8.0	8.6	71.06	-168.0	322.7	308.9	294.8	14.08	21.933	
2,900.0	2,889.9	2,875.6	2,845.8	8.4	9.0	69.49	-164.4	348.1	318.7	304.1	14.60	21.830	
3,000.0	2,988.9	2,974.8	2,941.6	8.7	9.4	68.01	-160.8	373.5	328.7	313.6	15.14	21.709	
3,100.0	3,087.9	3,073.9	3,037.3	9.1	9.8	66.62	-157.3	398.9	338.9	323.2	15.71	21.572	
3,200.0	3,186.9	3,173.1	3,133.1	9.5	10.2	65.31	-153.7	424.4	349.3	333.0	16.30	21.425	
3,300.0	3,286.0	3,272.2	3,228.9	9.9	10.7	64.08	-150.1	449.8	359.9	343.0	16.92	21.269	
3,400.0	3,385.0	3,371.4	3,324.6	10.3	11.1	62.92	-146.6	475.2	370.6	353.1	17.56	21.107	
3,500.0	3,484.0	3,470.5	3,420.4	10.7	11.5	61.82	-143.0	500.6	381.5	363.3	18.22	20.941	
3,600.0	3,583.0	3,569.7	3,516.2	11.1	12.0	60.79	-139.4	526.0	392.5	373.6	18.89	20.775	
3,700.0	3,682.1	3,668.8	3,611.9	11.4	12.4	59.81	-135.8	551.4	403.6	384.1	19.59	20.609	
3,800.0	3,781.1	3,768.0	3,707.7	11.8	12.9	58.88	-132.3	576.8	414.9	394.6	20.29	20.444	
3,900.0	3,880.1	3,867.1	3,803.5	12.2	13.3	58.00	-128.7	602.2	426.2	405.2	21.01	20.283	
4,000.0	3,979.1	3,966.3	3,899.2	12.7	13.8	57.17	-125.1	627.6	437.6	415.9	21.75	20.125	
4,100.0	4,078.2	4,065.4	3,995.0	13.1	14.2	56.38	-121.6	653.1	449.2	426.7	22.49	19.971	
4,200.0	4,177.2	4,164.6	4,090.8	13.5	14.7	55.63	-118.0	678.5	460.8	437.5	23.25	19.822	
4,300.0	4,276.2	4,263.7	4,186.6	13.9	15.2	54.91	-114.4	703.9	472.4	448.4	24.01	19.677	
4,400.0	4,375.3	4,362.9	4,282.3	14.3	15.6	54.23	-110.8	729.3	484.2	459.4	24.78	19.538	
4,500.0	4,474.3	4,462.0	4,378.1	14.7	16.1	53.59	-107.3	754.7	496.0	470.4	25.56	19.403	
4,600.0	4,573.3	4,561.2	4,473.9	15.1	16.6	52.97	-103.7	780.1	507.9	481.5	26.35	19.274	
4,700.0	4,672.3	4,660.3	4,569.6	15.5	17.0	52.38	-100.1	805.5	519.8	492.6	27.14	19.150	
4,800.0	4,771.4	4,759.4	4,665.4	15.9	17.5	51.82	-96.6	830.9	531.8	503.8	27.94	19.031	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: ZIA HILLS UNIT 1932 PROJECT - ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 11508-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,900.0	4,870.4	4,858.6	4,761.2	16.4	18.0	51.28	-93.0	856.3	543.8	515.0	28.75	18.916	
5,000.0	4,969.4	4,957.7	4,856.9	16.8	18.5	50.77	-89.4	881.8	555.9	526.3	29.56	18.806	
5,081.4	5,050.0	5,038.4	4,934.9	17.1	18.8	50.36	-86.5	902.4	565.7	535.5	30.21	18.726	
5,100.0	5,068.4	5,056.9	4,952.7	17.2	18.9	50.29	-85.8	907.2	568.0	537.6	30.35	18.712	
5,200.0	5,167.6	5,155.9	5,048.3	17.6	19.4	49.83	-82.3	932.5	580.9	549.7	31.20	18.620	
5,300.0	5,267.0	5,254.7	5,143.7	18.0	19.9	49.27	-78.7	957.9	595.0	563.0	32.06	18.561	
5,400.0	5,366.6	5,353.2	5,238.9	18.4	20.4	48.63	-75.2	983.1	610.3	577.4	32.94	18.530	
5,500.0	5,466.3	5,451.4	5,333.7	18.7	20.8	47.91	-71.6	1,008.3	626.9	593.1	33.84	18.528 SF	
5,600.0	5,566.1	5,549.2	5,428.3	19.1	21.3	47.14	-68.1	1,033.4	644.8	610.0	34.75	18.555	
5,700.0	5,666.1	5,646.8	5,522.5	19.4	21.8	46.31	-64.6	1,058.4	664.0	628.3	35.67	18.614	
5,800.0	5,766.0	5,743.9	5,616.3	19.7	22.2	45.44	-61.1	1,083.3	684.6	648.0	36.59	18.709	
5,881.4	5,847.4	5,822.7	5,692.4	19.8	22.6	112.71	-58.3	1,103.4	702.4	665.1	37.29	18.837	
5,900.0	5,866.0	5,840.7	5,709.8	19.8	22.7	112.52	-57.6	1,108.1	706.5	669.1	37.43	18.875	
6,000.0	5,966.0	5,937.2	5,803.1	19.9	23.2	111.49	-54.1	1,132.8	729.1	690.9	38.24	19.067	
6,100.0	6,066.0	6,033.8	5,896.4	19.9	23.6	110.53	-50.7	1,157.6	752.0	712.9	39.03	19.266	
6,200.0	6,166.0	6,130.4	5,989.7	20.0	24.1	109.62	-47.2	1,182.3	775.0	735.2	39.81	19.467	
6,300.0	6,266.0	6,227.0	6,083.0	20.0	24.6	108.77	-43.7	1,207.1	798.2	757.6	40.58	19.670	
6,400.0	6,366.0	6,323.6	6,176.3	20.0	25.1	107.96	-40.2	1,231.8	821.5	780.2	41.34	19.873	
6,500.0	6,466.0	6,420.2	6,269.6	20.1	25.5	107.19	-36.7	1,256.6	845.0	802.9	42.09	20.077	
6,600.0	6,566.0	6,516.8	6,362.9	20.1	26.0	106.47	-33.3	1,281.3	868.6	825.8	42.83	20.281	
6,700.0	6,666.0	6,613.4	6,456.2	20.2	26.5	105.79	-29.8	1,306.1	892.4	848.8	43.57	20.483	
6,800.0	6,766.0	6,710.0	6,549.5	20.2	27.0	105.14	-26.3	1,330.9	916.2	871.9	44.30	20.684	
6,900.0	6,866.0	6,806.6	6,642.8	20.3	27.4	104.52	-22.8	1,355.6	940.2	895.2	45.02	20.883	
7,000.0	6,966.0	6,903.2	6,736.1	20.3	27.9	103.94	-19.3	1,380.4	964.3	918.6	45.74	21.081	
7,100.0	7,066.0	6,999.8	6,829.4	20.4	28.4	103.38	-15.9	1,405.1	988.5	942.0	46.46	21.276	

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 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=30ft @ 3196.7usft

Offset Depths are relative to Offset Datum

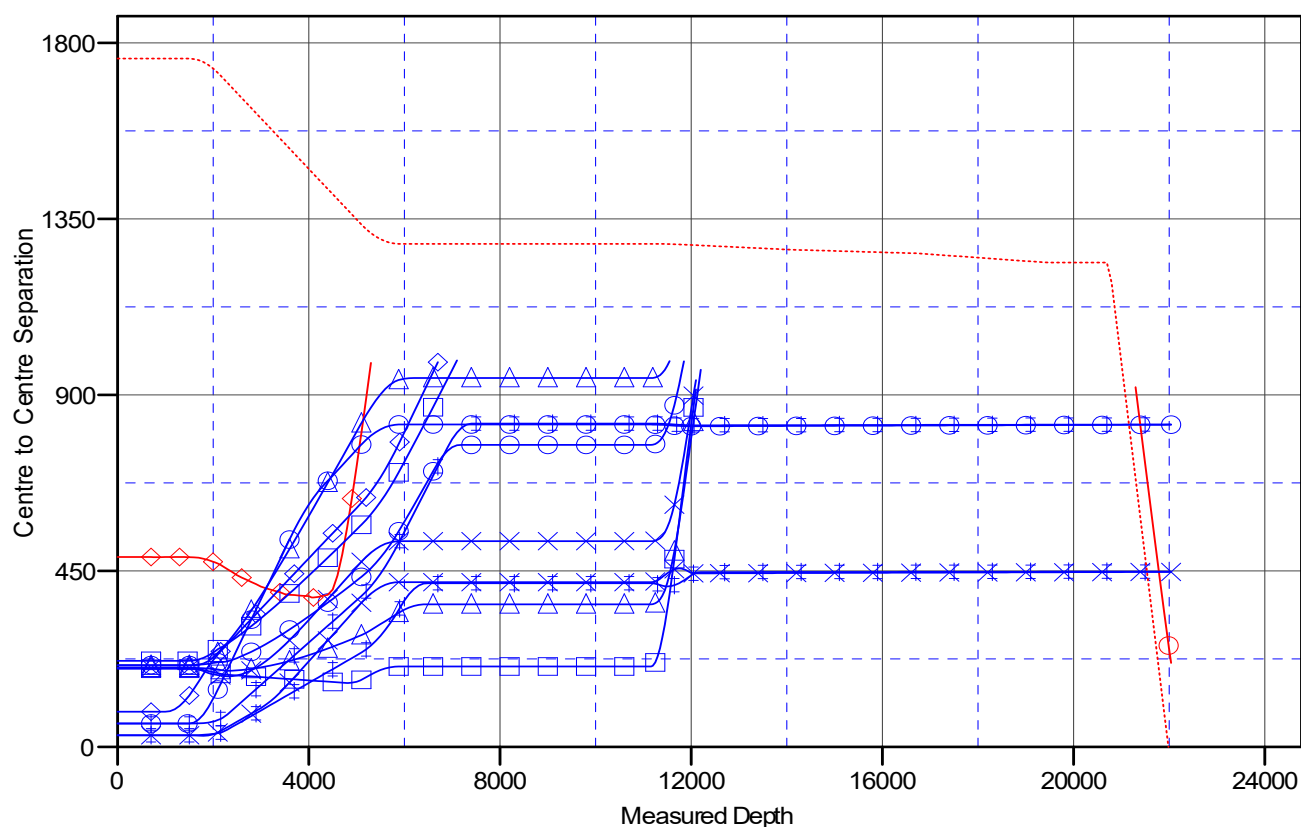
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #711H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

ZIA HILLS UNIT 1932 WC #763H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #759H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #709H OWB, PWP1 V0
CONOCO FEDERAL #2, OWB, AWP V0	PADUCA 7 6 W1GB FEDERAL#2H, OWB, AWP V0	ZIA HILLS UNIT 1932 WC #714H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #760H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #764H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #710H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #762H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #712H OWB, PWP1 V0	
ZIA HILLS UNIT 1932 WC #713H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #761H OWB, PWP1 V0	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Project:	LEA PROSPECT (NM-E)	TVD Reference:	RKB=30ft @ 3196.7usft
Reference Site:	ZIA HILLS UNIT 1932 PROJECT	MD Reference:	RKB=30ft @ 3196.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Central Planning Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=30ft @ 3196.7usft

Offset Depths are relative to Offset Datum

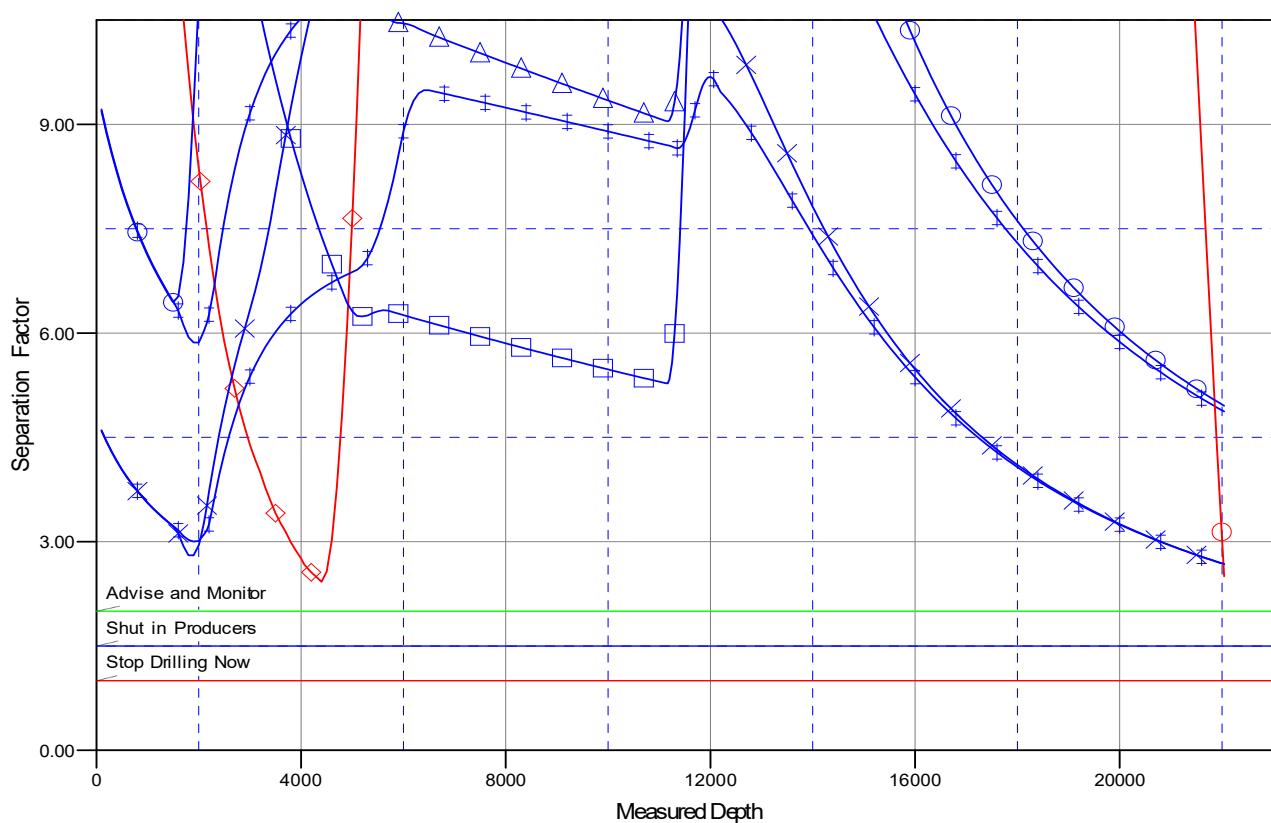
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #711H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND

ZIA HILLS UNIT 1932 WC #763H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #759H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #709H OWB, PWP1 V0
CONOCO FEDERAL #2 OWB, AWP V0	PADUCA 7 6 W 1GB FEDERAL #2H OWB, AWP V0	ZIA HILLS UNIT 1932 WC #714H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #760H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #764H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #710H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #762H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #712H OWB, PWP1 V0	
ZIA HILLS UNIT 1932 WC #713H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #761H OWB, PWP1 V0	

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 1932 PROJECT

ZIA HILLS UNIT 1932 WC #711H

OWB

Plan: PWP1

Standard Planning Report

09 May, 2023

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Project	LEA PROSPECT (NM-E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	ZIA HILLS UNIT 1932 PROJECT		
Site Position:		Northing:	374,169.81 usft
From:	Map	Easting:	692,465.85 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 37.871 N
		Longitude:	103° 42' 44.234 W

Well	ZIA HILLS UNIT 1932 WC #711H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
Grid Convergence:	0.33 °		
		Latitude:	32° 1' 39.840 N
		Longitude:	103° 42' 43.330 W
		Ground Level:	3,166.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2023	11/1/2023	6.34	59.54	47,256.44223172

Design	PWP1			
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	2.35

Plan Survey Tool Program		Date	5/9/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp		
2	1,500.0	11,164.0 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,164.0	22,041.7 PWP1 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,033.3	8.00	50.00	2,031.6	23.9	28.5	1.50	1.50	0.00	50.00	
2,158.1	8.00	68.00	2,155.2	32.7	43.2	2.00	0.00	14.43	98.91	
5,081.4	8.00	68.00	5,050.0	185.1	420.4	0.00	0.00	0.00	0.00	
5,881.4	0.00	0.00	5,847.4	206.0	472.1	1.00	-1.00	0.00	180.00	
11,164.0	0.00	0.00	11,130.0	206.0	472.1	0.00	0.00	0.00	0.00	
12,064.0	90.00	359.83	11,703.0	779.0	470.4	10.00	10.00	-0.02	359.83	
21,991.7	90.00	359.83	11,703.0	10,706.7	441.4	0.00	0.00	0.00	0.00	
22,041.7	90.00	359.83	11,703.0	10,756.7	441.3	0.00	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
1,600.0	1.50	50.00	1,600.0	0.8	1.0	0.9	1.50	1.50	0.00
1,700.0	3.00	50.00	1,699.9	3.4	4.0	3.5	1.50	1.50	0.00
1,800.0	4.50	50.00	1,799.7	7.6	9.0	7.9	1.50	1.50	0.00
1,900.0	6.00	50.00	1,899.3	13.5	16.0	14.1	1.50	1.50	0.00
2,000.0	7.50	50.00	1,998.6	21.0	25.0	22.0	1.50	1.50	0.00
2,033.3	8.00	50.00	2,031.6	23.9	28.5	25.0	1.50	1.50	0.00
Start DLS 2.00 TFO 98.91									
2,100.0	7.90	59.62	2,097.6	29.2	36.0	30.6	2.00	-0.15	14.44
2,158.1	8.00	68.00	2,155.2	32.7	43.2	34.5	2.00	0.17	14.42
Start 2923.3 hold at 2158.1 MD									
2,200.0	8.00	68.00	2,196.7	34.9	48.6	36.9	0.00	0.00	0.00
2,300.0	8.00	68.00	2,295.7	40.1	61.5	42.6	0.00	0.00	0.00
2,400.0	8.00	68.00	2,394.7	45.3	74.4	48.4	0.00	0.00	0.00
2,500.0	8.00	68.00	2,493.7	50.6	87.3	54.1	0.00	0.00	0.00
2,600.0	8.00	68.00	2,592.8	55.8	100.2	59.8	0.00	0.00	0.00
2,700.0	8.00	68.00	2,691.8	61.0	113.1	65.6	0.00	0.00	0.00
2,800.0	8.00	68.00	2,790.8	66.2	126.0	71.3	0.00	0.00	0.00
2,900.0	8.00	68.00	2,889.9	71.4	138.9	77.0	0.00	0.00	0.00
3,000.0	8.00	68.00	2,988.9	76.6	151.8	82.8	0.00	0.00	0.00
3,100.0	8.00	68.00	3,087.9	81.8	164.7	88.5	0.00	0.00	0.00
3,200.0	8.00	68.00	3,186.9	87.0	177.6	94.3	0.00	0.00	0.00
3,300.0	8.00	68.00	3,286.0	92.3	190.5	100.0	0.00	0.00	0.00
3,400.0	8.00	68.00	3,385.0	97.5	203.4	105.7	0.00	0.00	0.00
3,500.0	8.00	68.00	3,484.0	102.7	216.3	111.5	0.00	0.00	0.00
3,600.0	8.00	68.00	3,583.0	107.9	229.2	117.2	0.00	0.00	0.00
3,700.0	8.00	68.00	3,682.1	113.1	242.1	122.9	0.00	0.00	0.00
3,800.0	8.00	68.00	3,781.1	118.3	255.0	128.7	0.00	0.00	0.00
3,900.0	8.00	68.00	3,880.1	123.5	268.0	134.4	0.00	0.00	0.00
4,000.0	8.00	68.00	3,979.1	128.8	280.9	140.2	0.00	0.00	0.00
4,100.0	8.00	68.00	4,078.2	134.0	293.8	145.9	0.00	0.00	0.00
4,200.0	8.00	68.00	4,177.2	139.2	306.7	151.6	0.00	0.00	0.00
4,300.0	8.00	68.00	4,276.2	144.4	319.6	157.4	0.00	0.00	0.00
4,400.0	8.00	68.00	4,375.3	149.6	332.5	163.1	0.00	0.00	0.00
4,500.0	8.00	68.00	4,474.3	154.8	345.4	168.8	0.00	0.00	0.00
4,600.0	8.00	68.00	4,573.3	160.0	358.3	174.6	0.00	0.00	0.00
4,700.0	8.00	68.00	4,672.3	165.3	371.2	180.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
4,800.0	8.00	68.00	4,771.4	170.5	384.1	186.1	0.00	0.00	0.00
4,900.0	8.00	68.00	4,870.4	175.7	397.0	191.8	0.00	0.00	0.00
5,000.0	8.00	68.00	4,969.4	180.9	409.9	197.5	0.00	0.00	0.00
5,081.4	8.00	68.00	5,050.0	185.1	420.4	202.2	0.00	0.00	0.00
Start Drop -1.00									
5,100.0	7.81	68.00	5,068.4	186.1	422.8	203.3	1.00	-1.00	0.00
5,200.0	6.81	68.00	5,167.6	190.9	434.6	208.5	1.00	-1.00	0.00
5,300.0	5.81	68.00	5,267.0	195.0	444.8	213.0	1.00	-1.00	0.00
5,400.0	4.81	68.00	5,366.6	198.5	453.4	216.9	1.00	-1.00	0.00
5,500.0	3.81	68.00	5,466.3	201.3	460.3	220.0	1.00	-1.00	0.00
5,600.0	2.81	68.00	5,566.1	203.4	465.7	222.4	1.00	-1.00	0.00
5,700.0	1.81	68.00	5,666.1	204.9	469.4	224.0	1.00	-1.00	0.00
5,800.0	0.81	68.00	5,766.0	205.8	471.6	225.0	1.00	-1.00	0.00
5,881.4	0.00	0.00	5,847.4	206.0	472.1	225.2	1.00	-1.00	0.00
Start 5282.6 hold at 5881.4 MD									
5,900.0	0.00	0.00	5,866.0	206.0	472.1	225.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,966.0	206.0	472.1	225.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,066.0	206.0	472.1	225.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,166.0	206.0	472.1	225.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,266.0	206.0	472.1	225.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,366.0	206.0	472.1	225.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,466.0	206.0	472.1	225.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,566.0	206.0	472.1	225.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,666.0	206.0	472.1	225.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,766.0	206.0	472.1	225.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,866.0	206.0	472.1	225.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,966.0	206.0	472.1	225.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,066.0	206.0	472.1	225.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,166.0	206.0	472.1	225.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,266.0	206.0	472.1	225.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,366.0	206.0	472.1	225.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,466.0	206.0	472.1	225.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,566.0	206.0	472.1	225.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,666.0	206.0	472.1	225.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,766.0	206.0	472.1	225.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,866.0	206.0	472.1	225.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,966.0	206.0	472.1	225.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,066.0	206.0	472.1	225.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,166.0	206.0	472.1	225.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,266.0	206.0	472.1	225.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,366.0	206.0	472.1	225.2	0.00	0.00	0.00
8,500.0	0.00	0.00	8,466.0	206.0	472.1	225.2	0.00	0.00	0.00
8,600.0	0.00	0.00	8,566.0	206.0	472.1	225.2	0.00	0.00	0.00
8,700.0	0.00	0.00	8,666.0	206.0	472.1	225.2	0.00	0.00	0.00
8,800.0	0.00	0.00	8,766.0	206.0	472.1	225.2	0.00	0.00	0.00
8,900.0	0.00	0.00	8,866.0	206.0	472.1	225.2	0.00	0.00	0.00
9,000.0	0.00	0.00	8,966.0	206.0	472.1	225.2	0.00	0.00	0.00
9,100.0	0.00	0.00	9,066.0	206.0	472.1	225.2	0.00	0.00	0.00
9,200.0	0.00	0.00	9,166.0	206.0	472.1	225.2	0.00	0.00	0.00
9,300.0	0.00	0.00	9,266.0	206.0	472.1	225.2	0.00	0.00	0.00
9,400.0	0.00	0.00	9,366.0	206.0	472.1	225.2	0.00	0.00	0.00
9,500.0	0.00	0.00	9,466.0	206.0	472.1	225.2	0.00	0.00	0.00
9,600.0	0.00	0.00	9,566.0	206.0	472.1	225.2	0.00	0.00	0.00
9,700.0	0.00	0.00	9,666.0	206.0	472.1	225.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
9,800.0	0.00	0.00	9,766.0	206.0	472.1	225.2	0.00	0.00	0.00
9,900.0	0.00	0.00	9,866.0	206.0	472.1	225.2	0.00	0.00	0.00
10,000.0	0.00	0.00	9,966.0	206.0	472.1	225.2	0.00	0.00	0.00
10,100.0	0.00	0.00	10,066.0	206.0	472.1	225.2	0.00	0.00	0.00
10,200.0	0.00	0.00	10,166.0	206.0	472.1	225.2	0.00	0.00	0.00
10,300.0	0.00	0.00	10,266.0	206.0	472.1	225.2	0.00	0.00	0.00
10,400.0	0.00	0.00	10,366.0	206.0	472.1	225.2	0.00	0.00	0.00
10,500.0	0.00	0.00	10,466.0	206.0	472.1	225.2	0.00	0.00	0.00
10,600.0	0.00	0.00	10,566.0	206.0	472.1	225.2	0.00	0.00	0.00
10,700.0	0.00	0.00	10,666.0	206.0	472.1	225.2	0.00	0.00	0.00
10,800.0	0.00	0.00	10,766.0	206.0	472.1	225.2	0.00	0.00	0.00
10,900.0	0.00	0.00	10,866.0	206.0	472.1	225.2	0.00	0.00	0.00
11,000.0	0.00	0.00	10,966.0	206.0	472.1	225.2	0.00	0.00	0.00
11,100.0	0.00	0.00	11,066.0	206.0	472.1	225.2	0.00	0.00	0.00
11,164.0	0.00	0.00	11,130.0	206.0	472.1	225.2	0.00	0.00	0.00
Start DLS 10.00 TFO 359.83									
11,200.0	3.60	359.83	11,166.0	207.2	472.1	226.3	10.00	10.00	0.00
11,250.0	8.60	359.83	11,215.7	212.5	472.1	231.6	10.00	10.00	0.00
11,300.0	13.60	359.83	11,264.8	222.1	472.0	241.3	10.00	10.00	0.00
11,350.0	18.60	359.83	11,312.8	236.0	472.0	255.1	10.00	10.00	0.00
11,400.0	23.60	359.83	11,359.4	254.0	472.0	273.1	10.00	10.00	0.00
11,450.0	28.60	359.83	11,404.3	275.9	471.9	295.1	10.00	10.00	0.00
11,500.0	33.60	359.83	11,447.1	301.8	471.8	320.9	10.00	10.00	0.00
11,550.0	38.60	359.83	11,487.5	331.2	471.7	350.3	10.00	10.00	0.00
11,600.0	43.60	359.83	11,525.1	364.1	471.6	383.1	10.00	10.00	0.00
11,650.0	48.60	359.83	11,559.8	400.1	471.5	419.1	10.00	10.00	0.00
11,700.0	53.60	359.83	11,591.2	439.0	471.4	458.0	10.00	10.00	0.00
11,750.0	58.60	359.83	11,619.1	480.5	471.3	499.4	10.00	10.00	0.00
11,800.0	63.60	359.83	11,643.2	524.2	471.2	543.1	10.00	10.00	0.00
11,850.0	68.60	359.83	11,663.5	569.9	471.0	588.8	10.00	10.00	0.00
11,900.0	73.60	359.83	11,679.7	617.2	470.9	636.0	10.00	10.00	0.00
11,950.0	78.60	359.83	11,691.7	665.8	470.8	684.5	10.00	10.00	0.00
12,000.0	83.60	359.83	11,699.4	715.1	470.6	733.8	10.00	10.00	0.00
12,050.0	88.60	359.83	11,702.8	765.0	470.5	783.6	10.00	10.00	0.00
12,064.0	90.00	359.83	11,703.0	779.0	470.4	797.6	10.00	10.00	0.00
Start 9927.8 hold at 12064.0 MD									
12,100.0	90.00	359.83	11,703.0	815.0	470.3	833.6	0.00	0.00	0.00
12,200.0	90.00	359.83	11,703.0	915.0	470.0	933.5	0.00	0.00	0.00
12,300.0	90.00	359.83	11,703.0	1,015.0	469.7	1,033.4	0.00	0.00	0.00
12,400.0	90.00	359.83	11,703.0	1,115.0	469.4	1,133.3	0.00	0.00	0.00
12,500.0	90.00	359.83	11,703.0	1,215.0	469.1	1,233.2	0.00	0.00	0.00
12,600.0	90.00	359.83	11,703.0	1,315.0	468.9	1,333.1	0.00	0.00	0.00
12,700.0	90.00	359.83	11,703.0	1,415.0	468.6	1,433.0	0.00	0.00	0.00
12,800.0	90.00	359.83	11,703.0	1,515.0	468.3	1,532.9	0.00	0.00	0.00
12,900.0	90.00	359.83	11,703.0	1,615.0	468.0	1,632.8	0.00	0.00	0.00
13,000.0	90.00	359.83	11,703.0	1,715.0	467.7	1,732.7	0.00	0.00	0.00
13,100.0	90.00	359.83	11,703.0	1,815.0	467.4	1,832.6	0.00	0.00	0.00
13,200.0	90.00	359.83	11,703.0	1,915.0	467.1	1,932.5	0.00	0.00	0.00
13,300.0	90.00	359.83	11,703.0	2,015.0	466.8	2,032.4	0.00	0.00	0.00
13,400.0	90.00	359.83	11,703.0	2,115.0	466.5	2,132.3	0.00	0.00	0.00
13,500.0	90.00	359.83	11,703.0	2,215.0	466.2	2,232.2	0.00	0.00	0.00
13,600.0	90.00	359.83	11,703.0	2,315.0	465.9	2,332.2	0.00	0.00	0.00
13,700.0	90.00	359.83	11,703.0	2,415.0	465.6	2,432.1	0.00	0.00	0.00
13,800.0	90.00	359.83	11,703.0	2,515.0	465.4	2,532.0	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)
13,900.0	90.00	359.83	11,703.0	2,615.0	465.1	2,631.9	0.00	0.00	0.00
14,000.0	90.00	359.83	11,703.0	2,715.0	464.8	2,731.8	0.00	0.00	0.00
14,100.0	90.00	359.83	11,703.0	2,815.0	464.5	2,831.7	0.00	0.00	0.00
14,200.0	90.00	359.83	11,703.0	2,915.0	464.2	2,931.6	0.00	0.00	0.00
14,300.0	90.00	359.83	11,703.0	3,015.0	463.9	3,031.5	0.00	0.00	0.00
14,400.0	90.00	359.83	11,703.0	3,115.0	463.6	3,131.4	0.00	0.00	0.00
14,500.0	90.00	359.83	11,703.0	3,215.0	463.3	3,231.3	0.00	0.00	0.00
14,600.0	90.00	359.83	11,703.0	3,315.0	463.0	3,331.2	0.00	0.00	0.00
14,700.0	90.00	359.83	11,703.0	3,415.0	462.7	3,431.1	0.00	0.00	0.00
14,800.0	90.00	359.83	11,703.0	3,515.0	462.4	3,531.0	0.00	0.00	0.00
14,900.0	90.00	359.83	11,703.0	3,615.0	462.1	3,630.9	0.00	0.00	0.00
15,000.0	90.00	359.83	11,703.0	3,715.0	461.8	3,730.8	0.00	0.00	0.00
15,100.0	90.00	359.83	11,703.0	3,815.0	461.6	3,830.7	0.00	0.00	0.00
15,200.0	90.00	359.83	11,703.0	3,915.0	461.3	3,930.6	0.00	0.00	0.00
15,300.0	90.00	359.83	11,703.0	4,015.0	461.0	4,030.5	0.00	0.00	0.00
15,400.0	90.00	359.83	11,703.0	4,115.0	460.7	4,130.4	0.00	0.00	0.00
15,500.0	90.00	359.83	11,703.0	4,215.0	460.4	4,230.3	0.00	0.00	0.00
15,600.0	90.00	359.83	11,703.0	4,315.0	460.1	4,330.2	0.00	0.00	0.00
15,700.0	90.00	359.83	11,703.0	4,415.0	459.8	4,430.1	0.00	0.00	0.00
15,800.0	90.00	359.83	11,703.0	4,515.0	459.5	4,530.0	0.00	0.00	0.00
15,900.0	90.00	359.83	11,703.0	4,615.0	459.2	4,629.9	0.00	0.00	0.00
16,000.0	90.00	359.83	11,703.0	4,715.0	458.9	4,729.8	0.00	0.00	0.00
16,100.0	90.00	359.83	11,703.0	4,815.0	458.6	4,829.7	0.00	0.00	0.00
16,200.0	90.00	359.83	11,703.0	4,915.0	458.3	4,929.6	0.00	0.00	0.00
16,300.0	90.00	359.83	11,703.0	5,015.0	458.1	5,029.5	0.00	0.00	0.00
16,400.0	90.00	359.83	11,703.0	5,115.0	457.8	5,129.5	0.00	0.00	0.00
16,500.0	90.00	359.83	11,703.0	5,215.0	457.5	5,229.4	0.00	0.00	0.00
16,600.0	90.00	359.83	11,703.0	5,315.0	457.2	5,329.3	0.00	0.00	0.00
16,700.0	90.00	359.83	11,703.0	5,415.0	456.9	5,429.2	0.00	0.00	0.00
16,800.0	90.00	359.83	11,703.0	5,515.0	456.6	5,529.1	0.00	0.00	0.00
16,900.0	90.00	359.83	11,703.0	5,615.0	456.3	5,629.0	0.00	0.00	0.00
17,000.0	90.00	359.83	11,703.0	5,715.0	456.0	5,728.9	0.00	0.00	0.00
17,100.0	90.00	359.83	11,703.0	5,815.0	455.7	5,828.8	0.00	0.00	0.00
17,200.0	90.00	359.83	11,703.0	5,915.0	455.4	5,928.7	0.00	0.00	0.00
17,300.0	90.00	359.83	11,703.0	6,015.0	455.1	6,028.6	0.00	0.00	0.00
17,400.0	90.00	359.83	11,703.0	6,115.0	454.8	6,128.5	0.00	0.00	0.00
17,500.0	90.00	359.83	11,703.0	6,215.0	454.5	6,228.4	0.00	0.00	0.00
17,600.0	90.00	359.83	11,703.0	6,315.0	454.3	6,328.3	0.00	0.00	0.00
17,700.0	90.00	359.83	11,703.0	6,415.0	454.0	6,428.2	0.00	0.00	0.00
17,800.0	90.00	359.83	11,703.0	6,515.0	453.7	6,528.1	0.00	0.00	0.00
17,900.0	90.00	359.83	11,703.0	6,615.0	453.4	6,628.0	0.00	0.00	0.00
18,000.0	90.00	359.83	11,703.0	6,715.0	453.1	6,727.9	0.00	0.00	0.00
18,100.0	90.00	359.83	11,703.0	6,815.0	452.8	6,827.8	0.00	0.00	0.00
18,200.0	90.00	359.83	11,703.0	6,915.0	452.5	6,927.7	0.00	0.00	0.00
18,300.0	90.00	359.83	11,703.0	7,015.0	452.2	7,027.6	0.00	0.00	0.00
18,400.0	90.00	359.83	11,703.0	7,115.0	451.9	7,127.5	0.00	0.00	0.00
18,500.0	90.00	359.83	11,703.0	7,215.0	451.6	7,227.4	0.00	0.00	0.00
18,600.0	90.00	359.83	11,703.0	7,315.0	451.3	7,327.3	0.00	0.00	0.00
18,700.0	90.00	359.83	11,703.0	7,415.0	451.0	7,427.2	0.00	0.00	0.00
18,800.0	90.00	359.83	11,703.0	7,515.0	450.8	7,527.1	0.00	0.00	0.00
18,900.0	90.00	359.83	11,703.0	7,615.0	450.5	7,627.0	0.00	0.00	0.00
19,000.0	90.00	359.83	11,703.0	7,715.0	450.2	7,726.9	0.00	0.00	0.00
19,100.0	90.00	359.83	11,703.0	7,815.0	449.9	7,826.8	0.00	0.00	0.00
19,200.0	90.00	359.83	11,703.0	7,915.0	449.6	7,926.8	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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)	
19,300.0	90.00	359.83	11,703.0	8,015.0	449.3	8,026.7	0.00	0.00	0.00	
19,400.0	90.00	359.83	11,703.0	8,115.0	449.0	8,126.6	0.00	0.00	0.00	
19,500.0	90.00	359.83	11,703.0	8,215.0	448.7	8,226.5	0.00	0.00	0.00	
19,600.0	90.00	359.83	11,703.0	8,315.0	448.4	8,326.4	0.00	0.00	0.00	
19,700.0	90.00	359.83	11,703.0	8,415.0	448.1	8,426.3	0.00	0.00	0.00	
19,800.0	90.00	359.83	11,703.0	8,515.0	447.8	8,526.2	0.00	0.00	0.00	
19,900.0	90.00	359.83	11,703.0	8,615.0	447.5	8,626.1	0.00	0.00	0.00	
20,000.0	90.00	359.83	11,703.0	8,715.0	447.2	8,726.0	0.00	0.00	0.00	
20,100.0	90.00	359.83	11,703.0	8,815.0	447.0	8,825.9	0.00	0.00	0.00	
20,200.0	90.00	359.83	11,703.0	8,915.0	446.7	8,925.8	0.00	0.00	0.00	
20,300.0	90.00	359.83	11,703.0	9,015.0	446.4	9,025.7	0.00	0.00	0.00	
20,400.0	90.00	359.83	11,703.0	9,115.0	446.1	9,125.6	0.00	0.00	0.00	
20,500.0	90.00	359.83	11,703.0	9,215.0	445.8	9,225.5	0.00	0.00	0.00	
20,600.0	90.00	359.83	11,703.0	9,315.0	445.5	9,325.4	0.00	0.00	0.00	
20,700.0	90.00	359.83	11,703.0	9,415.0	445.2	9,425.3	0.00	0.00	0.00	
20,800.0	90.00	359.83	11,703.0	9,515.0	444.9	9,525.2	0.00	0.00	0.00	
20,900.0	90.00	359.83	11,703.0	9,615.0	444.6	9,625.1	0.00	0.00	0.00	
21,000.0	90.00	359.83	11,703.0	9,715.0	444.3	9,725.0	0.00	0.00	0.00	
21,100.0	90.00	359.83	11,703.0	9,815.0	444.0	9,824.9	0.00	0.00	0.00	
21,200.0	90.00	359.83	11,703.0	9,915.0	443.7	9,924.8	0.00	0.00	0.00	
21,300.0	90.00	359.83	11,703.0	10,015.0	443.5	10,024.7	0.00	0.00	0.00	
21,400.0	90.00	359.83	11,703.0	10,115.0	443.2	10,124.6	0.00	0.00	0.00	
21,500.0	90.00	359.83	11,703.0	10,215.0	442.9	10,224.5	0.00	0.00	0.00	
21,600.0	90.00	359.83	11,703.0	10,315.0	442.6	10,324.4	0.00	0.00	0.00	
21,700.0	90.00	359.83	11,703.0	10,415.0	442.3	10,424.3	0.00	0.00	0.00	
21,800.0	90.00	359.83	11,703.0	10,515.0	442.0	10,524.2	0.00	0.00	0.00	
21,900.0	90.00	359.83	11,703.0	10,615.0	441.7	10,624.1	0.00	0.00	0.00	
21,991.7	90.00	359.83	11,703.0	10,706.7	441.4	10,715.8	0.00	0.00	0.00	
Start 50.0 hold at 21991.7 MD										
22,000.0	90.00	359.83	11,703.0	10,715.0	441.4	10,724.1	0.00	0.00	0.00	
22,041.7	90.00	359.83	11,703.0	10,756.7	441.3	10,765.8	0.00	0.00	0.00	
TD at 22041.7										

Design Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- Shape										
LTP (ZHU 1932 WC #71 - plan hits target center - Point	0.00	0.00	11,703.0	10,706.7	441.4	385,075.92	692,983.96	32° 3' 25.769 N		103° 42' 37.485 W
FTP (ZHU 1932 WC #71 - plan misses target center by 329.2usft at 11550.0usft MD (11487.5 TVD, 331.2 N, 471.7 E) - Circle (radius 50.0)	0.00	0.00	11,703.0	82.3	472.6	374,451.56	693,015.16	32° 1' 40.628 N		103° 42' 37.834 W
PBHL (ZHU 1932 WC #71 - plan hits target center - Rectangle (sides W100.0 H10,675.0 D20.0)	0.00	179.83	11,703.0	10,756.7	441.2	385,125.92	692,983.78	32° 3' 26.264 N		103° 42' 37.483 W

ConocoPhillips
Planning Report

Database:	EDT 17 Central Planning Prod	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #711H
Company:	DELAWARE BASIN EAST	TVD Reference:	RKB=30ft @ 3196.7usft
Project:	LEA PROSPECT (NM-E)	MD Reference:	RKB=30ft @ 3196.7usft
Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #711H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

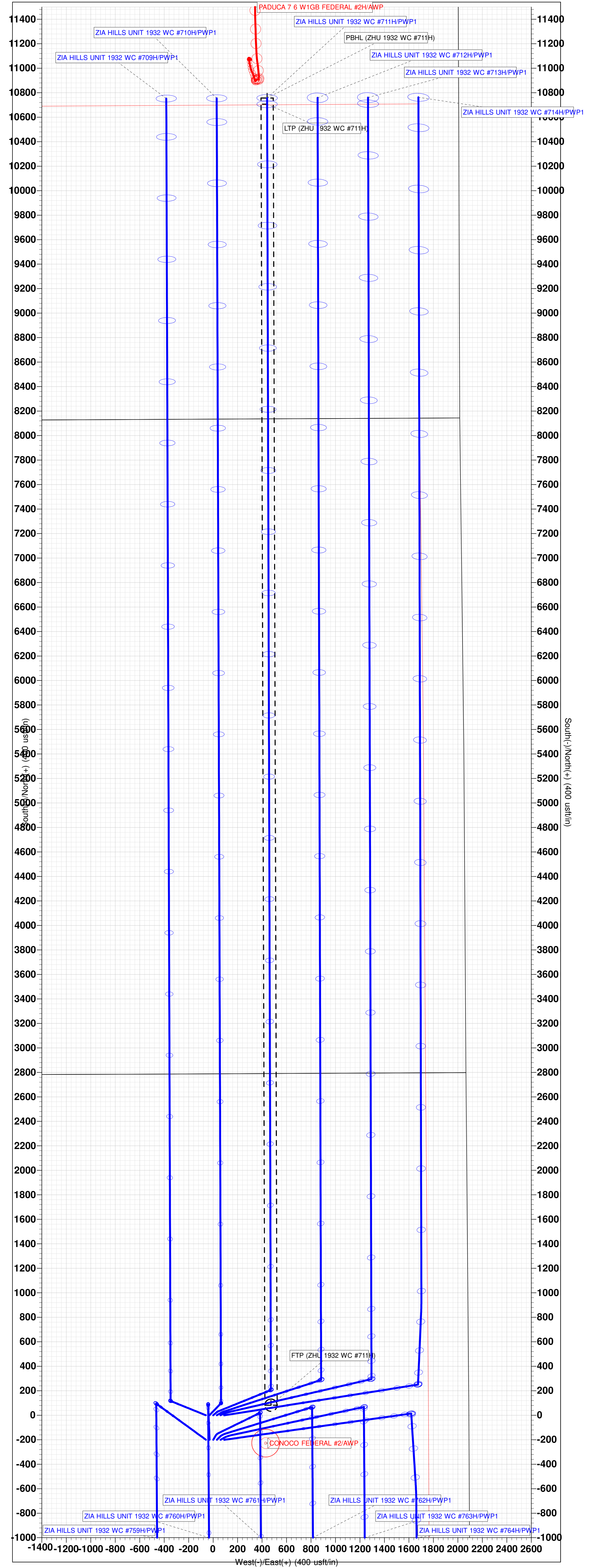
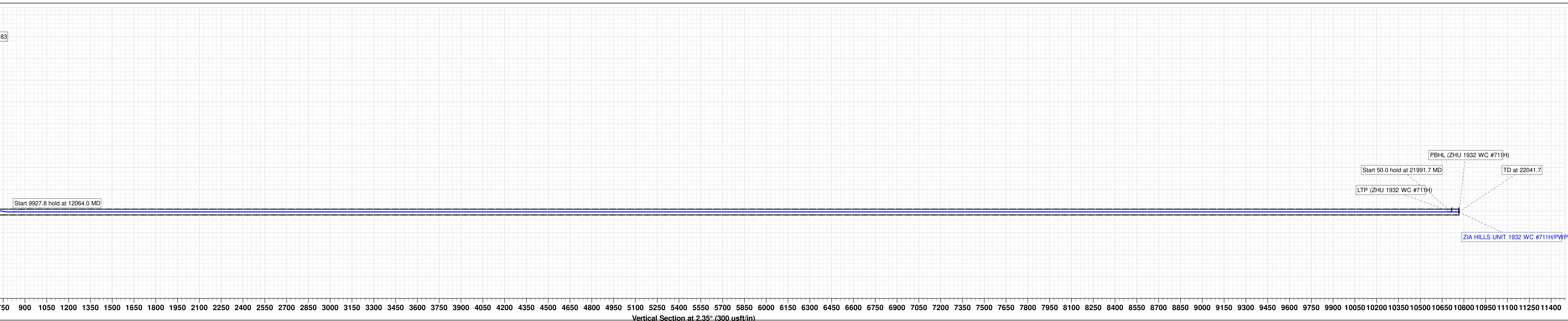
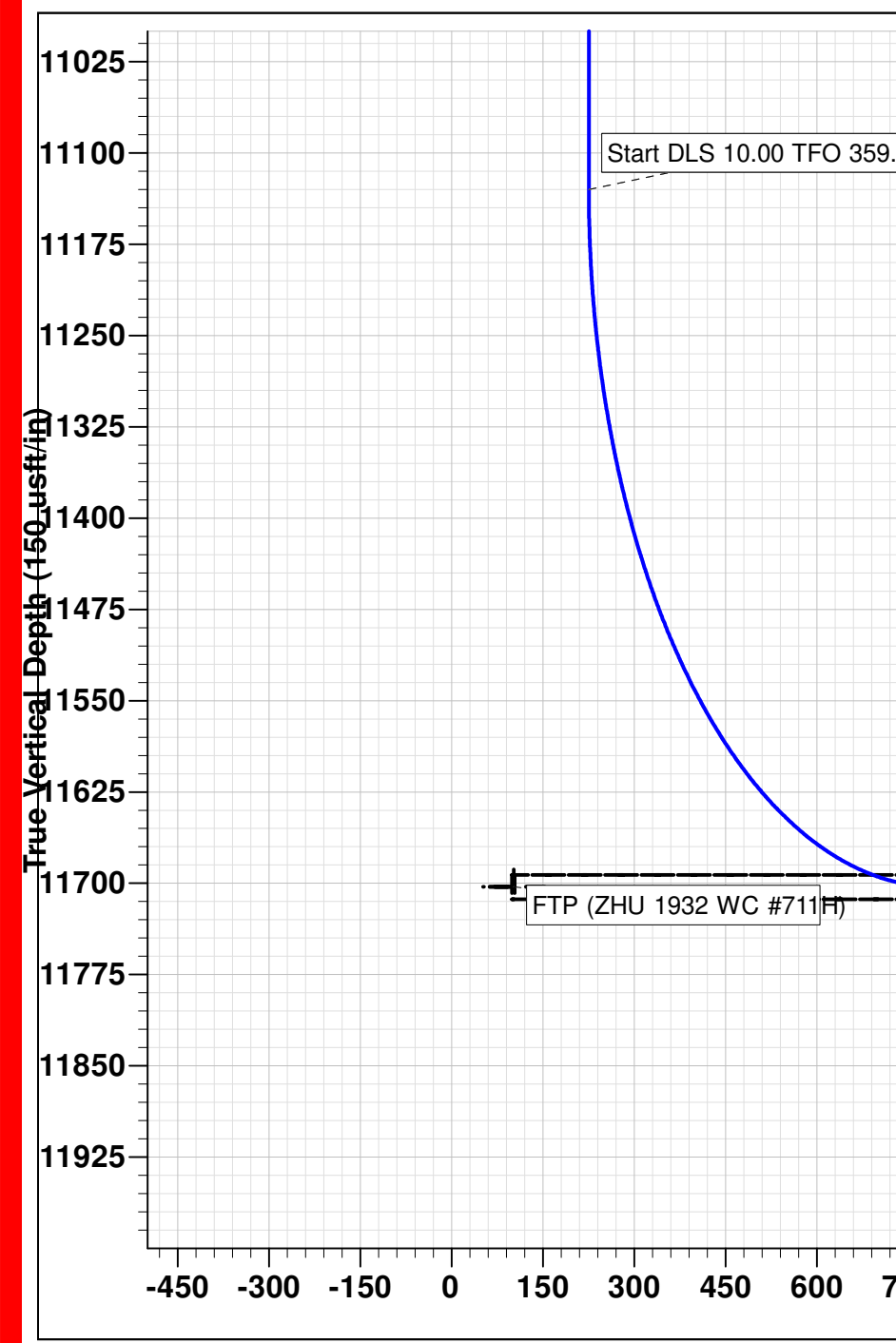
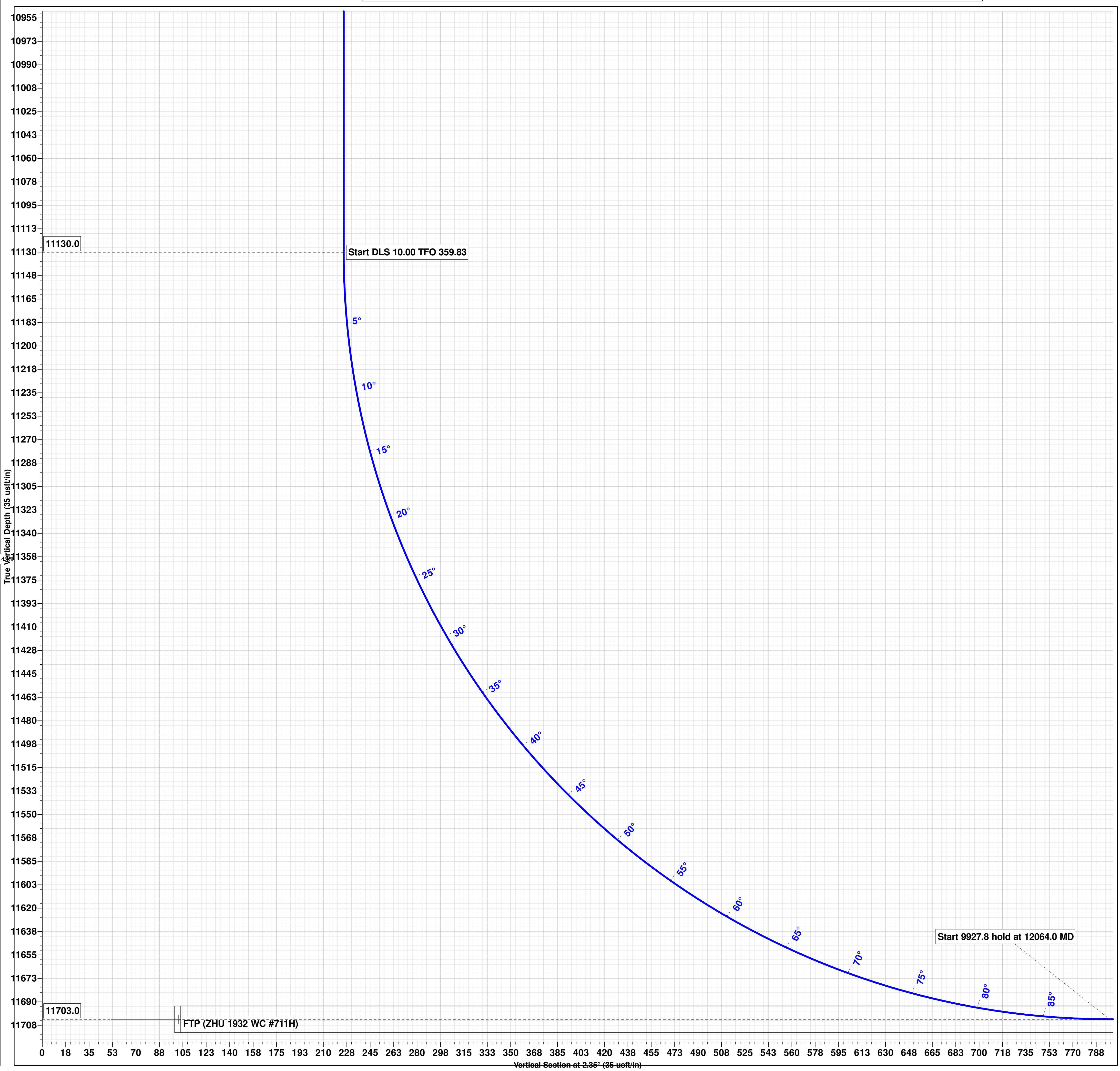
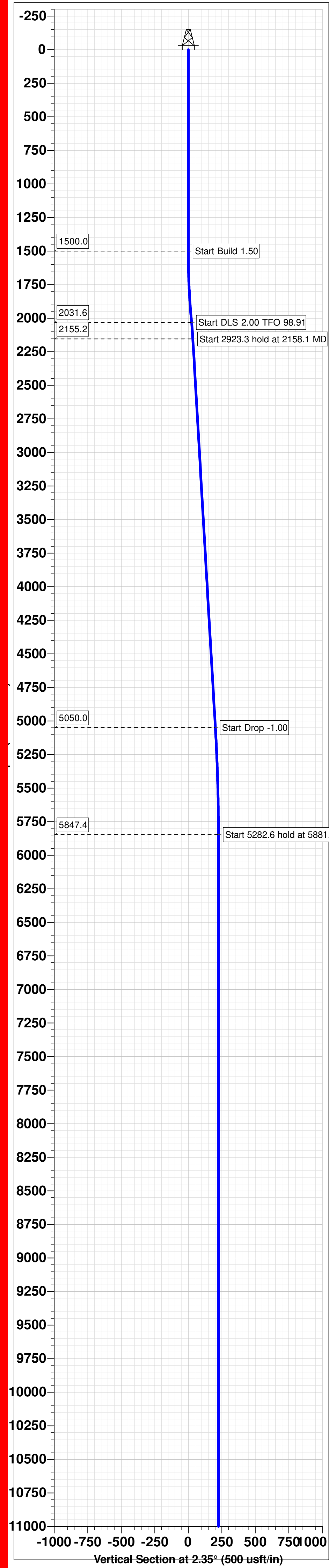
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 1.50
2,033.3	2,031.6	23.9	28.5	Start DLS 2.00 TFO 98.91
2,158.1	2,155.2	32.7	43.2	Start 2923.3 hold at 2158.1 MD
5,081.4	5,050.0	185.1	420.4	Start Drop -1.00
5,881.4	5,847.4	206.0	472.1	Start 5282.6 hold at 5881.4 MD
11,164.0	11,130.0	206.0	472.1	Start DLS 10.00 TFO 359.83
12,064.0	11,703.0	779.0	470.4	Start 9927.8 hold at 12064.0 MD
21,991.7	11,703.0	10,706.7	441.4	Start 50.0 hold at 21991.7 MD
22,041.7	11,703.0	10,756.7	441.3	TD at 22041.7

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 1932 PROJECT
Well: ZIA HILLS UNIT 1932 WC #711H
Wellbore: OWB
Design: PWP1
GL: 3166.7
RKB=30ft @ 3196.7usft

WELL DETAILS: ZIA HILLS UNIT 1932 WC #711H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374369.21	692542.53	32° 1' 39.840 N	103° 42' 43.330 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (ZHU 1932 WC #711H)	11703.0	82.3	472.6	374451.56	693015.16
LTP (ZHU 1932 WC #711H)	11703.0	10706.7	441.4	385075.92	692983.96
PBHL (ZHU 1932 WC #711H)	11703.0	10756.7	441.2	385125.92	692983.78

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	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
2033.3	8.00	50.00	2031.6	23.9	28.5	1.50	50.00	25.0	
2158.1	8.00	68.00	2155.2	32.7	43.2	2.00	98.91	34.5	
5061.4	8.00	68.00	5050.0	195.1	420.4	0.00	0.00	202.2	
5881.4	0.00	0.00	5847.4	206.0	472.1	1.00	180.00	225.2	
11164.0	0.00	0.00	11130.0	206.0	472.1	0.00	0.00	225.2	
12064.0	90.00	359.83	11703.0	779.0	470.4	10.00	359.83	797.6	
21991.7	90.00	359.83	11703.0	10706.7	441.4	0.00	0.00	10715.8	
22041.7	90.00	359.83	11703.0	10756.7	441.3	0.00	0.00	10765.8	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ConocoPhillips
LEASE NO.:	NMLC068281A
LOCATION:	Section 19, T.26 S, R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Zia Hills Unit 1932 WC 711H
SURFACE HOLE FOOTAGE:	2535'/S & 2090'/E
BOTTOM HOLE FOOTAGE:	2620/S & 1566'/E

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cherry Canyon and Brushy Canyon** formations. As a result, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **1350** feet (a minimum of **25 feet (Lea 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. 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.

 - ❖ 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.

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 surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) 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 43 CFR 3172 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)

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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - 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.

- BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 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-P 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 part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. 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.
 - a. 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).
 - b. 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.)
 - c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. 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.
 - e. The results of the test shall be reported to the appropriate BLM office.

- f. 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.
- g. 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.
- h. 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 part 3170 Subpart 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

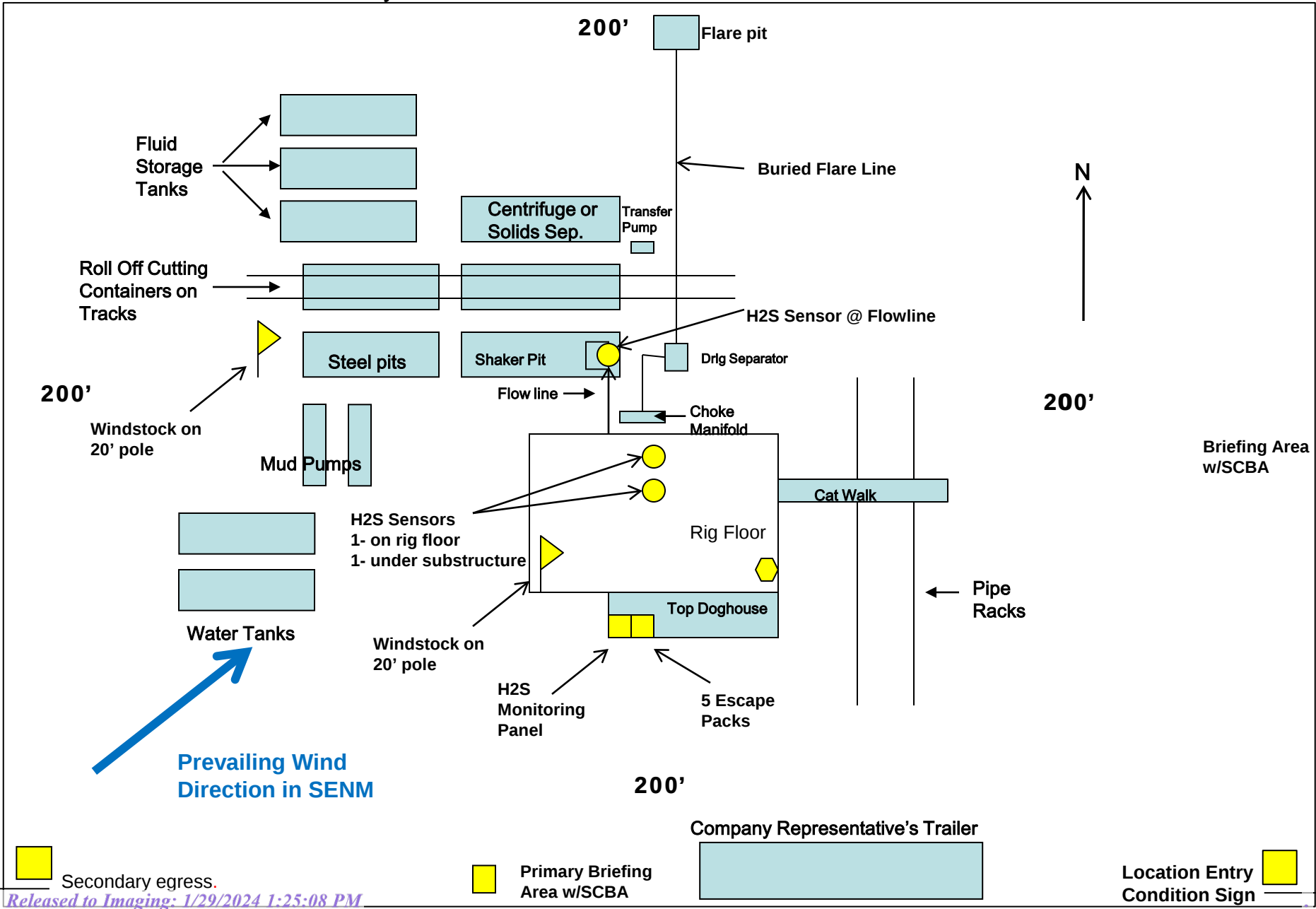
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

ZS 10/30/2023

COG Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 306325

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 306325
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/29/2024
pkautz	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	1/29/2024
pkautz	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	1/29/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/29/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	1/29/2024