

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

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

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/12/2024

Additional Operator Remarks

Location of Well

0. SHL: NWSE / 2535 FSL / 2120 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0278599 / LONG: -103.712604 (TVD: 0 feet, MD: 0 feet)
PPP: SWNE / 2650 FSL / 2027 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0355222 / LONG: -103.7121713 (TVD: 11702 feet, MD: 11781 feet)
PPP: NWSE / 2620 FSL / 2027 FEL / TWSP: 26S / RANGE: 32E / SECTION: 19 / LAT: 32.0281715 / LONG: -103.7123038 (TVD: 11702 feet, MD: 11750 feet)
PPP: SWSE / 1 FSL / 1978 FEL / TWSP: 26S / RANGE: 32E / SECTION: 18 / LAT: 32.0281715 / LONG: -103.7123023 (TVD: 11878 feet, MD: 14421 feet)
BHL: NWSE / 2620 FSL / 1978 FEL / TWSP: 26S / RANGE: 32E / SECTION: 7 / LAT: 32.0574216 / LONG: -103.7122146 (TVD: 11878 feet, MD: 22294 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-	² Pool Code 98081	³ Pool Name Zia Hills; Wolfcamp
⁴ Property Code	⁵ Property Name ZIA HILLS UNIT 1932 WC	⁶ Well Number 710H
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	2,120'	EAST	LEA

¹¹ 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	1,978'	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.

¹⁶ 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 & 2,120' FEL NEW MEXICO EAST-NAD 83 NORTH:374,426.74' EAST:733,699.61' LAT:32.02785996 LONG:-103.71260409 FIRST TAKE POINT / PENETRATION POINT 1 2,620' FSL & 2,027' FEL NEW MEXICO EAST-NAD 83 NORTH:374,511.09' EAST:733,792.19' LAT:32.02809036 LONG:-103.71230380 PENETRATION POINT 2 2,650' FSL & 2,027' FEL NEW MEXICO EAST-NAD 83 NORTH:374,540.63' EAST:733,792.47' LAT:32.02817157 LONG:-103.71230235 PENETRATION POINT 3 1' FSL & 1,978' FEL NEW MEXICO EAST-NAD 83 NORTH:377,214.89' EAST:733,817.69' LAT:32.03552225 LONG:-103.71217136 LAST TAKE POINT 2,570' FSL & 1,978' FEL NEW MEXICO EAST-NAD 83 NORTH:385,131.37' EAST:733,758.57' LAT:32.05728417 LONG:-103.71221517 BOTTOM HOLE LOCATION 2,620' FSL & 1,978' FEL NEW MEXICO EAST-NAD 83 NORTH:385,181.37' EAST:733,758.46' LAT:32.05742161 LONG:-103.71221462	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. <i>Stan Wagner</i> 6/19/23 Signature Date Stan Wagner Printed Name Date Email Address Date 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
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State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: ConocoPhillips Company

OGRID: 217817

Date: 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

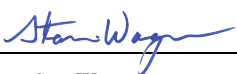
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 710H

1. Geologic Formations

TVD of target	11,878' EOL	Pilot hole depth	NA
MD at TD:	22,294'	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	4310	Salt Water	
Cherry Canyon	5201	Oil/Gas	
Brushy Canyon	6625	Oil/Gas	
Bone Spring Lime	8270	Oil/Gas	
1st Bone Spring Sand	9283	Oil/Gas	
2nd Bone Spring Sand	9967	Oil/Gas	
3rd Bone Spring Sand	11144	Oil/Gas	
Wolfcamp	11509	Oil/Gas	
Wolfcamp A	11723	Target	
Wolfcamp B	12011	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	1.02	2.88	2.90
8.750"	8500	11211	7.625"	29.7	P110-ICY	W513	1.28	1.55	3.21	1.93
6.75"	0	11011	5.5"	23	P110-CY	BTC	1.88	2.19	2.88	2.88
6.75"	11011	22,294	5.5"	23	P110-CY	W441	1.74	2.03	2.67	2.42
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 710H

	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 710H**3. Cementing Program**

Casing	# Sk	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	691	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	949	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	10,711'	35% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Zia Hills Unit 1932 WC 710H

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 710H

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
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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 710H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	8340 psi at 11878’ 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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

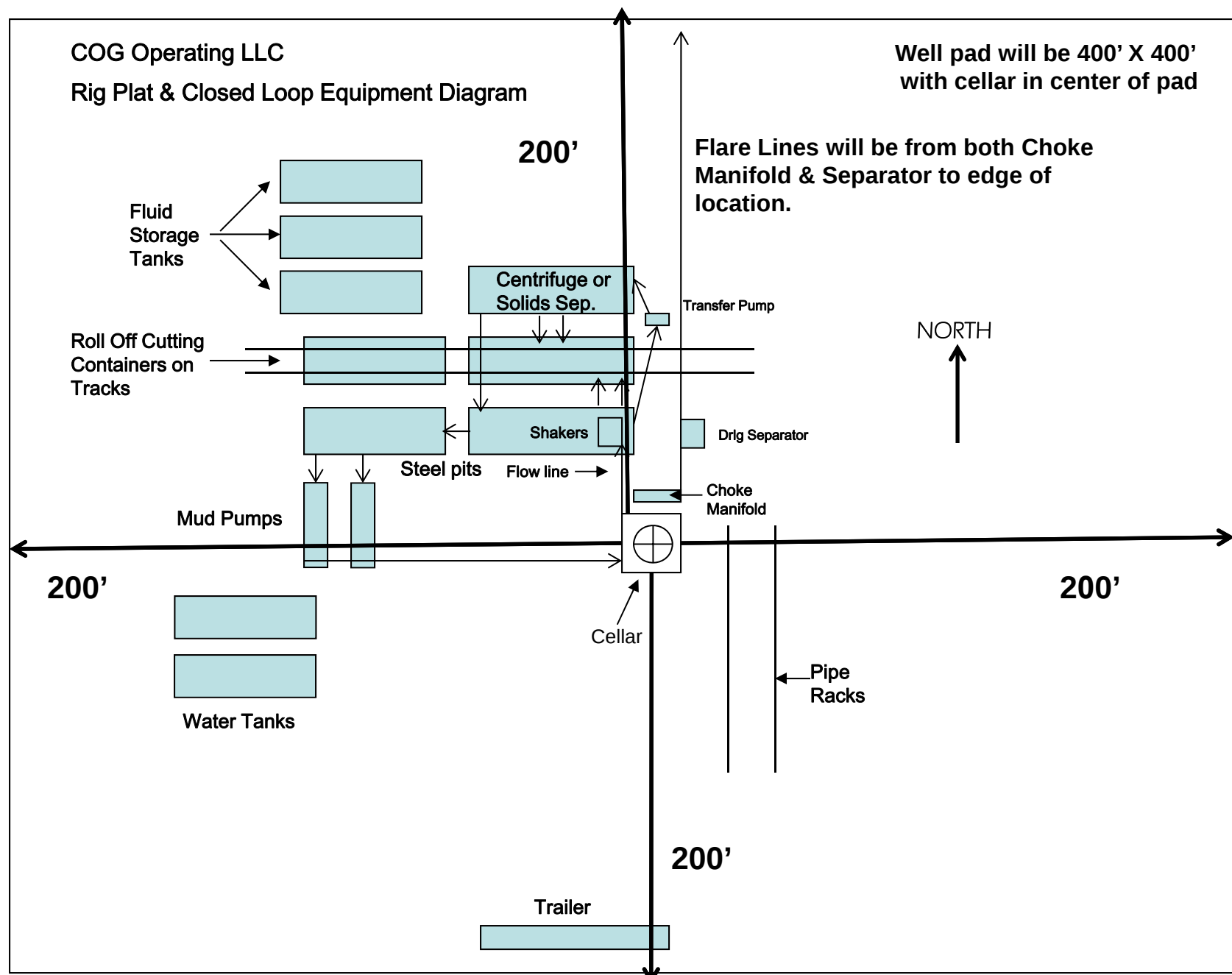


Exhibit 1

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

DELAWARE BASIN EAST

LEA PROSPECT (NM-E)

ZIA HILLS UNIT 1932 PROJECT

ZIA HILLS UNIT 1932 WC #710H

OWB

PWP1

Anticollision Report

09 May, 2023

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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-Initialzd Cont. rev.5	
1,500.0	11,310.5	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
11,310.5	22,294.0	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

Summary						
Site Name Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
ZIA HILLS UNIT 1932 PROJECT						
CONOCO A FEDERAL #1 (P&A) - OWB - AWP	6,900.0	6,881.8	475.7	287.2	2.523	CC, ES, SF
CONOCO FEDERAL #2 - OWB - AWP	4,043.2	4,024.6	486.4	343.6	3.406	CC
CONOCO FEDERAL #2 - OWB - AWP	4,400.0	4,368.0	489.1	328.3	3.043	ES, SF
PADUCA 7 6 W1GB FEDERAL #1H - OWB - AWP	22,294.0	11,786.6	489.2	374.5	4.266	CC, ES, SF
PADUCA 7 6 W1GB FEDERAL #2H - OWB - AWP	22,294.0	11,836.0	447.2	333.3	3.928	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,466.6	1,466.8	30.0	20.7	3.241	CC
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	1,500.0	1,500.0	30.0	20.7	3.221	ES
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	22,294.0	22,113.0	447.7	281.3	2.690	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,795.1	1,793.5	28.6	18.4	2.811	CC
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	1,800.0	1,798.3	28.6	18.4	2.807	ES
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,294.0	22,041.0	447.7	280.5	2.679	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	1,761.3	1,757.7	59.5	49.4	5.886	CC, ES
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,294.0	22,191.2	824.6	657.9	4.944	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,765.7	1,760.5	89.5	79.4	8.838	CC, ES
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	1,900.0	1,891.4	91.7	81.2	8.722	SF
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,000.0	1,000.0	120.0	111.6	14.249	CC, ES
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	1,100.0	1,096.0	121.7	113.0	13.966	SF
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	1,504.4	1,507.5	202.1	192.2	20.437	CC, ES
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	11,151.8	11,178.5	529.3	493.0	14.587	SF
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	11,310.5	11,325.1	105.8	75.1	3.447	CC, ES, SF
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	2,211.8	2,224.7	189.5	177.1	15.349	CC, ES
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	11,110.0	11,136.0	328.8	295.7	9.940	SF
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	2,119.5	2,130.7	208.0	196.4	17.903	CC, ES
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	2,300.0	2,302.0	212.1	200.0	17.472	SF
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,500.0	1,503.5	220.4	210.6	22.508	CC
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	1,504.4	1,508.0	220.4	210.6	22.482	ES
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	2,200.0	2,200.0	236.3	224.7	20.368	SF
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,465.7	1,468.4	234.5	224.9	24.279	CC
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,500.0	1,502.6	234.5	224.8	24.092	ES
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	1,750.0	1,744.6	241.6	231.2	23.296	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 #710H
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 #710H	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 A FEDERAL #1 (P&A) - OWB - AWP	22,294.0	6,903.0				Out of Range @TD
CONOCO FEDERAL #2 - OWB - AWP	22,294.0	4,368.0				Out of Range @TD
PADUCA 7 6 W1GB FEDERAL #1H - OWB - AWP	22,294.0	11,786.6	489.2	374.5	4.266	CC, ES, SF
PADUCA 7 6 W1GB FEDERAL #2H - OWB - AWP	22,294.0	11,836.0	447.2	333.3	3.928	CC, ES, SF
ZIA HILLS UNIT 1932 WC #709H - OWB - PWP1	22,294.0	22,113.0	447.7	281.3	2.690	SF
ZIA HILLS UNIT 1932 WC #711H - OWB - PWP1	22,294.0	22,041.0	447.7	280.5	2.679	SF
ZIA HILLS UNIT 1932 WC #712H - OWB - PWP1	22,294.0	22,191.2	824.6	657.9	4.944	SF
ZIA HILLS UNIT 1932 WC #713H - OWB - PWP1	22,294.0	22,069.6				Out of Range @TD
ZIA HILLS UNIT 1932 WC #714H - OWB - PWP1	22,294.0	22,344.6				Out of Range @TD
ZIA HILLS UNIT 1932 WC #759H - OWB - PWP1	22,294.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #760H - OWB - PWP1	22,294.0	11,350.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #761H - OWB - PWP1	22,294.0	11,200.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #762H - OWB - PWP1	22,294.0	11,400.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #763H - OWB - PWP1	22,294.0	11,300.0				Out of Range @TD
ZIA HILLS UNIT 1932 WC #764H - OWB - PWP1	22,294.0	11,550.0				Out of Range @TD

Offset Design: ZIA HILLS UNIT 1932 PROJECT - CONOCO A FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 362-INC-ONLY				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error: 10.0 usft	
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside					Between	Between	Minimum	Separation	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor			
0.0	0.0	0.0	0.0	3.0	10.0	-22.14	476.3	-193.8	514.4						
100.0	100.0	86.3	86.3	3.0	10.0	-22.14	476.3	-193.8	514.2	499.1	15.13	33.986			
200.0	200.0	186.3	186.3	3.2	10.1	-22.14	476.3	-193.8	514.2	498.9	15.32	33.576			
300.0	300.0	286.3	286.3	3.3	10.3	-22.14	476.3	-193.8	514.2	498.6	15.59	32.975			
400.0	400.0	386.3	386.3	3.4	10.6	-22.14	476.3	-193.8	514.2	498.2	16.06	32.014			
500.0	500.0	486.3	486.3	3.5	11.3	-22.14	476.3	-193.8	514.2	497.1	17.09	30.098			
600.0	600.0	586.3	586.3	3.7	12.3	-22.14	476.3	-193.8	514.2	495.8	18.41	27.937			
700.0	700.0	686.6	686.6	3.8	13.4	-22.13	476.6	-193.8	514.5	494.5	19.97	25.763			
800.0	800.0	787.0	787.0	3.9	14.7	-22.13	476.5	-193.8	514.4	492.7	21.72	23.682			
900.0	900.0	887.4	887.3	4.0	16.1	-22.14	476.3	-193.8	514.2	490.6	23.62	21.774			
940.9	940.9	927.3	927.3	4.1	16.7	-22.14	476.3	-193.8	514.2	489.8	24.46	21.019			
1,000.0	1,000.0	986.4	986.3	4.2	17.6	-22.14	476.3	-193.8	514.2	488.5	25.78	19.950			
1,100.0	1,100.0	1,086.8	1,086.8	4.3	19.3	-22.13	476.6	-193.8	514.5	486.4	28.08	18.322			
1,200.0	1,200.0	1,188.1	1,188.1	4.4	21.0	-22.14	476.4	-193.8	514.3	483.8	30.49	16.867			
1,268.3	1,268.3	1,254.7	1,254.6	4.5	22.3	-22.14	476.3	-193.8	514.2	482.0	32.27	15.934			
1,300.0	1,300.0	1,286.4	1,286.3	4.5	23.0	-22.14	476.3	-193.8	514.2	481.1	33.17	15.502			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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 A FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 362-INC-ONLY													Offset Well Error: 10.0 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)			
1,400.0	1,400.0	1,386.4	1,386.3	4.6	25.1	-22.14	476.3	-193.8	514.2	478.2	36.05	14.265	
1,500.0	1,500.0	1,487.1	1,487.1	4.8	27.2	-22.09	477.6	-193.8	515.4	476.4	39.00	13.217	
1,600.0	1,600.0	1,589.3	1,589.3	4.9	29.4	-66.31	477.2	-193.8	514.4	472.3	42.02	12.239	
1,700.0	1,699.8	1,691.4	1,691.3	5.1	31.6	-66.94	476.3	-193.8	511.5	466.4	45.09	11.343	
1,750.0	1,749.7	1,736.2	1,736.0	5.2	32.6	-67.34	476.3	-193.8	509.9	463.3	46.57	10.949	
1,800.0	1,799.5	1,786.0	1,785.8	5.3	33.8	-67.79	476.3	-193.8	508.2	460.0	48.23	10.537	
1,900.0	1,899.1	1,885.6	1,885.5	5.5	36.2	-68.70	476.3	-193.8	505.0	453.4	51.59	9.789	
2,000.0	1,998.7	1,987.4	1,987.1	5.7	38.7	-69.59	477.6	-193.8	503.0	448.0	55.04	9.140	
2,100.0	2,098.4	2,089.8	2,089.5	5.9	41.2	-70.59	476.8	-193.8	499.4	440.8	58.52	8.533	
2,200.0	2,198.0	2,184.7	2,184.3	6.2	43.6	-71.51	476.3	-193.8	496.1	434.2	61.87	8.018	
2,300.0	2,297.6	2,285.5	2,285.1	6.5	46.2	-72.42	477.3	-193.8	494.2	428.7	65.51	7.544	
2,400.0	2,397.2	2,390.3	2,389.9	6.7	49.0	-73.49	476.4	-193.8	490.9	421.6	69.31	7.083	
2,500.0	2,496.8	2,483.7	2,483.2	7.0	51.5	-74.41	476.3	-193.8	488.4	415.5	72.84	6.705	
2,600.0	2,596.4	2,589.5	2,588.9	7.3	54.4	-75.45	476.4	-193.8	486.2	409.3	76.85	6.326	
2,700.0	2,696.1	2,686.6	2,686.0	7.6	57.0	-76.40	476.7	-193.8	484.3	403.8	80.57	6.011	
2,800.0	2,795.7	2,785.6	2,784.9	8.0	59.6	-77.41	476.6	-193.8	482.2	398.0	84.20	5.727	
2,900.0	2,895.3	2,883.2	2,882.5	8.3	62.0	-78.39	476.7	-193.8	480.5	393.0	87.50	5.491	
2,937.8	2,933.0	2,924.3	2,923.6	8.4	63.0	-78.82	476.4	-193.8	479.6	390.8	88.86	5.398	
3,000.0	2,995.0	2,982.0	2,981.3	8.6	64.2	-79.38	476.3	-193.8	478.5	388.0	90.54	5.286	
3,100.0	3,094.7	3,081.8	3,081.1	8.9	66.2	-80.16	476.3	-193.8	477.3	384.0	93.33	5.115	
3,200.0	3,194.6	3,181.7	3,180.9	9.2	68.2	-80.75	476.3	-193.8	476.5	380.4	96.12	4.957	
3,211.7	3,206.3	3,193.5	3,192.8	9.2	68.4	-80.70	477.7	-193.8	477.5	381.1	96.45	4.951	
3,300.0	3,294.5	3,283.3	3,282.5	9.5	70.2	-81.05	477.4	-193.8	476.9	377.9	98.96	4.819	
3,400.0	3,394.5	3,385.0	3,384.3	9.7	72.3	-81.28	476.8	-193.8	476.1	374.3	101.81	4.677	
3,437.8	3,432.4	3,423.5	3,422.7	9.8	73.0	-37.32	476.4	-193.8	475.8	372.9	102.89	4.625	
3,469.1	3,463.7	3,450.8	3,450.0	9.8	73.5	-37.32	476.3	-193.8	475.7	372.2	103.56	4.594	
3,500.0	3,494.5	3,481.7	3,480.9	9.8	74.0	-37.32	476.3	-193.8	475.7	371.5	104.27	4.563	
3,600.0	3,594.5	3,581.7	3,580.9	9.9	75.7	-37.32	476.3	-193.8	475.7	369.2	106.57	4.464	
3,700.0	3,694.5	3,681.7	3,680.9	10.0	77.3	-37.28	476.8	-193.8	476.2	367.3	108.88	4.373	
3,800.0	3,794.5	3,782.4	3,781.6	10.0	79.0	-37.29	476.8	-193.8	476.1	364.9	111.20	4.281	
3,900.0	3,894.5	3,883.0	3,882.2	10.1	80.7	-37.31	476.5	-193.8	475.9	362.3	113.53	4.192	
4,000.0	3,994.5	3,981.7	3,980.9	10.2	82.3	-37.32	476.3	-193.8	475.7	360.0	115.76	4.109	
4,100.0	4,094.5	4,081.7	4,080.9	10.3	83.8	-37.32	476.3	-193.8	475.7	357.7	117.99	4.032	
4,200.0	4,194.5	4,181.7	4,180.9	10.4	85.4	-37.30	476.6	-193.8	475.9	355.7	120.23	3.959	
4,300.0	4,294.5	4,282.0	4,281.2	10.5	87.0	-37.31	476.5	-193.8	475.9	353.4	122.46	3.886	
4,400.0	4,394.5	4,382.4	4,381.6	10.6	88.6	-37.32	476.4	-193.8	475.8	351.1	124.70	3.815	
4,500.0	4,494.5	4,481.7	4,480.9	10.6	90.3	-37.32	476.3	-193.8	475.7	348.7	127.00	3.746	
4,600.0	4,594.5	4,581.7	4,580.9	10.7	92.0	-37.32	476.3	-193.8	475.7	346.3	129.39	3.677	
4,700.0	4,694.5	4,681.7	4,680.9	10.8	93.7	-37.30	476.6	-193.8	475.9	344.2	131.77	3.612	
4,800.0	4,794.5	4,782.0	4,781.2	10.9	95.4	-37.31	476.5	-193.8	475.9	341.7	134.16	3.547	
4,900.0	4,894.5	4,882.4	4,881.6	11.0	97.1	-37.32	476.4	-193.8	475.8	339.2	136.55	3.484	
5,000.0	4,994.5	4,981.7	4,980.9	11.1	98.9	-37.32	476.3	-193.8	475.7	336.7	139.00	3.423	
5,100.0	5,094.5	5,081.7	5,080.9	11.1	100.7	-37.32	476.3	-193.8	475.7	334.2	141.51	3.362	
5,200.0	5,194.5	5,181.8	5,180.9	11.2	102.5	-37.28	476.8	-193.8	476.2	332.1	144.02	3.306	
5,300.0	5,294.5	5,282.4	5,281.6	11.3	104.3	-37.29	476.7	-193.8	476.1	329.5	146.55	3.248	
5,400.0	5,394.5	5,383.1	5,382.3	11.4	106.1	-37.31	476.5	-193.8	475.8	326.8	149.08	3.192	
5,500.0	5,494.5	5,481.7	5,480.9	11.5	107.9	-37.32	476.3	-193.8	475.7	324.2	151.57	3.139	
5,600.0	5,594.5	5,581.7	5,580.9	11.6	109.7	-37.32	476.3	-193.8	475.7	321.6	154.09	3.087	
5,700.0	5,694.5	5,681.9	5,681.0	11.6	111.5	-37.29	476.8	-193.8	476.1	319.5	156.62	3.040	
5,800.0	5,794.5	5,782.6	5,781.7	11.7	113.3	-37.30	476.7	-193.8	476.0	316.9	159.16	2.991	
5,900.0	5,894.5	5,883.3	5,882.4	11.8	115.1	-37.32	476.4	-193.8	475.8	314.1	161.70	2.942	
5,950.4	5,945.0	5,932.2	5,931.3	11.8	116.0	-37.32	476.3	-193.8	475.7	312.8	162.97	2.919	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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 A FEDERAL #1 (P&A) - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 362-INC-ONLY													Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	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)			Warning	
6,000.0	5,994.5	5,981.7	5,980.9	11.9	117.0	-37.32	476.3	-193.8	475.7	311.5	164.28	2.896		
6,100.0	6,094.5	6,081.7	6,080.9	12.0	118.9	-37.32	476.3	-193.8	475.7	308.8	166.91	2.850		
6,200.0	6,194.5	6,182.0	6,181.2	12.1	120.8	-37.29	476.8	-193.8	476.1	306.6	169.55	2.808		
6,300.0	6,294.5	6,282.7	6,281.9	12.1	122.7	-37.30	476.6	-193.8	476.0	303.8	172.21	2.764		
6,400.0	6,394.5	6,381.8	6,380.9	12.2	124.5	-37.32	476.3	-193.8	475.7	300.9	174.82	2.721		
6,500.0	6,494.5	6,481.8	6,480.9	12.3	126.5	-37.32	476.3	-193.8	475.7	298.2	177.56	2.679		
6,600.0	6,594.5	6,581.8	6,580.9	12.4	128.5	-37.32	476.3	-193.8	475.7	295.4	180.30	2.639		
6,700.0	6,694.5	6,681.8	6,680.9	12.5	130.4	-37.32	476.3	-193.8	475.7	292.7	183.04	2.599		
6,800.0	6,794.5	6,781.8	6,780.9	12.6	132.4	-37.32	476.3	-193.8	475.7	289.9	185.78	2.561		
6,900.0	6,894.5	6,881.8	6,880.9	12.6	134.3	-37.32	476.3	-193.8	475.7	287.2	188.52	2.523 CC, ES, SF		
7,000.0	6,994.5	6,903.0	6,902.1	12.7	134.8	-37.32	476.3	-193.8	482.2	295.6	186.66	2.583		
7,100.0	7,094.5	6,903.0	6,902.1	12.8	134.8	-37.32	476.3	-193.8	508.2	330.8	177.47	2.864		
7,200.0	7,194.5	6,903.0	6,902.1	12.9	134.8	-37.32	476.3	-193.8	551.4	387.2	164.17	3.359		
7,300.0	7,294.5	6,903.0	6,902.1	13.0	134.8	-37.32	476.3	-193.8	608.1	458.5	149.64	4.064		
7,400.0	7,394.5	6,903.0	6,902.1	13.1	134.8	-37.32	476.3	-193.8	675.0	539.2	135.74	4.972		
7,500.0	7,494.5	6,903.0	6,902.1	13.1	134.8	-37.32	476.3	-193.8	749.2	625.9	123.31	6.076		
7,600.0	7,594.5	6,903.0	6,902.1	13.2	134.8	-37.32	476.3	-193.8	828.9	716.4	112.56	7.364		
7,700.0	7,694.5	6,903.0	6,902.1	13.3	134.8	-37.32	476.3	-193.8	912.6	809.2	103.39	8.827		
7,800.0	7,794.5	6,903.0	6,902.1	13.4	134.8	-37.32	476.3	-193.8	999.3	903.7	95.63	10.450		

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 #710H
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 #710H	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	10.0	116.38	-227.7	459.2	512.7				
100.0	100.0	85.3	85.3	3.0	10.0	116.38	-227.7	459.2	512.5	497.4	15.14	33.856	
200.0	200.0	185.3	185.3	3.2	10.2	116.38	-227.7	459.2	512.5	497.2	15.35	33.380	
300.0	300.0	285.3	285.3	3.3	10.4	116.38	-227.7	459.2	512.5	496.8	15.69	32.672	
400.0	400.0	385.3	385.3	3.4	10.7	116.38	-227.7	459.2	512.5	496.4	16.13	31.778	
500.0	500.0	485.3	485.3	3.5	11.0	116.38	-227.7	459.2	512.5	495.9	16.67	30.745	
600.0	600.0	585.4	585.3	3.7	12.0	116.38	-227.7	459.2	512.5	494.5	18.02	28.439	
700.0	700.0	685.4	685.3	3.8	13.3	116.38	-227.7	459.2	512.5	492.8	19.73	25.979	
751.9	751.9	737.2	737.2	3.9	14.0	116.30	-226.9	459.2	512.2	491.5	20.72	24.724	
800.0	800.0	785.1	785.0	3.9	14.7	116.30	-227.0	459.2	512.2	490.5	21.68	23.628	
900.0	900.0	884.5	884.5	4.0	16.2	116.33	-227.2	459.2	512.3	488.5	23.80	21.521	
1,000.0	1,000.0	985.4	985.3	4.2	17.9	116.38	-227.7	459.2	512.5	486.4	26.11	19.632	
1,100.0	1,100.0	1,085.4	1,085.3	4.3	19.7	116.38	-227.7	459.2	512.5	483.9	28.58	17.930	
1,124.8	1,124.8	1,110.0	1,109.9	4.3	20.1	116.33	-227.2	459.2	512.3	483.1	29.21	17.540	
1,200.0	1,200.0	1,184.0	1,183.9	4.4	21.5	116.36	-227.5	459.2	512.4	481.3	31.11	16.471	
1,300.0	1,300.0	1,285.4	1,285.3	4.5	23.6	116.38	-227.7	459.2	512.5	478.6	33.93	15.105	
1,400.0	1,400.0	1,385.4	1,385.3	4.6	25.7	116.38	-227.7	459.2	512.5	475.7	36.83	13.915	
1,456.8	1,456.8	1,442.2	1,442.1	4.7	26.9	116.28	-226.7	459.2	512.1	473.6	38.50	13.300	
1,500.0	1,500.0	1,485.1	1,485.0	4.8	27.8	116.28	-226.8	459.2	512.1	472.3	39.77	12.877	
1,600.0	1,600.0	1,584.2	1,584.1	4.9	29.9	72.51	-227.1	459.2	511.7	469.0	42.73	11.976	
1,700.0	1,699.8	1,685.4	1,685.2	5.1	32.2	73.17	-227.7	459.2	510.5	464.6	45.87	11.127	
1,750.0	1,749.7	1,735.2	1,735.0	5.2	33.4	73.61	-227.7	459.2	509.3	461.7	47.64	10.692	
1,800.0	1,799.5	1,785.0	1,784.8	5.3	34.7	74.08	-227.7	459.2	508.1	458.7	49.41	10.284	
1,900.0	1,899.1	1,884.7	1,884.5	5.5	37.3	75.02	-227.7	459.2	505.8	452.8	52.99	9.546	
2,000.0	1,998.7	1,983.4	1,983.2	5.7	39.8	75.82	-226.2	459.2	502.9	446.3	56.55	8.892	
2,100.0	2,098.4	2,081.7	2,081.5	5.9	42.4	76.83	-226.8	459.2	501.1	441.0	60.12	8.335	
2,200.0	2,198.0	2,183.8	2,183.3	6.2	45.1	77.91	-227.7	459.2	499.7	435.8	63.84	7.827	
2,300.0	2,297.6	2,283.4	2,282.9	6.5	47.7	78.89	-227.7	459.2	497.9	430.4	67.53	7.373	
2,400.0	2,397.2	2,383.0	2,382.5	6.7	50.4	79.87	-227.7	459.2	496.3	425.1	71.22	6.968	
2,500.0	2,496.8	2,481.2	2,480.7	7.0	53.0	80.66	-225.8	459.2	493.7	418.8	74.87	6.594	
2,600.0	2,596.4	2,578.9	2,578.4	7.3	55.6	81.72	-226.6	459.2	492.9	414.4	78.51	6.278	
2,700.0	2,696.1	2,682.1	2,681.4	7.6	58.3	82.86	-227.7	459.2	492.3	410.0	82.36	5.978	
2,800.0	2,795.7	2,781.7	2,781.0	8.0	61.0	83.86	-227.7	459.2	491.3	405.2	86.10	5.706	
2,900.0	2,895.3	2,881.3	2,880.6	8.3	63.7	84.87	-227.7	459.2	490.5	400.6	89.85	5.459	
2,937.8	2,933.0	2,919.0	2,918.3	8.4	64.7	85.10	-226.0	459.2	489.1	397.8	91.26	5.359	
3,000.0	2,995.0	2,980.0	2,979.3	8.6	66.4	85.69	-226.1	459.2	488.7	395.2	93.56	5.224	
3,069.5	3,064.3	3,048.3	3,047.6	8.8	68.2	86.27	-226.4	459.2	488.6	392.5	96.13	5.083	
3,100.0	3,094.7	3,078.3	3,077.6	8.9	69.0	86.51	-226.6	459.2	488.6	391.4	97.26	5.024	
3,200.0	3,194.6	3,176.6	3,175.9	9.2	71.7	87.18	-227.7	459.2	489.0	388.1	100.97	4.844	
3,300.0	3,294.5	3,280.8	3,279.9	9.5	75.2	87.59	-227.7	459.2	488.9	383.1	105.80	4.621	
3,400.0	3,394.5	3,380.8	3,379.9	9.7	78.5	87.77	-227.7	459.2	488.9	378.4	110.50	4.424	
3,437.8	3,432.4	3,418.6	3,417.7	9.8	79.8	131.78	-227.7	459.2	488.9	376.6	112.27	4.354	
3,464.4	3,458.9	3,444.8	3,443.8	9.8	80.7	131.60	-225.6	459.2	487.4	373.9	113.50	4.295	
3,500.0	3,494.5	3,479.6	3,478.6	9.8	81.9	131.60	-225.7	459.2	487.5	372.4	115.13	4.234	
3,600.0	3,594.5	3,577.4	3,576.5	9.9	85.2	131.67	-226.4	459.2	488.0	368.2	119.73	4.076	
3,700.0	3,694.5	3,681.3	3,679.9	10.0	88.7	131.78	-227.7	459.2	488.9	364.2	124.67	3.921	
3,800.0	3,794.5	3,781.4	3,779.9	10.0	92.5	131.78	-227.7	459.2	488.9	358.9	129.99	3.761	
3,900.0	3,894.5	3,881.4	3,879.9	10.1	96.3	131.78	-227.7	459.2	488.9	353.6	135.24	3.615	
4,000.0	3,994.5	3,981.4	3,979.9	10.2	100.1	131.78	-227.7	459.2	488.9	348.4	140.50	3.479	
4,043.2	4,037.8	4,024.6	4,023.0	10.3	101.7	131.45	-224.0	459.2	486.4	343.6	142.77	3.406 CC	
4,100.0	4,094.5	4,079.8	4,078.2	10.3	103.8	131.46	-224.1	459.2	486.4	340.8	145.68	3.339	
4,200.0	4,194.5	4,177.1	4,175.5	10.4	107.4	131.55	-225.0	459.2	487.1	336.3	150.79	3.230	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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		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	
4,300.0	4,294.5	4,274.5	4,272.8	10.5	111.1	131.70	-226.8	459.2	488.3	332.4	155.91	3.132		
4,400.0	4,394.5	4,368.0	4,365.7	10.6	114.6	131.78	-227.7	459.2	489.1	328.3	160.71	3.043 ES, SF		
4,500.0	4,494.5	4,368.0	4,365.7	10.6	114.6	131.78	-227.7	459.2	502.0	345.3	156.68	3.204		
4,600.0	4,594.5	4,368.0	4,365.7	10.7	114.6	131.78	-227.7	459.2	533.7	386.1	147.59	3.616		
4,700.0	4,694.5	4,368.0	4,365.7	10.8	114.6	131.78	-227.7	459.2	581.1	445.2	135.88	4.277		
4,800.0	4,794.5	4,368.0	4,365.7	10.9	114.6	131.78	-227.7	459.2	640.7	517.1	123.63	5.182		
4,900.0	4,894.5	4,368.0	4,365.7	11.0	114.6	131.78	-227.7	459.2	709.5	597.4	112.09	6.329		
5,000.0	4,994.5	4,368.0	4,365.7	11.1	114.6	131.78	-227.7	459.2	785.0	683.2	101.80	7.711		
5,100.0	5,094.5	4,368.0	4,365.7	11.1	114.6	131.78	-227.7	459.2	865.4	772.6	92.85	9.320		
5,200.0	5,194.5	4,368.0	4,365.7	11.2	114.6	131.78	-227.7	459.2	949.6	864.5	85.17	11.150		

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 #710H
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 #710H	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 #1H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 188-MWD - OWSG R1												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	
21,600.0	11,878.0	11,577.0	11,535.6	78.2	41.6	-38.01	10,883.6	-272.4	984.2	897.9	86.36	11.397	
21,700.0	11,878.0	11,577.0	11,535.6	79.0	41.6	-38.01	10,883.6	-272.4	902.1	812.2	89.96	10.028	
21,800.0	11,878.0	11,619.5	11,573.0	79.7	41.6	-40.71	10,903.6	-273.6	821.5	729.1	92.38	8.893	
21,900.0	11,878.0	11,643.7	11,593.5	80.5	41.7	-42.26	10,916.5	-273.7	744.8	648.7	96.14	7.747	
22,000.0	11,878.0	11,672.0	11,616.6	81.2	41.8	-44.06	10,932.9	-273.0	672.1	571.7	100.38	6.696	
22,100.0	11,878.0	11,704.7	11,642.0	82.0	41.8	-46.13	10,953.5	-271.5	604.2	499.1	105.06	5.751	
22,200.0	11,878.0	11,743.4	11,669.9	82.7	41.8	-48.51	10,980.0	-268.7	541.9	431.9	110.02	4.926	
22,244.0	11,878.0	11,766.0	11,685.1	83.1	41.9	-49.84	10,996.6	-266.5	516.5	404.6	111.95	4.614	
22,294.0	11,878.0	11,786.6	11,698.3	83.4	41.9	-51.03	11,012.2	-264.3	489.2	374.5	114.67	4.266	CC, ES, SF

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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	
21,600.0	11,878.0	11,668.0	11,658.8	78.2	40.9	49.06	10,927.9	404.0	979.6	897.7	81.82	11.973		
21,700.0	11,878.0	11,693.0	11,682.5	79.0	41.0	51.36	10,935.7	403.6	891.3	807.3	84.06	10.603		
21,800.0	11,878.0	11,706.0	11,694.7	79.7	41.0	52.59	10,940.4	403.3	805.7	718.5	87.25	9.235		
21,900.0	11,878.0	11,725.0	11,712.1	80.5	41.1	54.43	10,947.8	402.8	723.1	632.1	90.98	7.948		
22,000.0	11,878.0	11,739.8	11,725.5	81.2	41.1	55.89	10,954.2	402.4	644.3	548.4	95.88	6.720		
22,100.0	11,878.0	11,762.0	11,745.1	82.0	41.2	58.13	10,964.6	401.5	570.6	469.1	101.55	5.619		
22,200.0	11,878.0	11,793.0	11,771.5	82.7	41.3	61.32	10,980.7	400.0	503.4	395.5	107.87	4.666		
22,244.0	11,878.0	11,812.8	11,788.0	83.1	41.3	63.40	10,991.6	398.8	476.1	365.6	110.59	4.305		
22,294.0	11,878.0	11,836.0	11,806.9	83.4	41.4	65.92	11,005.0	397.2	447.2	333.3	113.85	3.928	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 #710H
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 #710H	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.2	0.2	3.0	3.0	-89.85	0.1	-30.0	30.0				
100.0	100.0	100.2	100.2	3.0	3.0	-89.85	0.1	-30.0	30.0	23.4	6.52	4.596	
200.0	200.0	200.2	200.2	3.2	3.2	-89.85	0.1	-30.0	30.0	23.2	6.76	4.433	
300.0	300.0	300.2	300.2	3.3	3.3	-89.85	0.1	-30.0	30.0	23.0	6.99	4.286	
400.0	400.0	400.2	400.2	3.4	3.4	-89.85	0.1	-30.0	30.0	22.8	7.22	4.154	
500.0	500.0	500.2	500.2	3.5	3.5	-89.85	0.1	-30.0	30.0	22.5	7.43	4.033	
600.0	600.0	600.2	600.2	3.7	3.7	-89.85	0.1	-30.0	30.0	22.3	7.64	3.922	
700.0	700.0	700.2	700.2	3.8	3.8	-89.85	0.1	-30.0	30.0	22.1	7.84	3.821	
800.0	800.0	800.2	800.2	3.9	3.9	-89.85	0.1	-30.0	30.0	21.9	8.04	3.727	
900.0	900.0	900.2	900.2	4.0	4.0	-89.85	0.1	-30.0	30.0	21.7	8.24	3.639	
1,000.0	1,000.0	1,000.2	1,000.2	4.2	4.2	-89.85	0.1	-30.0	30.0	21.5	8.42	3.558	
1,100.0	1,100.0	1,100.2	1,100.2	4.3	4.3	-89.85	0.1	-30.0	30.0	21.4	8.61	3.482	
1,200.0	1,200.0	1,200.2	1,200.2	4.4	4.4	-89.85	0.1	-30.0	30.0	21.2	8.79	3.411	
1,300.0	1,300.0	1,300.2	1,300.2	4.5	4.5	-89.85	0.1	-30.0	30.0	21.0	8.96	3.344	
1,400.0	1,400.0	1,400.2	1,400.2	4.6	4.6	-89.85	0.1	-30.0	30.0	20.8	9.14	3.281	
1,466.6	1,466.6	1,466.8	1,466.8	4.7	4.7	-89.85	0.1	-30.0	30.0	20.7	9.25	3.241 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	-89.85	0.1	-30.0	30.0	20.7	9.30	3.221 ES	
1,600.0	1,600.0	1,599.2	1,599.2	4.9	4.9	-134.87	0.7	-31.6	32.8	23.2	9.61	3.413	
1,700.0	1,699.8	1,697.7	1,697.5	5.1	5.1	-137.08	2.6	-36.3	41.3	31.2	10.08	4.097	
1,750.0	1,749.7	1,746.6	1,746.3	5.2	5.2	-138.21	4.1	-39.8	47.7	37.4	10.25	4.650	
1,800.0	1,799.5	1,795.2	1,794.7	5.3	5.3	-139.03	5.8	-44.1	55.1	44.7	10.42	5.289	
1,900.0	1,899.1	1,891.8	1,890.6	5.5	5.6	-139.21	10.1	-54.8	72.3	61.5	10.86	6.658	
2,000.0	1,998.7	1,989.8	1,987.7	5.7	5.8	-138.75	15.2	-67.4	91.2	79.9	11.28	8.085	
2,100.0	2,098.4	2,088.0	2,084.9	5.9	6.1	-138.44	20.3	-80.1	110.1	98.4	11.72	9.394	
2,200.0	2,198.0	2,186.2	2,182.1	6.2	6.3	-138.23	25.4	-92.8	129.0	116.8	12.18	10.588	
2,300.0	2,297.6	2,284.4	2,279.4	6.5	6.6	-138.07	30.6	-105.4	147.9	135.3	12.67	11.677	
2,400.0	2,397.2	2,382.6	2,376.6	6.7	6.9	-137.94	35.7	-118.1	166.8	153.7	13.17	12.667	
2,500.0	2,496.8	2,480.8	2,473.9	7.0	7.2	-137.84	40.8	-130.8	185.7	172.1	13.69	13.570	
2,600.0	2,596.4	2,579.0	2,571.1	7.3	7.6	-137.76	45.9	-143.4	204.6	190.4	14.22	14.392	
2,700.0	2,696.1	2,677.2	2,668.3	7.6	7.9	-137.70	51.0	-156.1	223.6	208.8	14.76	15.142	
2,800.0	2,795.7	2,775.4	2,765.6	8.0	8.2	-137.64	56.2	-168.8	242.5	227.1	15.32	15.828	
2,900.0	2,895.3	2,873.6	2,862.8	8.3	8.6	-137.59	61.3	-181.5	261.4	245.5	15.88	16.455	
2,937.8	2,933.0	2,910.8	2,899.6	8.4	8.7	-137.57	63.2	-186.2	268.5	252.5	16.08	16.702	
3,000.0	2,995.0	2,971.8	2,960.1	8.6	8.9	-137.58	66.4	-194.1	280.0	263.6	16.41	17.066	
3,100.0	3,094.7	3,070.3	3,057.6	8.9	9.3	-137.41	71.5	-206.8	297.5	280.6	16.98	17.519	
3,200.0	3,194.6	3,168.9	3,155.3	9.2	9.7	-137.04	76.7	-219.6	313.8	296.2	17.56	17.874	
3,300.0	3,294.5	3,267.7	3,253.1	9.5	10.0	-136.50	81.8	-232.3	328.8	310.7	18.12	18.145	
3,400.0	3,394.5	3,366.7	3,351.1	9.7	10.4	-135.81	87.0	-245.1	342.6	323.9	18.67	18.351	
3,437.8	3,432.4	3,404.1	3,388.2	9.8	10.6	-91.51	88.9	-249.9	347.5	328.7	18.84	18.446	
3,500.0	3,494.5	3,465.7	3,449.1	9.8	10.8	-90.95	92.2	-257.9	355.5	336.4	19.11	18.600	
3,600.0	3,594.5	3,567.1	3,549.6	9.9	11.2	-90.10	97.4	-270.8	368.2	348.6	19.58	18.802	
3,700.0	3,694.5	3,672.7	3,654.4	10.0	11.6	-89.35	102.3	-282.9	379.7	359.6	20.10	18.888	
3,800.0	3,794.5	3,778.8	3,760.0	10.0	12.0	-88.76	106.4	-293.2	389.5	368.8	20.62	18.890	
3,900.0	3,894.5	3,885.3	3,866.0	10.1	12.4	-88.28	109.9	-301.7	397.5	376.4	21.12	18.825	
4,000.0	3,994.5	3,992.1	3,972.6	10.2	12.7	-87.93	112.6	-308.4	403.9	382.3	21.60	18.700	
4,100.0	4,094.5	4,099.1	4,079.5	10.3	13.1	-87.68	114.5	-313.3	408.5	386.5	22.05	18.525	
4,200.0	4,194.5	4,206.3	4,186.6	10.4	13.4	-87.52	115.8	-316.3	411.4	388.9	22.46	18.314	
4,300.0	4,294.5	4,313.6	4,293.8	10.5	13.7	-87.47	116.2	-317.5	412.5	389.7	22.79	18.100	
4,400.0	4,394.5	4,414.5	4,394.8	10.6	13.7	-87.46	116.2	-317.5	412.5	389.6	22.92	17.996	
4,500.0	4,494.5	4,514.5	4,494.8	10.6	13.8	-87.46	116.2	-317.5	412.5	389.5	23.07	17.882	
4,600.0	4,594.5	4,614.5	4,594.8	10.7	13.8	-87.46	116.2	-317.5	412.5	389.3	23.21	17.770	
4,700.0	4,694.5	4,714.5	4,694.8	10.8	13.9	-87.46	116.2	-317.5	412.5	389.2	23.36	17.659	

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 #710H
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 #710H	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		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,794.5	4,814.5	4,794.8	10.9	13.9	-87.46	116.2	-317.5	412.5	389.0	23.51	17.549	
4,900.0	4,894.5	4,914.5	4,894.8	11.0	14.0	-87.46	116.2	-317.5	412.5	388.9	23.65	17.441	
5,000.0	4,994.5	5,014.5	4,994.8	11.1	14.1	-87.46	116.2	-317.5	412.5	388.7	23.80	17.333	
5,100.0	5,094.5	5,114.5	5,094.8	11.1	14.1	-87.46	116.2	-317.5	412.5	388.6	23.95	17.227	
5,200.0	5,194.5	5,214.5	5,194.8	11.2	14.2	-87.46	116.2	-317.5	412.5	388.4	24.09	17.122	
5,300.0	5,294.5	5,314.5	5,294.8	11.3	14.2	-87.46	116.2	-317.5	412.5	388.3	24.24	17.018	
5,400.0	5,394.5	5,414.5	5,394.8	11.4	14.3	-87.46	116.2	-317.5	412.5	388.1	24.39	16.915	
5,500.0	5,494.5	5,514.5	5,494.8	11.5	14.4	-87.46	116.2	-317.5	412.5	388.0	24.53	16.814	
5,600.0	5,594.5	5,614.5	5,594.8	11.6	14.4	-87.46	116.2	-317.5	412.5	387.8	24.68	16.713	
5,700.0	5,694.5	5,714.5	5,694.8	11.6	14.5	-87.46	116.2	-317.5	412.5	387.7	24.83	16.614	
5,800.0	5,794.5	5,814.5	5,794.8	11.7	14.5	-87.46	116.2	-317.5	412.5	387.5	24.98	16.515	
5,900.0	5,894.5	5,914.5	5,894.8	11.8	14.6	-87.46	116.2	-317.5	412.5	387.4	25.13	16.418	
6,000.0	5,994.5	6,014.5	5,994.8	11.9	14.7	-87.46	116.2	-317.5	412.5	387.2	25.27	16.322	
6,100.0	6,094.5	6,114.5	6,094.8	12.0	14.7	-87.46	116.2	-317.5	412.5	387.1	25.42	16.226	
6,200.0	6,194.5	6,214.5	6,194.8	12.1	14.8	-87.46	116.2	-317.5	412.5	386.9	25.57	16.132	
6,300.0	6,294.5	6,314.5	6,294.8	12.1	14.9	-87.46	116.2	-317.5	412.5	386.8	25.72	16.039	
6,400.0	6,394.5	6,414.5	6,394.8	12.2	14.9	-87.46	116.2	-317.5	412.5	386.7	25.87	15.946	
6,500.0	6,494.5	6,514.5	6,494.8	12.3	15.0	-87.46	116.2	-317.5	412.5	386.5	26.02	15.855	
6,600.0	6,594.5	6,614.5	6,594.8	12.4	15.0	-87.46	116.2	-317.5	412.5	386.4	26.17	15.765	
6,700.0	6,694.5	6,714.5	6,694.8	12.5	15.1	-87.46	116.2	-317.5	412.5	386.2	26.32	15.675	
6,800.0	6,794.5	6,814.5	6,794.8	12.6	15.2	-87.46	116.2	-317.5	412.5	386.1	26.47	15.587	
6,900.0	6,894.5	6,914.5	6,894.8	12.6	15.2	-87.46	116.2	-317.5	412.5	385.9	26.62	15.499	
7,000.0	6,994.5	7,014.5	6,994.8	12.7	15.3	-87.46	116.2	-317.5	412.5	385.8	26.77	15.412	
7,100.0	7,094.5	7,114.5	7,094.8	12.8	15.4	-87.46	116.2	-317.5	412.5	385.6	26.92	15.326	
7,200.0	7,194.5	7,214.5	7,194.8	12.9	15.4	-87.46	116.2	-317.5	412.5	385.5	27.07	15.242	
7,300.0	7,294.5	7,314.5	7,294.8	13.0	15.5	-87.46	116.2	-317.5	412.5	385.3	27.22	15.157	
7,400.0	7,394.5	7,414.5	7,394.8	13.1	15.6	-87.46	116.2	-317.5	412.5	385.2	27.37	15.074	
7,500.0	7,494.5	7,514.5	7,494.8	13.1	15.6	-87.46	116.2	-317.5	412.5	385.0	27.52	14.992	
7,600.0	7,594.5	7,614.5	7,594.8	13.2	15.7	-87.46	116.2	-317.5	412.5	384.9	27.67	14.910	
7,700.0	7,694.5	7,714.5	7,694.8	13.3	15.7	-87.46	116.2	-317.5	412.5	384.7	27.82	14.830	
7,800.0	7,794.5	7,814.5	7,794.8	13.4	15.8	-87.46	116.2	-317.5	412.5	384.6	27.97	14.750	
7,900.0	7,894.5	7,914.5	7,894.8	13.5	15.9	-87.46	116.2	-317.5	412.5	384.4	28.12	14.670	
8,000.0	7,994.5	8,014.5	7,994.8	13.6	15.9	-87.46	116.2	-317.5	412.5	384.3	28.27	14.592	
8,100.0	8,094.5	8,114.5	8,094.8	13.6	16.0	-87.46	116.2	-317.5	412.5	384.1	28.42	14.515	
8,200.0	8,194.5	8,214.5	8,194.8	13.7	16.1	-87.46	116.2	-317.5	412.5	383.9	28.57	14.438	
8,300.0	8,294.5	8,314.5	8,294.8	13.8	16.1	-87.46	116.2	-317.5	412.5	383.8	28.72	14.362	
8,400.0	8,394.5	8,414.5	8,394.8	13.9	16.2	-87.46	116.2	-317.5	412.5	383.6	28.88	14.286	
8,500.0	8,494.5	8,514.5	8,494.8	14.0	16.3	-87.46	116.2	-317.5	412.5	383.5	29.03	14.212	
8,600.0	8,594.5	8,614.5	8,594.8	14.0	16.3	-87.46	116.2	-317.5	412.5	383.3	29.18	14.138	
8,700.0	8,694.5	8,714.5	8,694.8	14.1	16.4	-87.46	116.2	-317.5	412.5	383.2	29.33	14.065	
8,800.0	8,794.5	8,814.5	8,794.8	14.2	16.5	-87.46	116.2	-317.5	412.5	383.0	29.48	13.992	
8,900.0	8,894.5	8,914.5	8,894.8	14.3	16.5	-87.46	116.2	-317.5	412.5	382.9	29.63	13.921	
9,000.0	8,994.5	9,014.5	8,994.8	14.4	16.6	-87.46	116.2	-317.5	412.5	382.7	29.79	13.850	
9,100.0	9,094.5	9,114.5	9,094.8	14.5	16.7	-87.46	116.2	-317.5	412.5	382.6	29.94	13.779	
9,200.0	9,194.5	9,214.5	9,194.8	14.5	16.7	-87.46	116.2	-317.5	412.5	382.4	30.09	13.710	
9,300.0	9,294.5	9,314.5	9,294.8	14.6	16.8	-87.46	116.2	-317.5	412.5	382.3	30.24	13.641	
9,400.0	9,394.5	9,414.5	9,394.8	14.7	16.9	-87.46	116.2	-317.5	412.5	382.1	30.39	13.572	
9,500.0	9,494.5	9,514.5	9,494.8	14.8	16.9	-87.46	116.2	-317.5	412.5	382.0	30.55	13.504	
9,600.0	9,594.5	9,614.5	9,594.8	14.9	17.0	-87.46	116.2	-317.5	412.5	381.8	30.70	13.437	
9,700.0	9,694.5	9,714.5	9,694.8	15.0	17.1	-87.46	116.2	-317.5	412.5	381.7	30.85	13.371	
9,800.0	9,794.5	9,814.5	9,794.8	15.0	17.1	-87.46	116.2	-317.5	412.5	381.5	31.00	13.305	
9,900.0	9,894.5	9,914.5	9,894.8	15.1	17.2	-87.46	116.2	-317.5	412.5	381.4	31.16	13.240	

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 #710H
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 #710H	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	
10,000.0	9,994.5	10,014.5	9,994.8	15.2	17.3	-87.46	116.2	-317.5	412.5	381.2	31.31	13.175	
10,100.0	10,094.5	10,114.5	10,094.8	15.3	17.4	-87.46	116.2	-317.5	412.5	381.1	31.46	13.111	
10,200.0	10,194.5	10,214.5	10,194.8	15.4	17.4	-87.46	116.2	-317.5	412.5	380.9	31.62	13.048	
10,300.0	10,294.5	10,314.5	10,294.8	15.5	17.5	-87.46	116.2	-317.5	412.5	380.8	31.77	12.985	
10,400.0	10,394.5	10,414.5	10,394.8	15.5	17.6	-87.46	116.2	-317.5	412.5	380.6	31.92	12.922	
10,500.0	10,494.5	10,514.5	10,494.8	15.6	17.6	-87.46	116.2	-317.5	412.5	380.4	32.08	12.861	
10,600.0	10,594.5	10,614.5	10,594.8	15.7	17.7	-87.46	116.2	-317.5	412.5	380.3	32.23	12.799	
10,700.0	10,694.5	10,714.5	10,694.8	15.8	17.8	-87.46	116.2	-317.5	412.5	380.1	32.38	12.739	
10,800.0	10,794.5	10,814.5	10,794.8	15.9	17.8	-87.46	116.2	-317.5	412.5	380.0	32.54	12.679	
10,900.0	10,894.5	10,914.5	10,894.8	15.9	17.9	-87.46	116.2	-317.5	412.5	379.8	32.69	12.619	
11,000.0	10,994.5	11,014.5	10,994.8	16.0	18.0	-87.46	116.2	-317.5	412.5	379.7	32.84	12.560	
11,100.0	11,094.5	11,114.5	11,094.8	16.1	18.0	-87.46	116.2	-317.5	412.5	379.5	32.99	12.504	
11,110.0	11,104.5	11,124.5	11,104.8	16.1	18.0	-87.46	116.2	-317.5	412.5	379.5	33.00	12.500	
11,200.0	11,194.5	11,212.1	11,192.3	16.2	18.1	-87.00	119.6	-317.5	412.7	379.6	33.11	12.466	
11,300.0	11,294.5	11,305.1	11,283.5	16.3	18.1	-84.57	137.2	-317.6	414.2	380.9	33.27	12.451	
11,310.5	11,305.0	11,314.5	11,292.5	16.3	18.1	-84.21	139.8	-317.6	414.5	381.2	33.28	12.454	
11,350.0	11,344.5	11,350.0	11,326.2	16.3	18.1	-82.53	150.9	-317.6	415.8	382.5	33.35	12.470	
11,400.0	11,394.2	11,392.7	11,365.8	16.4	18.1	-80.76	167.0	-317.7	417.9	384.4	33.44	12.495	
11,450.0	11,443.2	11,435.4	11,404.0	16.4	18.2	-79.04	186.0	-317.7	420.2	386.7	33.57	12.518	
11,500.0	11,491.1	11,477.4	11,440.1	16.5	18.2	-77.41	207.4	-317.8	422.8	389.1	33.73	12.536	
11,550.0	11,537.6	11,518.7	11,474.0	16.5	18.2	-75.88	231.0	-317.9	425.6	391.6	33.92	12.545	
11,600.0	11,582.4	11,559.6	11,505.8	16.6	18.2	-74.46	256.7	-317.9	428.4	394.2	34.16	12.542	
11,650.0	11,625.0	11,600.0	11,535.3	16.7	18.3	-73.15	284.2	-318.0	431.2	396.8	34.43	12.526	
11,700.0	11,665.2	11,639.9	11,562.5	16.7	18.3	-71.96	313.4	-318.1	434.0	399.3	34.73	12.496	
11,750.0	11,702.7	11,679.5	11,587.5	16.8	18.3	-70.88	344.2	-318.2	436.7	401.6	35.06	12.456	
11,800.0	11,737.1	11,718.8	11,610.0	16.9	18.3	-69.93	376.3	-318.3	439.2	403.8	35.41	12.405	
11,850.0	11,768.3	11,757.8	11,630.2	16.9	18.4	-69.10	409.7	-318.5	441.5	405.7	35.76	12.345	
11,900.0	11,795.9	11,800.0	11,649.4	17.0	18.4	-68.36	447.3	-318.6	443.5	407.4	36.08	12.293	
11,950.0	11,819.8	11,835.2	11,663.3	17.0	18.4	-67.83	479.6	-318.7	445.1	408.7	36.45	12.211	
12,000.0	11,839.8	11,873.6	11,676.1	17.1	18.5	-67.39	515.8	-318.8	446.5	409.7	36.78	12.141	
12,050.0	11,855.7	11,912.0	11,686.5	17.2	18.5	-67.07	552.7	-318.9	447.4	410.4	37.07	12.070	
12,100.0	11,867.4	11,950.0	11,694.3	17.2	18.6	-66.89	589.9	-319.1	448.0	410.7	37.33	12.002	
12,150.0	11,874.8	11,988.5	11,699.7	17.2	18.6	-66.83	628.0	-319.2	448.2	410.6	37.55	11.936	
12,200.0	11,877.9	12,026.7	11,702.5	17.3	18.7	-66.91	666.1	-319.3	448.0	410.2	37.73	11.874	
12,210.5	11,878.0	12,034.8	11,702.8	17.3	18.7	-66.94	674.2	-319.3	447.9	410.1	37.76	11.862	
12,248.8	11,878.0	12,068.4	11,703.0	17.3	18.7	-66.96	707.8	-319.4	447.8	409.9	37.89	11.816	
12,300.0	11,878.0	12,119.6	11,703.0	17.3	18.8	-66.96	759.1	-319.6	447.8	409.7	38.10	11.751	
12,400.0	11,878.0	12,219.6	11,703.0	17.5	19.0	-66.96	859.1	-319.9	447.8	409.2	38.57	11.608	
12,500.0	11,878.0	12,319.6	11,703.0	17.6	19.2	-66.96	959.1	-320.3	447.8	408.7	39.09	11.454	
12,600.0	11,878.0	12,419.6	11,703.0	17.8	19.5	-66.96	1,059.1	-320.6	447.8	408.1	39.67	11.288	
12,700.0	11,878.0	12,519.6	11,703.0	18.1	19.8	-66.96	1,159.1	-320.9	447.8	407.5	40.29	11.114	
12,800.0	11,878.0	12,619.6	11,703.0	18.4	20.1	-66.96	1,259.1	-321.3	447.8	406.8	40.96	10.932	
12,900.0	11,878.0	12,719.6	11,703.0	18.7	20.4	-66.96	1,359.1	-321.6	447.8	406.1	41.67	10.745	
13,000.0	11,878.0	12,819.6	11,703.0	19.1	20.8	-66.96	1,459.1	-321.9	447.8	405.3	42.43	10.554	
13,100.0	11,878.0	12,919.6	11,703.0	19.6	21.2	-66.96	1,559.1	-322.3	447.8	404.5	43.22	10.359	
13,200.0	11,878.0	13,019.6	11,703.0	20.0	21.6	-66.96	1,659.1	-322.6	447.8	403.7	44.06	10.163	
13,300.0	11,878.0	13,119.6	11,703.0	20.5	22.1	-66.96	1,759.1	-322.9	447.8	402.8	44.93	9.967	
13,400.0	11,878.0	13,219.6	11,703.0	21.0	22.5	-66.96	1,859.1	-323.3	447.8	401.9	45.83	9.770	
13,500.0	11,878.0	13,319.6	11,703.0	21.5	23.0	-66.96	1,959.1	-323.6	447.8	401.0	46.76	9.575	
13,600.0	11,878.0	13,419.6	11,703.0	22.0	23.5	-66.96	2,059.1	-323.9	447.8	400.0	47.73	9.381	
13,700.0	11,878.0	13,519.6	11,703.0	22.6	24.0	-66.96	2,159.1	-324.3	447.8	399.0	48.72	9.190	
13,800.0	11,878.0	13,619.6	11,703.0	23.1	24.5	-66.96	2,259.1	-324.6	447.8	398.0	49.74	9.002	

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 #710H
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 #710H	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)			
13,900.0	11,878.0	13,719.6	11,703.0	23.7	25.0	-66.96	2,359.1	-324.9	447.8	397.0	50.79	8.817	
14,000.0	11,878.0	13,819.6	11,703.0	24.3	25.6	-66.96	2,459.1	-325.3	447.8	395.9	51.85	8.635	
14,100.0	11,878.0	13,919.6	11,703.0	24.9	26.1	-66.96	2,559.1	-325.6	447.8	394.8	52.94	8.457	
14,200.0	11,878.0	14,019.6	11,703.0	25.5	26.7	-66.96	2,659.1	-325.9	447.8	393.7	54.05	8.284	
14,300.0	11,878.0	14,119.6	11,703.0	26.1	27.3	-66.96	2,759.1	-326.2	447.8	392.6	55.18	8.114	
14,400.0	11,878.0	14,219.6	11,703.0	26.7	27.9	-66.96	2,859.1	-326.6	447.8	391.4	56.33	7.949	
14,500.0	11,878.0	14,319.6	11,703.0	27.3	28.5	-66.96	2,959.1	-326.9	447.8	390.3	57.49	7.788	
14,600.0	11,878.0	14,419.6	11,703.0	27.9	29.1	-66.96	3,059.1	-327.2	447.7	389.1	58.67	7.631	
14,700.0	11,878.0	14,519.6	11,703.0	28.6	29.7	-66.96	3,159.1	-327.6	447.7	387.9	59.87	7.479	
14,800.0	11,878.0	14,619.6	11,703.0	29.2	30.3	-66.96	3,259.1	-327.9	447.7	386.7	61.08	7.331	
14,900.0	11,878.0	14,719.6	11,703.0	29.9	30.9	-66.96	3,359.1	-328.2	447.7	385.4	62.30	7.187	
15,000.0	11,878.0	14,819.6	11,703.0	30.5	31.6	-66.96	3,459.1	-328.6	447.7	384.2	63.53	7.047	
15,100.0	11,878.0	14,919.6	11,703.0	31.2	32.2	-66.96	3,559.1	-328.9	447.7	383.0	64.78	6.912	
15,200.0	11,878.0	15,019.6	11,703.0	31.9	32.8	-66.96	3,659.1	-329.2	447.7	381.7	66.04	6.780	
15,300.0	11,878.0	15,119.6	11,703.0	32.5	33.5	-66.96	3,759.1	-329.6	447.7	380.4	67.31	6.652	
15,400.0	11,878.0	15,219.6	11,703.0	33.2	34.1	-66.96	3,859.1	-329.9	447.7	379.2	68.58	6.528	
15,500.0	11,878.0	15,319.6	11,703.0	33.9	34.8	-66.96	3,959.1	-330.2	447.7	377.9	69.87	6.408	
15,600.0	11,878.0	15,419.6	11,703.0	34.6	35.5	-66.96	4,059.1	-330.6	447.7	376.6	71.17	6.291	
15,700.0	11,878.0	15,519.6	11,703.0	35.2	36.1	-66.96	4,159.1	-330.9	447.7	375.3	72.47	6.178	
15,800.0	11,878.0	15,619.6	11,703.0	35.9	36.8	-66.96	4,259.1	-331.2	447.7	374.0	73.79	6.068	
15,900.0	11,878.0	15,719.6	11,703.0	36.6	37.5	-66.96	4,359.1	-331.5	447.7	372.6	75.11	5.961	
16,000.0	11,878.0	15,819.6	11,703.0	37.3	38.1	-66.96	4,459.1	-331.9	447.7	371.3	76.43	5.858	
16,100.0	11,878.0	15,919.6	11,703.0	38.0	38.8	-66.96	4,559.0	-332.2	447.7	370.0	77.77	5.757	
16,200.0	11,878.0	16,019.6	11,703.0	38.7	39.5	-66.96	4,659.0	-332.5	447.7	368.6	79.11	5.660	
16,300.0	11,878.0	16,119.6	11,703.0	39.4	40.2	-66.96	4,759.0	-332.9	447.7	367.3	80.46	5.565	
16,400.0	11,878.0	16,219.6	11,703.0	40.1	40.9	-66.96	4,859.0	-333.2	447.7	365.9	81.81	5.473	
16,500.0	11,878.0	16,319.6	11,703.0	40.8	41.6	-66.96	4,959.0	-333.5	447.7	364.6	83.17	5.384	
16,600.0	11,878.0	16,419.6	11,703.0	41.5	42.3	-66.96	5,059.0	-333.9	447.7	363.2	84.53	5.297	
16,700.0	11,878.0	16,519.6	11,703.0	42.2	43.0	-66.96	5,159.0	-334.2	447.7	361.8	85.90	5.212	
16,800.0	11,878.0	16,619.6	11,703.0	42.9	43.7	-66.96	5,259.0	-334.5	447.7	360.5	87.27	5.130	
16,900.0	11,878.0	16,719.6	11,703.0	43.6	44.4	-66.96	5,359.0	-334.9	447.7	359.1	88.65	5.051	
17,000.0	11,878.0	16,819.6	11,703.0	44.4	45.1	-66.96	5,459.0	-335.2	447.7	357.7	90.03	4.973	
17,100.0	11,878.0	16,919.6	11,703.0	45.1	45.8	-66.96	5,559.0	-335.5	447.7	356.3	91.42	4.898	
17,200.0	11,878.0	17,019.6	11,703.0	45.8	46.5	-66.96	5,659.0	-335.9	447.7	354.9	92.81	4.824	
17,300.0	11,878.0	17,119.6	11,703.0	46.5	47.2	-66.96	5,759.0	-336.2	447.7	353.5	94.20	4.753	
17,400.0	11,878.0	17,219.6	11,703.0	47.2	47.9	-66.96	5,859.0	-336.5	447.7	352.1	95.60	4.684	
17,500.0	11,878.0	17,319.6	11,703.0	48.0	48.6	-66.96	5,959.0	-336.9	447.7	350.7	97.00	4.616	
17,600.0	11,878.0	17,419.6	11,703.0	48.7	49.3	-66.96	6,059.0	-337.2	447.7	349.3	98.40	4.550	
17,700.0	11,878.0	17,519.6	11,703.0	49.4	50.0	-66.96	6,159.0	-337.5	447.7	347.9	99.81	4.486	
17,800.0	11,878.0	17,619.6	11,703.0	50.1	50.7	-66.96	6,259.0	-337.8	447.7	346.5	101.22	4.423	
17,900.0	11,878.0	17,719.6	11,703.0	50.9	51.5	-66.96	6,359.0	-338.2	447.7	345.1	102.63	4.362	
18,000.0	11,878.0	17,819.6	11,703.0	51.6	52.2	-66.96	6,459.0	-338.5	447.7	343.7	104.05	4.303	
18,100.0	11,878.0	17,919.6	11,703.0	52.3	52.9	-66.96	6,559.0	-338.8	447.7	342.3	105.46	4.245	
18,200.0	11,878.0	18,019.6	11,703.0	53.0	53.6	-66.96	6,659.0	-339.2	447.7	340.8	106.89	4.189	
18,300.0	11,878.0	18,119.6	11,703.0	53.8	54.3	-66.96	6,759.0	-339.5	447.7	339.4	108.31	4.134	
18,400.0	11,878.0	18,219.6	11,703.0	54.5	55.1	-66.96	6,859.0	-339.8	447.7	338.0	109.73	4.080	
18,500.0	11,878.0	18,319.6	11,703.0	55.2	55.8	-66.96	6,959.0	-340.2	447.7	336.6	111.16	4.028	
18,600.0	11,878.0	18,419.6	11,703.0	56.0	56.5	-66.96	7,059.0	-340.5	447.7	335.1	112.59	3.976	
18,700.0	11,878.0	18,519.6	11,703.0	56.7	57.2	-66.96	7,159.0	-340.8	447.7	333.7	114.03	3.926	
18,800.0	11,878.0	18,619.6	11,703.0	57.4	58.0	-66.96	7,259.0	-341.2	447.7	332.3	115.46	3.878	
18,900.0	11,878.0	18,719.6	11,703.0	58.2	58.7	-66.96	7,359.0	-341.5	447.7	330.8	116.90	3.830	
19,000.0	11,878.0	18,819.6	11,703.0	58.9	59.4	-66.96	7,459.0	-341.8	447.7	329.4	118.33	3.784	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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)			
19,100.0	11,878.0	18,919.6	11,703.0	59.6	60.1	-66.96	7,559.0	-342.2	447.7	327.9	119.77	3.738	
19,200.0	11,878.0	19,019.6	11,703.0	60.4	60.9	-66.96	7,659.0	-342.5	447.7	326.5	121.22	3.694	
19,300.0	11,878.0	19,119.6	11,703.0	61.1	61.6	-66.96	7,759.0	-342.8	447.7	325.1	122.66	3.650	
19,400.0	11,878.0	19,219.6	11,703.0	61.9	62.3	-66.96	7,859.0	-343.2	447.7	323.6	124.10	3.608	
19,500.0	11,878.0	19,319.6	11,703.0	62.6	63.1	-66.96	7,959.0	-343.5	447.7	322.2	125.55	3.566	
19,600.0	11,878.0	19,419.6	11,703.0	63.3	63.8	-66.96	8,059.0	-343.8	447.7	320.7	127.00	3.525	
19,700.0	11,878.0	19,519.6	11,703.0	64.1	64.5	-66.96	8,159.0	-344.1	447.7	319.3	128.45	3.486	
19,800.0	11,878.0	19,619.6	11,703.0	64.8	65.3	-66.96	8,259.0	-344.5	447.7	317.8	129.90	3.447	
19,900.0	11,878.0	19,719.6	11,703.0	65.6	66.0	-66.96	8,359.0	-344.8	447.7	316.4	131.35	3.409	
20,000.0	11,878.0	19,819.6	11,703.0	66.3	66.7	-66.96	8,459.0	-345.1	447.7	314.9	132.81	3.371	
20,100.0	11,878.0	19,919.6	11,703.0	67.0	67.5	-66.96	8,559.0	-345.5	447.7	313.5	134.26	3.335	
20,200.0	11,878.0	20,019.6	11,703.0	67.8	68.2	-66.96	8,659.0	-345.8	447.7	312.0	135.72	3.299	
20,300.0	11,878.0	20,119.6	11,703.0	68.5	69.0	-66.96	8,759.0	-346.1	447.7	310.5	137.17	3.264	
20,400.0	11,878.0	20,219.6	11,703.0	69.3	69.7	-66.96	8,859.0	-346.5	447.7	309.1	138.63	3.229	
20,500.0	11,878.0	20,319.6	11,703.0	70.0	70.4	-66.96	8,959.0	-346.8	447.7	307.6	140.09	3.196	
20,600.0	11,878.0	20,419.6	11,703.0	70.8	71.2	-66.96	9,059.0	-347.1	447.7	306.2	141.55	3.163	
20,700.0	11,878.0	20,519.6	11,703.0	71.5	71.9	-66.96	9,159.0	-347.5	447.7	304.7	143.01	3.131	
20,800.0	11,878.0	20,619.6	11,703.0	72.3	72.7	-66.96	9,259.0	-347.8	447.7	303.2	144.48	3.099	
20,900.0	11,878.0	20,719.6	11,703.0	73.0	73.4	-66.96	9,359.0	-348.1	447.7	301.8	145.94	3.068	
21,000.0	11,878.0	20,819.6	11,703.0	73.8	74.1	-66.96	9,459.0	-348.5	447.7	300.3	147.41	3.037	
21,100.0	11,878.0	20,919.6	11,703.0	74.5	74.9	-66.96	9,559.0	-348.8	447.7	298.8	148.87	3.007	
21,200.0	11,878.0	21,019.6	11,703.0	75.2	75.6	-66.96	9,659.0	-349.1	447.7	297.4	150.34	2.978	
21,300.0	11,878.0	21,119.6	11,703.0	76.0	76.4	-66.96	9,759.0	-349.5	447.7	295.9	151.80	2.949	
21,400.0	11,878.0	21,219.6	11,703.0	76.7	77.1	-66.96	9,859.0	-349.8	447.7	294.4	153.27	2.921	
21,500.0	11,878.0	21,319.6	11,703.0	77.5	77.9	-66.96	9,959.0	-350.1	447.7	293.0	154.74	2.893	
21,600.0	11,878.0	21,419.6	11,703.0	78.2	78.6	-66.96	10,059.0	-350.4	447.7	291.5	156.21	2.866	
21,700.0	11,878.0	21,519.6	11,703.0	79.0	79.3	-66.96	10,159.0	-350.8	447.7	290.0	157.68	2.839	
21,800.0	11,878.0	21,619.6	11,703.0	79.7	80.1	-66.96	10,259.0	-351.1	447.7	288.5	159.15	2.813	
21,900.0	11,878.0	21,719.6	11,703.0	80.5	80.8	-66.96	10,359.0	-351.4	447.7	287.1	160.63	2.787	
22,000.0	11,878.0	21,819.6	11,703.0	81.2	81.6	-66.96	10,459.0	-351.8	447.7	285.6	162.10	2.762	
22,100.0	11,878.0	21,919.6	11,703.0	82.0	82.3	-66.96	10,559.0	-352.1	447.7	284.1	163.57	2.737	
22,200.0	11,878.0	22,019.6	11,703.0	82.7	83.1	-66.96	10,659.0	-352.4	447.7	282.6	165.05	2.713	
22,244.0	11,878.0	22,063.6	11,703.0	83.1	83.4	-66.96	10,703.0	-352.6	447.7	282.0	165.69	2.702	
22,292.2	11,878.0	22,111.9	11,703.0	83.4	83.8	-66.96	10,751.3	-352.7	447.7	281.3	166.40	2.690	
22,294.0	11,878.0	22,113.0	11,703.0	83.4	83.8	-66.96	10,752.4	-352.7	447.7	281.3	166.43	2.690 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 #710H
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 #710H	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, 11165-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
0.0	0.0	0.0	0.0	3.0	3.0	90.67	-0.3	30.0	30.0				
100.0	100.0	100.0	100.0	3.0	3.0	90.67	-0.3	30.0	30.0	23.4	6.52	4.595	
200.0	200.0	200.0	200.0	3.2	3.2	90.67	-0.3	30.0	30.0	23.2	6.76	4.432	
300.0	300.0	300.0	300.0	3.3	3.3	90.67	-0.3	30.0	30.0	23.0	6.99	4.285	
400.0	400.0	400.0	400.0	3.4	3.4	90.67	-0.3	30.0	30.0	22.7	7.21	4.153	
500.0	500.0	500.0	500.0	3.5	3.5	90.67	-0.3	30.0	30.0	22.5	7.43	4.032	
600.0	600.0	600.0	600.0	3.7	3.7	90.67	-0.3	30.0	30.0	22.3	7.64	3.922	
700.0	700.0	700.0	700.0	3.8	3.8	90.67	-0.3	30.0	30.0	22.1	7.84	3.820	
800.0	800.0	800.0	800.0	3.9	3.9	90.67	-0.3	30.0	30.0	21.9	8.04	3.726	
900.0	900.0	900.0	900.0	4.0	4.0	90.67	-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	90.67	-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	90.67	-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	90.67	-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	90.67	-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	90.67	-0.3	30.0	30.0	20.8	9.14	3.280	
1,466.7	1,466.7	1,466.7	1,466.7	4.7	4.7	90.67	-0.3	30.0	30.0	20.7	9.25	3.240	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	90.67	-0.3	30.0	30.0	20.7	9.30	3.220	
1,600.0	1,600.0	1,599.5	1,599.4	4.9	4.9	47.48	0.5	31.0	29.8	20.2	9.54	3.119	
1,700.0	1,699.8	1,698.9	1,698.8	5.1	5.0	49.97	3.0	33.9	29.2	19.2	9.93	2.939	
1,750.0	1,749.7	1,748.6	1,748.4	5.2	5.1	51.91	4.8	36.2	28.8	18.7	10.05	2.862	
1,795.1	1,794.6	1,793.5	1,793.2	5.2	5.2	53.50	6.9	38.6	28.6	18.4	10.17	2.811 CC	
1,800.0	1,799.5	1,798.3	1,798.0	5.3	5.2	53.63	7.1	38.9	28.6	18.4	10.18	2.807 ES	
1,900.0	1,899.1	1,897.8	1,897.1	5.5	5.5	54.19	13.0	45.8	29.5	19.0	10.54	2.802	
2,000.0	1,998.7	1,997.2	1,995.8	5.7	5.7	51.27	20.4	54.7	32.3	21.3	10.95	2.948	
2,100.0	2,098.4	2,096.4	2,094.1	5.9	5.9	47.53	28.6	65.5	37.0	25.7	11.34	3.265	
2,200.0	2,198.0	2,195.8	2,192.5	6.2	6.1	47.90	34.3	78.0	43.6	31.9	11.71	3.722	
2,300.0	2,297.6	2,295.5	2,291.3	6.5	6.4	48.81	39.5	90.9	50.5	38.3	12.16	4.153	
2,400.0	2,397.2	2,395.3	2,390.0	6.7	6.7	49.50	44.7	103.7	57.4	44.8	12.63	4.546	
2,500.0	2,496.8	2,495.0	2,488.8	7.0	7.0	50.04	49.9	116.6	64.3	51.2	13.11	4.906	
2,600.0	2,596.4	2,594.8	2,587.6	7.3	7.3	50.48	55.1	129.5	71.3	57.7	13.61	5.236	
2,700.0	2,696.1	2,694.6	2,686.4	7.6	7.7	50.84	60.3	142.4	78.2	64.1	14.12	5.538	
2,800.0	2,795.7	2,794.3	2,785.2	8.0	8.0	51.14	65.5	155.2	85.1	70.5	14.64	5.816	
2,900.0	2,895.3	2,894.1	2,884.0	8.3	8.4	51.39	70.7	168.1	92.1	76.9	15.17	6.072	
2,937.8	2,933.0	2,931.8	2,921.4	8.4	8.5	51.48	72.7	173.0	94.7	79.4	15.34	6.173	
3,000.0	2,995.0	2,993.8	2,982.8	8.6	8.7	51.50	75.9	181.0	99.2	83.6	15.66	6.337	
3,100.0	3,094.7	3,093.5	3,081.4	8.9	9.1	50.94	81.1	193.8	107.4	91.1	16.25	6.607	
3,200.0	3,194.6	3,193.0	3,180.0	9.2	9.5	49.81	86.3	206.7	116.7	99.8	16.90	6.905	
3,300.0	3,294.5	3,292.4	3,278.4	9.5	9.9	48.28	91.5	219.5	127.2	109.6	17.58	7.232	
3,400.0	3,394.5	3,391.6	3,376.7	9.7	10.2	46.47	96.7	232.3	138.9	120.6	18.29	7.596	
3,437.8	3,432.4	3,429.1	3,413.8	9.8	10.4	89.74	98.6	237.1	143.7	125.2	18.53	7.758	
3,500.0	3,494.5	3,490.7	3,474.8	9.8	10.6	88.53	101.9	245.1	151.8	132.9	18.90	8.031	
3,600.0	3,594.5	3,589.7	3,572.8	9.9	11.0	86.84	107.0	257.9	164.9	145.4	19.53	8.445	
3,700.0	3,694.5	3,688.7	3,670.9	10.0	11.4	85.39	112.2	270.6	178.2	158.0	20.14	8.845	
3,800.0	3,794.5	3,787.7	3,768.9	10.0	11.8	84.15	117.3	283.4	191.5	170.8	20.74	9.231	
3,900.0	3,894.5	3,886.8	3,867.0	10.1	12.2	83.07	122.5	296.2	204.9	183.6	21.34	9.603	
4,000.0	3,994.5	3,985.8	3,965.1	10.2	12.6	82.12	127.7	309.0	218.4	196.5	21.93	9.959	
4,100.0	4,094.5	4,084.8	4,063.1	10.3	13.0	81.28	132.8	321.8	231.9	209.4	22.51	10.301	
4,200.0	4,194.5	4,183.8	4,161.2	10.4	13.4	80.54	138.0	334.5	245.5	222.4	23.10	10.629	
4,300.0	4,294.5	4,282.9	4,259.3	10.5	13.8	79.87	143.2	347.3	259.1	235.4	23.68	10.943	
4,400.0	4,394.5	4,381.9	4,357.3	10.6	14.2	79.27	148.3	360.1	272.7	248.5	24.26	11.244	
4,500.0	4,494.5	4,480.9	4,455.4	10.6	14.6	78.72	153.5	372.9	286.4	261.6	24.83	11.533	
4,600.0	4,594.5	4,579.9	4,553.5	10.7	15.0	78.23	158.6	385.7	300.1	274.7	25.41	11.809	

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 #710H
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 #710H	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, 11165-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,700.0	4,694.5	4,679.0	4,651.5	10.8	15.4	77.78	163.8	398.4	313.8	287.8	25.99	12.074	
4,800.0	4,794.5	4,778.0	4,749.6	10.9	15.8	77.36	169.0	411.2	327.5	301.0	26.57	12.328	
4,900.0	4,894.5	4,877.0	4,847.6	11.0	16.3	76.98	174.1	424.0	341.3	314.1	27.15	12.571	
5,000.0	4,994.5	4,976.1	4,945.7	11.1	16.7	76.63	179.3	436.8	355.0	327.3	27.73	12.805	
5,100.0	5,094.5	5,075.1	5,043.8	11.1	17.1	76.31	184.5	449.5	368.8	340.5	28.30	13.034	
5,200.0	5,194.5	5,180.7	5,148.4	11.2	17.5	76.01	189.6	462.4	381.8	352.9	28.91	13.208	
5,300.0	5,294.5	5,287.2	5,254.3	11.3	17.9	75.76	194.1	473.5	393.0	363.5	29.50	13.322	
5,400.0	5,394.5	5,394.1	5,360.7	11.4	18.4	75.57	197.9	482.9	402.3	372.2	30.06	13.384	
5,500.0	5,494.5	5,501.3	5,467.6	11.5	18.8	75.42	201.0	490.4	409.8	379.2	30.59	13.397	
5,600.0	5,594.5	5,608.8	5,575.0	11.6	19.1	75.31	203.2	496.0	415.4	384.4	31.08	13.368	
5,700.0	5,694.5	5,716.6	5,682.6	11.6	19.5	75.24	204.8	499.9	419.2	387.7	31.52	13.300	
5,800.0	5,794.5	5,824.4	5,790.4	11.7	19.7	75.20	205.6	501.8	421.1	389.3	31.87	13.215	
5,900.0	5,894.5	5,928.5	5,894.6	11.8	19.8	75.20	205.7	502.1	421.4	389.4	32.02	13.159	
6,000.0	5,994.5	6,028.5	5,994.6	11.9	19.9	75.20	205.7	502.1	421.4	389.3	32.14	13.110	
6,100.0	6,094.5	6,128.5	6,094.6	12.0	19.9	75.20	205.7	502.1	421.4	389.2	32.26	13.064	
6,200.0	6,194.5	6,228.5	6,194.6	12.1	20.0	75.20	205.7	502.1	421.4	389.0	32.37	13.019	
6,300.0	6,294.5	6,328.5	6,294.6	12.1	20.0	75.20	205.7	502.1	421.4	388.9	32.48	12.973	
6,400.0	6,394.5	6,428.5	6,394.6	12.2	20.1	75.20	205.7	502.1	421.4	388.8	32.60	12.928	
6,500.0	6,494.5	6,528.5	6,494.6	12.3	20.1	75.20	205.7	502.1	421.4	388.7	32.71	12.882	
6,600.0	6,594.5	6,628.5	6,594.6	12.4	20.1	75.20	205.7	502.1	421.4	388.6	32.83	12.837	
6,700.0	6,694.5	6,728.5	6,694.6	12.5	20.2	75.20	205.7	502.1	421.4	388.5	32.94	12.792	
6,800.0	6,794.5	6,828.5	6,794.6	12.6	20.2	75.20	205.7	502.1	421.4	388.4	33.06	12.747	
6,900.0	6,894.5	6,928.5	6,894.6	12.6	20.3	75.20	205.7	502.1	421.4	388.2	33.17	12.703	
7,000.0	6,994.5	7,028.5	6,994.6	12.7	20.3	75.20	205.7	502.1	421.4	388.1	33.29	12.658	
7,100.0	7,094.5	7,128.5	7,094.6	12.8	20.4	75.20	205.7	502.1	421.4	388.0	33.41	12.614	
7,200.0	7,194.5	7,228.5	7,194.6	12.9	20.4	75.20	205.7	502.1	421.4	387.9	33.53	12.570	
7,300.0	7,294.5	7,328.5	7,294.6	13.0	20.5	75.20	205.7	502.1	421.4	387.8	33.64	12.526	
7,400.0	7,394.5	7,428.5	7,394.6	13.1	20.5	75.20	205.7	502.1	421.4	387.6	33.76	12.482	
7,500.0	7,494.5	7,528.5	7,494.6	13.1	20.6	75.20	205.7	502.1	421.4	387.5	33.88	12.439	
7,600.0	7,594.5	7,628.5	7,594.6	13.2	20.6	75.20	205.7	502.1	421.4	387.4	34.00	12.395	
7,700.0	7,694.5	7,728.5	7,694.6	13.3	20.7	75.20	205.7	502.1	421.4	387.3	34.12	12.352	
7,800.0	7,794.5	7,828.5	7,794.6	13.4	20.7	75.20	205.7	502.1	421.4	387.2	34.24	12.309	
7,900.0	7,894.5	7,928.5	7,894.6	13.5	20.7	75.20	205.7	502.1	421.4	387.1	34.36	12.266	
8,000.0	7,994.5	8,028.5	7,994.6	13.6	20.8	75.20	205.7	502.1	421.4	386.9	34.48	12.223	
8,100.0	8,094.5	8,128.5	8,094.6	13.6	20.8	75.20	205.7	502.1	421.4	386.8	34.60	12.181	
8,200.0	8,194.5	8,228.5	8,194.6	13.7	20.9	75.20	205.7	502.1	421.4	386.7	34.72	12.138	
8,300.0	8,294.5	8,328.5	8,294.6	13.8	20.9	75.20	205.7	502.1	421.4	386.6	34.84	12.096	
8,400.0	8,394.5	8,428.5	8,394.6	13.9	21.0	75.20	205.7	502.1	421.4	386.5	34.96	12.054	
8,500.0	8,494.5	8,528.5	8,494.6	14.0	21.0	75.20	205.7	502.1	421.4	386.3	35.08	12.012	
8,600.0	8,594.5	8,628.5	8,594.6	14.0	21.1	75.20	205.7	502.1	421.4	386.2	35.20	11.971	
8,700.0	8,694.5	8,728.5	8,694.6	14.1	21.1	75.20	205.7	502.1	421.4	386.1	35.33	11.929	
8,800.0	8,794.5	8,828.5	8,794.6	14.2	21.2	75.20	205.7	502.1	421.4	386.0	35.45	11.888	
8,900.0	8,894.5	8,928.5	8,894.6	14.3	21.2	75.20	205.7	502.1	421.4	385.8	35.57	11.847	
9,000.0	8,994.5	9,028.5	8,994.6	14.4	21.3	75.20	205.7	502.1	421.4	385.7	35.70	11.806	
9,100.0	9,094.5	9,128.5	9,094.6	14.5	21.3	75.20	205.7	502.1	421.4	385.6	35.82	11.765	
9,200.0	9,194.5	9,228.5	9,194.6	14.5	21.4	75.20	205.7	502.1	421.4	385.5	35.94	11.725	
9,300.0	9,294.5	9,328.5	9,294.6	14.6	21.4	75.20	205.7	502.1	421.4	385.3	36.07	11.684	
9,400.0	9,394.5	9,428.5	9,394.6	14.7	21.5	75.20	205.7	502.1	421.4	385.2	36.19	11.644	
9,500.0	9,494.5	9,528.5	9,494.6	14.8	21.5	75.20	205.7	502.1	421.4	385.1	36.32	11.604	
9,600.0	9,594.5	9,628.5	9,594.6	14.9	21.6	75.20	205.7	502.1	421.4	385.0	36.44	11.564	
9,700.0	9,694.5	9,728.5	9,694.6	15.0	21.6	75.20	205.7	502.1	421.4	384.8	36.57	11.524	
9,800.0	9,794.5	9,828.5	9,794.6	15.0	21.7	75.20	205.7	502.1	421.4	384.7	36.69	11.485	

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 #710H
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 #710H	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, 11165-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		
9,900.0	9,894.5	9,928.5	9,894.6	15.1	21.7	75.20	205.7	502.1	421.4	384.6	36.82	11.446		
10,000.0	9,994.5	10,028.5	9,994.6	15.2	21.8	75.20	205.7	502.1	421.4	384.5	36.94	11.407		
10,100.0	10,094.5	10,128.5	10,094.6	15.3	21.8	75.20	205.7	502.1	421.4	384.3	37.07	11.368		
10,200.0	10,194.5	10,228.5	10,194.6	15.4	21.9	75.20	205.7	502.1	421.4	384.2	37.20	11.329		
10,300.0	10,294.5	10,328.5	10,294.6	15.5	21.9	75.20	205.7	502.1	421.4	384.1	37.32	11.290		
10,400.0	10,394.5	10,428.5	10,394.6	15.5	22.0	75.20	205.7	502.1	421.4	384.0	37.45	11.252		
10,500.0	10,494.5	10,528.5	10,494.6	15.6	22.0	75.20	205.7	502.1	421.4	383.8	37.58	11.214		
10,600.0	10,594.5	10,628.5	10,594.6	15.7	22.1	75.20	205.7	502.1	421.4	383.7	37.71	11.176		
10,700.0	10,694.5	10,728.5	10,694.6	15.8	22.2	75.20	205.7	502.1	421.4	383.6	37.84	11.138		
10,800.0	10,794.5	10,828.5	10,794.6	15.9	22.2	75.20	205.7	502.1	421.4	383.4	37.96	11.100		
10,900.0	10,894.5	10,928.5	10,894.6	15.9	22.3	75.20	205.7	502.1	421.4	383.3	38.09	11.063		
11,000.0	10,994.5	11,028.5	10,994.6	16.0	22.3	75.20	205.7	502.1	421.4	383.2	38.22	11.026		
11,100.0	11,094.5	11,128.5	11,094.6	16.1	22.4	75.20	205.7	502.1	421.4	383.1	38.35	10.990		
11,110.0	11,104.5	11,138.5	11,104.6	16.1	22.4	75.20	205.7	502.1	421.4	383.1	38.36	10.987		
11,200.0	11,194.5	11,218.3	11,184.2	16.2	22.4	74.86	208.2	502.0	422.2	383.7	38.51	10.963		
11,300.0	11,294.5	11,300.0	11,264.8	16.3	22.4	73.10	221.7	502.0	426.8	388.0	38.82	10.994		
11,310.5	11,305.0	11,308.5	11,273.0	16.3	22.4	72.84	223.8	502.0	427.6	388.7	38.86	11.003		
11,350.0	11,344.5	11,339.5	11,302.8	16.3	22.4	71.78	232.4	502.0	430.5	391.5	39.00	11.039		
11,400.0	11,394.2	11,378.5	11,339.5	16.4	22.4	70.32	245.4	501.9	434.3	395.1	39.18	11.084		
11,450.0	11,443.2	11,417.0	11,374.9	16.4	22.5	68.99	260.6	501.9	438.0	398.6	39.37	11.124		
11,500.0	11,491.1	11,450.0	11,404.3	16.5	22.5	67.91	275.6	501.9	441.5	401.9	39.61	11.146		
11,550.0	11,537.6	11,493.0	11,441.2	16.5	22.5	66.75	297.6	501.8	444.7	404.9	39.78	11.178		
11,600.0	11,582.4	11,530.6	11,472.1	16.6	22.5	65.84	319.0	501.7	447.7	407.7	40.00	11.191		
11,650.0	11,625.0	11,567.9	11,501.3	16.7	22.5	65.07	342.3	501.7	450.3	410.0	40.23	11.192		
11,700.0	11,665.2	11,600.0	11,525.1	16.7	22.5	64.49	363.7	501.6	452.5	412.0	40.50	11.172		
11,750.0	11,702.7	11,642.1	11,554.6	16.8	22.6	63.95	393.9	501.5	454.2	413.5	40.68	11.163		
11,800.0	11,737.1	11,679.1	11,578.5	16.9	22.6	63.60	422.0	501.4	455.4	414.5	40.90	11.135		
11,850.0	11,768.3	11,715.9	11,600.5	16.9	22.6	63.40	451.6	501.3	456.2	415.1	41.10	11.100		
11,900.0	11,795.9	11,750.0	11,619.1	17.0	22.6	63.33	480.1	501.3	456.4	415.2	41.29	11.055		
11,950.0	11,819.8	11,789.6	11,638.5	17.0	22.7	63.41	514.6	501.2	456.2	414.7	41.42	11.012		
12,000.0	11,839.8	11,826.5	11,654.4	17.1	22.7	63.63	547.9	501.1	455.4	413.8	41.54	10.963		
12,050.0	11,855.7	11,863.4	11,668.2	17.2	22.7	63.99	582.2	501.0	454.1	412.5	41.62	10.912		
12,100.0	11,867.4	11,900.0	11,679.7	17.2	22.7	64.49	616.9	500.9	452.4	410.7	41.65	10.861		
12,150.0	11,874.8	11,937.7	11,689.1	17.2	22.8	65.13	653.4	500.7	450.2	408.5	41.65	10.809		
12,200.0	11,877.9	11,975.1	11,696.1	17.3	22.8	65.92	690.1	500.6	447.6	406.0	41.60	10.759		
12,210.5	11,878.0	11,983.0	11,697.2	17.3	22.8	66.10	697.9	500.6	447.0	405.4	41.58	10.750		
12,300.0	11,878.0	12,050.0	11,702.8	17.3	22.9	66.75	764.7	500.4	444.1	402.5	41.52	10.694		
12,316.8	11,878.0	12,064.0	11,703.0	17.4	22.9	66.78	778.6	500.4	444.0	402.4	41.55	10.686		
12,400.0	11,878.0	12,147.0	11,703.0	17.5	23.0	66.78	861.6	500.1	444.0	402.1	41.90	10.598		
12,500.0	11,878.0	12,247.0	11,703.0	17.6	23.2	66.78	961.6	499.8	444.1	401.7	42.36	10.482		
12,600.0	11,878.0	12,347.0	11,703.0	17.8	23.4	66.78	1,061.6	499.6	444.1	401.2	42.88	10.356		
12,700.0	11,878.0	12,447.0	11,703.0	18.1	23.6	66.78	1,161.6	499.3	444.1	400.7	43.44	10.223		
12,800.0	11,878.0	12,547.0	11,703.0	18.4	23.8	66.79	1,261.6	499.0	444.2	400.1	44.05	10.082		
12,900.0	11,878.0	12,647.0	11,703.0	18.7	24.1	66.79	1,361.6	498.7	444.2	399.5	44.71	9.936		
13,000.0	11,878.0	12,747.0	11,703.0	19.1	24.3	66.79	1,461.6	498.4	444.2	398.8	45.40	9.785		
13,100.0	11,878.0	12,847.0	11,703.0	19.6	24.6	66.79	1,561.6	498.1	444.3	398.1	46.14	9.630		
13,200.0	11,878.0	12,947.0	11,703.0	20.0	25.0	66.79	1,661.6	497.8	444.3	397.4	46.91	9.472		
13,300.0	11,878.0	13,047.0	11,703.0	20.5	25.3	66.80	1,761.6	497.5	444.3	396.6	47.72	9.312		
13,400.0	11,878.0	13,147.0	11,703.0	21.0	25.7	66.80	1,861.6	497.2	444.4	395.8	48.56	9.152		
13,500.0	11,878.0	13,247.0	11,703.0	21.5	26.1	66.80	1,961.6	496.9	444.4	395.0	49.43	8.991		
13,600.0	11,878.0	13,347.0	11,703.0	22.0	26.5	66.80	2,061.6	496.6	444.5	394.1	50.34	8.830		
13,700.0	11,878.0	13,447.0	11,703.0	22.6	26.9	66.80	2,161.6	496.3	444.5	393.2	51.27	8.670		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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, 11165-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)			
13,800.0	11,878.0	13,547.0	11,703.0	23.1	27.3	66.81	2,261.6	496.1	444.5	392.3	52.23	8.511	
13,900.0	11,878.0	13,647.0	11,703.0	23.7	27.8	66.81	2,361.6	495.8	444.6	391.4	53.22	8.353	
14,000.0	11,878.0	13,747.0	11,703.0	24.3	28.2	66.81	2,461.6	495.5	444.6	390.4	54.23	8.198	
14,100.0	11,878.0	13,847.0	11,703.0	24.9	28.7	66.81	2,561.6	495.2	444.6	389.4	55.27	8.045	
14,200.0	11,878.0	13,947.0	11,703.0	25.5	29.2	66.81	2,661.6	494.9	444.7	388.4	56.32	7.895	
14,300.0	11,878.0	14,047.0	11,703.0	26.1	29.7	66.82	2,761.6	494.6	444.7	387.3	57.40	7.748	
14,400.0	11,878.0	14,147.0	11,703.0	26.7	30.2	66.82	2,861.6	494.3	444.8	386.3	58.50	7.603	
14,500.0	11,878.0	14,247.0	11,703.0	27.3	30.8	66.82	2,961.6	494.0	444.8	385.2	59.61	7.461	
14,600.0	11,878.0	14,347.0	11,703.0	27.9	31.3	66.82	3,061.6	493.7	444.8	384.1	60.75	7.323	
14,700.0	11,878.0	14,447.0	11,703.0	28.6	31.9	66.83	3,161.6	493.4	444.9	383.0	61.89	7.187	
14,800.0	11,878.0	14,547.0	11,703.0	29.2	32.4	66.83	3,261.6	493.1	444.9	381.8	63.06	7.055	
14,900.0	11,878.0	14,647.0	11,703.0	29.9	33.0	66.83	3,361.6	492.8	444.9	380.7	64.24	6.926	
15,000.0	11,878.0	14,747.0	11,703.0	30.5	33.6	66.83	3,461.6	492.5	445.0	379.5	65.43	6.801	
15,100.0	11,878.0	14,847.0	11,703.0	31.2	34.2	66.83	3,561.6	492.3	445.0	378.4	66.64	6.678	
15,200.0	11,878.0	14,947.0	11,703.0	31.9	34.8	66.84	3,661.6	492.0	445.0	377.2	67.86	6.559	
15,300.0	11,878.0	15,047.0	11,703.0	32.5	35.4	66.84	3,761.6	491.7	445.1	376.0	69.09	6.442	
15,400.0	11,878.0	15,147.0	11,703.0	33.2	36.0	66.84	3,861.6	491.4	445.1	374.8	70.33	6.329	
15,500.0	11,878.0	15,247.0	11,703.0	33.9	36.6	66.84	3,961.6	491.1	445.2	373.6	71.58	6.219	
15,600.0	11,878.0	15,347.0	11,703.0	34.6	37.2	66.84	4,061.6	490.8	445.2	372.4	72.84	6.112	
15,700.0	11,878.0	15,447.0	11,703.0	35.2	37.8	66.85	4,161.6	490.5	445.2	371.1	74.11	6.007	
15,800.0	11,878.0	15,547.0	11,703.0	35.9	38.5	66.85	4,261.6	490.2	445.3	369.9	75.40	5.906	
15,900.0	11,878.0	15,647.0	11,703.0	36.6	39.1	66.85	4,361.6	489.9	445.3	368.6	76.68	5.807	
16,000.0	11,878.0	15,747.0	11,703.0	37.3	39.7	66.85	4,461.6	489.6	445.3	367.4	77.98	5.711	
16,100.0	11,878.0	15,847.0	11,703.0	38.0	40.4	66.85	4,561.6	489.3	445.4	366.1	79.29	5.617	
16,200.0	11,878.0	15,947.0	11,703.0	38.7	41.0	66.86	4,661.6	489.0	445.4	364.8	80.60	5.526	
16,300.0	11,878.0	16,047.0	11,703.0	39.4	41.7	66.86	4,761.6	488.8	445.5	363.5	81.92	5.438	
16,400.0	11,878.0	16,147.0	11,703.0	40.1	42.4	66.86	4,861.6	488.5	445.5	362.2	83.24	5.352	
16,500.0	11,878.0	16,247.0	11,703.0	40.8	43.0	66.86	4,961.6	488.2	445.5	361.0	84.58	5.268	
16,600.0	11,878.0	16,347.0	11,703.0	41.5	43.7	66.86	5,061.6	487.9	445.6	359.7	85.91	5.186	
16,700.0	11,878.0	16,447.0	11,703.0	42.2	44.3	66.87	5,161.6	487.6	445.6	358.3	87.26	5.107	
16,800.0	11,878.0	16,547.0	11,703.0	42.9	45.0	66.87	5,261.6	487.3	445.6	357.0	88.61	5.029	
16,900.0	11,878.0	16,647.0	11,703.0	43.6	45.7	66.87	5,361.6	487.0	445.7	355.7	89.96	4.954	
17,000.0	11,878.0	16,747.0	11,703.0	44.4	46.4	66.87	5,461.6	486.7	445.7	354.4	91.32	4.881	
17,100.0	11,878.0	16,847.0	11,703.0	45.1	47.0	66.88	5,561.6	486.4	445.7	353.1	92.69	4.809	
17,200.0	11,878.0	16,947.0	11,703.0	45.8	47.7	66.88	5,661.6	486.1	445.8	351.7	94.06	4.740	
17,300.0	11,878.0	17,047.0	11,703.0	46.5	48.4	66.88	5,761.6	485.8	445.8	350.4	95.43	4.672	
17,400.0	11,878.0	17,147.0	11,703.0	47.2	49.1	66.88	5,861.6	485.5	445.9	349.1	96.81	4.606	
17,500.0	11,878.0	17,247.0	11,703.0	48.0	49.8	66.88	5,961.6	485.2	445.9	347.7	98.19	4.541	
17,600.0	11,878.0	17,347.0	11,703.0	48.7	50.5	66.89	6,061.6	485.0	445.9	346.4	99.57	4.478	
17,700.0	11,878.0	17,447.0	11,703.0	49.4	51.2	66.89	6,161.6	484.7	446.0	345.0	100.96	4.417	
17,800.0	11,878.0	17,547.0	11,703.0	50.1	51.9	66.89	6,261.6	484.4	446.0	343.7	102.36	4.357	
17,900.0	11,878.0	17,647.0	11,703.0	50.9	52.6	66.89	6,361.6	484.1	446.0	342.3	103.75	4.299	
18,000.0	11,878.0	17,747.0	11,703.0	51.6	53.3	66.89	6,461.6	483.8	446.1	340.9	105.15	4.242	
18,100.0	11,878.0	17,847.0	11,703.0	52.3	54.0	66.90	6,561.6	483.5	446.1	339.6	106.55	4.187	
18,200.0	11,878.0	17,947.0	11,703.0	53.0	54.7	66.90	6,661.6	483.2	446.2	338.2	107.96	4.133	
18,300.0	11,878.0	18,047.0	11,703.0	53.8	55.4	66.90	6,761.6	482.9	446.2	336.8	109.37	4.080	
18,400.0	11,878.0	18,147.0	11,703.0	54.5	56.1	66.90	6,861.6	482.6	446.2	335.4	110.78	4.028	
18,500.0	11,878.0	18,247.0	11,703.0	55.2	56.8	66.90	6,961.6	482.3	446.3	334.1	112.19	3.978	
18,600.0	11,878.0	18,347.0	11,703.0	56.0	57.5	66.91	7,061.6	482.0	446.3	332.7	113.61	3.928	
18,700.0	11,878.0	18,447.0	11,703.0	56.7	58.2	66.91	7,161.6	481.7	446.3	331.3	115.03	3.880	
18,800.0	11,878.0	18,547.0	11,703.0	57.4	58.9	66.91	7,261.6	481.4	446.4	329.9	116.45	3.833	
18,900.0	11,878.0	18,647.0	11,703.0	58.2	59.6	66.91	7,361.6	481.2	446.4	328.5	117.87	3.787	

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 #710H
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 #710H	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, 11165-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	
19,000.0	11,878.0	18,747.0	11,703.0	58.9	60.3	66.91	7,461.6	480.9	446.4	327.1	119.30	3.742	
19,100.0	11,878.0	18,847.0	11,703.0	59.6	61.1	66.92	7,561.6	480.6	446.5	325.8	120.73	3.698	
19,200.0	11,878.0	18,947.0	11,703.0	60.4	61.8	66.92	7,661.6	480.3	446.5	324.4	122.16	3.655	
19,300.0	11,878.0	19,047.0	11,703.0	61.1	62.5	66.92	7,761.6	480.0	446.6	323.0	123.59	3.613	
19,400.0	11,878.0	19,147.0	11,703.0	61.9	63.2	66.92	7,861.6	479.7	446.6	321.6	125.02	3.572	
19,500.0	11,878.0	19,247.0	11,703.0	62.6	63.9	66.93	7,961.6	479.4	446.6	320.2	126.46	3.532	
19,600.0	11,878.0	19,347.0	11,703.0	63.3	64.6	66.93	8,061.6	479.1	446.7	318.8	127.90	3.492	
19,700.0	11,878.0	19,447.0	11,703.0	64.1	65.4	66.93	8,161.6	478.8	446.7	317.4	129.34	3.454	
19,800.0	11,878.0	19,547.0	11,703.0	64.8	66.1	66.93	8,261.6	478.5	446.7	316.0	130.78	3.416	
19,900.0	11,878.0	19,647.0	11,703.0	65.6	66.8	66.93	8,361.6	478.2	446.8	314.6	132.22	3.379	
20,000.0	11,878.0	19,747.0	11,703.0	66.3	67.5	66.94	8,461.6	477.9	446.8	313.2	133.67	3.343	
20,100.0	11,878.0	19,847.0	11,703.0	67.0	68.3	66.94	8,561.6	477.7	446.9	311.7	135.11	3.307	
20,200.0	11,878.0	19,947.0	11,703.0	67.8	69.0	66.94	8,661.6	477.4	446.9	310.3	136.56	3.273	
20,300.0	11,878.0	20,047.0	11,703.0	68.5	69.7	66.94	8,761.6	477.1	446.9	308.9	138.01	3.238	
20,400.0	11,878.0	20,147.0	11,703.0	69.3	70.4	66.94	8,861.6	476.8	447.0	307.5	139.46	3.205	
20,500.0	11,878.0	20,247.0	11,703.0	70.0	71.2	66.95	8,961.6	476.5	447.0	306.1	140.91	3.172	
20,600.0	11,878.0	20,347.0	11,703.0	70.8	71.9	66.95	9,061.6	476.2	447.0	304.7	142.36	3.140	
20,700.0	11,878.0	20,447.0	11,703.0	71.5	72.6	66.95	9,161.6	475.9	447.1	303.3	143.81	3.109	
20,800.0	11,878.0	20,547.0	11,703.0	72.3	73.4	66.95	9,261.6	475.6	447.1	301.8	145.27	3.078	
20,900.0	11,878.0	20,647.0	11,703.0	73.0	74.1	66.95	9,361.6	475.3	447.1	300.4	146.73	3.048	
21,000.0	11,878.0	20,747.0	11,703.0	73.8	74.8	66.96	9,461.6	475.0	447.2	299.0	148.18	3.018	
21,100.0	11,878.0	20,847.0	11,703.0	74.5	75.6	66.96	9,561.6	474.7	447.2	297.6	149.64	2.989	
21,200.0	11,878.0	20,947.0	11,703.0	75.2	76.3	66.96	9,661.6	474.4	447.3	296.2	151.10	2.960	
21,300.0	11,878.0	21,047.0	11,703.0	76.0	77.0	66.96	9,761.6	474.1	447.3	294.7	152.56	2.932	
21,400.0	11,878.0	21,147.0	11,703.0	76.7	77.8	66.96	9,861.6	473.9	447.3	293.3	154.02	2.904	
21,500.0	11,878.0	21,247.0	11,703.0	77.5	78.5	66.97	9,961.6	473.6	447.4	291.9	155.49	2.877	
21,600.0	11,878.0	21,347.0	11,703.0	78.2	79.2	66.97	10,061.6	473.3	447.4	290.5	156.95	2.851	
21,700.0	11,878.0	21,447.0	11,703.0	79.0	80.0	66.97	10,161.6	473.0	447.4	289.0	158.42	2.825	
21,800.0	11,878.0	21,547.0	11,703.0	79.7	80.7	66.97	10,261.6	472.7	447.5	287.6	159.88	2.799	
21,900.0	11,878.0	21,647.0	11,703.0	80.5	81.4	66.97	10,361.6	472.4	447.5	286.2	161.35	2.774	
22,000.0	11,878.0	21,747.0	11,703.0	81.2	82.2	66.98	10,461.6	472.1	447.6	284.7	162.81	2.749	
22,100.0	11,878.0	21,847.0	11,703.0	82.0	82.9	66.98	10,561.6	471.8	447.6	283.3	164.28	2.725	
22,200.0	11,878.0	21,947.0	11,703.0	82.7	83.6	66.98	10,661.6	471.5	447.6	281.9	165.75	2.701	
22,244.0	11,878.0	21,991.0	11,703.0	83.1	84.0	66.98	10,705.6	471.4	447.6	281.2	166.40	2.690	
22,294.0	11,878.0	22,041.0	11,703.0	83.4	84.3	66.98	10,755.6	471.2	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 #710H
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 #710H	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	90.36	-0.4	60.0	60.0				
100.0	100.0	99.9	99.9	3.0	3.0	90.36	-0.4	60.0	60.0	53.5	6.52	9.198	
200.0	200.0	199.9	199.9	3.2	3.2	90.36	-0.4	60.0	60.0	53.2	6.76	8.871	
300.0	300.0	299.9	299.9	3.3	3.3	90.36	-0.4	60.0	60.0	53.0	6.99	8.578	
400.0	400.0	399.9	399.9	3.4	3.4	90.36	-0.4	60.0	60.0	52.8	7.21	8.312	
500.0	500.0	499.9	499.9	3.5	3.5	90.36	-0.4	60.0	60.0	52.5	7.43	8.071	
600.0	600.0	599.9	599.9	3.7	3.7	90.36	-0.4	60.0	60.0	52.3	7.64	7.849	
700.0	700.0	699.9	699.9	3.8	3.8	90.36	-0.4	60.0	60.0	52.1	7.84	7.646	
800.0	800.0	799.9	799.9	3.9	3.9	90.36	-0.4	60.0	60.0	51.9	8.04	7.457	
900.0	900.0	899.9	899.9	4.0	4.0	90.36	-0.4	60.0	60.0	51.7	8.23	7.283	
1,000.0	1,000.0	999.9	999.9	4.2	4.2	90.36	-0.4	60.0	60.0	51.5	8.42	7.120	
1,100.0	1,100.0	1,099.9	1,099.9	4.3	4.3	90.36	-0.4	60.0	60.0	51.4	8.61	6.968	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	90.36	-0.4	60.0	60.0	51.2	8.79	6.825	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	90.36	-0.4	60.0	60.0	51.0	8.96	6.691	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	90.36	-0.4	60.0	60.0	50.8	9.13	6.565	
1,500.0	1,500.0	1,499.9	1,499.9	4.8	4.8	90.36	-0.4	60.0	60.0	50.7	9.30	6.446	
1,600.0	1,600.0	1,598.6	1,598.6	4.9	4.9	46.94	0.3	61.1	59.9	50.3	9.55	6.272	
1,700.0	1,699.8	1,697.2	1,697.2	5.1	5.0	48.68	2.2	64.4	59.7	49.7	9.94	5.999	
1,750.0	1,749.7	1,746.6	1,746.4	5.2	5.1	50.00	3.6	66.9	59.5	49.4	10.08	5.905	
1,761.3	1,760.9	1,757.7	1,757.5	5.2	5.1	50.32	4.0	67.5	59.5	49.4	10.11	5.886 CC, ES	
1,800.0	1,799.5	1,795.9	1,795.6	5.3	5.2	51.28	5.3	69.9	59.7	49.5	10.22	5.842	
1,900.0	1,899.1	1,894.6	1,893.9	5.5	5.4	52.74	9.8	77.6	61.6	51.0	10.59	5.818	
2,000.0	1,998.7	1,993.2	1,991.9	5.7	5.7	52.73	15.5	87.5	65.6	54.7	10.99	5.973	
2,100.0	2,098.4	2,091.1	2,088.7	5.9	5.9	51.69	22.2	99.7	72.0	60.6	11.34	6.348	
2,200.0	2,198.0	2,188.0	2,184.2	6.2	6.2	50.70	28.7	114.9	81.6	69.8	11.81	6.911	
2,300.0	2,297.6	2,285.1	2,279.3	6.5	6.4	49.90	35.0	133.3	94.5	82.2	12.23	7.724	
2,400.0	2,397.2	2,384.1	2,376.2	6.7	6.7	49.27	41.3	152.9	108.2	95.5	12.76	8.486	
2,500.0	2,496.8	2,483.1	2,473.1	7.0	7.1	48.79	47.7	172.5	122.0	108.7	13.31	9.165	
2,600.0	2,596.4	2,582.2	2,569.9	7.3	7.4	48.40	54.1	192.0	135.8	121.9	13.89	9.777	
2,700.0	2,696.1	2,681.2	2,666.8	7.6	7.8	48.09	60.4	211.6	149.6	135.1	14.48	10.329	
2,800.0	2,795.7	2,780.3	2,763.7	8.0	8.2	47.83	66.8	231.2	163.4	148.3	15.09	10.826	
2,900.0	2,895.3	2,879.3	2,860.6	8.3	8.6	47.61	73.2	250.8	177.2	161.4	15.71	11.276	
2,937.8	2,933.0	2,916.8	2,897.2	8.4	8.7	47.53	75.6	258.2	182.4	166.4	15.92	11.452	
3,000.0	2,995.0	2,978.3	2,957.4	8.6	8.9	47.41	79.5	270.4	191.2	174.9	16.30	11.730	
3,100.0	3,094.7	3,077.2	3,054.1	8.9	9.3	46.96	85.9	289.9	206.3	189.3	16.96	12.164	
3,200.0	3,194.6	3,175.8	3,150.5	9.2	9.8	46.26	92.2	309.4	222.6	205.0	17.64	12.619	
3,300.0	3,294.5	3,274.1	3,246.8	9.5	10.2	45.39	98.5	328.9	240.2	221.8	18.34	13.098	
3,400.0	3,394.5	3,372.2	3,342.7	9.7	10.6	44.38	104.8	348.3	259.0	240.0	19.03	13.609	
3,437.8	3,432.4	3,409.2	3,378.9	9.8	10.7	87.98	107.2	355.6	266.5	247.2	19.26	13.834	
3,500.0	3,494.5	3,470.0	3,438.4	9.8	11.0	87.25	111.1	367.6	279.0	259.3	19.63	14.211	
3,600.0	3,594.5	3,567.9	3,534.1	9.9	11.4	86.20	117.4	386.9	299.1	278.9	20.25	14.771	
3,700.0	3,694.5	3,665.7	3,629.7	10.0	11.8	85.29	123.7	406.3	319.3	298.5	20.87	15.303	
3,800.0	3,794.5	3,763.5	3,725.4	10.0	12.3	84.48	130.0	425.6	339.6	318.1	21.48	15.809	
3,900.0	3,894.5	3,861.3	3,821.1	10.1	12.7	83.77	136.3	445.0	360.0	337.9	22.10	16.289	
4,000.0	3,994.5	3,959.1	3,916.8	10.2	13.1	83.13	142.5	464.3	380.4	357.7	22.71	16.746	
4,100.0	4,094.5	4,056.9	4,012.5	10.3	13.6	82.56	148.8	483.7	400.8	377.5	23.33	17.180	
4,200.0	4,194.5	4,154.8	4,108.1	10.4	14.0	82.04	155.1	503.0	421.3	397.3	23.95	17.592	
4,300.0	4,294.5	4,252.6	4,203.8	10.5	14.4	81.57	161.4	522.3	441.8	417.2	24.56	17.984	
4,400.0	4,394.5	4,350.4	4,299.5	10.6	14.9	81.14	167.7	541.7	462.3	437.1	25.18	18.357	
4,500.0	4,494.5	4,448.2	4,395.2	10.6	15.3	80.75	174.0	561.0	482.8	457.0	25.80	18.712	
4,600.0	4,594.5	4,546.0	4,490.8	10.7	15.8	80.39	180.2	580.4	503.4	477.0	26.43	19.050	
4,700.0	4,694.5	4,643.8	4,586.5	10.8	16.2	80.06	186.5	599.7	524.0	497.0	27.05	19.372	

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 #710H
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 #710H	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							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,800.0	4,794.5	4,741.6	4,682.2	10.9	16.7	79.75	192.8	619.0	544.6	516.9	27.67	19.679		
4,900.0	4,894.5	4,839.5	4,777.9	11.0	17.1	79.47	199.1	638.4	565.2	536.9	28.30	19.972		
5,000.0	4,994.5	4,937.3	4,873.6	11.1	17.5	79.20	205.4	657.7	585.8	556.9	28.93	20.251		
5,100.0	5,094.5	5,035.1	4,969.2	11.1	18.0	78.96	211.7	677.1	606.5	576.9	29.56	20.518		
5,200.0	5,194.5	5,132.9	5,064.9	11.2	18.4	78.73	218.0	696.4	627.1	596.9	30.19	20.773		
5,300.0	5,294.5	5,230.7	5,160.6	11.3	18.9	78.51	224.2	715.8	647.8	617.0	30.82	21.017		
5,400.0	5,394.5	5,328.5	5,256.3	11.4	19.3	78.31	230.5	735.1	668.5	637.0	31.46	21.251		
5,500.0	5,494.5	5,426.3	5,351.9	11.5	19.8	78.12	236.8	754.4	689.1	657.0	32.09	21.475		
5,600.0	5,594.5	5,524.2	5,447.6	11.6	20.2	77.94	243.1	773.8	709.8	677.1	32.73	21.689		
5,700.0	5,694.5	5,622.0	5,543.3	11.6	20.7	77.77	249.4	793.1	730.5	697.1	33.36	21.895		
5,800.0	5,794.5	5,719.8	5,639.0	11.7	21.2	77.61	255.7	812.5	751.2	717.2	34.00	22.092		
5,900.0	5,894.5	5,817.6	5,734.6	11.8	21.6	77.46	261.9	831.8	771.9	737.3	34.64	22.282		
6,000.0	5,994.5	5,915.4	5,830.3	11.9	22.1	77.32	268.2	851.1	792.6	757.3	35.28	22.467		
6,100.0	6,094.5	6,047.8	5,960.3	12.0	22.7	77.15	275.9	874.9	811.4	775.3	36.12	22.465		
6,200.0	6,194.5	6,186.2	6,097.3	12.1	23.3	77.03	282.0	893.6	825.6	788.7	36.91	22.365		
6,300.0	6,294.5	6,326.2	6,236.7	12.1	23.9	76.95	286.1	906.1	834.9	797.4	37.57	22.222		
6,400.0	6,394.5	6,467.1	6,377.5	12.2	24.3	76.91	288.0	912.1	839.4	801.4	38.04	22.065		
6,500.0	6,494.5	6,584.1	6,494.4	12.3	24.5	76.91	288.2	912.6	839.8	801.6	38.18	21.998		
6,600.0	6,594.5	6,684.1	6,594.4	12.4	24.5	76.91	288.2	912.6	839.8	801.6	38.27	21.944		
6,700.0	6,694.5	6,784.1	6,694.4	12.5	24.5	76.91	288.2	912.6	839.8	801.5	38.37	21.889		
6,800.0	6,794.5	6,884.1	6,794.4	12.6	24.6	76.91	288.2	912.6	839.8	801.4	38.46	21.834		
6,900.0	6,894.5	6,984.1	6,894.4	12.6	24.6	76.91	288.2	912.6	839.8	801.3	38.56	21.779		
7,000.0	6,994.5	7,084.1	6,994.4	12.7	24.7	76.91	288.2	912.6	839.8	801.2	38.66	21.724		
7,100.0	7,094.5	7,184.1	7,094.4	12.8	24.7	76.91	288.2	912.6	839.8	801.1	38.76	21.669		
7,200.0	7,194.5	7,284.1	7,194.4	12.9	24.7	76.91	288.2	912.6	839.8	801.0	38.86	21.614		
7,300.0	7,294.5	7,384.1	7,294.4	13.0	24.8	76.91	288.2	912.6	839.8	800.9	38.95	21.559		
7,400.0	7,394.5	7,484.1	7,394.4	13.1	24.8	76.91	288.2	912.6	839.8	800.8	39.05	21.505		
7,500.0	7,494.5	7,584.1	7,494.4	13.1	24.8	76.91	288.2	912.6	839.8	800.7	39.15	21.450		
7,600.0	7,594.5	7,684.1	7,594.4	13.2	24.9	76.91	288.2	912.6	839.8	800.6	39.25	21.395		
7,700.0	7,694.5	7,784.1	7,694.4	13.3	24.9	76.91	288.2	912.6	839.8	800.5	39.35	21.341		
7,800.0	7,794.5	7,884.1	7,794.4	13.4	24.9	76.91	288.2	912.6	839.8	800.4	39.45	21.286		
7,900.0	7,894.5	7,984.1	7,894.4	13.5	25.0	76.91	288.2	912.6	839.8	800.3	39.56	21.232		
8,000.0	7,994.5	8,084.1	7,994.4	13.6	25.0	76.91	288.2	912.6	839.8	800.2	39.66	21.177		
8,100.0	8,094.5	8,184.1	8,094.4	13.6	25.1	76.91	288.2	912.6	839.8	800.1	39.76	21.123		
8,200.0	8,194.5	8,284.1	8,194.4	13.7	25.1	76.91	288.2	912.6	839.8	800.0	39.86	21.069		
8,300.0	8,294.5	8,384.1	8,294.4	13.8	25.1	76.91	288.2	912.6	839.8	799.9	39.96	21.014		
8,400.0	8,394.5	8,484.1	8,394.4	13.9	25.2	76.91	288.2	912.6	839.8	799.8	40.07	20.960		
8,500.0	8,494.5	8,584.1	8,494.4	14.0	25.2	76.91	288.2	912.6	839.8	799.7	40.17	20.906		
8,600.0	8,594.5	8,684.1	8,594.4	14.0	25.2	76.91	288.2	912.6	839.8	799.6	40.28	20.852		
8,700.0	8,694.5	8,784.1	8,694.4	14.1	25.3	76.91	288.2	912.6	839.8	799.4	40.38	20.798		
8,800.0	8,794.5	8,884.1	8,794.4	14.2	25.3	76.91	288.2	912.6	839.8	799.3	40.48	20.744		
8,900.0	8,894.5	8,984.1	8,894.4	14.3	25.4	76.91	288.2	912.6	839.8	799.2	40.59	20.691		
9,000.0	8,994.5	9,084.1	8,994.4	14.4	25.4	76.91	288.2	912.6	839.8	799.1	40.70	20.637		
9,100.0	9,094.5	9,184.1	9,094.4	14.5	25.4	76.91	288.2	912.6	839.8	799.0	40.80	20.583		
9,200.0	9,194.5	9,284.1	9,194.4	14.5	25.5	76.91	288.2	912.6	839.8	798.9	40.91	20.530		
9,300.0	9,294.5	9,384.1	9,294.4	14.6	25.5	76.91	288.2	912.6	839.8	798.8	41.01	20.477		
9,400.0	9,394.5	9,484.1	9,394.4	14.7	25.6	76.91	288.2	912.6	839.8	798.7	41.12	20.423		
9,500.0	9,494.5	9,584.1	9,494.4	14.8	25.6	76.91	288.2	912.6	839.8	798.6	41.23	20.370		
9,600.0	9,594.5	9,684.1	9,594.4	14.9	25.6	76.91	288.2	912.6	839.8	798.5	41.34	20.317		
9,700.0	9,694.5	9,784.1	9,694.4	15.0	25.7	76.91	288.2	912.6	839.8	798.4	41.44	20.264		
9,800.0	9,794.5	9,884.1	9,794.4	15.0	25.7	76.91	288.2	912.6	839.8	798.3	41.55	20.211		
9,900.0	9,894.5	9,984.1	9,894.4	15.1	25.8	76.91	288.2	912.6	839.8	798.2	41.66	20.159		

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 #710H
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 #710H	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)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,000.0	9,994.5	10,084.1	9,994.4	15.2	25.8	76.91	288.2	912.6	839.8	798.1	41.77	20.106		
10,100.0	10,094.5	10,184.1	10,094.4	15.3	25.9	76.91	288.2	912.6	839.8	797.9	41.88	20.054		
10,200.0	10,194.5	10,284.1	10,194.4	15.4	25.9	76.91	288.2	912.6	839.8	797.8	41.99	20.001		
10,300.0	10,294.5	10,384.1	10,294.4	15.5	25.9	76.91	288.2	912.6	839.8	797.7	42.10	19.949		
10,400.0	10,394.5	10,484.1	10,394.4	15.5	26.0	76.91	288.2	912.6	839.8	797.6	42.21	19.897		
10,500.0	10,494.5	10,584.1	10,494.4	15.6	26.0	76.91	288.2	912.6	839.8	797.5	42.32	19.845		
10,600.0	10,594.5	10,684.1	10,594.4	15.7	26.1	76.91	288.2	912.6	839.8	797.4	42.43	19.793		
10,700.0	10,694.5	10,784.1	10,694.4	15.8	26.1	76.91	288.2	912.6	839.8	797.3	42.54	19.741		
10,800.0	10,794.5	10,884.1	10,794.4	15.9	26.2	76.91	288.2	912.6	839.8	797.2	42.65	19.689		
10,900.0	10,894.5	10,984.1	10,894.4	15.9	26.2	76.91	288.2	912.6	839.8	797.1	42.77	19.638		
11,000.0	10,994.5	11,084.1	10,994.4	16.0	26.2	76.91	288.2	912.6	839.8	796.9	42.88	19.586		
11,100.0	11,094.5	11,184.1	11,094.4	16.1	26.3	76.91	288.2	912.6	839.8	796.8	42.99	19.535		
11,200.0	11,194.5	11,284.1	11,194.4	16.2	26.3	76.91	288.2	912.6	839.8	796.7	43.10	19.484		
11,300.0	11,294.5	11,384.1	11,294.4	16.3	26.4	76.91	288.2	912.6	839.8	796.6	43.22	19.434		
11,310.5	11,305.0	11,394.6	11,305.0	16.3	26.4	76.91	288.2	912.6	839.8	796.6	43.22	19.430		
11,350.0	11,344.5	11,424.6	11,334.9	16.3	26.4	77.13	288.9	912.6	839.7	796.4	43.30	19.395		
11,400.0	11,394.2	11,462.3	11,372.5	16.4	26.4	77.23	292.1	912.6	839.4	796.0	43.38	19.351		
11,450.0	11,443.2	11,500.0	11,409.7	16.4	26.4	77.41	297.7	912.6	838.9	795.4	43.44	19.312		
11,500.0	11,491.1	11,537.9	11,446.8	16.5	26.4	77.67	305.8	912.6	838.1	794.6	43.49	19.272		
11,550.0	11,537.6	11,575.9	11,483.3	16.5	26.4	78.00	316.3	912.6	837.1	793.6	43.53	19.231		
11,600.0	11,582.4	11,614.1	11,519.2	16.6	26.4	78.41	329.3	912.5	836.0	792.4	43.56	19.192		
11,650.0	11,625.0	11,650.0	11,552.1	16.7	26.5	78.86	343.7	912.5	834.6	791.1	43.58	19.152		
11,700.0	11,665.2	11,691.2	11,588.6	16.7	26.5	79.43	362.7	912.4	833.2	789.6	43.58	19.119		
11,750.0	11,702.7	11,730.1	11,621.8	16.8	26.5	80.03	383.1	912.4	831.6	788.1	43.57	19.088		
11,800.0	11,737.1	11,769.5	11,653.8	16.9	26.5	80.71	405.8	912.3	830.0	786.5	43.55	19.060		
11,850.0	11,768.3	11,809.2	11,684.6	16.9	26.5	81.44	431.0	912.2	828.4	784.9	43.51	19.037		
11,900.0	11,795.9	11,850.0	11,714.2	17.0	26.5	82.23	459.1	912.2	826.8	783.3	43.47	19.018		
11,950.0	11,819.8	11,890.2	11,741.3	17.0	26.5	83.06	488.6	912.1	825.2	781.8	43.42	19.004		
12,000.0	11,839.8	11,931.5	11,767.1	17.1	26.6	83.95	521.0	912.0	823.7	780.3	43.37	18.992		
12,050.0	11,855.7	11,973.5	11,790.7	17.2	26.6	84.87	555.6	911.9	822.3	779.0	43.32	18.983		
12,100.0	11,867.4	12,016.2	11,812.2	17.2	26.6	85.84	592.6	911.8	821.2	777.9	43.28	18.974		
12,150.0	11,874.8	12,059.8	11,831.1	17.2	26.6	86.83	631.8	911.7	820.2	776.9	43.25	18.964		
12,200.0	11,877.9	12,104.3	11,847.3	17.3	26.7	87.85	673.3	911.6	819.5	776.2	43.24	18.950		
12,210.5	11,878.0	12,113.8	11,850.4	17.3	26.7	88.07	682.3	911.6	819.4	776.1	43.25	18.947		
12,300.0	11,878.0	12,198.0	11,870.7	17.3	26.7	89.49	763.9	911.3	818.9	775.6	43.37	18.883		
12,324.0	11,878.0	12,221.5	11,874.2	17.4	26.8	89.74	787.2	911.3	818.9	775.5	43.44	18.853		
12,400.0	11,878.0	12,297.2	11,879.0	17.5	26.9	90.08	862.7	911.1	819.0	775.3	43.71	18.738		
12,500.0	11,878.0	12,397.2	11,879.0	17.6	27.0	90.08	962.7	910.8	819.0	774.9	44.15	18.549		
12,600.0	11,878.0	12,497.2	11,879.0	17.8	27.1	90.08	1,062.7	910.5	819.1	774.4	44.65	18.345		
12,700.0	11,878.0	12,597.2	11,879.0	18.1	27.3	90.08	1,162.7	910.2	819.1	773.9	45.19	18.127		
12,800.0	11,878.0	12,697.2	11,879.0	18.4	27.5	90.08	1,262.7	910.0	819.2	773.4	45.77	17.898		
12,900.0	11,878.0	12,797.2	11,879.0	18.7	27.7	90.08	1,362.7	909.7	819.2	772.9	46.40	17.658		
13,000.0	11,878.0	12,897.2	11,879.0	19.1	27.9	90.08	1,462.7	909.4	819.3	772.2	47.06	17.409		
13,100.0	11,878.0	12,997.2	11,879.0	19.6	28.2	90.08	1,562.7	909.1	819.4	771.6	47.77	17.154		
13,200.0	11,878.0	13,097.2	11,879.0	20.0	28.5	90.08	1,662.7	908.9	819.4	770.9	48.51	16.893		
13,300.0	11,878.0	13,197.2	11,879.0	20.5	28.8	90.08	1,762.7	908.6	819.5	770.2	49.28	16.628		
13,400.0	11,878.0	13,297.2	11,879.0	21.0	29.1	90.08	1,862.7	908.3	819.5	769.4	50.09	16.360		
13,500.0	11,878.0	13,397.2	11,879.0	21.5	29.4	90.08	1,962.7	908.0	819.6	768.7	50.94	16.091		
13,600.0	11,878.0	13,497.2	11,879.0	22.0	29.8	90.08	2,062.7	907.8	819.7	767.8	51.81	15.821		
13,700.0	11,878.0	13,597.2	11,879.0	22.6	30.1	90.08	2,162.7	907.5	819.7	767.0	52.71	15.552		
13,800.0	11,878.0	13,697.2	11,879.0	23.1	30.5	90.08	2,262.7	907.2	819.8	766.1	53.64	15.284		
13,900.0	11,878.0	13,797.2	11,879.0	23.7	30.9	90.08	2,362.7	906.9	819.8	765.2	54.59	15.017		

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 #710H
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 #710H	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		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	11,878.0	13,897.2	11,879.0	24.3	31.3	90.08	2,462.7	906.7	819.9	764.3	55.57	14.754	
14,100.0	11,878.0	13,997.2	11,879.0	24.9	31.8	90.08	2,562.7	906.4	819.9	763.4	56.57	14.493	
14,200.0	11,878.0	14,097.2	11,879.0	25.5	32.2	90.08	2,662.7	906.1	820.0	762.4	57.60	14.237	
14,300.0	11,878.0	14,197.2	11,879.0	26.1	32.7	90.08	2,762.7	905.8	820.1	761.4	58.64	13.984	
14,400.0	11,878.0	14,297.2	11,879.0	26.7	33.1	90.08	2,862.7	905.6	820.1	760.4	59.71	13.735	
14,500.0	11,878.0	14,397.2	11,879.0	27.3	33.6	90.08	2,962.7	905.3	820.2	759.4	60.79	13.491	
14,600.0	11,878.0	14,497.2	11,879.0	27.9	34.1	90.08	3,062.7	905.0	820.2	758.3	61.89	13.252	
14,700.0	11,878.0	14,597.2	11,879.0	28.6	34.6	90.08	3,162.7	904.7	820.3	757.3	63.01	13.018	
14,800.0	11,878.0	14,697.2	11,879.0	29.2	35.1	90.08	3,262.7	904.5	820.3	756.2	64.15	12.788	
14,900.0	11,878.0	14,797.2	11,879.0	29.9	35.6	90.08	3,362.7	904.2	820.4	755.1	65.30	12.564	
15,000.0	11,878.0	14,897.2	11,879.0	30.5	36.2	90.08	3,462.7	903.9	820.5	754.0	66.46	12.345	
15,100.0	11,878.0	14,997.2	11,879.0	31.2	36.7	90.08	3,562.7	903.6	820.5	752.9	67.64	12.131	
15,200.0	11,878.0	15,097.2	11,879.0	31.9	37.2	90.08	3,662.7	903.4	820.6	751.7	68.83	11.922	
15,300.0	11,878.0	15,197.2	11,879.0	32.5	37.8	90.08	3,762.7	903.1	820.6	750.6	70.03	11.718	
15,400.0	11,878.0	15,297.2	11,879.0	33.2	38.4	90.08	3,862.7	902.8	820.7	749.4	71.25	11.519	
15,500.0	11,878.0	15,397.2	11,879.0	33.9	38.9	90.08	3,962.7	902.5	820.7	748.3	72.47	11.325	
15,600.0	11,878.0	15,497.2	11,879.0	34.6	39.5	90.08	4,062.7	902.3	820.8	747.1	73.71	11.136	
15,700.0	11,878.0	15,597.2	11,879.0	35.2	40.1	90.08	4,162.7	902.0	820.9	745.9	74.95	10.951	
15,800.0	11,878.0	15,697.2	11,879.0	35.9	40.7	90.08	4,262.7	901.7	820.9	744.7	76.21	10.772	
15,900.0	11,878.0	15,797.2	11,879.0	36.6	41.3	90.08	4,362.7	901.4	821.0	743.5	77.47	10.597	
16,000.0	11,878.0	15,897.2	11,879.0	37.3	41.9	90.08	4,462.7	901.2	821.0	742.3	78.75	10.426	
16,100.0	11,878.0	15,997.2	11,879.0	38.0	42.5	90.08	4,562.7	900.9	821.1	741.1	80.03	10.260	
16,200.0	11,878.0	16,097.2	11,879.0	38.7	43.1	90.08	4,662.7	900.6	821.1	739.8	81.32	10.098	
16,300.0	11,878.0	16,197.2	11,879.0	39.4	43.7	90.08	4,762.7	900.3	821.2	738.6	82.61	9.940	
16,400.0	11,878.0	16,297.2	11,879.0	40.1	44.4	90.08	4,862.7	900.1	821.3	737.3	83.92	9.787	
16,500.0	11,878.0	16,397.2	11,879.0	40.8	45.0	90.08	4,962.7	899.8	821.3	736.1	85.23	9.637	
16,600.0	11,878.0	16,497.2	11,879.0	41.5	45.6	90.08	5,062.7	899.5	821.4	734.8	86.54	9.491	
16,700.0	11,878.0	16,597.2	11,879.0	42.2	46.2	90.08	5,162.7	899.2	821.4	733.6	87.86	9.349	
16,800.0	11,878.0	16,697.2	11,879.0	42.9	46.9	90.08	5,262.7	899.0	821.5	732.3	89.19	9.210	
16,900.0	11,878.0	16,797.2	11,879.0	43.6	47.5	90.08	5,362.7	898.7	821.5	731.0	90.53	9.075	
17,000.0	11,878.0	16,897.2	11,879.0	44.4	48.2	90.08	5,462.7	898.4	821.6	729.7	91.87	8.944	
17,100.0	11,878.0	16,997.2	11,879.0	45.1	48.8	90.08	5,562.7	898.1	821.7	728.5	93.21	8.815	
17,200.0	11,878.0	17,097.2	11,879.0	45.8	49.5	90.08	5,662.7	897.9	821.7	727.2	94.56	8.690	
17,300.0	11,878.0	17,197.2	11,879.0	46.5	50.1	90.08	5,762.7	897.6	821.8	725.9	95.91	8.568	
17,400.0	11,878.0	17,297.2	11,879.0	47.2	50.8	90.08	5,862.7	897.3	821.8	724.6	97.27	8.449	
17,500.0	11,878.0	17,397.2	11,879.0	48.0	51.5	90.08	5,962.7	897.0	821.9	723.3	98.63	8.333	
17,600.0	11,878.0	17,497.2	11,879.0	48.7	52.1	90.08	6,062.7	896.8	821.9	721.9	100.00	8.219	
17,700.0	11,878.0	17,597.2	11,879.0	49.4	52.8	90.08	6,162.7	896.5	822.0	720.6	101.37	8.109	
17,800.0	11,878.0	17,697.2	11,879.0	50.1	53.5	90.08	6,262.7	896.2	822.1	719.3	102.75	8.001	
17,900.0	11,878.0	17,797.2	11,879.0	50.9	54.1	90.08	6,362.7	895.9	822.1	718.0	104.12	7.896	
18,000.0	11,878.0	17,897.2	11,879.0	51.6	54.8	90.08	6,462.7	895.7	822.2	716.7	105.51	7.793	
18,100.0	11,878.0	17,997.2	11,879.0	52.3	55.5	90.08	6,562.7	895.4	822.2	715.3	106.89	7.692	
18,200.0	11,878.0	18,097.2	11,879.0	53.0	56.2	90.08	6,662.7	895.1	822.3	714.0	108.28	7.594	
18,300.0	11,878.0	18,197.2	11,879.0	53.8	56.9	90.08	6,762.7	894.8	822.4	712.7	109.67	7.498	
18,400.0	11,878.0	18,297.2	11,879.0	54.5	57.5	90.08	6,862.7	894.6	822.4	711.3	111.06	7.405	
18,500.0	11,878.0	18,397.2	11,879.0	55.2	58.2	90.08	6,962.7	894.3	822.5	710.0	112.46	7.313	
18,600.0	11,878.0	18,497.2	11,879.0	56.0	58.9	90.08	7,062.7	894.0	822.5	708.7	113.86	7.224	
18,700.0	11,878.0	18,597.2	11,879.0	56.7	59.6	90.08	7,162.7	893.7	822.6	707.3	115.26	7.137	
18,800.0	11,878.0	18,697.2	11,879.0	57.4	60.3	90.08	7,262.7	893.5	822.6	706.0	116.67	7.051	
18,900.0	11,878.0	18,797.2	11,879.0	58.2	61.0	90.08	7,362.7	893.2	822.7	704.6	118.08	6.967	
19,000.0	11,878.0	18,897.2	11,879.0	58.9	61.7	90.08	7,462.7	892.9	822.8	703.3	119.49	6.886	
19,100.0	11,878.0	18,997.2	11,879.0	59.6	62.4	90.08	7,562.7	892.6	822.8	701.9	120.90	6.806	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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
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
19,200.0	11,878.0	19,097.2	11,879.0	60.4	63.1	90.08	7,662.7	892.4	822.9	700.6	122.31	6.728	
19,300.0	11,878.0	19,197.2	11,879.0	61.1	63.8	90.08	7,762.7	892.1	822.9	699.2	123.73	6.651	
19,400.0	11,878.0	19,297.2	11,879.0	61.9	64.5	90.08	7,862.7	891.8	823.0	697.8	125.15	6.576	
19,500.0	11,878.0	19,397.2	11,879.0	62.6	65.2	90.08	7,962.7	891.5	823.0	696.5	126.57	6.503	
19,600.0	11,878.0	19,497.2	11,879.0	63.3	65.9	90.08	8,062.7	891.3	823.1	695.1	127.99	6.431	
19,700.0	11,878.0	19,597.2	11,879.0	64.1	66.6	90.08	8,162.7	891.0	823.2	693.7	129.42	6.360	
19,800.0	11,878.0	19,697.2	11,879.0	64.8	67.3	90.08	8,262.7	890.7	823.2	692.4	130.84	6.292	
19,900.0	11,878.0	19,797.2	11,879.0	65.6	68.0	90.08	8,362.7	890.4	823.3	691.0	132.27	6.224	
20,000.0	11,878.0	19,897.2	11,879.0	66.3	68.7	90.08	8,462.7	890.2	823.3	689.6	133.70	6.158	
20,100.0	11,878.0	19,997.2	11,879.0	67.0	69.4	90.08	8,562.7	889.9	823.4	688.3	135.13	6.093	
20,200.0	11,878.0	20,097.2	11,879.0	67.8	70.1	90.08	8,662.7	889.6	823.4	686.9	136.57	6.030	
20,300.0	11,878.0	20,197.2	11,879.0	68.5	70.8	90.08	8,762.7	889.3	823.5	685.5	138.00	5.967	
20,400.0	11,878.0	20,297.2	11,879.0	69.3	71.6	90.08	8,862.7	889.1	823.6	684.1	139.44	5.906	
20,500.0	11,878.0	20,397.2	11,879.0	70.0	72.3	90.08	8,962.7	888.8	823.6	682.7	140.88	5.846	
20,600.0	11,878.0	20,497.2	11,879.0	70.8	73.0	90.08	9,062.7	888.5	823.7	681.4	142.32	5.788	
20,700.0	11,878.0	20,597.2	11,879.0	71.5	73.7	90.08	9,162.7	888.2	823.7	680.0	143.76	5.730	
20,800.0	11,878.0	20,697.2	11,879.0	72.3	74.4	90.08	9,262.7	888.0	823.8	678.6	145.20	5.674	
20,900.0	11,878.0	20,797.2	11,879.0	73.0	75.1	90.08	9,362.7	887.7	823.8	677.2	146.64	5.618	
21,000.0	11,878.0	20,897.2	11,879.0	73.8	75.9	90.08	9,462.7	887.4	823.9	675.8	148.09	5.564	
21,100.0	11,878.0	20,997.2	11,879.0	74.5	76.6	90.08	9,562.7	887.1	824.0	674.4	149.53	5.510	
21,200.0	11,878.0	21,097.2	11,879.0	75.2	77.3	90.08	9,662.7	886.9	824.0	673.0	150.98	5.458	
21,300.0	11,878.0	21,197.2	11,879.0	76.0	78.0	90.08	9,762.7	886.6	824.1	671.6	152.43	5.406	
21,400.0	11,878.0	21,297.2	11,879.0	76.7	78.7	90.08	9,862.7	886.3	824.1	670.3	153.88	5.356	
21,500.0	11,878.0	21,397.2	11,879.0	77.5	79.5	90.08	9,962.7	886.0	824.2	668.9	155.33	5.306	
21,600.0	11,878.0	21,497.2	11,879.0	78.2	80.2	90.08	10,062.7	885.8	824.2	667.5	156.78	5.257	
21,700.0	11,878.0	21,597.2	11,879.0	79.0	80.9	90.08	10,162.7	885.5	824.3	666.1	158.23	5.210	
21,800.0	11,878.0	21,697.2	11,879.0	79.7	81.6	90.08	10,262.6	885.2	824.4	664.7	159.68	5.163	
21,900.0	11,878.0	21,797.2	11,879.0	80.5	82.4	90.08	10,362.6	885.0	824.4	663.3	161.14	5.116	
22,000.0	11,878.0	21,897.2	11,879.0	81.2	83.1	90.08	10,462.6	884.7	824.5	661.9	162.59	5.071	
22,100.0	11,878.0	21,997.2	11,879.0	82.0	83.8	90.08	10,562.6	884.4	824.5	660.5	164.05	5.026	
22,200.0	11,878.0	22,097.2	11,879.0	82.7	84.5	90.08	10,662.6	884.1	824.6	659.1	165.50	4.982	
22,244.0	11,878.0	22,141.2	11,879.0	83.1	84.9	90.08	10,706.6	884.0	824.6	658.5	166.14	4.963	
22,294.0	11,878.0	22,191.2	11,879.0	83.4	85.2	90.08	10,756.6	883.9	824.6	657.9	166.79	4.944 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 #710H
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 #710H	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		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
0.0	0.0	0.0	0.0	3.0	3.0	90.41	-0.6	90.0	90.1				
100.0	100.0	100.0	100.0	3.0	3.0	90.41	-0.6	90.0	90.1	83.5	6.52	13.811	
200.0	200.0	200.0	200.0	3.2	3.2	90.41	-0.6	90.0	90.1	83.3	6.76	13.321	
300.0	300.0	300.0	300.0	3.3	3.3	90.41	-0.6	90.0	90.1	83.1	6.99	12.880	
400.0	400.0	400.0	400.0	3.4	3.4	90.41	-0.6	90.0	90.1	82.8	7.21	12.482	
500.0	500.0	500.0	500.0	3.5	3.5	90.41	-0.6	90.0	90.1	82.6	7.43	12.119	
600.0	600.0	600.0	600.0	3.7	3.7	90.41	-0.6	90.0	90.1	82.4	7.64	11.786	
700.0	700.0	700.0	700.0	3.8	3.8	90.41	-0.6	90.0	90.1	82.2	7.84	11.481	
800.0	800.0	800.0	800.0	3.9	3.9	90.41	-0.6	90.0	90.1	82.0	8.04	11.198	
900.0	900.0	900.0	900.0	4.0	4.0	90.41	-0.6	90.0	90.1	81.8	8.23	10.936	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	90.41	-0.6	90.0	90.1	81.6	8.42	10.691	
1,100.0	1,100.0	1,100.0	1,100.0	4.3	4.3	90.41	-0.6	90.0	90.1	81.4	8.61	10.463	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	90.41	-0.6	90.0	90.1	81.3	8.79	10.249	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	90.41	-0.6	90.0	90.1	81.1	8.96	10.048	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	90.41	-0.6	90.0	90.1	80.9	9.13	9.858	
1,500.0	1,500.0	1,500.0	1,500.0	4.8	4.8	90.41	-0.6	90.0	90.1	80.7	9.30	9.679	
1,600.0	1,600.0	1,598.0	1,598.0	4.9	4.9	46.80	0.0	91.1	90.0	80.4	9.55	9.423	
1,700.0	1,699.8	1,696.0	1,695.9	5.1	5.0	47.96	1.9	94.4	89.7	79.8	9.94	9.020	
1,750.0	1,749.7	1,745.0	1,744.8	5.2	5.1	48.83	3.3	96.9	89.5	79.4	10.08	8.879	
1,765.7	1,765.4	1,760.5	1,760.2	5.2	5.1	49.13	3.8	97.7	89.5	79.4	10.13	8.838 CC, ES	
1,800.0	1,799.5	1,794.0	1,793.7	5.3	5.2	49.69	5.0	99.8	89.6	79.4	10.22	8.769	
1,900.0	1,899.1	1,891.4	1,890.7	5.5	5.3	50.81	9.2	107.6	91.7	81.2	10.51	8.722 SF	
2,000.0	1,998.7	1,988.1	1,986.7	5.7	5.6	51.50	13.7	118.5	97.0	86.1	10.94	8.871	
2,100.0	2,098.4	2,084.4	2,081.8	5.9	5.9	51.79	18.3	132.5	105.7	94.3	11.39	9.274	
2,200.0	2,198.0	2,180.0	2,175.8	6.2	6.2	51.76	23.2	149.6	117.6	105.7	11.87	9.903	
2,300.0	2,297.6	2,274.8	2,268.3	6.5	6.6	51.50	28.2	169.6	132.8	120.4	12.38	10.725	
2,400.0	2,397.2	2,372.1	2,362.7	6.7	6.9	51.13	33.5	192.4	150.3	137.4	12.91	11.645	
2,500.0	2,496.8	2,470.5	2,458.2	7.0	7.2	50.83	38.8	215.6	167.9	154.5	13.46	12.479	
2,600.0	2,596.4	2,568.9	2,553.7	7.3	7.6	50.58	44.2	238.8	185.6	171.5	14.03	13.228	
2,700.0	2,696.1	2,667.3	2,649.2	7.6	7.9	50.38	49.5	262.0	203.2	188.6	14.62	13.901	
2,800.0	2,795.7	2,765.8	2,744.7	8.0	8.3	50.21	54.9	285.2	220.9	205.6	15.22	14.506	
2,900.0	2,895.3	2,864.2	2,840.2	8.3	8.7	50.07	60.2	308.4	238.5	222.7	15.85	15.052	
2,937.8	2,933.0	2,901.4	2,876.4	8.4	8.9	50.02	62.3	317.2	245.2	229.1	16.06	15.267	
3,000.0	2,995.0	2,962.6	2,935.7	8.6	9.1	49.97	65.6	331.6	256.4	239.9	16.43	15.600	
3,100.0	3,094.7	3,060.8	3,030.9	8.9	9.5	49.70	70.9	354.8	275.3	258.2	17.09	16.105	
3,200.0	3,194.6	3,158.7	3,126.0	9.2	9.9	49.22	76.3	377.8	295.3	277.5	17.77	16.620	
3,300.0	3,294.5	3,256.3	3,220.7	9.5	10.3	48.60	81.6	400.8	316.5	298.0	18.45	17.151	
3,400.0	3,394.5	3,353.7	3,315.1	9.7	10.7	47.85	86.9	423.8	338.9	319.7	19.14	17.704	
3,437.8	3,432.4	3,390.4	3,350.8	9.8	10.9	91.55	88.9	432.5	347.6	328.3	19.37	17.949	
3,500.0	3,494.5	3,450.7	3,409.3	9.8	11.2	90.95	92.2	446.7	362.2	342.5	19.74	18.354	
3,600.0	3,594.5	3,547.8	3,503.5	9.9	11.6	90.09	97.4	469.5	385.8	365.4	20.36	18.949	
3,700.0	3,694.5	3,644.8	3,597.6	10.0	12.0	89.32	102.7	492.4	409.4	388.5	20.99	19.511	
3,800.0	3,794.5	3,741.8	3,691.8	10.0	12.5	88.64	108.0	515.3	433.1	411.5	21.61	20.043	
3,900.0	3,894.5	3,838.8	3,785.9	10.1	12.9	88.03	113.3	538.2	456.9	434.6	22.24	20.545	
4,000.0	3,994.5	3,935.9	3,880.0	10.2	13.3	87.48	118.6	561.0	480.7	457.8	22.87	21.021	
4,100.0	4,094.5	4,032.9	3,974.2	10.3	13.8	86.98	123.8	583.9	504.5	481.0	23.50	21.471	
4,200.0	4,194.5	4,129.9	4,068.3	10.4	14.2	86.52	129.1	606.8	528.4	504.2	24.13	21.897	
4,300.0	4,294.5	4,227.0	4,162.5	10.5	14.7	86.11	134.4	629.6	552.3	527.5	24.76	22.301	
4,400.0	4,394.5	4,324.0	4,256.6	10.6	15.1	85.73	139.7	652.5	576.2	550.8	25.40	22.683	
4,500.0	4,494.5	4,421.0	4,350.8	10.6	15.6	85.38	145.0	675.4	600.1	574.1	26.04	23.047	
4,600.0	4,594.5	4,518.0	4,444.9	10.7	16.0	85.05	150.2	698.3	624.1	597.4	26.68	23.391	
4,700.0	4,694.5	4,615.1	4,539.1	10.8	16.5	84.75	155.5	721.1	648.0	620.7	27.32	23.719	

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 #710H
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 #710H	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		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		
4,800.0	4,794.5	4,712.1	4,633.2	10.9	16.9	84.48	160.8	744.0	672.0	644.1	27.97	24.030		
4,900.0	4,894.5	4,809.1	4,727.4	11.0	17.4	84.22	166.1	766.9	696.0	667.4	28.61	24.326		
5,000.0	4,994.5	4,906.2	4,821.5	11.1	17.8	83.97	171.4	789.7	720.1	690.8	29.26	24.609		
5,100.0	5,094.5	5,003.2	4,915.7	11.1	18.3	83.75	176.6	812.6	744.1	714.2	29.91	24.878		
5,200.0	5,194.5	5,100.2	5,009.8	11.2	18.7	83.54	181.9	835.5	768.1	737.6	30.56	25.134		
5,300.0	5,294.5	5,197.3	5,104.0	11.3	19.2	83.34	187.2	858.4	792.2	761.0	31.21	25.379		
5,400.0	5,394.5	5,294.3	5,198.1	11.4	19.7	83.15	192.5	881.2	816.2	784.4	31.87	25.612		
5,500.0	5,494.5	5,391.3	5,292.3	11.5	20.1	82.97	197.8	904.1	840.3	807.8	32.52	25.836		
5,600.0	5,594.5	5,488.3	5,386.4	11.6	20.6	82.81	203.0	927.0	864.4	831.2	33.18	26.050		
5,700.0	5,694.5	5,585.4	5,480.6	11.6	21.1	82.65	208.3	949.9	888.5	854.6	33.84	26.254		
5,800.0	5,794.5	5,682.4	5,574.7	11.7	21.5	82.50	213.6	972.7	912.5	878.0	34.50	26.450		
5,900.0	5,894.5	5,779.4	5,668.9	11.8	22.0	82.36	218.9	995.6	936.6	901.5	35.16	26.638		
6,000.0	5,994.5	5,876.5	5,763.0	11.9	22.4	82.22	224.2	1,018.5	960.7	924.9	35.82	26.818		
6,100.0	6,094.5	5,973.5	5,857.1	12.0	22.9	82.09	229.4	1,041.3	984.8	948.3	36.49	26.991		

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 #710H
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 #710H	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	90.39	-0.8	120.0	120.0				
100.0	100.0	100.0	100.0	3.0	3.0	90.39	-0.8	120.0	120.0	113.5	6.52	18.408	
200.0	200.0	200.0	200.0	3.2	3.2	90.39	-0.8	120.0	120.0	113.3	6.76	17.754	
300.0	300.0	300.0	300.0	3.3	3.3	90.39	-0.8	120.0	120.0	113.0	6.99	17.167	
400.0	400.0	400.0	400.0	3.4	3.4	90.39	-0.8	120.0	120.0	112.8	7.21	16.636	
500.0	500.0	500.0	500.0	3.5	3.5	90.39	-0.8	120.0	120.0	112.6	7.43	16.152	
600.0	600.0	600.0	600.0	3.7	3.7	90.39	-0.8	120.0	120.0	112.4	7.64	15.709	
700.0	700.0	700.0	700.0	3.8	3.8	90.39	-0.8	120.0	120.0	112.2	7.84	15.302	
800.0	800.0	800.0	800.0	3.9	3.9	90.39	-0.8	120.0	120.0	112.0	8.04	14.925	
900.0	900.0	900.0	900.0	4.0	4.0	90.39	-0.8	120.0	120.0	111.8	8.23	14.575	
1,000.0	1,000.0	1,000.0	1,000.0	4.2	4.2	90.39	-0.8	120.0	120.0	111.6	8.42	14.249 CC, ES	
1,100.0	1,100.0	1,096.0	1,095.9	4.3	4.3	90.27	-0.6	121.6	121.7	113.0	8.71	13.966 SF	
1,200.0	1,200.0	1,191.7	1,191.6	4.4	4.4	89.92	0.2	126.4	126.6	117.6	8.99	14.083	
1,300.0	1,300.0	1,287.1	1,286.6	4.5	4.6	89.39	1.4	134.2	134.9	125.6	9.26	14.560	
1,400.0	1,400.0	1,381.8	1,380.7	4.6	4.8	88.75	3.2	145.1	146.4	136.9	9.53	15.365	
1,500.0	1,500.0	1,475.7	1,473.5	4.8	5.0	88.07	5.3	158.9	161.2	151.4	9.79	16.468	
1,600.0	1,600.0	1,568.8	1,565.1	4.9	5.2	43.53	8.0	175.6	178.0	167.9	10.07	17.672	
1,700.0	1,699.8	1,661.3	1,655.4	5.1	5.5	43.61	11.1	195.1	195.4	185.0	10.46	18.678	
1,750.0	1,749.7	1,707.3	1,700.1	5.2	5.6	43.82	12.8	205.8	204.4	193.8	10.59	19.294	
1,800.0	1,799.5	1,753.3	1,744.6	5.3	5.6	44.18	14.6	217.3	213.9	203.2	10.68	20.030	
1,900.0	1,899.1	1,851.3	1,839.3	5.5	5.8	44.84	18.6	242.3	233.5	222.4	11.05	21.119	
2,000.0	1,998.7	1,949.3	1,934.0	5.7	6.1	45.40	22.5	267.4	253.1	241.6	11.51	21.992	
2,100.0	2,098.4	2,047.3	2,028.7	5.9	6.4	45.88	26.5	292.4	272.7	260.7	12.00	22.732	
2,200.0	2,198.0	2,145.4	2,123.4	6.2	6.7	46.29	30.5	317.5	292.4	279.9	12.52	23.359	
2,300.0	2,297.6	2,243.4	2,218.0	6.5	7.0	46.65	34.4	342.6	312.1	299.0	13.07	23.887	
2,400.0	2,397.2	2,341.4	2,312.7	6.7	7.3	46.97	38.4	367.6	331.8	318.1	13.64	24.332	
2,500.0	2,496.8	2,439.4	2,407.4	7.0	7.7	47.25	42.4	392.7	351.5	337.3	14.23	24.707	
2,600.0	2,596.4	2,537.5	2,502.1	7.3	8.0	47.50	46.3	417.7	371.2	356.4	14.83	25.023	
2,700.0	2,696.1	2,635.5	2,596.8	7.6	8.4	47.73	50.3	442.8	390.9	375.4	15.46	25.290	
2,800.0	2,795.7	2,733.5	2,691.5	8.0	8.8	47.93	54.3	467.9	410.6	394.5	16.09	25.515	
2,900.0	2,895.3	2,831.5	2,786.2	8.3	9.2	48.12	58.2	492.9	430.3	413.6	16.74	25.705	
2,937.8	2,933.0	2,868.6	2,822.0	8.4	9.4	48.19	59.7	502.4	437.8	420.8	16.97	25.803	
3,000.0	2,995.0	2,929.5	2,880.8	8.6	9.6	48.35	62.2	518.0	450.3	432.9	17.36	25.946	
3,100.0	3,094.7	3,027.3	2,975.2	8.9	10.0	48.49	66.2	543.0	471.3	453.3	18.03	26.146	
3,200.0	3,194.6	3,124.8	3,069.4	9.2	10.5	48.48	70.1	567.9	493.4	474.7	18.70	26.384	
3,300.0	3,294.5	3,222.0	3,163.3	9.5	10.9	48.35	74.1	592.7	516.7	497.3	19.38	26.659	
3,400.0	3,394.5	3,318.9	3,256.9	9.7	11.3	48.11	78.0	617.5	541.1	521.1	20.06	26.979	
3,437.8	3,432.4	3,355.5	3,292.3	9.8	11.5	92.00	79.5	626.9	550.7	530.4	20.28	27.150	
3,500.0	3,494.5	3,415.5	3,350.3	9.8	11.7	91.69	81.9	642.2	566.5	545.8	20.64	27.440	
3,600.0	3,594.5	3,512.1	3,443.6	9.9	12.2	91.22	85.8	666.9	592.0	570.7	21.26	27.841	
3,700.0	3,694.5	3,608.7	3,536.9	10.0	12.6	90.80	89.7	691.6	617.5	595.6	21.88	28.215	
3,800.0	3,794.5	3,705.3	3,630.2	10.0	13.1	90.40	93.6	716.3	643.0	620.5	22.51	28.566	
3,900.0	3,894.5	3,801.9	3,723.5	10.1	13.5	90.04	97.5	741.0	668.6	645.4	23.14	28.894	
4,000.0	3,994.5	3,898.5	3,816.8	10.2	13.9	89.71	101.4	765.7	694.2	670.4	23.77	29.201	
4,100.0	4,094.5	3,995.1	3,910.1	10.3	14.4	89.39	105.4	790.4	719.8	695.4	24.41	29.490	
4,200.0	4,194.5	4,091.7	4,003.4	10.4	14.8	89.10	109.3	815.0	745.4	720.4	25.05	29.761	
4,300.0	4,294.5	4,188.3	4,096.7	10.5	15.3	88.83	113.2	839.7	771.1	745.4	25.69	30.015	
4,400.0	4,394.5	4,284.9	4,190.0	10.6	15.8	88.58	117.1	864.4	796.7	770.4	26.33	30.255	
4,500.0	4,494.5	4,381.5	4,283.3	10.6	16.2	88.34	121.0	889.1	822.4	795.4	26.98	30.480	
4,600.0	4,594.5	4,478.1	4,376.6	10.7	16.7	88.12	124.9	913.8	848.1	820.5	27.63	30.693	
4,700.0	4,694.5	4,574.7	4,469.9	10.8	17.1	87.91	128.8	938.5	873.8	845.5	28.28	30.894	
4,800.0	4,794.5	4,671.2	4,563.2	10.9	17.6	87.71	132.7	963.2	899.5	870.6	28.94	31.084	

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 #710H
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 #710H	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		Offset Wellbore Centre		Rule Assigned:						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
4,900.0	4,894.5	4,767.8	4,656.5	11.0	18.0	87.52	136.6	987.9	925.2	895.6	29.59	31.264		
5,000.0	4,994.5	4,864.4	4,749.8	11.1	18.5	87.35	140.5	1,012.6	951.0	920.7	30.25	31.434		
5,100.0	5,094.5	4,961.0	4,843.1	11.1	19.0	87.18	144.5	1,037.3	976.7	945.8	30.91	31.595		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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	Offset	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	-171.77	-200.0	-28.9	202.1				
100.0	100.0	102.8	102.8	3.0	3.0	-171.77	-200.0	-28.9	202.1	195.5	6.52	30.970	
200.0	200.0	202.8	202.8	3.2	3.2	-171.77	-200.0	-28.9	202.1	195.3	6.77	29.829	
300.0	300.0	302.8	302.8	3.3	3.3	-171.77	-200.0	-28.9	202.1	195.1	7.02	28.779	
400.0	400.0	402.8	402.8	3.4	3.4	-171.77	-200.0	-28.9	202.1	194.8	7.27	27.809	
500.0	500.0	502.8	502.8	3.5	3.6	-171.77	-200.0	-28.9	202.1	194.6	7.51	26.908	
600.0	600.0	602.8	602.8	3.7	3.7	-171.77	-200.0	-28.9	202.1	194.3	7.75	26.069	
700.0	700.0	702.8	702.8	3.8	3.8	-171.77	-200.0	-28.9	202.1	194.1	7.99	25.286	
800.0	800.0	802.8	802.8	3.9	3.9	-171.77	-200.0	-28.9	202.1	193.8	8.23	24.552	
900.0	900.0	902.8	902.8	4.0	4.0	-171.77	-200.0	-28.9	202.1	193.6	8.47	23.863	
1,000.0	1,000.0	1,002.8	1,002.8	4.2	4.2	-171.77	-200.0	-28.9	202.1	193.4	8.70	23.214	
1,100.0	1,100.0	1,102.8	1,102.8	4.3	4.3	-171.77	-200.0	-28.9	202.1	193.1	8.94	22.602	
1,200.0	1,200.0	1,202.8	1,202.8	4.4	4.4	-171.77	-200.0	-28.9	202.1	192.9	9.18	22.024	
1,300.0	1,300.0	1,302.8	1,302.8	4.5	4.5	-171.77	-200.0	-28.9	202.1	192.7	9.41	21.476	
1,400.0	1,400.0	1,402.8	1,402.8	4.6	4.6	-171.77	-200.0	-28.9	202.1	192.4	9.64	20.957	
1,500.0	1,500.0	1,502.9	1,502.9	4.8	4.8	-171.77	-200.0	-28.9	202.1	192.2	9.88	20.463	
1,504.4	1,504.4	1,507.5	1,507.5	4.8	4.8	144.24	-200.0	-28.9	202.1	192.2	9.89	20.437 CC, ES	
1,600.0	1,600.0	1,606.2	1,606.2	4.9	4.9	145.02	-198.8	-30.5	202.6	192.5	10.16	19.945	
1,700.0	1,699.8	1,709.1	1,708.9	5.1	5.1	147.27	-195.5	-35.1	204.6	194.0	10.55	19.389	
1,750.0	1,749.7	1,760.2	1,759.9	5.2	5.3	148.91	-193.0	-38.5	206.2	195.6	10.68	19.314	
1,800.0	1,799.5	1,811.1	1,810.5	5.3	5.4	150.82	-190.1	-42.6	208.1	197.3	10.79	19.285	
1,900.0	1,899.1	1,910.9	1,909.5	5.5	5.5	154.97	-183.1	-52.2	212.0	200.9	11.05	19.183	
2,000.0	1,998.7	2,009.6	2,007.5	5.7	5.8	158.97	-176.0	-62.0	216.8	205.4	11.40	19.025	
2,100.0	2,098.4	2,108.3	2,105.5	5.9	6.0	162.78	-168.9	-71.7	222.7	210.9	11.76	18.935	
2,200.0	2,198.0	2,207.0	2,203.5	6.2	6.3	166.39	-161.9	-81.4	229.5	217.4	12.14	18.902	
2,300.0	2,297.6	2,305.8	2,301.5	6.5	6.6	169.78	-154.8	-91.2	237.2	224.7	12.54	18.913	
2,400.0	2,397.2	2,404.5	2,399.5	6.7	6.9	172.95	-147.7	-100.9	245.7	232.8	12.96	18.959	
2,500.0	2,496.8	2,503.2	2,497.5	7.0	7.2	175.90	-140.6	-110.6	254.9	241.5	13.40	19.032	
2,600.0	2,596.4	2,602.0	2,595.5	7.3	7.5	178.65	-133.6	-120.4	264.8	250.9	13.85	19.124	
2,700.0	2,696.1	2,700.7	2,693.5	7.6	7.8	-178.81	-126.5	-130.1	275.2	260.9	14.31	19.230	
2,800.0	2,795.7	2,799.4	2,791.5	8.0	8.2	-176.45	-119.4	-139.8	286.1	271.3	14.79	19.346	
2,900.0	2,895.3	2,898.2	2,889.5	8.3	8.5	-174.26	-112.4	-149.6	297.4	282.2	15.28	19.468	
2,937.8	2,933.0	2,935.5	2,926.5	8.4	8.7	-173.48	-109.7	-153.2	301.8	286.4	15.44	19.547	
3,000.0	2,995.0	2,996.9	2,987.5	8.6	8.9	-172.24	-105.3	-159.3	308.9	293.1	15.73	19.641	
3,100.0	3,094.7	3,095.8	3,085.7	8.9	9.2	-170.32	-98.2	-169.0	319.1	302.8	16.22	19.667	
3,200.0	3,194.6	3,194.9	3,184.0	9.2	9.6	-168.47	-91.1	-178.8	327.9	311.2	16.71	19.621	
3,300.0	3,294.5	3,294.0	3,282.4	9.5	10.0	-166.64	-84.0	-188.6	335.4	318.2	17.19	19.515	
3,400.0	3,394.5	3,393.2	3,380.9	9.7	10.3	-164.82	-76.9	-198.4	341.5	323.9	17.63	19.374	
3,437.8	3,432.4	3,430.8	3,418.1	9.8	10.5	-120.13	-74.2	-202.1	343.5	325.7	17.74	19.364	
3,500.0	3,494.5	3,492.5	3,479.4	9.8	10.7	-118.99	-69.8	-208.2	346.6	328.7	17.89	19.371	
3,600.0	3,594.5	3,591.7	3,577.9	9.9	11.1	-117.20	-62.7	-217.9	352.0	333.8	18.20	19.342	
3,700.0	3,694.5	3,691.0	3,676.4	10.0	11.5	-115.47	-55.6	-227.7	357.7	339.2	18.52	19.314	
3,800.0	3,794.5	3,790.2	3,774.9	10.0	11.9	-113.79	-48.5	-237.5	363.7	344.8	18.86	19.285	
3,900.0	3,894.5	3,889.5	3,873.4	10.1	12.2	-112.17	-41.3	-247.3	370.0	350.8	19.22	19.254	
4,000.0	3,994.5	3,988.8	3,971.9	10.2	12.6	-110.60	-34.2	-257.1	376.6	357.0	19.59	19.222	
4,100.0	4,094.5	4,088.0	4,070.5	10.3	13.0	-109.09	-27.1	-266.9	383.5	363.5	19.99	19.188	
4,200.0	4,194.5	4,187.3	4,169.0	10.4	13.4	-107.63	-20.0	-276.7	390.6	370.2	20.40	19.151	
4,300.0	4,294.5	4,286.5	4,267.5	10.5	13.8	-106.23	-12.9	-286.4	398.0	377.2	20.82	19.113	
4,400.0	4,394.5	4,385.8	4,366.0	10.6	14.2	-104.87	-5.8	-296.2	405.6	384.4	21.27	19.073	
4,500.0	4,494.5	4,485.0	4,464.5	10.6	14.6	-103.57	1.3	-306.0	413.5	391.7	21.72	19.033	
4,600.0	4,594.5	4,584.3	4,563.0	10.7	15.0	-102.31	8.4	-315.8	421.5	399.3	22.19	18.991	
4,700.0	4,694.5	4,683.5	4,661.5	10.8	15.4	-101.10	15.5	-325.6	429.7	407.0	22.68	18.949	

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 #710H
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 #710H	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		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
4,800.0	4,794.5	4,782.8	4,760.1	10.9	15.8	-99.94	22.6	-335.4	438.1	415.0	23.17	18.907	
4,900.0	4,894.5	4,882.0	4,858.6	11.0	16.2	-98.82	29.8	-345.2	446.7	423.1	23.68	18.866	
5,000.0	4,994.5	4,981.3	4,957.1	11.1	16.6	-97.74	36.9	-354.9	455.5	431.3	24.20	18.825	
5,100.0	5,094.5	5,080.6	5,055.6	11.1	17.0	-96.71	44.0	-364.7	464.4	439.7	24.72	18.785	
5,200.0	5,194.5	5,179.8	5,154.1	11.2	17.4	-95.71	51.1	-374.5	473.5	448.2	25.26	18.746	
5,300.0	5,294.5	5,279.1	5,252.6	11.3	17.8	-94.75	58.2	-384.3	482.7	456.9	25.80	18.708	
5,400.0	5,394.5	5,378.3	5,351.2	11.4	18.2	-93.83	65.3	-394.1	492.0	465.6	26.35	18.672	
5,500.0	5,494.5	5,480.4	5,452.4	11.5	18.6	-92.92	72.5	-404.0	501.3	474.4	26.89	18.644	
5,600.0	5,594.5	5,587.2	5,558.7	11.6	19.0	-92.12	79.2	-413.2	509.6	482.2	27.45	18.565	
5,700.0	5,694.5	5,694.4	5,665.5	11.6	19.4	-91.48	84.6	-420.7	516.5	488.5	27.98	18.457	
5,800.0	5,794.5	5,801.9	5,772.8	11.7	19.8	-90.99	89.0	-426.6	521.9	493.4	28.48	18.327	
5,900.0	5,894.5	5,909.7	5,880.4	11.8	20.2	-90.64	92.1	-431.0	525.9	497.0	28.93	18.180	
6,000.0	5,994.5	6,017.6	5,988.3	11.9	20.5	-90.43	94.0	-433.6	528.4	499.0	29.32	18.021	
6,100.0	6,094.5	6,125.7	6,096.3	12.0	20.7	-90.35	94.8	-434.7	529.3	499.7	29.61	17.877	
6,200.0	6,194.5	6,226.7	6,197.3	12.1	20.8	-90.35	94.8	-434.7	529.3	499.6	29.72	17.808	
6,300.0	6,294.5	6,326.7	6,297.3	12.1	20.8	-90.35	94.8	-434.7	529.3	499.5	29.85	17.733	
6,400.0	6,394.5	6,426.7	6,397.3	12.2	20.9	-90.35	94.8	-434.7	529.3	499.4	29.98	17.658	
6,500.0	6,494.5	6,526.7	6,497.3	12.3	20.9	-90.35	94.8	-434.7	529.3	499.2	30.10	17.584	
6,600.0	6,594.5	6,626.7	6,597.3	12.4	20.9	-90.35	94.8	-434.7	529.3	499.1	30.23	17.510	
6,700.0	6,694.5	6,726.7	6,697.3	12.5	21.0	-90.35	94.8	-434.7	529.3	499.0	30.36	17.436	
6,800.0	6,794.5	6,826.7	6,797.3	12.6	21.0	-90.35	94.8	-434.7	529.3	498.8	30.49	17.363	
6,900.0	6,894.5	6,926.7	6,897.3	12.6	21.1	-90.35	94.8	-434.7	529.3	498.7	30.61	17.290	
7,000.0	6,994.5	7,026.7	6,997.3	12.7	21.1	-90.35	94.8	-434.7	529.3	498.6	30.74	17.218	
7,100.0	7,094.5	7,126.7	7,097.3	12.8	21.2	-90.35	94.8	-434.7	529.3	498.5	30.87	17.146	
7,200.0	7,194.5	7,226.7	7,197.3	12.9	21.2	-90.35	94.8	-434.7	529.3	498.3	31.00	17.075	
7,300.0	7,294.5	7,326.7	7,297.3	13.0	21.3	-90.35	94.8	-434.7	529.3	498.2	31.13	17.004	
7,400.0	7,394.5	7,426.7	7,397.3	13.1	21.3	-90.35	94.8	-434.7	529.3	498.1	31.26	16.933	
7,500.0	7,494.5	7,526.7	7,497.3	13.1	21.4	-90.35	94.8	-434.7	529.3	497.9	31.39	16.863	
7,600.0	7,594.5	7,626.7	7,597.3	13.2	21.4	-90.35	94.8	-434.7	529.3	497.8	31.52	16.793	
7,700.0	7,694.5	7,726.7	7,697.3	13.3	21.5	-90.35	94.8	-434.7	529.3	497.7	31.65	16.724	
7,800.0	7,794.5	7,826.7	7,797.3	13.4	21.5	-90.35	94.8	-434.7	529.3	497.5	31.78	16.655	
7,900.0	7,894.5	7,926.7	7,897.3	13.5	21.5	-90.35	94.8	-434.7	529.3	497.4	31.91	16.587	
8,000.0	7,994.5	8,026.7	7,997.3	13.6	21.6	-90.35	94.8	-434.7	529.3	497.3	32.04	16.519	
8,100.0	8,094.5	8,126.7	8,097.3	13.6	21.6	-90.35	94.8	-434.7	529.3	497.2	32.18	16.451	
8,200.0	8,194.5	8,226.7	8,197.3	13.7	21.7	-90.35	94.8	-434.7	529.3	497.0	32.31	16.384	
8,300.0	8,294.5	8,326.7	8,297.3	13.8	21.7	-90.35	94.8	-434.7	529.3	496.9	32.44	16.317	
8,400.0	8,394.5	8,426.7	8,397.3	13.9	21.8	-90.35	94.8	-434.7	529.3	496.8	32.57	16.251	
8,500.0	8,494.5	8,526.7	8,497.3	14.0	21.8	-90.35	94.8	-434.7	529.3	496.6	32.70	16.185	
8,600.0	8,594.5	8,626.7	8,597.3	14.0	21.9	-90.35	94.8	-434.7	529.3	496.5	32.84	16.120	
8,700.0	8,694.5	8,726.7	8,697.3	14.1	21.9	-90.35	94.8	-434.7	529.3	496.4	32.97	16.054	
8,800.0	8,794.5	8,826.7	8,797.3	14.2	22.0	-90.35	94.8	-434.7	529.3	496.2	33.10	15.990	
8,900.0	8,894.5	8,926.7	8,897.3	14.3	22.0	-90.35	94.8	-434.7	529.3	496.1	33.24	15.925	
9,000.0	8,994.5	9,026.7	8,997.3	14.4	22.1	-90.35	94.8	-434.7	529.3	496.0	33.37	15.861	
9,100.0	9,094.5	9,126.7	9,097.3	14.5	22.1	-90.35	94.8	-434.7	529.3	495.8	33.51	15.798	
9,200.0	9,194.5	9,226.7	9,197.3	14.5	22.2	-90.35	94.8	-434.7	529.3	495.7	33.64	15.735	
9,300.0	9,294.5	9,326.7	9,297.3	14.6	22.2	-90.35	94.8	-434.7	529.3	495.6	33.78	15.672	
9,400.0	9,394.5	9,426.7	9,397.3	14.7	22.3	-90.35	94.8	-434.7	529.3	495.4	33.91	15.610	
9,500.0	9,494.5	9,526.7	9,497.3	14.8	22.3	-90.35	94.8	-434.7	529.3	495.3	34.05	15.548	
9,600.0	9,594.5	9,626.7	9,597.3	14.9	22.4	-90.35	94.8	-434.7	529.3	495.1	34.18	15.486	
9,700.0	9,694.5	9,726.7	9,697.3	15.0	22.4	-90.35	94.8	-434.7	529.3	495.0	34.32	15.425	
9,800.0	9,794.5	9,826.7	9,797.3	15.0	22.5	-90.35	94.8	-434.7	529.3	494.9	34.45	15.364	
9,900.0	9,894.5	9,926.7	9,897.3	15.1	22.5	-90.35	94.8	-434.7	529.3	494.7	34.59	15.304	

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 #710H
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 #710H	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		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
10,000.0	9,994.5	10,026.7	9,997.3	15.2	22.6	-90.35	94.8	-434.7	529.3	494.6	34.72	15.244	
10,100.0	10,094.5	10,126.7	10,097.3	15.3	22.6	-90.35	94.8	-434.7	529.3	494.5	34.86	15.184	
10,200.0	10,194.5	10,226.7	10,197.3	15.4	22.7	-90.35	94.8	-434.7	529.3	494.3	35.00	15.125	
10,300.0	10,294.5	10,326.7	10,297.3	15.5	22.7	-90.35	94.8	-434.7	529.3	494.2	35.13	15.066	
10,400.0	10,394.5	10,426.7	10,397.3	15.5	22.8	-90.35	94.8	-434.7	529.3	494.1	35.27	15.007	
10,500.0	10,494.5	10,526.7	10,497.3	15.6	22.9	-90.35	94.8	-434.7	529.3	493.9	35.41	14.949	
10,600.0	10,594.5	10,626.7	10,597.3	15.7	22.9	-90.35	94.8	-434.7	529.3	493.8	35.55	14.891	
10,700.0	10,694.5	10,726.7	10,697.3	15.8	23.0	-90.35	94.8	-434.7	529.3	493.6	35.68	14.834	
10,800.0	10,794.5	10,826.7	10,797.3	15.9	23.0	-90.35	94.8	-434.7	529.3	493.5	35.82	14.777	
10,900.0	10,894.5	10,926.7	10,897.3	15.9	23.1	-90.35	94.8	-434.7	529.3	493.4	35.96	14.720	
11,000.0	10,994.5	11,026.7	10,997.3	16.0	23.1	-90.35	94.8	-434.7	529.3	493.2	36.10	14.663	
11,100.0	11,094.5	11,126.7	11,097.3	16.1	23.2	-90.35	94.8	-434.7	529.3	493.1	36.23	14.609	
11,151.8	11,146.3	11,178.5	11,149.1	16.2	23.2	-90.37	94.5	-434.7	529.3	493.0	36.29	14.587 SF	
11,200.0	11,194.5	11,226.5	11,196.9	16.2	23.2	-90.75	91.1	-434.7	529.3	493.1	36.29	14.588	
11,300.0	11,294.5	11,322.4	11,290.9	16.3	23.3	-92.78	72.3	-434.5	529.8	493.7	36.13	14.663	
11,310.5	11,305.0	11,332.1	11,300.2	16.3	23.3	-93.07	69.6	-434.5	530.0	493.9	36.11	14.678	
11,350.0	11,344.5	11,367.0	11,333.2	16.3	23.3	-94.13	58.3	-434.4	530.9	494.9	35.97	14.757	
11,400.0	11,394.2	11,407.0	11,370.2	16.4	23.3	-95.97	43.0	-434.3	533.3	497.5	35.75	14.915	
11,450.0	11,443.2	11,441.7	11,401.3	16.4	23.3	-97.78	27.6	-434.2	537.8	502.3	35.52	15.141	
11,500.0	11,491.1	11,470.8	11,426.6	16.5	23.3	-99.23	13.3	-434.2	545.4	510.0	35.33	15.437	
11,550.0	11,537.6	11,500.0	11,451.3	16.5	23.4	-100.60	-2.4	-434.1	556.5	521.4	35.12	15.845	
11,600.0	11,582.4	11,512.6	11,461.7	16.6	23.4	-100.22	-9.5	-434.0	571.4	536.2	35.20	16.234	
11,650.0	11,625.0	11,526.3	11,472.7	16.7	23.4	-99.52	-17.5	-434.0	590.4	555.1	35.29	16.729	
11,700.0	11,665.2	11,535.8	11,480.3	16.7	23.4	-97.96	-23.2	-433.9	613.1	577.7	35.47	17.286	
11,750.0	11,702.7	11,550.0	11,491.5	16.8	23.4	-96.40	-32.0	-433.9	639.4	603.9	35.55	17.986	
11,800.0	11,737.1	11,550.0	11,491.5	16.9	23.4	-92.82	-32.0	-433.9	668.6	632.7	35.88	18.637	
11,850.0	11,768.3	11,550.0	11,491.5	16.9	23.4	-88.72	-32.0	-433.9	700.3	664.1	36.15	19.371	
11,900.0	11,795.9	11,550.0	11,491.5	17.0	23.4	-84.18	-32.0	-433.9	733.9	697.6	36.36	20.184	
11,950.0	11,819.8	11,550.0	11,491.5	17.0	23.4	-79.29	-32.0	-433.9	769.1	732.6	36.51	21.067	
12,000.0	11,839.8	11,532.3	11,477.6	17.1	23.4	-72.52	-21.1	-433.9	804.8	768.0	36.88	21.823	
12,050.0	11,855.7	11,524.9	11,471.6	17.2	23.4	-66.87	-16.7	-434.0	841.2	804.2	37.00	22.738	
12,100.0	11,867.4	11,516.1	11,464.5	17.2	23.4	-61.38	-11.6	-434.0	877.7	840.6	37.06	23.680	
12,150.0	11,874.8	11,500.0	11,451.3	17.2	23.4	-55.80	-2.4	-434.1	913.9	876.7	37.18	24.582	
12,200.0	11,877.9	11,500.0	11,451.3	17.3	23.4	-51.74	-2.4	-434.1	949.4	912.4	36.99	25.664	
12,210.5	11,878.0	11,500.0	11,451.3	17.3	23.4	-50.92	-2.4	-434.1	956.7	919.8	36.94	25.899	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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	179.72	-200.2	1.0	200.2				
100.0	100.0	101.9	101.9	3.0	3.0	179.72	-200.2	1.0	200.2	193.6	6.52	30.681	
200.0	200.0	201.9	201.9	3.2	3.2	179.72	-200.2	1.0	200.2	193.4	6.77	29.550	
300.0	300.0	301.9	301.9	3.3	3.3	179.72	-200.2	1.0	200.2	193.1	7.02	28.509	
400.0	400.0	401.9	401.9	3.4	3.4	179.72	-200.2	1.0	200.2	192.9	7.27	27.546	
500.0	500.0	501.9	501.9	3.5	3.5	179.72	-200.2	1.0	200.2	192.7	7.51	26.652	
600.0	600.0	601.9	601.9	3.7	3.7	179.72	-200.2	1.0	200.2	192.4	7.75	25.819	
700.0	700.0	701.9	701.9	3.8	3.8	179.72	-200.2	1.0	200.2	192.2	7.99	25.040	
800.0	800.0	801.9	801.9	3.9	3.9	179.72	-200.2	1.0	200.2	191.9	8.23	24.311	
900.0	900.0	901.9	901.9	4.0	4.0	179.72	-200.2	1.0	200.2	191.7	8.47	23.627	
1,000.0	1,000.0	1,001.9	1,001.9	4.2	4.2	179.72	-200.2	1.0	200.2	191.5	8.71	22.982	
1,100.0	1,100.0	1,101.9	1,101.9	4.3	4.3	179.72	-200.2	1.0	200.2	191.2	8.95	22.374	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	179.72	-200.2	1.0	200.2	191.0	9.18	21.799	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	179.72	-200.2	1.0	200.2	190.7	9.42	21.255	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	179.72	-200.2	1.0	200.2	190.5	9.65	20.739	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	179.72	-200.2	1.0	200.2	190.3	9.89	20.245	
1,600.0	1,600.0	1,609.5	1,609.5	4.9	5.0	136.13	-198.1	0.9	199.5	189.2	10.25	19.464	
1,700.0	1,699.8	1,716.9	1,716.7	5.1	5.3	137.36	-192.0	0.6	197.6	186.9	10.72	18.424	
1,750.0	1,749.7	1,770.4	1,770.0	5.2	5.4	138.29	-187.4	0.5	196.3	185.3	10.91	17.992	
1,800.0	1,799.5	1,823.9	1,823.2	5.3	5.6	139.34	-181.9	0.2	194.4	183.3	11.10	17.516	
1,900.0	1,899.1	1,928.6	1,927.0	5.5	5.9	141.55	-168.3	-0.3	188.2	176.6	11.55	16.286	
2,000.0	1,998.7	2,028.0	2,025.5	5.7	6.1	143.85	-154.5	-0.9	181.3	169.3	11.99	15.118	
2,100.0	2,098.4	2,127.5	2,124.0	5.9	6.4	146.32	-140.7	-1.4	174.7	162.3	12.46	14.022	
2,200.0	2,198.0	2,227.0	2,222.5	6.2	6.6	148.98	-126.8	-2.0	168.5	155.6	12.96	13.006	
2,300.0	2,297.6	2,326.5	2,321.1	6.5	6.9	151.84	-113.0	-2.5	162.7	149.2	13.48	12.073	
2,400.0	2,397.2	2,426.0	2,419.6	6.7	7.2	154.89	-99.2	-3.1	157.3	143.3	14.01	11.229	
2,500.0	2,496.8	2,525.5	2,518.1	7.0	7.5	158.16	-85.3	-3.6	152.4	137.9	14.55	10.473	
2,600.0	2,596.4	2,625.0	2,616.6	7.3	7.9	161.62	-71.5	-4.2	148.1	133.0	15.10	9.806	
2,700.0	2,696.1	2,724.5	2,715.1	7.6	8.2	165.28	-57.7	-4.8	144.3	128.6	15.63	9.228	
2,800.0	2,795.7	2,823.9	2,813.7	8.0	8.5	169.12	-43.8	-5.3	141.1	124.9	16.15	8.737	
2,900.0	2,895.3	2,923.4	2,912.2	8.3	8.9	173.12	-30.0	-5.9	138.6	122.0	16.64	8.331	
2,937.8	2,933.0	2,961.1	2,949.5	8.4	9.0	174.66	-24.7	-6.1	137.8	121.0	16.79	8.209	
3,000.0	2,995.0	3,022.9	3,010.7	8.6	9.3	177.23	-16.1	-6.4	136.5	119.4	17.04	8.009	
3,100.0	3,094.7	3,122.4	3,109.2	8.9	9.6	-178.54	-2.3	-7.0	133.4	116.0	17.43	7.656	
3,200.0	3,194.6	3,221.7	3,207.6	9.2	10.0	-174.05	11.5	-7.5	129.4	111.7	17.74	7.297	
3,300.0	3,294.5	3,321.0	3,305.9	9.5	10.4	-169.16	25.3	-8.1	124.6	106.6	17.93	6.946	
3,400.0	3,394.5	3,419.7	3,403.6	9.7	10.7	-163.83	38.8	-8.6	119.1	101.2	17.96	6.632	
3,437.8	3,432.4	3,456.9	3,440.5	9.8	10.8	-117.79	43.5	-8.8	117.1	99.2	17.91	6.538	
3,500.0	3,494.5	3,518.1	3,501.3	9.8	11.1	-114.51	50.7	-9.1	114.1	96.3	17.79	6.416	
3,600.0	3,594.5	3,616.9	3,599.6	9.9	11.4	-109.56	61.0	-9.5	110.6	93.0	17.63	6.274	
3,700.0	3,694.5	3,716.0	3,698.3	10.0	11.8	-105.20	69.6	-9.9	108.3	90.8	17.51	6.187	
3,800.0	3,794.5	3,815.4	3,797.5	10.0	12.1	-101.58	76.5	-10.1	107.0	89.5	17.45	6.129	
3,900.0	3,894.5	3,915.0	3,897.0	10.1	12.5	-98.80	81.7	-10.4	106.2	88.8	17.47	6.082	
4,000.0	3,994.5	4,014.8	3,996.7	10.2	12.8	-96.92	85.2	-10.5	105.9	88.3	17.55	6.033	
4,100.0	4,094.5	4,114.6	4,096.5	10.3	13.0	-95.97	87.0	-10.6	105.8	88.1	17.69	5.979	
4,166.8	4,161.4	4,181.4	4,163.3	10.4	13.1	-95.85	87.2	-10.6	105.8	88.0	17.79	5.946	
4,200.0	4,194.5	4,214.6	4,196.4	10.4	13.1	-95.85	87.2	-10.6	105.8	87.9	17.84	5.928	
4,300.0	4,294.5	4,314.6	4,296.4	10.5	13.2	-95.85	87.2	-10.6	105.8	87.7	18.03	5.864	
4,400.0	4,394.5	4,414.6	4,396.4	10.6	13.2	-95.85	87.2	-10.6	105.8	87.5	18.23	5.802	
4,500.0	4,494.5	4,514.6	4,496.4	10.6	13.3	-95.85	87.2	-10.6	105.8	87.3	18.42	5.741	
4,600.0	4,594.5	4,614.6	4,596.4	10.7	13.4	-95.85	87.2	-10.6	105.8	87.1	18.61	5.681	
4,700.0	4,694.5	4,714.6	4,696.4	10.8	13.4	-95.85	87.2	-10.6	105.8	87.0	18.81	5.623	

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 #710H
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 #710H	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		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	
4,800.0	4,794.5	4,814.6	4,796.4	10.9	13.5	-95.85	87.2	-10.6	105.8	86.8	19.00	5.567		
4,900.0	4,894.5	4,914.6	4,896.4	11.0	13.6	-95.85	87.2	-10.6	105.8	86.6	19.19	5.511		
5,000.0	4,994.5	5,014.6	4,996.4	11.1	13.7	-95.85	87.2	-10.6	105.8	86.4	19.38	5.457		
5,100.0	5,094.5	5,114.6	5,096.4	11.1	13.7	-95.85	87.2	-10.6	105.8	86.2	19.57	5.404		
5,200.0	5,194.5	5,214.6	5,196.4	11.2	13.8	-95.85	87.2	-10.6	105.8	86.0	19.76	5.353		
5,300.0	5,294.5	5,314.6	5,296.4	11.3	13.9	-95.85	87.2	-10.6	105.8	85.8	19.95	5.302		
5,400.0	5,394.5	5,414.6	5,396.4	11.4	13.9	-95.85	87.2	-10.6	105.8	85.6	20.13	5.253		
5,500.0	5,494.5	5,514.6	5,496.4	11.5	14.0	-95.85	87.2	-10.6	105.8	85.4	20.32	5.204		
5,600.0	5,594.5	5,614.6	5,596.4	11.6	14.1	-95.85	87.2	-10.6	105.8	85.2	20.51	5.157		
5,700.0	5,694.5	5,714.6	5,696.4	11.6	14.1	-95.85	87.2	-10.6	105.8	85.1	20.70	5.110		
5,800.0	5,794.5	5,814.6	5,796.4	11.7	14.2	-95.85	87.2	-10.6	105.8	84.9	20.88	5.064		
5,900.0	5,894.5	5,914.6	5,896.4	11.8	14.3	-95.85	87.2	-10.6	105.8	84.7	21.07	5.020		
6,000.0	5,994.5	6,014.6	5,996.4	11.9	14.4	-95.85	87.2	-10.6	105.8	84.5	21.25	4.976		
6,100.0	6,094.5	6,114.6	6,096.4	12.0	14.4	-95.85	87.2	-10.6	105.8	84.3	21.44	4.933		
6,200.0	6,194.5	6,214.6	6,196.4	12.1	14.5	-95.85	87.2	-10.6	105.8	84.1	21.62	4.891		
6,300.0	6,294.5	6,314.6	6,296.4	12.1	14.6	-95.85	87.2	-10.6	105.8	83.9	21.81	4.850		
6,400.0	6,394.5	6,414.6	6,396.4	12.2	14.6	-95.85	87.2	-10.6	105.8	83.8	21.99	4.809		
6,500.0	6,494.5	6,514.6	6,496.4	12.3	14.7	-95.85	87.2	-10.6	105.8	83.6	22.18	4.769		
6,600.0	6,594.5	6,614.6	6,596.4	12.4	14.8	-95.85	87.2	-10.6	105.8	83.4	22.36	4.730		
6,700.0	6,694.5	6,714.6	6,696.4	12.5	14.9	-95.85	87.2	-10.6	105.8	83.2	22.54	4.692		
6,800.0	6,794.5	6,814.6	6,796.4	12.6	14.9	-95.85	87.2	-10.6	105.8	83.0	22.72	4.654		
6,900.0	6,894.5	6,914.6	6,896.4	12.6	15.0	-95.85	87.2	-10.6	105.8	82.9	22.91	4.617		
7,000.0	6,994.5	7,014.6	6,996.4	12.7	15.1	-95.85	87.2	-10.6	105.8	82.7	23.09	4.581		
7,100.0	7,094.5	7,114.6	7,096.4	12.8	15.2	-95.85	87.2	-10.6	105.8	82.5	23.27	4.545		
7,200.0	7,194.5	7,214.6	7,196.4	12.9	15.2	-95.85	87.2	-10.6	105.8	82.3	23.45	4.510		
7,300.0	7,294.5	7,314.6	7,296.4	13.0	15.3	-95.85	87.2	-10.6	105.8	82.1	23.63	4.475		
7,400.0	7,394.5	7,414.6	7,396.4	13.1	15.4	-95.85	87.2	-10.6	105.8	81.9	23.81	4.441		
7,500.0	7,494.5	7,514.6	7,496.4	13.1	15.4	-95.85	87.2	-10.6	105.8	81.8	23.99	4.408		
7,600.0	7,594.5	7,614.6	7,596.4	13.2	15.5	-95.85	87.2	-10.6	105.8	81.6	24.17	4.375		
7,700.0	7,694.5	7,714.6	7,696.4	13.3	15.6	-95.85	87.2	-10.6	105.8	81.4	24.35	4.343		
7,800.0	7,794.5	7,814.6	7,796.4	13.4	15.7	-95.85	87.2	-10.6	105.8	81.2	24.53	4.311		
7,900.0	7,894.5	7,914.6	7,896.4	13.5	15.7	-95.85	87.2	-10.6	105.8	81.0	24.71	4.280		
8,000.0	7,994.5	8,014.6	7,996.4	13.6	15.8	-95.85	87.2	-10.6	105.8	80.9	24.89	4.249		
8,100.0	8,094.5	8,114.6	8,096.4	13.6	15.9	-95.85	87.2	-10.6	105.8	80.7	25.07	4.219		
8,200.0	8,194.5	8,214.6	8,196.4	13.7	16.0	-95.85	87.2	-10.6	105.8	80.5	25.25	4.189		
8,300.0	8,294.5	8,314.6	8,296.4	13.8	16.0	-95.85	87.2	-10.6	105.8	80.3	25.43	4.159		
8,400.0	8,394.5	8,414.6	8,396.4	13.9	16.1	-95.85	87.2	-10.6	105.8	80.2	25.60	4.131		
8,500.0	8,494.5	8,514.6	8,496.4	14.0	16.2	-95.85	87.2	-10.6	105.8	80.0	25.78	4.102		
8,600.0	8,594.5	8,614.6	8,596.4	14.0	16.2	-95.85	87.2	-10.6	105.8	79.8	25.96	4.074		
8,700.0	8,694.5	8,714.6	8,696.4	14.1	16.3	-95.85	87.2	-10.6	105.8	79.6	26.14	4.046		
8,800.0	8,794.5	8,814.6	8,796.4	14.2	16.4	-95.85	87.2	-10.6	105.8	79.4	26.31	4.019		
8,900.0	8,894.5	8,914.6	8,896.4	14.3	16.5	-95.85	87.2	-10.6	105.8	79.3	26.49	3.992		
9,000.0	8,994.5	9,014.6	8,996.4	14.4	16.5	-95.85	87.2	-10.6	105.8	79.1	26.67	3.966		
9,100.0	9,094.5	9,114.6	9,096.4	14.5	16.6	-95.85	87.2	-10.6	105.8	78.9	26.84	3.940		
9,200.0	9,194.5	9,214.6	9,196.4	14.5	16.7	-95.85	87.2	-10.6	105.8	78.7	27.02	3.914		
9,300.0	9,294.5	9,314.6	9,296.4	14.6	16.8	-95.85	87.2	-10.6	105.8	78.6	27.20	3.889		
9,400.0	9,394.5	9,414.6	9,396.4	14.7	16.8	-95.85	87.2	-10.6	105.8	78.4	27.37	3.864		
9,500.0	9,494.5	9,514.6	9,496.4	14.8	16.9	-95.85	87.2	-10.6	105.8	78.2	27.55	3.839		
9,600.0	9,594.5	9,614.6	9,596.4	14.9	17.0	-95.85	87.2	-10.6	105.8	78.0	27.72	3.815		
9,700.0	9,694.5	9,714.6	9,696.4	15.0	17.1	-95.85	87.2	-10.6	105.8	77.9	27.90	3.791		
9,800.0	9,794.5	9,814.6	9,796.4	15.0	17.1	-95.85	87.2	-10.6	105.8	77.7	28.07	3.767		
9,900.0	9,894.5	9,914.6	9,896.4	15.1	17.2	-95.85	87.2	-10.6	105.8	77.5	28.25	3.744		

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 #710H
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 #710H	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.0	9,994.5	10,014.6	9,996.4	15.2	17.3	-95.85	87.2	-10.6	105.8	77.3	28.42	3.721	
10,100.0	10,094.5	10,114.6	10,096.4	15.3	17.4	-95.85	87.2	-10.6	105.8	77.2	28.60	3.698	
10,200.0	10,194.5	10,214.6	10,196.4	15.4	17.4	-95.85	87.2	-10.6	105.8	77.0	28.77	3.676	
10,300.0	10,294.5	10,314.6	10,296.4	15.5	17.5	-95.85	87.2	-10.6	105.8	76.8	28.95	3.653	
10,400.0	10,394.5	10,414.6	10,396.4	15.5	17.6	-95.85	87.2	-10.6	105.8	76.6	29.12	3.632	
10,500.0	10,494.5	10,514.6	10,496.4	15.6	17.7	-95.85	87.2	-10.6	105.8	76.5	29.30	3.610	
10,600.0	10,594.5	10,614.6	10,596.4	15.7	17.7	-95.85	87.2	-10.6	105.8	76.3	29.47	3.589	
10,700.0	10,694.5	10,714.6	10,696.4	15.8	17.8	-95.85	87.2	-10.6	105.8	76.1	29.64	3.568	
10,800.0	10,794.5	10,814.6	10,796.4	15.9	17.9	-95.85	87.2	-10.6	105.8	75.9	29.82	3.547	
10,900.0	10,894.5	10,914.6	10,896.4	15.9	18.0	-95.85	87.2	-10.6	105.8	75.8	29.99	3.526	
11,000.0	10,994.5	11,014.6	10,996.4	16.0	18.0	-95.85	87.2	-10.6	105.8	75.6	30.16	3.506	
11,100.0	11,094.5	11,114.6	11,096.4	16.1	18.1	-95.85	87.2	-10.6	105.8	75.4	30.34	3.486	
11,200.0	11,194.5	11,214.6	11,196.4	16.2	18.2	-95.85	87.2	-10.6	105.8	75.2	30.51	3.466	
11,300.0	11,294.5	11,314.6	11,296.4	16.3	18.3	-95.85	87.2	-10.6	105.8	75.1	30.68	3.448	
11,310.5	11,305.0	11,325.1	11,306.9	16.3	18.3	-95.85	87.2	-10.6	105.8	75.1	30.68	3.447 CC, ES, SF	
11,350.0	11,344.5	11,363.7	11,345.5	16.3	18.3	-97.04	85.9	-10.6	106.1	75.3	30.76	3.448	
11,400.0	11,394.2	11,411.0	11,392.5	16.4	18.3	-102.32	80.8	-10.5	107.9	76.9	31.03	3.478	
11,450.0	11,443.2	11,454.7	11,435.5	16.4	18.4	-110.04	72.6	-10.5	113.6	82.0	31.66	3.589	
11,500.0	11,491.1	11,493.7	11,473.1	16.5	18.5	-118.05	62.6	-10.4	125.8	93.1	32.71	3.845	
11,550.0	11,537.6	11,527.0	11,504.7	16.5	18.5	-124.65	52.0	-10.3	145.9	111.9	34.01	4.289	
11,600.0	11,582.4	11,550.0	11,526.1	16.6	18.5	-127.87	43.7	-10.3	173.8	138.3	35.50	4.894	
11,650.0	11,625.0	11,576.9	11,550.7	16.7	18.6	-131.28	32.8	-10.2	208.0	171.6	36.33	5.724	
11,700.0	11,665.2	11,600.0	11,571.4	16.7	18.6	-132.81	22.6	-10.2	247.3	210.4	36.93	6.697	
11,750.0	11,702.7	11,600.0	11,571.4	16.8	18.6	-126.30	22.6	-10.2	290.2	252.1	38.09	7.621	
11,800.0	11,737.1	11,615.1	11,584.7	16.9	18.6	-122.45	15.4	-10.1	335.6	297.3	38.32	8.757	
11,850.0	11,768.3	11,620.1	11,589.1	16.9	18.7	-111.90	13.0	-10.1	382.7	344.1	38.67	9.897	
11,900.0	11,795.9	11,622.2	11,590.9	17.0	18.7	-95.46	12.0	-10.1	430.9	392.0	38.91	11.073	
11,950.0	11,819.8	11,621.6	11,590.4	17.0	18.7	-74.49	12.2	-10.1	479.5	440.5	39.06	12.275	
12,000.0	11,839.8	11,618.8	11,588.0	17.1	18.7	-54.58	13.6	-10.1	528.2	489.0	39.14	13.495	
12,050.0	11,855.7	11,614.1	11,583.9	17.2	18.6	-39.85	15.9	-10.1	576.4	537.3	39.14	14.726	
12,100.0	11,867.4	11,600.0	11,571.4	17.2	18.6	-29.04	22.6	-10.2	624.0	584.8	39.24	15.903	
12,150.0	11,874.8	11,600.0	11,571.4	17.2	18.6	-23.49	22.6	-10.2	670.5	631.5	38.99	17.194	
12,200.0	11,877.9	11,600.0	11,571.4	17.3	18.6	-19.50	22.6	-10.2	715.9	677.2	38.71	18.493	
12,210.5	11,878.0	11,600.0	11,571.4	17.3	18.6	-18.80	22.6	-10.2	725.4	686.7	38.65	18.769	
12,300.0	11,878.0	11,572.2	11,546.5	17.3	18.6	-17.49	34.8	-10.2	805.2	766.6	38.55	20.885	
12,400.0	11,878.0	11,550.0	11,526.1	17.5	18.5	-16.55	43.7	-10.3	896.0	857.6	38.37	23.348	
12,500.0	11,878.0	11,550.0	11,526.1	17.6	18.5	-16.55	43.7	-10.3	987.9	949.9	38.02	25.987	

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 #710H
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 #710H	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	171.17	-200.3	31.1	202.7				
100.0	100.0	101.6	101.6	3.0	3.0	171.17	-200.3	31.1	202.7	196.2	6.52	31.078	
200.0	200.0	201.6	201.6	3.2	3.2	171.17	-200.3	31.1	202.7	196.0	6.77	29.933	
300.0	300.0	301.6	301.6	3.3	3.3	171.17	-200.3	31.1	202.7	195.7	7.02	28.880	
400.0	400.0	401.6	401.6	3.4	3.4	171.17	-200.3	31.1	202.7	195.5	7.27	27.906	
500.0	500.0	501.6	501.6	3.5	3.5	171.17	-200.3	31.1	202.7	195.2	7.51	27.003	
600.0	600.0	601.6	601.6	3.7	3.7	171.17	-200.3	31.1	202.7	195.0	7.75	26.161	
700.0	700.0	701.6	701.6	3.8	3.8	171.17	-200.3	31.1	202.7	194.8	7.99	25.375	
800.0	800.0	801.6	801.6	3.9	3.9	171.17	-200.3	31.1	202.7	194.5	8.23	24.639	
900.0	900.0	901.6	901.6	4.0	4.0	171.17	-200.3	31.1	202.7	194.3	8.47	23.947	
1,000.0	1,000.0	1,001.6	1,001.6	4.2	4.2	171.17	-200.3	31.1	202.7	194.0	8.70	23.297	
1,100.0	1,100.0	1,101.6	1,101.6	4.3	4.3	171.17	-200.3	31.1	202.7	193.8	8.94	22.683	
1,200.0	1,200.0	1,201.6	1,201.6	4.4	4.4	171.17	-200.3	31.1	202.7	193.6	9.17	22.103	
1,300.0	1,300.0	1,301.6	1,301.6	4.5	4.5	171.17	-200.3	31.1	202.7	193.3	9.41	21.553	
1,400.0	1,400.0	1,401.6	1,401.6	4.6	4.6	171.17	-200.3	31.1	202.7	193.1	9.64	21.033	
1,500.0	1,500.0	1,501.7	1,501.7	4.8	4.8	171.17	-200.3	31.1	202.7	192.9	9.87	20.537	
1,600.0	1,600.0	1,606.0	1,606.0	4.9	4.9	127.32	-199.1	31.8	202.7	192.6	10.13	20.004	
1,700.0	1,699.8	1,710.3	1,710.2	5.1	5.1	127.79	-195.3	34.0	202.6	192.1	10.51	19.279	
1,750.0	1,749.7	1,762.5	1,762.3	5.2	5.2	128.14	-192.5	35.6	202.6	192.0	10.65	19.025	
1,800.0	1,799.5	1,814.7	1,814.3	5.3	5.3	128.47	-189.1	37.6	202.3	191.5	10.79	18.748	
1,900.0	1,899.1	1,919.0	1,918.2	5.5	5.6	128.76	-180.5	42.6	200.2	189.0	11.17	17.916	
2,000.0	1,998.7	2,023.2	2,021.6	5.7	5.8	128.56	-169.4	49.0	195.8	184.3	11.54	16.971	
2,100.0	2,098.4	2,118.8	2,116.3	5.9	6.0	127.86	-158.8	56.5	191.3	179.4	11.90	16.074	
2,200.0	2,198.0	2,213.5	2,210.1	6.2	6.3	126.60	-150.6	66.1	189.5	177.2	12.31	15.395	
2,211.8	2,209.8	2,224.7	2,221.2	6.2	6.3	126.42	-149.7	67.4	189.5	177.1	12.35	15.349 CC, ES	
2,300.0	2,297.6	2,310.3	2,306.0	6.5	6.5	124.83	-144.3	77.9	190.4	177.8	12.58	15.136	
2,400.0	2,397.2	2,410.1	2,404.9	6.7	6.8	122.94	-138.2	90.4	191.9	179.0	12.87	14.909	
2,500.0	2,496.8	2,509.9	2,503.7	7.0	7.0	121.08	-132.1	102.9	193.6	180.4	13.15	14.723	
2,600.0	2,596.4	2,609.7	2,602.5	7.3	7.4	119.26	-126.0	115.3	195.5	182.1	13.41	14.574	
2,700.0	2,696.1	2,709.5	2,701.3	7.6	7.7	117.48	-119.9	127.8	197.6	183.9	13.67	14.458	
2,800.0	2,795.7	2,809.3	2,800.1	8.0	8.0	115.73	-113.9	140.3	199.9	186.0	13.91	14.371	
2,900.0	2,895.3	2,909.1	2,899.0	8.3	8.3	114.03	-107.8	152.8	202.4	188.2	14.14	14.310	
2,937.8	2,933.0	2,946.8	2,936.3	8.4	8.5	113.40	-105.5	157.5	203.3	189.1	14.20	14.320	
3,000.0	2,995.0	3,008.9	2,997.8	8.6	8.7	112.30	-101.7	165.3	204.9	190.6	14.30	14.324	
3,100.0	3,094.7	3,108.5	3,096.5	8.9	9.1	110.20	-95.6	177.7	207.0	192.5	14.49	14.286	
3,200.0	3,194.6	3,208.1	3,195.1	9.2	9.4	107.69	-89.5	190.2	208.9	194.3	14.65	14.260	
3,300.0	3,294.5	3,307.5	3,293.5	9.5	9.8	104.79	-83.5	202.6	210.7	196.0	14.79	14.251	
3,400.0	3,394.5	3,406.7	3,391.7	9.7	10.2	101.49	-77.4	215.0	212.8	197.8	14.93	14.255	
3,437.8	3,432.4	3,444.2	3,428.9	9.8	10.3	144.15	-75.1	219.7	213.6	198.7	14.96	14.284	
3,500.0	3,494.5	3,505.8	3,489.8	9.8	10.6	141.90	-71.4	227.4	215.3	200.3	15.03	14.320	
3,600.0	3,594.5	3,604.8	3,587.9	9.9	10.9	138.37	-65.3	239.8	218.7	203.4	15.26	14.326	
3,700.0	3,694.5	3,703.8	3,685.9	10.0	11.3	134.95	-59.3	252.2	222.9	207.3	15.56	14.318	
3,800.0	3,794.5	3,802.8	3,784.0	10.0	11.7	131.67	-53.2	264.6	227.8	211.9	15.94	14.296	
3,900.0	3,894.5	3,901.9	3,882.1	10.1	12.1	128.53	-47.2	277.0	233.5	217.1	16.37	14.263	
4,000.0	3,994.5	4,000.9	3,980.1	10.2	12.5	125.55	-41.2	289.4	239.9	223.0	16.87	14.221	
4,100.0	4,094.5	4,099.9	4,078.2	10.3	12.9	122.73	-35.1	301.7	246.8	229.4	17.41	14.176	
4,200.0	4,194.5	4,198.9	4,176.3	10.4	13.3	120.07	-29.1	314.1	254.4	236.4	18.00	14.133	
4,300.0	4,294.5	4,298.0	4,274.3	10.5	13.7	117.56	-23.0	326.5	262.5	243.9	18.62	14.095	
4,400.0	4,394.5	4,397.0	4,372.4	10.6	14.1	115.21	-17.0	338.9	271.0	251.8	19.27	14.065	
4,500.0	4,494.5	4,496.0	4,470.5	10.6	14.5	113.00	-10.9	351.3	280.0	260.1	19.94	14.045	
4,600.0	4,594.5	4,595.0	4,568.5	10.7	14.9	110.93	-4.9	363.7	289.4	268.8	20.62	14.036	
4,700.0	4,694.5	4,694.1	4,666.6	10.8	15.3	108.99	1.1	376.1	299.1	277.8	21.31	14.037	

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 #710H
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 #710H	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			Rule Assigned: 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		
4,800.0	4,794.5	4,793.1	4,764.6	10.9	15.7	107.18	7.2	388.5	309.1	287.1	22.00	14.050		
4,900.0	4,894.5	4,900.8	4,871.6	11.0	16.3	105.56	12.9	400.2	318.2	295.3	22.85	13.923		
5,000.0	4,994.5	5,009.7	4,980.1	11.1	16.7	104.48	16.9	408.5	324.5	301.1	23.45	13.837		
5,100.0	5,094.5	5,119.1	5,089.4	11.1	17.1	103.91	19.1	413.0	328.1	304.1	23.90	13.723		
5,200.0	5,194.5	5,226.0	5,196.2	11.2	17.2	103.79	19.6	413.9	328.8	304.6	24.15	13.615		
5,300.0	5,294.5	5,326.0	5,296.2	11.3	17.4	103.79	19.6	413.9	328.8	304.4	24.39	13.481		
5,400.0	5,394.5	5,426.0	5,396.2	11.4	17.4	103.79	19.6	413.9	328.8	304.2	24.53	13.401		
5,500.0	5,494.5	5,526.0	5,496.2	11.5	17.5	103.79	19.6	413.9	328.8	304.1	24.68	13.322		
5,600.0	5,594.5	5,626.0	5,596.2	11.6	17.5	103.79	19.6	413.9	328.8	304.0	24.83	13.244		
5,700.0	5,694.5	5,726.0	5,696.2	11.6	17.6	103.79	19.6	413.9	328.8	303.8	24.97	13.166		
5,800.0	5,794.5	5,826.0	5,796.2	11.7	17.6	103.79	19.6	413.9	328.8	303.7	25.12	13.089		
5,900.0	5,894.5	5,926.0	5,896.2	11.8	17.7	103.79	19.6	413.9	328.8	303.5	25.26	13.014		
6,000.0	5,994.5	6,026.0	5,996.2	11.9	17.7	103.79	19.6	413.9	328.8	303.4	25.41	12.938		
6,100.0	6,094.5	6,126.0	6,096.2	12.0	17.8	103.79	19.6	413.9	328.8	303.2	25.56	12.864		
6,200.0	6,194.5	6,226.0	6,196.2	12.1	17.8	103.79	19.6	413.9	328.8	303.1	25.71	12.791		
6,300.0	6,294.5	6,326.0	6,296.2	12.1	17.9	103.79	19.6	413.9	328.8	302.9	25.85	12.718		
6,400.0	6,394.5	6,426.0	6,396.2	12.2	17.9	103.79	19.6	413.9	328.8	302.8	26.00	12.646		
6,500.0	6,494.5	6,526.0	6,496.2	12.3	18.0	103.79	19.6	413.9	328.8	302.6	26.15	12.574		
6,600.0	6,594.5	6,626.0	6,596.2	12.4	18.0	103.79	19.6	413.9	328.8	302.5	26.29	12.504		
6,700.0	6,694.5	6,726.0	6,696.2	12.5	18.1	103.79	19.6	413.9	328.8	302.3	26.44	12.434		
6,800.0	6,794.5	6,826.0	6,796.2	12.6	18.1	103.79	19.6	413.9	328.8	302.2	26.59	12.365		
6,900.0	6,894.5	6,926.0	6,896.2	12.6	18.2	103.79	19.6	413.9	328.8	302.0	26.74	12.296		
7,000.0	6,994.5	7,026.0	6,996.2	12.7	18.2	103.79	19.6	413.9	328.8	301.9	26.89	12.228		
7,100.0	7,094.5	7,126.0	7,096.2	12.8	18.3	103.79	19.6	413.9	328.8	301.7	27.04	12.161		
7,200.0	7,194.5	7,226.0	7,196.2	12.9	18.3	103.79	19.6	413.9	328.8	301.6	27.18	12.095		
7,300.0	7,294.5	7,326.0	7,296.2	13.0	18.4	103.79	19.6	413.9	328.8	301.4	27.33	12.029		
7,400.0	7,394.5	7,426.0	7,396.2	13.1	18.5	103.79	19.6	413.9	328.8	301.3	27.48	11.964		
7,500.0	7,494.5	7,526.0	7,496.2	13.1	18.5	103.79	19.6	413.9	328.8	301.2	27.63	11.899		
7,600.0	7,594.5	7,626.0	7,596.2	13.2	18.6	103.79	19.6	413.9	328.8	301.0	27.78	11.836		
7,700.0	7,694.5	7,726.0	7,696.2	13.3	18.6	103.79	19.6	413.9	328.8	300.9	27.93	11.772		
7,800.0	7,794.5	7,826.0	7,796.2	13.4	18.7	103.79	19.6	413.9	328.8	300.7	28.08	11.710		
7,900.0	7,894.5	7,926.0	7,896.2	13.5	18.7	103.79	19.6	413.9	328.8	300.6	28.23	11.648		
8,000.0	7,994.5	8,026.0	7,996.2	13.6	18.8	103.79	19.6	413.9	328.8	300.4	28.38	11.586		
8,100.0	8,094.5	8,126.0	8,096.2	13.6	18.8	103.79	19.6	413.9	328.8	300.3	28.53	11.525		
8,200.0	8,194.5	8,226.0	8,196.2	13.7	18.9	103.79	19.6	413.9	328.8	300.1	28.68	11.465		
8,300.0	8,294.5	8,326.0	8,296.2	13.8	19.0	103.79	19.6	413.9	328.8	300.0	28.83	11.405		
8,400.0	8,394.5	8,426.0	8,396.2	13.9	19.0	103.79	19.6	413.9	328.8	299.8	28.98	11.346		
8,500.0	8,494.5	8,526.0	8,496.2	14.0	19.1	103.79	19.6	413.9	328.8	299.7	29.13	11.288		
8,600.0	8,594.5	8,626.0	8,596.2	14.0	19.1	103.79	19.6	413.9	328.8	299.5	29.28	11.230		
8,700.0	8,694.5	8,726.0	8,696.2	14.1	19.2	103.79	19.6	413.9	328.8	299.4	29.43	11.172		
8,800.0	8,794.5	8,826.0	8,796.2	14.2	19.2	103.79	19.6	413.9	328.8	299.2	29.58	11.116		
8,900.0	8,894.5	8,926.0	8,896.2	14.3	19.3	103.79	19.6	413.9	328.8	299.1	29.73	11.059		
9,000.0	8,994.5	9,026.0	8,996.2	14.4	19.3	103.79	19.6	413.9	328.8	298.9	29.88	11.003		
9,100.0	9,094.5	9,126.0	9,096.2	14.5	19.4	103.79	19.6	413.9	328.8	298.8	30.03	10.948		
9,200.0	9,194.5	9,226.0	9,196.2	14.5	19.5	103.79	19.6	413.9	328.8	298.6	30.18	10.893		
9,300.0	9,294.5	9,326.0	9,296.2	14.6	19.5	103.79	19.6	413.9	328.8	298.4	30.33	10.839		
9,400.0	9,394.5	9,426.0	9,396.2	14.7	19.6	103.79	19.6	413.9	328.8	298.3	30.48	10.785		
9,500.0	9,494.5	9,526.0	9,496.2	14.8	19.6	103.79	19.6	413.9	328.8	298.1	30.64	10.732		
9,600.0	9,594.5	9,626.0	9,596.2	14.9	19.7	103.79	19.6	413.9	328.8	298.0	30.79	10.679		
9,700.0	9,694.5	9,726.0	9,696.2	15.0	19.8	103.79	19.6	413.9	328.8	297.8	30.94	10.627		
9,800.0	9,794.5	9,826.0	9,796.2	15.0	19.8	103.79	19.6	413.9	328.8	297.7	31.09	10.575		
9,900.0	9,894.5	9,926.0	9,896.2	15.1	19.9	103.79	19.6	413.9	328.8	297.5	31.24	10.524		

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 #710H
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 #710H	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		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	9,994.5	10,026.0	9,996.2	15.2	19.9	103.79	19.6	413.9	328.8	297.4	31.39	10.473	
10,100.0	10,094.5	10,126.0	10,096.2	15.3	20.0	103.79	19.6	413.9	328.8	297.2	31.55	10.422	
10,200.0	10,194.5	10,226.0	10,196.2	15.4	20.0	103.79	19.6	413.9	328.8	297.1	31.70	10.373	
10,300.0	10,294.5	10,326.0	10,296.2	15.5	20.1	103.79	19.6	413.9	328.8	296.9	31.85	10.323	
10,400.0	10,394.5	10,426.0	10,396.2	15.5	20.2	103.79	19.6	413.9	328.8	296.8	32.00	10.274	
10,500.0	10,494.5	10,526.0	10,496.2	15.6	20.2	103.79	19.6	413.9	328.8	296.6	32.15	10.225	
10,600.0	10,594.5	10,626.0	10,596.2	15.7	20.3	103.79	19.6	413.9	328.8	296.5	32.31	10.177	
10,700.0	10,694.5	10,726.0	10,696.2	15.8	20.3	103.79	19.6	413.9	328.8	296.3	32.46	10.129	
10,800.0	10,794.5	10,826.0	10,796.2	15.9	20.4	103.79	19.6	413.9	328.8	296.2	32.61	10.082	
10,900.0	10,894.5	10,926.0	10,896.2	15.9	20.5	103.79	19.6	413.9	328.8	296.0	32.76	10.035	
11,000.0	10,994.5	11,026.0	10,996.2	16.0	20.5	103.79	19.6	413.9	328.8	295.9	32.92	9.988	
11,100.0	11,094.5	11,126.0	11,096.2	16.1	20.6	103.79	19.6	413.9	328.8	295.7	33.06	9.944	
11,110.0	11,104.5	11,136.0	11,106.2	16.1	20.6	103.79	19.6	413.9	328.8	295.7	33.08	9.940 SF	
11,200.0	11,194.5	11,217.9	11,188.0	16.2	20.6	104.26	16.9	414.0	329.6	296.4	33.15	9.940	
11,300.0	11,294.5	11,300.0	11,268.9	16.3	20.7	106.56	3.0	414.0	334.3	301.2	33.13	10.092	
11,310.5	11,305.0	11,311.5	11,280.0	16.3	20.7	107.03	0.2	414.1	335.1	302.1	33.08	10.133	
11,350.0	11,344.5	11,342.9	11,310.1	16.3	20.7	108.45	-8.8	414.1	339.2	306.2	33.03	10.268	
11,400.0	11,394.2	11,379.5	11,344.6	16.4	20.7	110.25	-21.3	414.2	347.4	314.4	32.97	10.537	
11,450.0	11,443.2	11,412.0	11,374.3	16.4	20.7	111.95	-34.1	414.3	359.7	326.7	33.00	10.900	
11,500.0	11,491.1	11,439.7	11,399.1	16.5	20.7	113.17	-46.5	414.4	376.6	343.5	33.18	11.351	
11,550.0	11,537.6	11,462.7	11,419.3	16.5	20.8	113.61	-57.6	414.4	398.4	364.9	33.53	11.885	
11,600.0	11,582.4	11,481.2	11,435.1	16.6	20.8	113.07	-67.1	414.5	425.0	391.0	34.01	12.499	
11,650.0	11,625.0	11,500.0	11,450.9	16.7	20.8	112.03	-77.3	414.6	456.0	421.6	34.43	13.246	
11,700.0	11,665.2	11,500.0	11,450.9	16.7	20.8	107.47	-77.3	414.6	490.8	455.5	35.31	13.898	
11,750.0	11,702.7	11,513.0	11,461.6	16.8	20.8	103.95	-84.7	414.6	528.5	492.9	35.68	14.815	
11,800.0	11,737.1	11,517.0	11,464.9	16.9	20.8	97.99	-87.0	414.6	568.8	532.6	36.15	15.731	
11,850.0	11,768.3	11,518.4	11,466.0	16.9	20.8	90.54	-87.8	414.6	610.7	574.2	36.55	16.708	
11,900.0	11,795.9	11,517.5	11,465.3	17.0	20.8	81.90	-87.3	414.6	653.8	616.9	36.87	17.735	
11,950.0	11,819.8	11,514.5	11,462.9	17.0	20.8	72.63	-85.6	414.6	697.5	660.4	37.10	18.802	
12,000.0	11,839.8	11,500.0	11,450.9	17.1	20.8	62.09	-77.3	414.6	741.5	704.1	37.45	19.801	
12,050.0	11,855.7	11,500.0	11,450.9	17.2	20.8	54.58	-77.3	414.6	785.1	747.7	37.40	20.990	
12,100.0	11,867.4	11,500.0	11,450.9	17.2	20.8	47.98	-77.3	414.6	828.1	790.8	37.28	22.211	
12,150.0	11,874.8	11,500.0	11,450.9	17.2	20.8	42.34	-77.3	414.6	870.5	833.3	37.11	23.459	
12,200.0	11,877.9	11,477.7	11,432.1	17.3	20.8	36.34	-65.3	414.5	911.2	874.0	37.23	24.477	
12,210.5	11,878.0	11,475.5	11,430.3	17.3	20.8	35.40	-64.1	414.5	919.7	882.5	37.20	24.724	
12,300.0	11,878.0	11,450.0	11,408.2	17.3	20.8	34.11	-51.3	414.4	992.4	955.3	37.11	26.746	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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	163.07	-200.5	61.0	209.6				
100.0	100.0	101.9	101.9	3.0	3.0	163.07	-200.5	61.0	209.6	203.1	6.52	32.128	
200.0	200.0	201.9	201.9	3.2	3.2	163.07	-200.5	61.0	209.6	202.8	6.77	30.947	
300.0	300.0	301.9	301.9	3.3	3.3	163.07	-200.5	61.0	209.6	202.6	7.02	29.862	
400.0	400.0	401.9	401.9	3.4	3.4	163.07	-200.5	61.0	209.6	202.3	7.26	28.860	
500.0	500.0	501.9	501.9	3.5	3.5	163.07	-200.5	61.0	209.6	202.1	7.50	27.932	
600.0	600.0	601.9	601.9	3.7	3.7	163.07	-200.5	61.0	209.6	201.9	7.74	27.068	
700.0	700.0	701.9	701.9	3.8	3.8	163.07	-200.5	61.0	209.6	201.6	7.98	26.261	
800.0	800.0	801.9	801.9	3.9	3.9	163.07	-200.5	61.0	209.6	201.4	8.22	25.506	
900.0	900.0	901.9	901.9	4.0	4.0	163.07	-200.5	61.0	209.6	201.1	8.45	24.798	
1,000.0	1,000.0	1,001.9	1,001.9	4.2	4.2	163.07	-200.5	61.0	209.6	200.9	8.69	24.131	
1,100.0	1,100.0	1,101.9	1,101.9	4.3	4.3	163.07	-200.5	61.0	209.6	200.7	8.92	23.502	
1,200.0	1,200.0	1,201.9	1,201.9	4.4	4.4	163.07	-200.5	61.0	209.6	200.4	9.15	22.908	
1,300.0	1,300.0	1,301.9	1,301.9	4.5	4.5	163.07	-200.5	61.0	209.6	200.2	9.38	22.346	
1,400.0	1,400.0	1,401.9	1,401.9	4.6	4.6	163.07	-200.5	61.0	209.6	200.0	9.61	21.812	
1,500.0	1,500.0	1,502.0	1,502.0	4.8	4.8	163.07	-200.5	61.0	209.6	199.8	9.84	21.306	
1,505.7	1,505.7	1,507.8	1,507.8	4.8	4.8	119.07	-200.5	61.0	209.6	199.7	9.85	21.274	
1,600.0	1,600.0	1,604.6	1,604.6	4.9	4.9	119.15	-199.5	62.1	209.8	199.7	10.06	20.845	
1,700.0	1,699.8	1,707.3	1,707.2	5.1	5.1	119.41	-196.5	65.0	210.4	200.0	10.41	20.221	
1,750.0	1,749.7	1,758.7	1,758.5	5.2	5.2	119.61	-194.3	67.2	210.9	200.4	10.53	20.033	
1,800.0	1,799.5	1,810.0	1,809.7	5.3	5.3	119.75	-191.6	69.9	211.3	200.6	10.65	19.840	
1,900.0	1,899.1	1,912.7	1,911.9	5.5	5.5	119.55	-184.8	76.8	211.0	200.1	10.98	19.228	
2,000.0	1,998.7	2,015.3	2,013.8	5.7	5.8	118.69	-176.0	85.6	209.6	198.3	11.28	18.574	
2,100.0	2,098.4	2,112.1	2,109.5	5.9	6.0	117.21	-166.8	96.1	208.0	196.5	11.55	18.008	
2,119.5	2,117.8	2,130.7	2,127.9	6.0	6.0	116.84	-165.2	98.5	208.0	196.4	11.62	17.903 CC, ES	
2,200.0	2,198.0	2,207.3	2,203.5	6.2	6.2	115.06	-158.9	109.4	208.8	196.9	11.88	17.581	
2,300.0	2,297.6	2,302.0	2,296.5	6.5	6.5	112.33	-152.2	125.5	212.1	200.0	12.14	17.472 SF	
2,400.0	2,397.2	2,399.0	2,391.4	6.7	6.8	109.14	-146.2	144.5	218.0	205.7	12.29	17.734	
2,500.0	2,496.8	2,498.0	2,488.3	7.0	7.1	106.01	-140.1	164.2	224.7	212.2	12.52	17.956	
2,600.0	2,596.4	2,597.0	2,585.1	7.3	7.4	103.07	-134.1	183.9	232.1	219.4	12.76	18.200	
2,700.0	2,696.1	2,696.0	2,682.0	7.6	7.8	100.31	-128.1	203.6	240.1	227.1	13.01	18.452	
2,800.0	2,795.7	2,795.1	2,778.9	8.0	8.1	97.74	-122.1	223.3	248.6	235.3	13.30	18.700	
2,900.0	2,895.3	2,894.1	2,875.7	8.3	8.5	95.34	-116.1	243.0	257.6	244.0	13.60	18.935	
2,937.8	2,933.0	2,931.6	2,912.4	8.4	8.7	94.47	-113.8	250.4	261.1	247.4	13.70	19.058	
3,000.0	2,995.0	2,993.1	2,972.6	8.6	8.9	93.08	-110.0	262.7	267.0	253.1	13.88	19.230	
3,100.0	3,094.7	3,091.9	3,069.2	8.9	9.3	90.70	-104.0	282.3	276.8	262.5	14.26	19.411	
3,200.0	3,194.6	3,190.5	3,165.7	9.2	9.7	88.16	-98.0	301.9	287.1	272.4	14.68	19.561	
3,300.0	3,294.5	3,288.9	3,261.9	9.5	10.1	85.48	-92.1	321.5	298.1	282.9	15.15	19.679	
3,400.0	3,394.5	3,387.0	3,357.8	9.7	10.5	82.70	-86.1	341.0	310.0	294.3	15.68	19.771	
3,437.8	3,432.4	3,424.0	3,394.0	9.8	10.7	125.63	-83.8	348.3	314.7	298.9	15.87	19.831	
3,500.0	3,494.5	3,484.8	3,453.5	9.8	10.9	123.83	-80.2	360.4	322.8	306.6	16.21	19.913	
3,600.0	3,594.5	3,582.6	3,549.2	9.9	11.3	121.12	-74.2	379.9	336.5	319.7	16.84	19.990	
3,700.0	3,694.5	3,680.4	3,644.9	10.0	11.8	118.62	-68.3	399.3	350.9	333.4	17.48	20.070	
3,800.0	3,794.5	3,778.2	3,740.5	10.0	12.2	116.32	-62.3	418.8	365.9	347.8	18.15	20.156	
3,900.0	3,894.5	3,876.0	3,836.2	10.1	12.6	114.19	-56.4	438.2	381.5	362.6	18.84	20.249	
4,000.0	3,994.5	3,973.9	3,931.9	10.2	13.0	112.24	-50.4	457.7	397.5	378.0	19.53	20.351	
4,100.0	4,094.5	4,071.7	4,027.6	10.3	13.5	110.43	-44.5	477.1	413.9	393.7	20.23	20.460	
4,200.0	4,194.5	4,169.5	4,123.3	10.4	13.9	108.76	-38.5	496.6	430.8	409.8	20.93	20.577	
4,300.0	4,294.5	4,267.3	4,218.9	10.5	14.3	107.22	-32.6	516.0	447.9	426.3	21.64	20.699	
4,400.0	4,394.5	4,365.1	4,314.6	10.6	14.8	105.79	-26.6	535.5	465.4	443.0	22.34	20.827	
4,500.0	4,494.5	4,462.9	4,410.3	10.6	15.2	104.46	-20.7	554.9	483.1	460.0	23.05	20.958	
4,600.0	4,594.5	4,560.8	4,506.0	10.7	15.7	103.23	-14.7	574.4	501.0	477.3	23.75	21.093	

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 #710H
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 #710H	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							Rule Assigned:		Offset Well Error: 3.0 usft			
Measured Depth	Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,700.0	4,694.5	4,658.6	4,601.6	10.8	16.1	102.08	-8.8	593.8	519.2	494.7	24.46	21.229		
4,800.0	4,794.5	4,756.4	4,697.3	10.9	16.5	101.00	-2.9	613.3	537.6	512.4	25.16	21.367		
4,900.0	4,894.5	4,854.2	4,793.0	11.0	17.0	100.00	3.1	632.7	556.1	530.2	25.86	21.505		
5,000.0	4,994.5	4,952.0	4,888.7	11.1	17.4	99.07	9.0	652.2	574.8	548.2	26.56	21.643		
5,100.0	5,094.5	5,049.8	4,984.3	11.1	17.9	98.19	15.0	671.6	593.6	566.3	27.25	21.781		
5,200.0	5,194.5	5,147.6	5,080.0	11.2	18.3	97.36	20.9	691.0	612.5	584.6	27.95	21.917		
5,300.0	5,294.5	5,245.5	5,175.7	11.3	18.8	96.59	26.9	710.5	631.6	603.0	28.64	22.055		
5,400.0	5,394.5	5,349.6	5,277.6	11.4	19.3	95.82	33.1	730.9	650.5	621.1	29.37	22.147		
5,500.0	5,494.5	5,459.5	5,385.6	11.5	19.8	95.12	39.2	750.7	668.0	637.8	30.13	22.173		
5,600.0	5,594.5	5,570.2	5,494.7	11.6	20.2	94.53	44.6	768.6	683.7	652.9	30.84	22.173		
5,700.0	5,694.5	5,681.6	5,604.8	11.6	20.7	94.02	49.5	784.6	697.7	666.2	31.52	22.139		
5,800.0	5,794.5	5,793.6	5,715.8	11.7	21.2	93.59	53.8	798.6	710.0	677.8	32.16	22.074		
5,900.0	5,894.5	5,906.2	5,827.7	11.8	21.7	93.24	57.5	810.6	720.4	687.7	32.78	21.979		
6,000.0	5,994.5	6,019.2	5,940.2	11.9	22.1	92.95	60.5	820.6	729.1	695.7	33.35	21.861		
6,100.0	6,094.5	6,132.6	6,053.3	12.0	22.5	92.74	62.9	828.4	735.9	702.0	33.88	21.720		
6,200.0	6,194.5	6,246.2	6,166.8	12.1	22.9	92.58	64.7	834.1	740.8	706.4	34.36	21.562		
6,300.0	6,294.5	6,360.1	6,280.6	12.1	23.2	92.49	65.7	837.6	743.9	709.1	34.77	21.394		
6,400.0	6,394.5	6,474.0	6,394.5	12.2	23.5	92.45	66.2	839.0	745.1	710.0	35.02	21.276		
6,500.0	6,494.5	6,575.9	6,496.5	12.3	23.5	92.45	66.2	839.0	745.1	709.9	35.15	21.198		
6,600.0	6,594.5	6,675.9	6,596.5	12.4	23.6	92.45	66.2	839.0	745.1	709.8	35.26	21.132		
6,700.0	6,694.5	6,775.9	6,696.5	12.5	23.6	92.45	66.2	839.0	745.1	709.7	35.36	21.070		
6,800.0	6,794.5	6,875.9	6,796.5	12.6	23.6	92.45	66.2	839.0	745.1	709.6	35.47	21.007		
6,900.0	6,894.5	6,975.9	6,896.5	12.6	23.7	92.45	66.2	839.0	745.1	709.5	35.57	20.945		
7,000.0	6,994.5	7,075.9	6,996.5	12.7	23.7	92.45	66.2	839.0	745.1	709.4	35.68	20.883		
7,100.0	7,094.5	7,175.9	7,096.5	12.8	23.8	92.45	66.2	839.0	745.1	709.3	35.79	20.821		
7,200.0	7,194.5	7,275.9	7,196.5	12.9	23.8	92.45	66.2	839.0	745.1	709.2	35.89	20.759		
7,300.0	7,294.5	7,375.9	7,296.5	13.0	23.8	92.45	66.2	839.0	745.1	709.1	36.00	20.697		
7,400.0	7,394.5	7,475.9	7,396.5	13.1	23.9	92.45	66.2	839.0	745.1	709.0	36.11	20.636		
7,500.0	7,494.5	7,575.9	7,496.5	13.1	23.9	92.45	66.2	839.0	745.1	708.9	36.21	20.574		
7,600.0	7,594.5	7,675.9	7,596.5	13.2	23.9	92.45	66.2	839.0	745.1	708.8	36.32	20.513		
7,700.0	7,694.5	7,775.9	7,696.5	13.3	24.0	92.45	66.2	839.0	745.1	708.6	36.43	20.452		
7,800.0	7,794.5	7,875.9	7,796.5	13.4	24.0	92.45	66.2	839.0	745.1	708.5	36.54	20.391		
7,900.0	7,894.5	7,975.9	7,896.5	13.5	24.1	92.45	66.2	839.0	745.1	708.4	36.65	20.330		
8,000.0	7,994.5	8,075.9	7,996.5	13.6	24.1	92.45	66.2	839.0	745.1	708.3	36.76	20.269		
8,100.0	8,094.5	8,175.9	8,096.5	13.6	24.1	92.45	66.2	839.0	745.1	708.2	36.87	20.208		
8,200.0	8,194.5	8,275.9	8,196.5	13.7	24.2	92.45	66.2	839.0	745.1	708.1	36.98	20.148		
8,300.0	8,294.5	8,375.9	8,296.5	13.8	24.2	92.45	66.2	839.0	745.1	708.0	37.09	20.088		
8,400.0	8,394.5	8,475.9	8,396.5	13.9	24.3	92.45	66.2	839.0	745.1	707.9	37.20	20.028		
8,500.0	8,494.5	8,575.9	8,496.5	14.0	24.3	92.45	66.2	839.0	745.1	707.8	37.31	19.968		
8,600.0	8,594.5	8,675.9	8,596.5	14.0	24.3	92.45	66.2	839.0	745.1	707.7	37.43	19.908		
8,700.0	8,694.5	8,775.9	8,696.5	14.1	24.4	92.45	66.2	839.0	745.1	707.5	37.54	19.848		
8,800.0	8,794.5	8,875.9	8,796.5	14.2	24.4	92.45	66.2	839.0	745.1	707.4	37.65	19.789		
8,900.0	8,894.5	8,975.9	8,896.5	14.3	24.5	92.45	66.2	839.0	745.1	707.3	37.76	19.730		
9,000.0	8,994.5	9,075.9	8,996.5	14.4	24.5	92.45	66.2	839.0	745.1	707.2	37.88	19.670		
9,100.0	9,094.5	9,175.9	9,096.5	14.5	24.5	92.45	66.2	839.0	745.1	707.1	37.99	19.612		
9,200.0	9,194.5	9,275.9	9,196.5	14.5	24.6	92.45	66.2	839.0	745.1	707.0	38.11	19.553		
9,300.0	9,294.5	9,375.9	9,296.5	14.6	24.6	92.45	66.2	839.0	745.1	706.9	38.22	19.494		
9,400.0	9,394.5	9,475.9	9,396.5	14.7	24.7	92.45	66.2	839.0	745.1	706.7	38.34	19.436		
9,500.0	9,494.5	9,575.9	9,496.5	14.8	24.7	92.45	66.2	839.0	745.1	706.6	38.45	19.378		
9,600.0	9,594.5	9,675.9	9,596.5	14.9	24.8	92.45	66.2	839.0	745.1	706.5	38.57	19.320		
9,700.0	9,694.5	9,775.9	9,696.5	15.0	24.8	92.45	66.2	839.0	745.1	706.4	38.68	19.262		
9,800.0	9,794.5	9,875.9	9,796.5	15.0	24.8	92.45	66.2	839.0	745.1	706.3	38.80	19.204		

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 #710H
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 #710H	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		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)			
9,900.0	9,894.5	9,975.9	9,896.5	15.1	24.9	92.45	66.2	839.0	745.1	706.2	Minimum Separation	38.91	19.146
10,000.0	9,994.5	10,075.9	9,996.5	15.2	24.9	92.45	66.2	839.0	745.1	706.0		39.03	19.089
10,100.0	10,094.5	10,175.9	10,096.5	15.3	25.0	92.45	66.2	839.0	745.1	705.9		39.15	19.032
10,200.0	10,194.5	10,275.9	10,196.5	15.4	25.0	92.45	66.2	839.0	745.1	705.8		39.27	18.975
10,300.0	10,294.5	10,375.9	10,296.5	15.5	25.1	92.45	66.2	839.0	745.1	705.7		39.38	18.918
10,400.0	10,394.5	10,475.9	10,396.5	15.5	25.1	92.45	66.2	839.0	745.1	705.6		39.50	18.862
10,500.0	10,494.5	10,575.9	10,496.5	15.6	25.2	92.45	66.2	839.0	745.1	705.5		39.62	18.806
10,600.0	10,594.5	10,675.9	10,596.5	15.7	25.2	92.45	66.2	839.0	745.1	705.3		39.74	18.749
10,700.0	10,694.5	10,775.9	10,696.5	15.8	25.2	92.45	66.2	839.0	745.1	705.2		39.86	18.693
10,800.0	10,794.5	10,875.9	10,796.5	15.9	25.3	92.45	66.2	839.0	745.1	705.1		39.98	18.638
10,900.0	10,894.5	10,975.9	10,896.5	15.9	25.3	92.45	66.2	839.0	745.1	705.0	Minimum Separation	40.10	18.582
11,000.0	10,994.5	11,075.9	10,996.5	16.0	25.4	92.45	66.2	839.0	745.1	704.9		40.22	18.527
11,100.0	11,094.5	11,175.9	11,096.5	16.1	25.4	92.45	66.2	839.0	745.1	704.7		40.34	18.471
11,200.0	11,194.5	11,275.9	11,196.5	16.2	25.5	92.45	66.2	839.0	745.1	704.6		40.46	18.416
11,300.0	11,294.5	11,375.9	11,296.5	16.3	25.5	92.45	66.2	839.0	745.1	704.5		40.57	18.368
11,310.5	11,305.0	11,386.5	11,307.0	16.3	25.5	92.45	66.2	839.0	745.1	704.5		40.57	18.364
11,350.0	11,344.5	11,423.4	11,343.9	16.3	25.5	92.81	65.0	839.0	745.2	704.6		40.58	18.365
11,400.0	11,394.2	11,468.7	11,389.0	16.4	25.5	93.50	60.3	839.1	745.8	705.3		40.50	18.414
11,450.0	11,443.2	11,510.8	11,430.4	16.4	25.5	94.54	52.7	839.1	747.3	706.9		40.36	18.515
11,500.0	11,491.1	11,550.0	11,468.3	16.5	25.5	95.81	43.0	839.2	750.0	709.9		40.15	18.679
11,550.0	11,537.6	11,580.9	11,497.7	16.5	25.6	96.84	33.5	839.2	754.6	714.6	Minimum Separation	39.94	18.895
11,600.0	11,582.4	11,608.0	11,523.1	16.6	25.6	97.65	23.9	839.3	761.5	721.8		39.69	19.188
11,650.0	11,625.0	11,629.9	11,543.2	16.7	25.6	98.02	15.2	839.4	771.1	731.7		39.43	19.556
11,700.0	11,665.2	11,650.0	11,561.3	16.7	25.6	98.07	6.6	839.4	783.8	744.7		39.15	20.020
11,750.0	11,702.7	11,659.6	11,569.9	16.8	25.6	97.10	2.3	839.4	799.5	760.6		38.96	20.520
11,800.0	11,737.1	11,668.4	11,577.7	16.9	25.6	95.72	-1.8	839.5	818.3	779.6		38.76	21.114
11,850.0	11,768.3	11,673.7	11,582.4	16.9	25.6	93.73	-4.3	839.5	840.0	801.4		38.57	21.776
11,900.0	11,795.9	11,676.1	11,584.5	17.0	25.6	91.15	-5.5	839.5	864.2	825.8		38.40	22.502
11,950.0	11,819.8	11,675.9	11,584.3	17.0	25.6	88.02	-5.4	839.5	890.6	852.3		38.24	23.288
12,000.0	11,839.8	11,673.5	11,582.2	17.1	25.6	84.42	-4.2	839.5	918.8	880.8		38.09	24.126
12,050.0	11,855.7	11,669.2	11,578.4	17.2	25.6	80.44	-2.1	839.5	948.5	910.6	Minimum Separation	37.93	25.010
12,100.0	11,867.4	11,650.0	11,561.3	17.2	25.6	75.29	6.6	839.4	979.4	941.5		37.94	25.813

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 #710H
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 #710H	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								Rule Assigned:				Offset Well Error:		3.0 usft
Measured Depth	Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
0.0	0.0	3.5	3.5	3.0	3.0	155.61	-200.7	91.0	220.4							
100.0	100.0	103.5	103.5	3.0	3.1	155.61	-200.7	91.0	220.4	213.8	6.53	33.772				
200.0	200.0	203.5	203.5	3.2	3.2	155.61	-200.7	91.0	220.4	213.6	6.77	32.533				
300.0	300.0	303.5	303.5	3.3	3.3	155.61	-200.7	91.0	220.4	213.3	7.02	31.399				
400.0	400.0	403.5	403.5	3.4	3.4	155.61	-200.7	91.0	220.4	213.1	7.26	30.353				
500.0	500.0	503.5	503.5	3.5	3.6	155.61	-200.7	91.0	220.4	212.9	7.50	29.386				
600.0	600.0	603.5	603.5	3.7	3.7	155.61	-200.7	91.0	220.4	212.6	7.74	28.486				
700.0	700.0	703.5	703.5	3.8	3.8	155.61	-200.7	91.0	220.4	212.4	7.97	27.648				
800.0	800.0	803.5	803.5	3.9	3.9	155.61	-200.7	91.0	220.4	212.2	8.20	26.863				
900.0	900.0	903.5	903.5	4.0	4.0	155.61	-200.7	91.0	220.4	211.9	8.43	26.128				
1,000.0	1,000.0	1,003.5	1,003.5	4.2	4.2	155.61	-200.7	91.0	220.4	211.7	8.66	25.436				
1,100.0	1,100.0	1,103.5	1,103.5	4.3	4.3	155.61	-200.7	91.0	220.4	211.5	8.89	24.784				
1,200.0	1,200.0	1,203.5	1,203.5	4.4	4.4	155.61	-200.7	91.0	220.4	211.2	9.12	24.168				
1,300.0	1,300.0	1,303.5	1,303.5	4.5	4.5	155.61	-200.7	91.0	220.4	211.0	9.34	23.585				
1,400.0	1,400.0	1,403.5	1,403.5	4.6	4.6	155.61	-200.7	91.0	220.4	210.8	9.57	23.032				
1,500.0	1,500.0	1,503.5	1,503.5	4.8	4.8	155.61	-200.7	91.0	220.4	210.6	9.79	22.508 CC				
1,504.4	1,504.4	1,508.0	1,508.0	4.8	4.8	111.61	-200.7	91.0	220.4	210.6	9.80	22.482 ES				
1,600.0	1,600.0	1,604.1	1,604.1	4.9	4.9	111.65	-200.0	92.2	220.9	210.9	9.99	22.102				
1,700.0	1,699.8	1,704.7	1,704.6	5.1	5.0	111.84	-197.9	95.8	222.4	212.1	10.31	21.570				
1,750.0	1,749.7	1,755.0	1,754.8	5.2	5.1	111.99	-196.4	98.4	223.6	213.1	10.42	21.453				
1,800.0	1,799.5	1,805.3	1,804.9	5.3	5.2	112.09	-194.6	101.6	224.8	214.3	10.53	21.348				
1,900.0	1,899.1	1,905.9	1,905.1	5.5	5.4	111.80	-189.9	109.7	227.1	216.3	10.83	20.972				
2,000.0	1,998.7	2,006.3	2,004.8	5.7	5.7	110.85	-183.9	120.0	229.2	218.0	11.11	20.622				
2,100.0	2,098.4	2,103.0	2,100.5	5.9	5.9	109.32	-177.4	132.4	231.7	220.3	11.33	20.450				
2,200.0	2,198.0	2,200.0	2,196.0	6.2	6.2	107.19	-171.3	148.0	236.3	224.7	11.60	20.368 SF				
2,300.0	2,297.6	2,292.0	2,286.2	6.5	6.5	104.69	-166.0	165.8	243.3	231.5	11.86	20.524				
2,400.0	2,397.2	2,385.9	2,377.5	6.7	6.8	101.79	-161.0	186.8	253.1	241.0	12.08	20.953				
2,500.0	2,496.8	2,484.3	2,473.0	7.0	7.1	98.77	-156.1	210.1	264.5	252.1	12.38	21.370				
2,600.0	2,596.4	2,582.7	2,568.4	7.3	7.5	96.01	-151.1	233.4	276.5	263.8	12.71	21.757				
2,700.0	2,696.1	2,681.1	2,663.9	7.6	7.9	93.47	-146.2	256.7	289.1	276.1	13.07	22.117				
2,800.0	2,795.7	2,779.5	2,759.4	8.0	8.2	91.15	-141.2	280.0	302.3	288.8	13.47	22.443				
2,900.0	2,895.3	2,877.9	2,854.9	8.3	8.6	89.03	-136.3	303.3	315.9	302.0	13.90	22.732				
2,937.8	2,933.0	2,915.1	2,891.0	8.4	8.8	88.27	-134.4	312.1	321.2	307.1	14.04	22.876				
3,000.0	2,995.0	2,976.3	2,950.3	8.6	9.0	87.11	-131.4	326.5	329.9	315.6	14.30	23.072				
3,100.0	3,094.7	3,074.4	3,045.6	8.9	9.4	85.15	-126.4	349.8	344.4	329.6	14.80	23.278				
3,200.0	3,194.6	3,172.3	3,140.6	9.2	9.8	83.09	-121.5	372.9	359.6	344.3	15.34	23.449				
3,300.0	3,294.5	3,270.0	3,235.3	9.5	10.3	80.97	-116.6	396.0	375.5	359.6	15.92	23.592				
3,400.0	3,394.5	3,367.3	3,329.8	9.7	10.7	78.79	-111.7	419.1	392.3	375.8	16.54	23.719				
3,437.8	3,432.4	3,404.0	3,365.4	9.8	10.8	121.96	-109.8	427.8	398.9	382.2	16.76	23.800				
3,500.0	3,494.5	3,464.4	3,423.9	9.8	11.1	120.52	-106.8	442.0	410.0	392.9	17.14	23.917				
3,600.0	3,594.5	3,561.4	3,518.1	9.9	11.5	118.36	-101.9	465.0	428.4	410.6	17.81	24.052				
3,700.0	3,694.5	3,658.4	3,612.2	10.0	12.0	116.37	-97.0	488.0	447.3	428.8	18.49	24.191				
3,800.0	3,794.5	3,755.4	3,706.4	10.0	12.4	114.55	-92.2	510.9	466.8	447.6	19.18	24.335				
3,900.0	3,894.5	3,852.5	3,800.5	10.1	12.8	112.87	-87.3	533.9	486.6	466.7	19.87	24.484				
4,000.0	3,994.5	3,949.5	3,894.7	10.2	13.3	111.32	-82.4	556.8	506.8	486.2	20.57	24.637				
4,100.0	4,094.5	4,046.5	3,988.8	10.3	13.7	109.89	-77.5	579.8	527.4	506.1	21.27	24.793				
4,200.0	4,194.5	4,143.6	4,083.0	10.4	14.2	108.56	-72.6	602.8	548.2	526.3	21.97	24.951				
4,300.0	4,294.5	4,240.6	4,177.1	10.5	14.6	107.33	-67.8	625.7	569.3	546.7	22.67	25.111				
4,400.0	4,394.5	4,337.6	4,271.3	10.6	15.1	106.19	-62.9	648.7	590.7	567.3	23.38	25.270				
4,500.0	4,494.5	4,434.7	4,365.4	10.6	15.5	105.13	-58.0	671.6	612.3	588.2	24.08	25.430				
4,600.0	4,594.5	4,531.7	4,459.6	10.7	16.0	104.14	-53.1	694.6	634.0	609.2	24.78	25.588				
4,700.0	4,694.5	4,628.7	4,553.7	10.8	16.4	103.21	-48.2	717.6	655.9	630.5	25.48	25.745				

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 #710H
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 #710H	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 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		
4,800.0	4,794.5	4,725.7	4,647.9	10.9	16.9	102.34	-43.4	740.5	678.0	651.8	26.18	25.900		
4,900.0	4,894.5	4,822.8	4,742.0	11.0	17.3	101.53	-38.5	763.5	700.2	673.4	26.88	26.053		
5,000.0	4,994.5	4,919.8	4,836.1	11.1	17.8	100.77	-33.6	786.5	722.6	695.0	27.58	26.204		
5,100.0	5,094.5	5,016.8	4,930.3	11.1	18.2	100.05	-28.7	809.4	745.1	716.8	28.27	26.351		
5,200.0	5,194.5	5,113.9	5,024.4	11.2	18.7	99.38	-23.8	832.4	767.6	738.6	28.97	26.496		
5,300.0	5,294.5	5,210.9	5,118.6	11.3	19.2	98.74	-19.0	855.3	790.3	760.6	29.67	26.638		
5,400.0	5,394.5	5,307.9	5,212.7	11.4	19.6	98.14	-14.1	878.3	813.0	782.7	30.36	26.776		
5,500.0	5,494.5	5,405.0	5,306.9	11.5	20.1	97.57	-9.2	901.3	835.9	804.8	31.06	26.912		
5,600.0	5,594.5	5,502.0	5,401.0	11.6	20.5	97.03	-4.3	924.2	858.8	827.0	31.75	27.044		
5,700.0	5,694.5	5,599.0	5,495.2	11.6	21.0	96.52	0.6	947.2	881.7	849.3	32.45	27.173		
5,800.0	5,794.5	5,696.0	5,589.3	11.7	21.5	96.03	5.4	970.1	904.8	871.6	33.14	27.299		
5,900.0	5,894.5	5,793.1	5,683.5	11.8	21.9	95.57	10.3	993.1	927.9	894.0	33.84	27.422		
6,000.0	5,994.5	5,890.1	5,777.6	11.9	22.4	95.13	15.2	1,016.1	951.0	916.5	34.53	27.541		
6,100.0	6,094.5	5,987.1	5,871.8	12.0	22.9	94.72	20.1	1,039.0	974.2	939.0	35.22	27.658		
6,200.0	6,194.5	6,084.2	5,965.9	12.1	23.3	94.32	25.0	1,062.0	997.5	961.6	35.92	27.771		

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 #710H
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 #710H	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	2.7	2.7	3.0	3.0	148.93	-200.9	121.1	234.5				
100.0	100.0	102.7	102.7	3.0	3.0	148.93	-200.9	121.1	234.5	228.0	6.52	35.951	
200.0	200.0	202.7	202.7	3.2	3.2	148.93	-200.9	121.1	234.5	227.8	6.77	34.637	
300.0	300.0	302.7	302.7	3.3	3.3	148.93	-200.9	121.1	234.5	227.5	7.01	33.437	
400.0	400.0	402.7	402.7	3.4	3.4	148.93	-200.9	121.1	234.5	227.3	7.25	32.333	
500.0	500.0	502.7	502.7	3.5	3.6	148.93	-200.9	121.1	234.5	227.1	7.49	31.312	
600.0	600.0	602.7	602.7	3.7	3.7	148.93	-200.9	121.1	234.5	226.8	7.72	30.365	
700.0	700.0	702.7	702.7	3.8	3.8	148.93	-200.9	121.1	234.5	226.6	7.96	29.483	
800.0	800.0	802.7	802.7	3.9	3.9	148.93	-200.9	121.1	234.5	226.4	8.18	28.659	
900.0	900.0	902.7	902.7	4.0	4.0	148.93	-200.9	121.1	234.5	226.1	8.41	27.887	
1,000.0	1,000.0	1,002.7	1,002.7	4.2	4.2	148.93	-200.9	121.1	234.5	225.9	8.64	27.161	
1,100.0	1,100.0	1,102.7	1,102.7	4.3	4.3	148.93	-200.9	121.1	234.5	225.7	8.86	26.477	
1,200.0	1,200.0	1,202.7	1,202.7	4.4	4.4	148.93	-200.9	121.1	234.5	225.5	9.08	25.832	
1,300.0	1,300.0	1,302.7	1,302.7	4.5	4.5	148.93	-200.9	121.1	234.5	225.2	9.30	25.221	
1,400.0	1,400.0	1,402.7	1,402.7	4.6	4.6	148.93	-200.9	121.1	234.5	225.0	9.52	24.642	
1,465.7	1,465.7	1,468.4	1,468.4	4.7	4.7	148.93	-200.9	121.1	234.5	224.9	9.66	24.279 CC	
1,500.0	1,500.0	1,502.6	1,502.6	4.8	4.8	148.93	-200.9	121.1	234.5	224.8	9.74	24.092 ES	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	104.91	-200.6	122.8	235.7	225.8	9.94	23.717	
1,700.0	1,699.8	1,696.3	1,696.1	5.1	5.0	104.92	-200.0	127.7	239.1	228.8	10.26	23.310	
1,750.0	1,749.7	1,744.6	1,744.3	5.2	5.1	104.93	-199.4	131.4	241.6	231.2	10.37	23.296 SF	
1,800.0	1,799.5	1,793.0	1,792.4	5.3	5.2	104.91	-198.8	135.9	244.5	234.1	10.48	23.325	
1,900.0	1,899.1	1,889.4	1,888.2	5.5	5.5	104.35	-197.2	147.2	251.4	240.7	10.79	23.297	
2,000.0	1,998.7	1,985.4	1,983.1	5.7	5.8	103.17	-195.2	161.7	259.8	248.7	11.10	23.395	
2,100.0	2,098.4	2,080.8	2,076.8	5.9	6.2	101.46	-192.7	179.2	269.7	258.2	11.42	23.612	
2,200.0	2,198.0	2,175.3	2,169.0	6.2	6.5	99.31	-189.9	199.5	281.4	269.6	11.75	23.943	
2,300.0	2,297.6	2,269.8	2,260.5	6.5	6.8	96.82	-186.6	222.8	295.1	283.0	12.04	24.502	
2,400.0	2,397.2	2,367.8	2,355.2	6.7	7.1	94.31	-183.1	247.9	309.9	297.5	12.41	24.983	
2,500.0	2,496.8	2,465.8	2,449.9	7.0	7.4	92.03	-179.5	273.0	325.3	312.5	12.82	25.384	
2,600.0	2,596.4	2,563.8	2,544.5	7.3	7.8	89.95	-176.0	298.1	341.2	327.9	13.25	25.744	
2,700.0	2,696.1	2,661.8	2,639.2	7.6	8.1	88.06	-172.5	323.3	357.4	343.7	13.71	26.063	
2,800.0	2,795.7	2,759.8	2,733.9	8.0	8.5	86.33	-168.9	348.4	374.0	359.8	14.20	26.341	
2,900.0	2,895.3	2,857.8	2,828.5	8.3	8.9	84.75	-165.4	373.5	390.9	376.2	14.71	26.582	
2,937.8	2,933.0	2,894.9	2,864.3	8.4	9.1	84.18	-164.1	383.0	397.4	382.5	14.88	26.710	
3,000.0	2,995.0	2,955.7	2,923.1	8.6	9.3	83.36	-161.9	398.6	408.1	393.0	15.18	26.880	
3,100.0	3,094.7	3,053.5	3,017.6	8.9	9.7	81.94	-158.4	423.7	425.8	410.1	15.74	27.049	
3,200.0	3,194.6	3,151.0	3,111.7	9.2	10.1	80.44	-154.9	448.6	444.1	427.8	16.33	27.194	
3,300.0	3,294.5	3,248.2	3,205.6	9.5	10.6	78.87	-151.3	473.6	463.1	446.1	16.95	27.323	
3,400.0	3,394.5	3,345.1	3,299.2	9.7	11.0	77.25	-147.9	498.4	482.8	465.2	17.59	27.446	
3,437.8	3,432.4	3,381.7	3,334.6	9.8	11.1	120.62	-146.5	507.8	490.5	472.7	17.82	27.528	
3,500.0	3,494.5	3,441.7	3,392.6	9.8	11.4	119.49	-144.4	523.2	503.3	485.1	18.20	27.649	
3,600.0	3,594.5	3,538.3	3,485.9	9.9	11.8	117.79	-140.9	547.9	524.3	505.5	18.87	27.789	
3,700.0	3,694.5	3,634.9	3,579.2	10.0	12.3	116.22	-137.4	572.7	545.8	526.2	19.54	27.932	
3,800.0	3,794.5	3,731.5	3,672.5	10.0	12.7	114.76	-133.9	597.4	567.6	547.4	20.22	28.077	
3,900.0	3,894.5	3,828.1	3,765.8	10.1	13.1	113.42	-130.5	622.2	589.7	568.8	20.90	28.223	
4,000.0	3,994.5	3,924.7	3,859.1	10.2	13.6	112.16	-127.0	646.9	612.2	590.6	21.58	28.370	
4,100.0	4,094.5	4,021.3	3,952.4	10.3	14.0	111.00	-123.5	671.7	634.9	612.6	22.26	28.517	
4,200.0	4,194.5	4,117.8	4,045.7	10.4	14.5	109.91	-120.0	696.5	657.8	634.8	22.95	28.663	
4,300.0	4,294.5	4,214.4	4,139.0	10.5	14.9	108.90	-116.5	721.2	680.9	657.3	23.64	28.809	
4,400.0	4,394.5	4,311.0	4,232.3	10.6	15.4	107.95	-113.1	746.0	704.3	679.9	24.33	28.952	
4,500.0	4,494.5	4,407.6	4,325.6	10.6	15.8	107.07	-109.6	770.7	727.8	702.8	25.01	29.094	
4,600.0	4,594.5	4,504.2	4,418.9	10.7	16.3	106.24	-106.1	795.5	751.4	725.7	25.70	29.234	
4,700.0	4,694.5	4,600.8	4,512.2	10.8	16.8	105.46	-102.6	820.2	775.2	748.8	26.39	29.371	

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 #710H
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 #710H	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		Rule Assigned: Distance				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		
4,800.0	4,794.5	4,697.4	4,605.5	10.9	17.2	104.72	-99.1	845.0	799.2	772.1	27.09	29.505		
4,900.0	4,894.5	4,794.0	4,698.8	11.0	17.7	104.03	-95.7	869.8	823.2	795.4	27.78	29.637		
5,000.0	4,994.5	4,890.6	4,792.1	11.1	18.1	103.37	-92.2	894.5	847.4	818.9	28.47	29.765		
5,100.0	5,094.5	4,987.2	4,885.4	11.1	18.6	102.76	-88.7	919.3	871.6	842.5	29.16	29.891		
5,200.0	5,194.5	5,083.8	4,978.7	11.2	19.1	102.17	-85.2	944.0	896.0	866.1	29.85	30.013		
5,300.0	5,294.5	5,180.4	5,072.0	11.3	19.5	101.62	-81.8	968.8	920.4	889.9	30.55	30.133		
5,400.0	5,394.5	5,277.0	5,165.3	11.4	20.0	101.09	-78.3	993.5	944.9	913.7	31.24	30.249		
5,500.0	5,494.5	5,373.5	5,258.6	11.5	20.4	100.60	-74.8	1,018.3	969.5	937.6	31.93	30.363		
5,600.0	5,594.5	5,470.1	5,351.9	11.6	20.9	100.12	-71.3	1,043.0	994.2	961.5	32.62	30.473		

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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

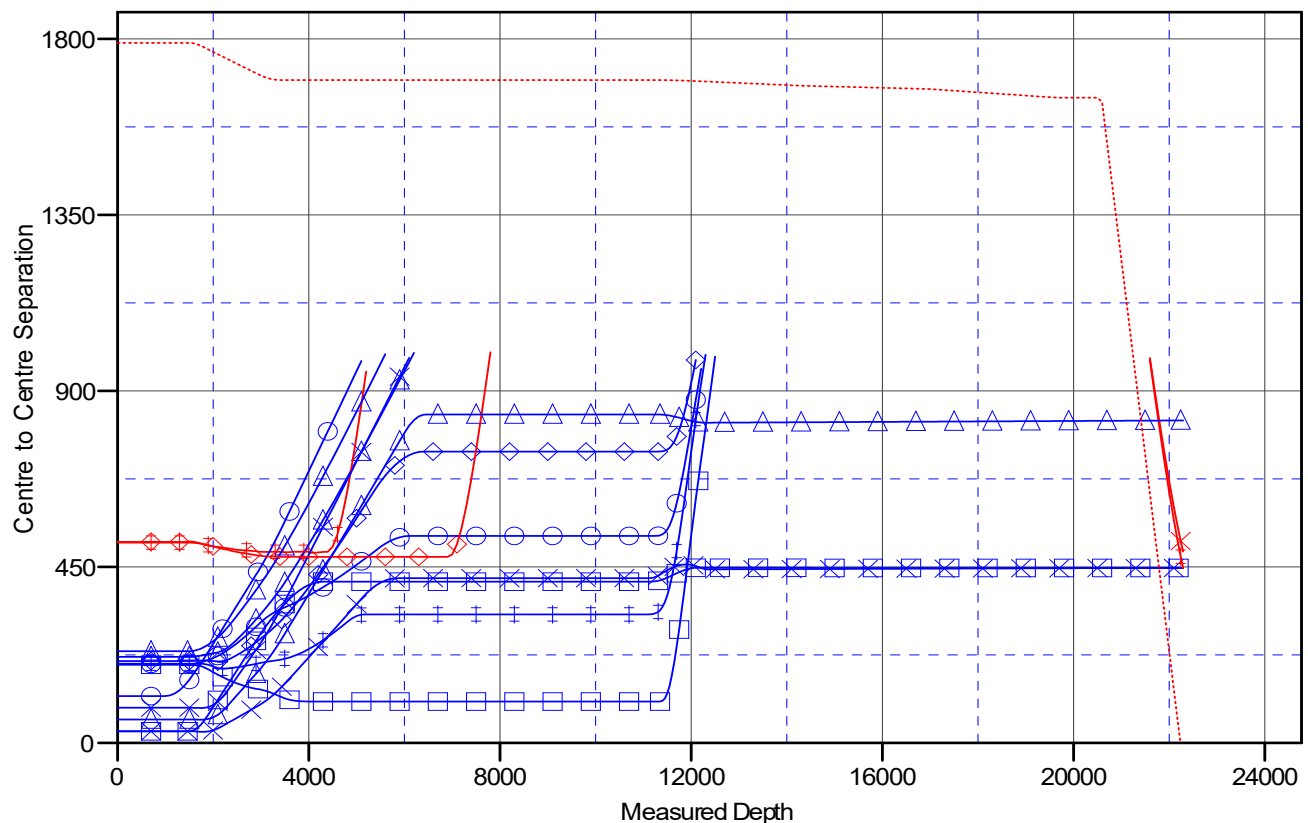
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: ZIA HILLS UNIT 1932 WC #710H

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 #711H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #713H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #764H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #763H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #709H OWB, PWP1 V0	CONOCO A FEDERAL #1 (P&A), OWB, AWP V0
CONOCO FEDERAL #2, OWB, AWP V0	ZIA HILLS UNIT 1932 WC #714H OWB, PWP1 V0	PADUCA 7 6 W1GB FEDERAL#1H, OWB, AWP V0
ZIA HILLS UNIT 1932 WC #760H OWB, PWP1 V0	PADUCA 7 6 W1GB FEDERAL#2H, OWB, AWP V0	ZIA HILLS UNIT 1932 WC #712H OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #762H OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #759H 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

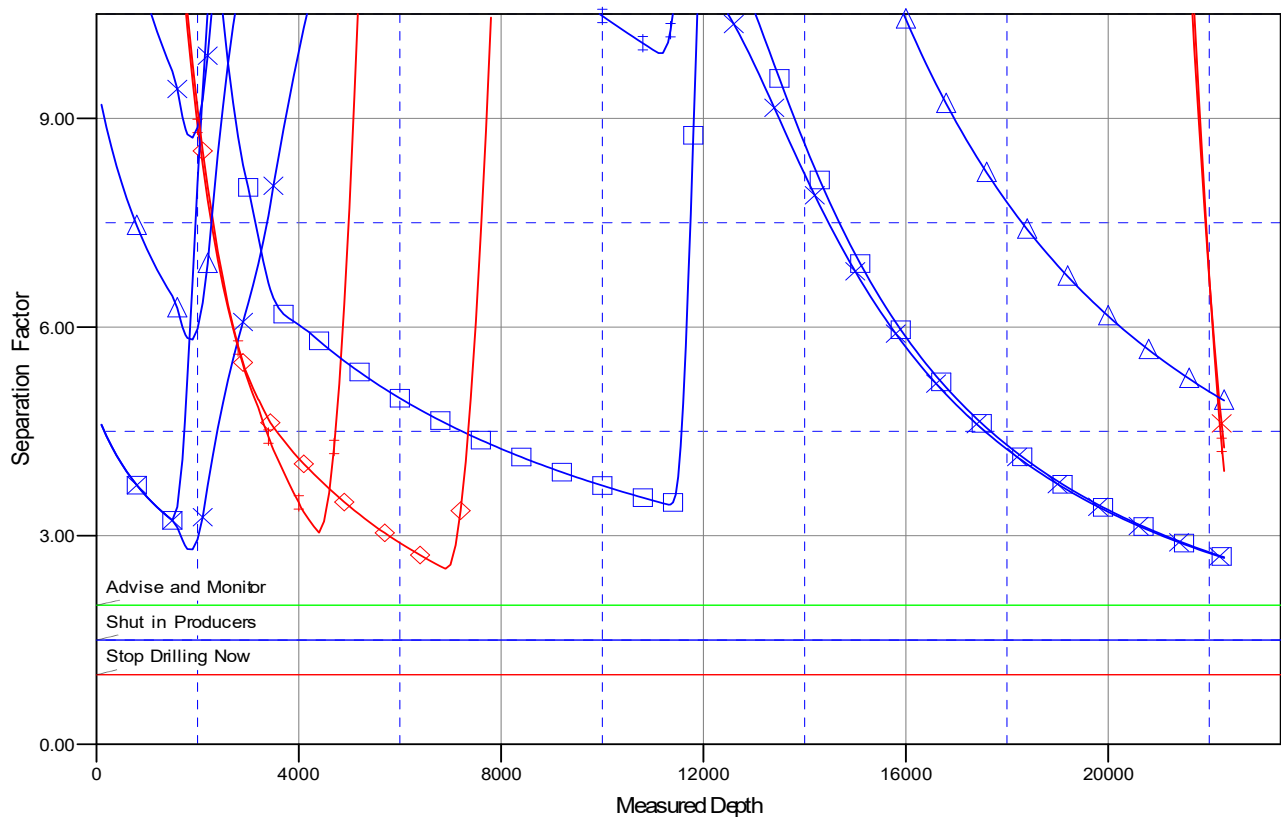
Anticollision Report

Company:	DELAWARE BASIN EAST	Local Co-ordinate Reference:	Well ZIA HILLS UNIT 1932 WC #710H
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 #710H	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 #710H
 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 #711H, OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #713H, OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #764H, OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #763H, OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #709H, OWB, PWP1 V0	CONOCO A FEDERAL #1 (P&A), OWB, AWP V0
CONOCO FEDERAL #2, OWB, AWP V0	ZIA HILLS UNIT 1932 WC #714H, OWB, PWP1 V0	PADUCA 7 6 W1GB FEDERAL#1H, OWB, AWP V0
ZIA HILLS UNIT 1932 WC #760H, OWB, PWP1 V0	PADUCA 7 6 W1GB FEDERAL#2H, OWB, AWP V0	ZIA HILLS UNIT 1932 WC #712H, OWB, PWP1 V0
ZIA HILLS UNIT 1932 WC #762H, OWB, PWP1 V0	ZIA HILLS UNIT 1932 WC #759H, 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 #710H

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 #710H
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 #710H	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 #710H		
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' 39.845 N
		Longitude:	103° 42' 43.678 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	47,256.45616831

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	0.32

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	11,310.5 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	11,310.5	22,294.0 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 #710H
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 #710H	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	
1,750.0	5.00	44.00	1,749.7	7.8	7.6	2.00	2.00	0.00	44.00	
2,937.8	5.00	44.00	2,933.0	82.3	79.5	0.00	0.00	0.00	0.00	
3,437.8	0.00	0.00	3,432.4	98.0	94.6	1.00	-1.00	0.00	180.00	
11,310.5	0.00	0.00	11,305.0	98.0	94.6	0.00	0.00	0.00	0.00	
12,210.5	90.00	359.81	11,878.0	671.0	92.7	10.00	10.00	-0.02	359.81	
22,244.0	90.00	359.81	11,878.0	10,704.4	59.4	0.00	0.00	0.00	0.00	
22,294.0	90.00	359.81	11,878.0	10,754.4	59.2	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 #710H
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 #710H	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 2.00									
1,600.0	2.00	44.00	1,600.0	1.3	1.2	1.3	2.00	2.00	0.00
1,700.0	4.00	44.00	1,699.8	5.0	4.8	5.0	2.00	2.00	0.00
1,750.0	5.00	44.00	1,749.7	7.8	7.6	7.9	2.00	2.00	0.00
Start 1187.8 hold at 1750.0 MD									
1,800.0	5.00	44.00	1,799.5	11.0	10.6	11.0	0.00	0.00	0.00
1,900.0	5.00	44.00	1,899.1	17.2	16.7	17.3	0.00	0.00	0.00
2,000.0	5.00	44.00	1,998.7	23.5	22.7	23.6	0.00	0.00	0.00
2,100.0	5.00	44.00	2,098.4	29.8	28.8	29.9	0.00	0.00	0.00
2,200.0	5.00	44.00	2,198.0	36.1	34.8	36.2	0.00	0.00	0.00
2,300.0	5.00	44.00	2,297.6	42.3	40.9	42.5	0.00	0.00	0.00
2,400.0	5.00	44.00	2,397.2	48.6	46.9	48.9	0.00	0.00	0.00
2,500.0	5.00	44.00	2,496.8	54.9	53.0	55.2	0.00	0.00	0.00
2,600.0	5.00	44.00	2,596.4	61.1	59.0	61.5	0.00	0.00	0.00
2,700.0	5.00	44.00	2,696.1	67.4	65.1	67.8	0.00	0.00	0.00
2,800.0	5.00	44.00	2,795.7	73.7	71.1	74.1	0.00	0.00	0.00
2,900.0	5.00	44.00	2,895.3	79.9	77.2	80.4	0.00	0.00	0.00
2,937.8	5.00	44.00	2,933.0	82.3	79.5	82.7	0.00	0.00	0.00
Start Drop -1.00									
3,000.0	4.38	44.00	2,995.0	86.0	83.0	86.4	1.00	-1.00	0.00
3,100.0	3.38	44.00	3,094.7	90.8	87.7	91.3	1.00	-1.00	0.00
3,200.0	2.38	44.00	3,194.6	94.4	91.2	94.9	1.00	-1.00	0.00
3,300.0	1.38	44.00	3,294.5	96.8	93.5	97.3	1.00	-1.00	0.00
3,400.0	0.38	44.00	3,394.5	97.9	94.5	98.4	1.00	-1.00	0.00
3,437.8	0.00	0.00	3,432.4	98.0	94.6	98.5	1.00	-1.00	0.00
Start 7872.7 hold at 3437.8 MD									
3,500.0	0.00	0.00	3,494.5	98.0	94.6	98.5	0.00	0.00	0.00
3,600.0	0.00	0.00	3,594.5	98.0	94.6	98.5	0.00	0.00	0.00
3,700.0	0.00	0.00	3,694.5	98.0	94.6	98.5	0.00	0.00	0.00
3,800.0	0.00	0.00	3,794.5	98.0	94.6	98.5	0.00	0.00	0.00
3,900.0	0.00	0.00	3,894.5	98.0	94.6	98.5	0.00	0.00	0.00
4,000.0	0.00	0.00	3,994.5	98.0	94.6	98.5	0.00	0.00	0.00
4,100.0	0.00	0.00	4,094.5	98.0	94.6	98.5	0.00	0.00	0.00
4,200.0	0.00	0.00	4,194.5	98.0	94.6	98.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,294.5	98.0	94.6	98.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,394.5	98.0	94.6	98.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,494.5	98.0	94.6	98.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,594.5	98.0	94.6	98.5	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 #710H
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 #710H	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)
4,700.0	0.00	0.00	4,694.5	98.0	94.6	98.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,794.5	98.0	94.6	98.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,894.5	98.0	94.6	98.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,994.5	98.0	94.6	98.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,094.5	98.0	94.6	98.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,194.5	98.0	94.6	98.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,294.5	98.0	94.6	98.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,394.5	98.0	94.6	98.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,494.5	98.0	94.6	98.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,594.5	98.0	94.6	98.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,694.5	98.0	94.6	98.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,794.5	98.0	94.6	98.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,894.5	98.0	94.6	98.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,994.5	98.0	94.6	98.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,094.5	98.0	94.6	98.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,194.5	98.0	94.6	98.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,294.5	98.0	94.6	98.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,394.5	98.0	94.6	98.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,494.5	98.0	94.6	98.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,594.5	98.0	94.6	98.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,694.5	98.0	94.6	98.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,794.5	98.0	94.6	98.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,894.5	98.0	94.6	98.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,994.5	98.0	94.6	98.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,094.5	98.0	94.6	98.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,194.5	98.0	94.6	98.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,294.5	98.0	94.6	98.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,394.5	98.0	94.6	98.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,494.5	98.0	94.6	98.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,594.5	98.0	94.6	98.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,694.5	98.0	94.6	98.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,794.5	98.0	94.6	98.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,894.5	98.0	94.6	98.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,994.5	98.0	94.6	98.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,094.5	98.0	94.6	98.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,194.5	98.0	94.6	98.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,294.5	98.0	94.6	98.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,394.5	98.0	94.6	98.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,494.5	98.0	94.6	98.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,594.5	98.0	94.6	98.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,694.5	98.0	94.6	98.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,794.5	98.0	94.6	98.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,894.5	98.0	94.6	98.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,994.5	98.0	94.6	98.5	0.00	0.00	0.00
9,100.0	0.00	0.00	9,094.5	98.0	94.6	98.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,194.5	98.0	94.6	98.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,294.5	98.0	94.6	98.5	0.00	0.00	0.00
9,400.0	0.00	0.00	9,394.5	98.0	94.6	98.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,494.5	98.0	94.6	98.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,594.5	98.0	94.6	98.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,694.5	98.0	94.6	98.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,794.5	98.0	94.6	98.5	0.00	0.00	0.00
9,900.0	0.00	0.00	9,894.5	98.0	94.6	98.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,994.5	98.0	94.6	98.5	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 #710H
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 #710H	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)
10,100.0	0.00	0.00	10,094.5	98.0	94.6	98.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,194.5	98.0	94.6	98.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,294.5	98.0	94.6	98.5	0.00	0.00	0.00
10,400.0	0.00	0.00	10,394.5	98.0	94.6	98.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,494.5	98.0	94.6	98.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,594.5	98.0	94.6	98.5	0.00	0.00	0.00
10,700.0	0.00	0.00	10,694.5	98.0	94.6	98.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,794.5	98.0	94.6	98.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,894.5	98.0	94.6	98.5	0.00	0.00	0.00
11,000.0	0.00	0.00	10,994.5	98.0	94.6	98.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,094.5	98.0	94.6	98.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,194.5	98.0	94.6	98.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,294.5	98.0	94.6	98.5	0.00	0.00	0.00
11,310.5	0.00	0.00	11,305.0	98.0	94.6	98.5	0.00	0.00	0.00
Start DLS 10.00 TFO 359.81									
11,350.0	3.95	359.81	11,344.5	99.4	94.6	99.9	10.00	10.00	0.00
11,400.0	8.95	359.81	11,394.2	105.0	94.6	105.5	10.00	10.00	0.00
11,450.0	13.95	359.81	11,443.2	114.9	94.6	115.4	10.00	10.00	0.00
11,500.0	18.95	359.81	11,491.1	129.0	94.5	129.6	10.00	10.00	0.00
11,550.0	23.95	359.81	11,537.6	147.3	94.5	147.8	10.00	10.00	0.00
11,600.0	28.95	359.81	11,582.4	169.6	94.4	170.1	10.00	10.00	0.00
11,650.0	33.95	359.81	11,625.0	195.7	94.3	196.2	10.00	10.00	0.00
11,700.0	38.95	359.81	11,665.2	225.4	94.2	225.9	10.00	10.00	0.00
11,750.0	43.95	359.81	11,702.7	258.4	94.1	259.0	10.00	10.00	0.00
11,800.0	48.95	359.81	11,737.1	294.7	94.0	295.2	10.00	10.00	0.00
11,850.0	53.95	359.81	11,768.3	333.8	93.9	334.3	10.00	10.00	0.00
11,900.0	58.95	359.81	11,795.9	375.4	93.7	375.9	10.00	10.00	0.00
11,950.0	63.95	359.81	11,819.8	419.3	93.6	419.8	10.00	10.00	0.00
12,000.0	68.95	359.81	11,839.8	465.1	93.4	465.7	10.00	10.00	0.00
12,050.0	73.95	359.81	11,855.7	512.5	93.3	513.0	10.00	10.00	0.00
12,100.0	78.95	359.81	11,867.4	561.1	93.1	561.6	10.00	10.00	0.00
12,150.0	83.95	359.81	11,874.8	610.6	92.9	611.1	10.00	10.00	0.00
12,200.0	88.95	359.81	11,877.9	660.4	92.8	660.9	10.00	10.00	0.00
12,210.5	90.00	359.81	11,878.0	671.0	92.7	671.5	10.00	10.00	0.00
Start 10033.5 hold at 12210.5 MD									
12,300.0	90.00	359.81	11,878.0	760.4	92.4	760.9	0.00	0.00	0.00
12,400.0	90.00	359.81	11,878.0	860.4	92.1	860.9	0.00	0.00	0.00
12,500.0	90.00	359.81	11,878.0	960.4	91.8	960.9	0.00	0.00	0.00
12,600.0	90.00	359.81	11,878.0	1,060.4	91.4	1,060.9	0.00	0.00	0.00
12,700.0	90.00	359.81	11,878.0	1,160.4	91.1	1,160.9	0.00	0.00	0.00
12,800.0	90.00	359.81	11,878.0	1,260.4	90.8	1,260.9	0.00	0.00	0.00
12,900.0	90.00	359.81	11,878.0	1,360.4	90.4	1,360.9	0.00	0.00	0.00
13,000.0	90.00	359.81	11,878.0	1,460.4	90.1	1,460.9	0.00	0.00	0.00
13,100.0	90.00	359.81	11,878.0	1,560.4	89.8	1,560.9	0.00	0.00	0.00
13,200.0	90.00	359.81	11,878.0	1,660.4	89.4	1,660.9	0.00	0.00	0.00
13,300.0	90.00	359.81	11,878.0	1,760.4	89.1	1,760.9	0.00	0.00	0.00
13,400.0	90.00	359.81	11,878.0	1,860.4	88.8	1,860.9	0.00	0.00	0.00
13,500.0	90.00	359.81	11,878.0	1,960.4	88.4	1,960.9	0.00	0.00	0.00
13,600.0	90.00	359.81	11,878.0	2,060.4	88.1	2,060.9	0.00	0.00	0.00
13,700.0	90.00	359.81	11,878.0	2,160.4	87.8	2,160.9	0.00	0.00	0.00
13,800.0	90.00	359.81	11,878.0	2,260.4	87.4	2,260.9	0.00	0.00	0.00
13,900.0	90.00	359.81	11,878.0	2,360.4	87.1	2,360.9	0.00	0.00	0.00
14,000.0	90.00	359.81	11,878.0	2,460.4	86.8	2,460.9	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 #710H
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 #710H	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)	
14,100.0	90.00	359.81	11,878.0	2,560.4	86.5	2,560.9	0.00	0.00	0.00	
14,200.0	90.00	359.81	11,878.0	2,660.4	86.1	2,660.9	0.00	0.00	0.00	
14,300.0	90.00	359.81	11,878.0	2,760.4	85.8	2,760.9	0.00	0.00	0.00	
14,400.0	90.00	359.81	11,878.0	2,860.4	85.5	2,860.9	0.00	0.00	0.00	
14,500.0	90.00	359.81	11,878.0	2,960.4	85.1	2,960.8	0.00	0.00	0.00	
14,600.0	90.00	359.81	11,878.0	3,060.4	84.8	3,060.8	0.00	0.00	0.00	
14,700.0	90.00	359.81	11,878.0	3,160.4	84.5	3,160.8	0.00	0.00	0.00	
14,800.0	90.00	359.81	11,878.0	3,260.4	84.1	3,260.8	0.00	0.00	0.00	
14,900.0	90.00	359.81	11,878.0	3,360.4	83.8	3,360.8	0.00	0.00	0.00	
15,000.0	90.00	359.81	11,878.0	3,460.4	83.5	3,460.8	0.00	0.00	0.00	
15,100.0	90.00	359.81	11,878.0	3,560.4	83.1	3,560.8	0.00	0.00	0.00	
15,200.0	90.00	359.81	11,878.0	3,660.4	82.8	3,660.8	0.00	0.00	0.00	
15,300.0	90.00	359.81	11,878.0	3,760.4	82.5	3,760.8	0.00	0.00	0.00	
15,400.0	90.00	359.81	11,878.0	3,860.4	82.1	3,860.8	0.00	0.00	0.00	
15,500.0	90.00	359.81	11,878.0	3,960.4	81.8	3,960.8	0.00	0.00	0.00	
15,600.0	90.00	359.81	11,878.0	4,060.4	81.5	4,060.8	0.00	0.00	0.00	
15,700.0	90.00	359.81	11,878.0	4,160.4	81.1	4,160.8	0.00	0.00	0.00	
15,800.0	90.00	359.81	11,878.0	4,260.4	80.8	4,260.8	0.00	0.00	0.00	
15,900.0	90.00	359.81	11,878.0	4,360.4	80.5	4,360.8	0.00	0.00	0.00	
16,000.0	90.00	359.81	11,878.0	4,460.4	80.1	4,460.8	0.00	0.00	0.00	
16,100.0	90.00	359.81	11,878.0	4,560.4	79.8	4,560.8	0.00	0.00	0.00	
16,200.0	90.00	359.81	11,878.0	4,660.4	79.5	4,660.8	0.00	0.00	0.00	
16,300.0	90.00	359.81	11,878.0	4,760.4	79.1	4,760.8	0.00	0.00	0.00	
16,400.0	90.00	359.81	11,878.0	4,860.4	78.8	4,860.8	0.00	0.00	0.00	
16,500.0	90.00	359.81	11,878.0	4,960.4	78.5	4,960.8	0.00	0.00	0.00	
16,600.0	90.00	359.81	11,878.0	5,060.4	78.1	5,060.8	0.00	0.00	0.00	
16,700.0	90.00	359.81	11,878.0	5,160.4	77.8	5,160.8	0.00	0.00	0.00	
16,800.0	90.00	359.81	11,878.0	5,260.4	77.5	5,260.8	0.00	0.00	0.00	
16,900.0	90.00	359.81	11,878.0	5,360.4	77.1	5,360.8	0.00	0.00	0.00	
17,000.0	90.00	359.81	11,878.0	5,460.4	76.8	5,460.8	0.00	0.00	0.00	
17,100.0	90.00	359.81	11,878.0	5,560.4	76.5	5,560.7	0.00	0.00	0.00	
17,200.0	90.00	359.81	11,878.0	5,660.4	76.2	5,660.7	0.00	0.00	0.00	
17,300.0	90.00	359.81	11,878.0	5,760.4	75.8	5,760.7	0.00	0.00	0.00	
17,400.0	90.00	359.81	11,878.0	5,860.4	75.5	5,860.7	0.00	0.00	0.00	
17,500.0	90.00	359.81	11,878.0	5,960.4	75.2	5,960.7	0.00	0.00	0.00	
17,600.0	90.00	359.81	11,878.0	6,060.4	74.8	6,060.7	0.00	0.00	0.00	
17,700.0	90.00	359.81	11,878.0	6,160.4	74.5	6,160.7	0.00	0.00	0.00	
17,800.0	90.00	359.81	11,878.0	6,260.4	74.2	6,260.7	0.00	0.00	0.00	
17,900.0	90.00	359.81	11,878.0	6,360.4	73.8	6,360.7	0.00	0.00	0.00	
18,000.0	90.00	359.81	11,878.0	6,460.4	73.5	6,460.7	0.00	0.00	0.00	
18,100.0	90.00	359.81	11,878.0	6,560.4	73.2	6,560.7	0.00	0.00	0.00	
18,200.0	90.00	359.81	11,878.0	6,660.4	72.8	6,660.7	0.00	0.00	0.00	
18,300.0	90.00	359.81	11,878.0	6,760.4	72.5	6,760.7	0.00	0.00	0.00	
18,400.0	90.00	359.81	11,878.0	6,860.4	72.2	6,860.7	0.00	0.00	0.00	
18,500.0	90.00	359.81	11,878.0	6,960.4	71.8	6,960.7	0.00	0.00	0.00	
18,600.0	90.00	359.81	11,878.0	7,060.4	71.5	7,060.7	0.00	0.00	0.00	
18,700.0	90.00	359.81	11,878.0	7,160.4	71.2	7,160.7	0.00	0.00	0.00	
18,800.0	90.00	359.81	11,878.0	7,260.4	70.8	7,260.7	0.00	0.00	0.00	
18,900.0	90.00	359.81	11,878.0	7,360.4	70.5	7,360.7	0.00	0.00	0.00	
19,000.0	90.00	359.81	11,878.0	7,460.4	70.2	7,460.7	0.00	0.00	0.00	
19,100.0	90.00	359.81	11,878.0	7,560.4	69.8	7,560.7	0.00	0.00	0.00	
19,200.0	90.00	359.81	11,878.0	7,660.4	69.5	7,660.7	0.00	0.00	0.00	
19,300.0	90.00	359.81	11,878.0	7,760.4	69.2	7,760.7	0.00	0.00	0.00	
19,400.0	90.00	359.81	11,878.0	7,860.4	68.8	7,860.7	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 #710H
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 #710H	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)	
19,500.0	90.00	359.81	11,878.0	7,960.4	68.5	7,960.7	0.00	0.00	0.00	
19,600.0	90.00	359.81	11,878.0	8,060.4	68.2	8,060.6	0.00	0.00	0.00	
19,700.0	90.00	359.81	11,878.0	8,160.4	67.8	8,160.6	0.00	0.00	0.00	
19,800.0	90.00	359.81	11,878.0	8,260.4	67.5	8,260.6	0.00	0.00	0.00	
19,900.0	90.00	359.81	11,878.0	8,360.4	67.2	8,360.6	0.00	0.00	0.00	
20,000.0	90.00	359.81	11,878.0	8,460.4	66.8	8,460.6	0.00	0.00	0.00	
20,100.0	90.00	359.81	11,878.0	8,560.4	66.5	8,560.6	0.00	0.00	0.00	
20,200.0	90.00	359.81	11,878.0	8,660.4	66.2	8,660.6	0.00	0.00	0.00	
20,300.0	90.00	359.81	11,878.0	8,760.4	65.8	8,760.6	0.00	0.00	0.00	
20,400.0	90.00	359.81	11,878.0	8,860.4	65.5	8,860.6	0.00	0.00	0.00	
20,500.0	90.00	359.81	11,878.0	8,960.4	65.2	8,960.6	0.00	0.00	0.00	
20,600.0	90.00	359.81	11,878.0	9,060.4	64.9	9,060.6	0.00	0.00	0.00	
20,700.0	90.00	359.81	11,878.0	9,160.4	64.5	9,160.6	0.00	0.00	0.00	
20,800.0	90.00	359.81	11,878.0	9,260.4	64.2	9,260.6	0.00	0.00	0.00	
20,900.0	90.00	359.81	11,878.0	9,360.4	63.9	9,360.6	0.00	0.00	0.00	
21,000.0	90.00	359.81	11,878.0	9,460.4	63.5	9,460.6	0.00	0.00	0.00	
21,100.0	90.00	359.81	11,878.0	9,560.4	63.2	9,560.6	0.00	0.00	0.00	
21,200.0	90.00	359.81	11,878.0	9,660.4	62.9	9,660.6	0.00	0.00	0.00	
21,300.0	90.00	359.81	11,878.0	9,760.4	62.5	9,760.6	0.00	0.00	0.00	
21,400.0	90.00	359.81	11,878.0	9,860.4	62.2	9,860.6	0.00	0.00	0.00	
21,500.0	90.00	359.81	11,878.0	9,960.4	61.9	9,960.6	0.00	0.00	0.00	
21,600.0	90.00	359.81	11,878.0	10,060.4	61.5	10,060.6	0.00	0.00	0.00	
21,700.0	90.00	359.81	11,878.0	10,160.4	61.2	10,160.6	0.00	0.00	0.00	
21,800.0	90.00	359.81	11,878.0	10,260.4	60.9	10,260.6	0.00	0.00	0.00	
21,900.0	90.00	359.81	11,878.0	10,360.4	60.5	10,360.6	0.00	0.00	0.00	
22,000.0	90.00	359.81	11,878.0	10,460.4	60.2	10,460.6	0.00	0.00	0.00	
22,100.0	90.00	359.81	11,878.0	10,560.4	59.9	10,560.6	0.00	0.00	0.00	
22,200.0	90.00	359.81	11,878.0	10,660.4	59.5	10,660.5	0.00	0.00	0.00	
22,244.0	90.00	359.81	11,878.0	10,704.4	59.4	10,704.5	0.00	0.00	0.00	
Start 50.0 hold at 22244.0 MD										
22,294.0	90.00	359.81	11,878.0	10,754.4	59.2	10,754.5	0.00	0.00	0.00	
TD at 22294.0										

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	11,878.0	10,704.4	59.4	385,073.93	692,571.96	32° 3' 25.773 N		103° 42' 42.272 W
FTP (ZHU 1932 WC #71 - plan misses target center by 247.1usft at 11750.0usft MD (11702.7 TVD, 258.4 N, 94.1 E) - Circle (radius 50.0)	0.00	0.00	11,878.0	84.3	92.6	374,453.90	692,605.15	32° 1' 40.675 N		103° 42' 42.597 W
PBHL (ZHU 1932 WC #71 - plan hits target center - Rectangle (sides W100.0 H10,670.6 D20.0)	0.00	179.81	11,878.0	10,754.4	59.3	385,123.93	692,571.84	32° 3' 26.268 N		103° 42' 42.270 W

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Site:	ZIA HILLS UNIT 1932 PROJECT	North Reference:	Grid
Well:	ZIA HILLS UNIT 1932 WC #710H	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 2.00
1,750.0	1,749.7	7.8	7.6	Start 1187.8 hold at 1750.0 MD
2,937.8	2,933.0	82.3	79.5	Start Drop -1.00
3,437.8	3,432.4	98.0	94.6	Start 7872.7 hold at 3437.8 MD
11,310.5	11,305.0	98.0	94.6	Start DLS 10.00 TFO 359.81
12,210.5	11,878.0	671.0	92.7	Start 10033.5 hold at 12210.5 MD
22,244.0	11,878.0	10,704.4	59.4	Start 50.0 hold at 22244.0 MD
22,294.0	11,878.0	10,754.4	59.2	TD at 22294.0

Project: LEA PROSPECT (NM-E)
Site: ZIA HILLS UNIT 1932 PROJECT
Well: ZIA HILLS UNIT 1932 WC #710H
Wellbore: OWB
Design: PWP1
GL: 3166.7
RKB=30ft @ 3196.7usft

WELL DETAILS: ZIA HILLS UNIT 1932 WC #710H

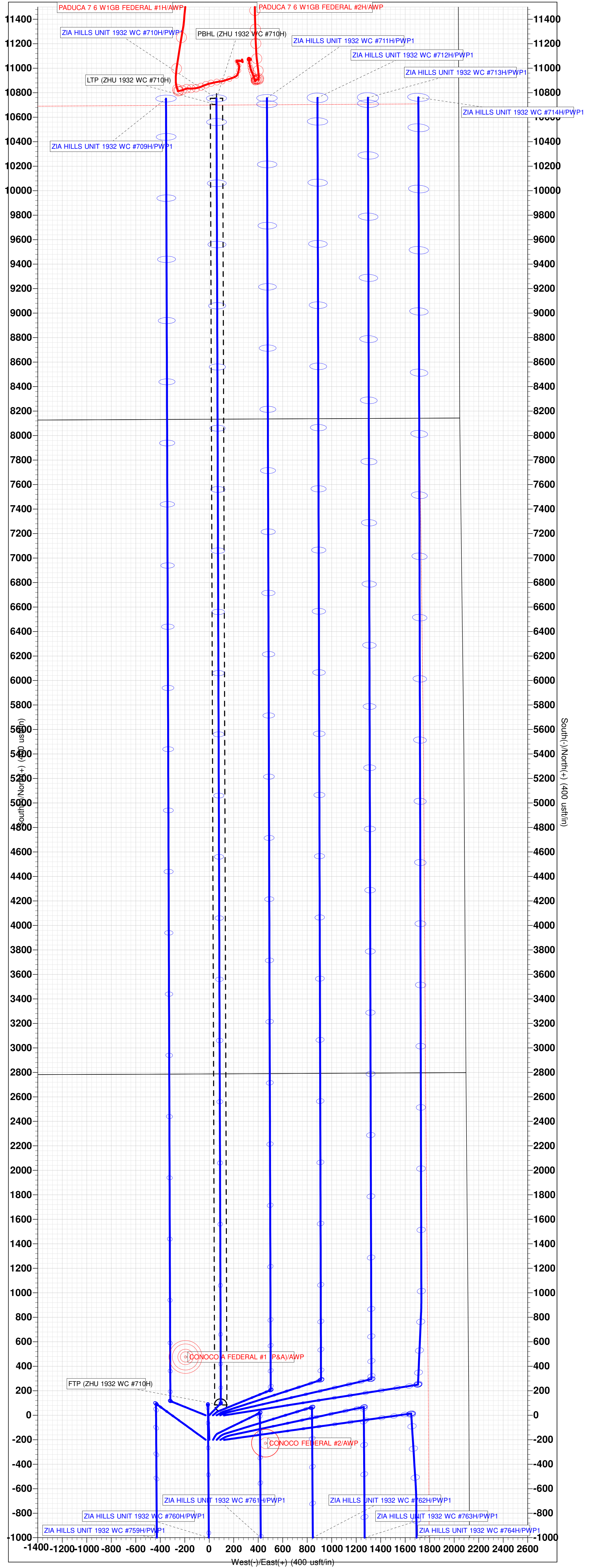
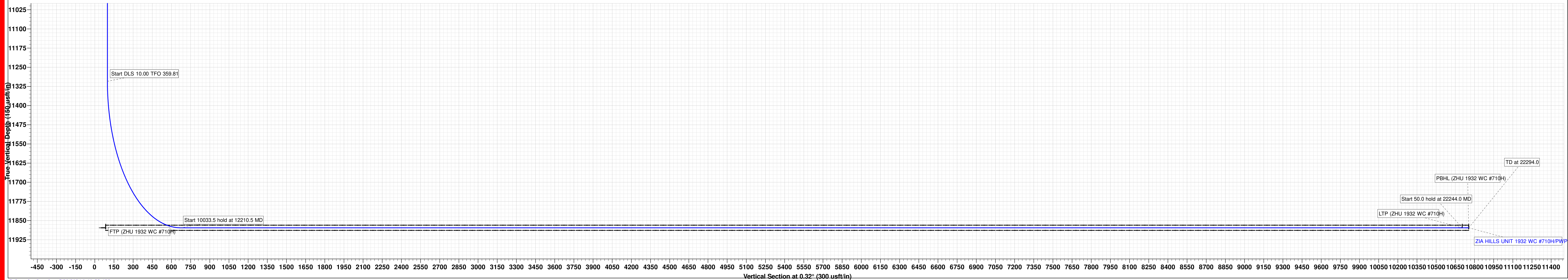
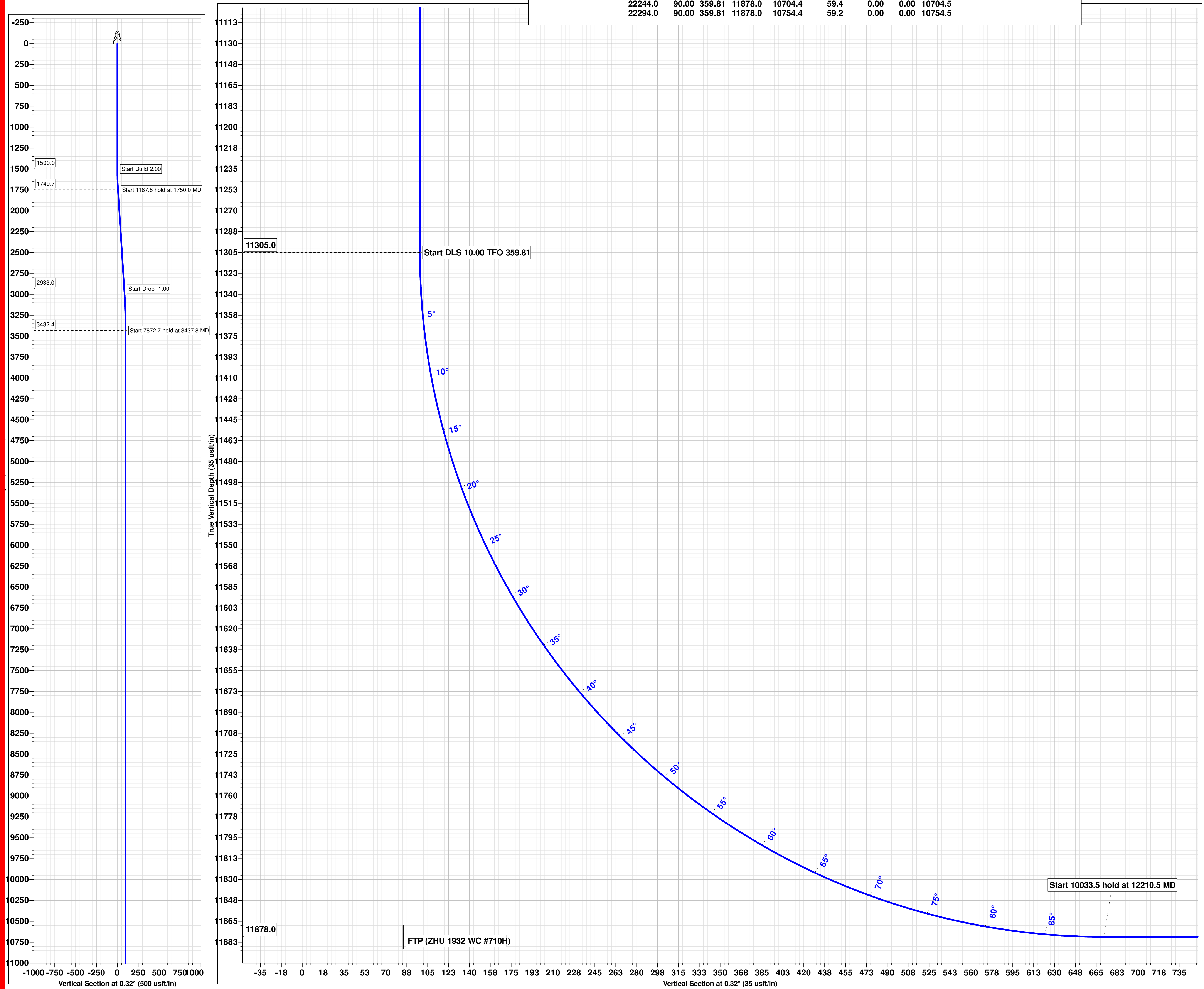
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	374369.56	692512.57	32° 1' 39.845 N	103° 42' 43.678 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (ZHU 1932 WC #710H)	11878.0	84.3	92.6	374453.90	692605.15
LTP (ZHU 1932 WC #710H)	11878.0	10704.4	59.4	385073.93	692571.96
PBHL (ZHU 1932 WC #710H)	11878.0	10754.4	59.3	385123.93	692571.84

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
1750.0	5.00	44.00	1749.7	7.8	7.6	2.00	44.00	7.9
2937.8	5.00	44.00	2933.0	82.3	79.5	0.00	0.00	82.7
3437.8	0.00	0.00	3432.4	98.0	94.6	1.00	180.00	98.5
11310.5	0.00	0.00	11305.0	98.0	94.6	0.00	0.00	98.5
12210.5	90.00	359.81	11878.0	671.0	92.7	10.00	359.81	671.5
22244.0	90.00	359.81	11878.0	10704.4	59.4	0.00	0.00	10704.5
22294.0	90.00	359.81	11878.0	10754.4	59.2	0.00	0.00	10754.5



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG OPERATING LLC
WELL NAME & NO.:	ZIA HILLS UNIT 1932 WC 710H
SURFACE HOLE FOOTAGE:	2535'/S & 2120'/E
BOTTOM HOLE FOOTAGE:	2620'/S & 1978'/E
LOCATION:	Section 19, T.26 S., R.32 E.
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

1. The 10-3/4 inch surface casing shall be set at approximately 1350 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 7-5/8 inch intermediate casing shall be set at approximately **11,211 feet**. **Keep casing full during run for collapse safety factor**. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
 - ❖ 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 5-1/2 inch production casing shall be set at approximately **22,294 feet**. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- 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 **10-3/4 inch** surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

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

D. SPECIAL REQUIREMENT (S)

Unit Wells

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

Commercial Well Determination

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

Casing Clearance:

- Overlap clearance OK for production interval

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

GENERAL REQUIREMENTS

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

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

- If well located in 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

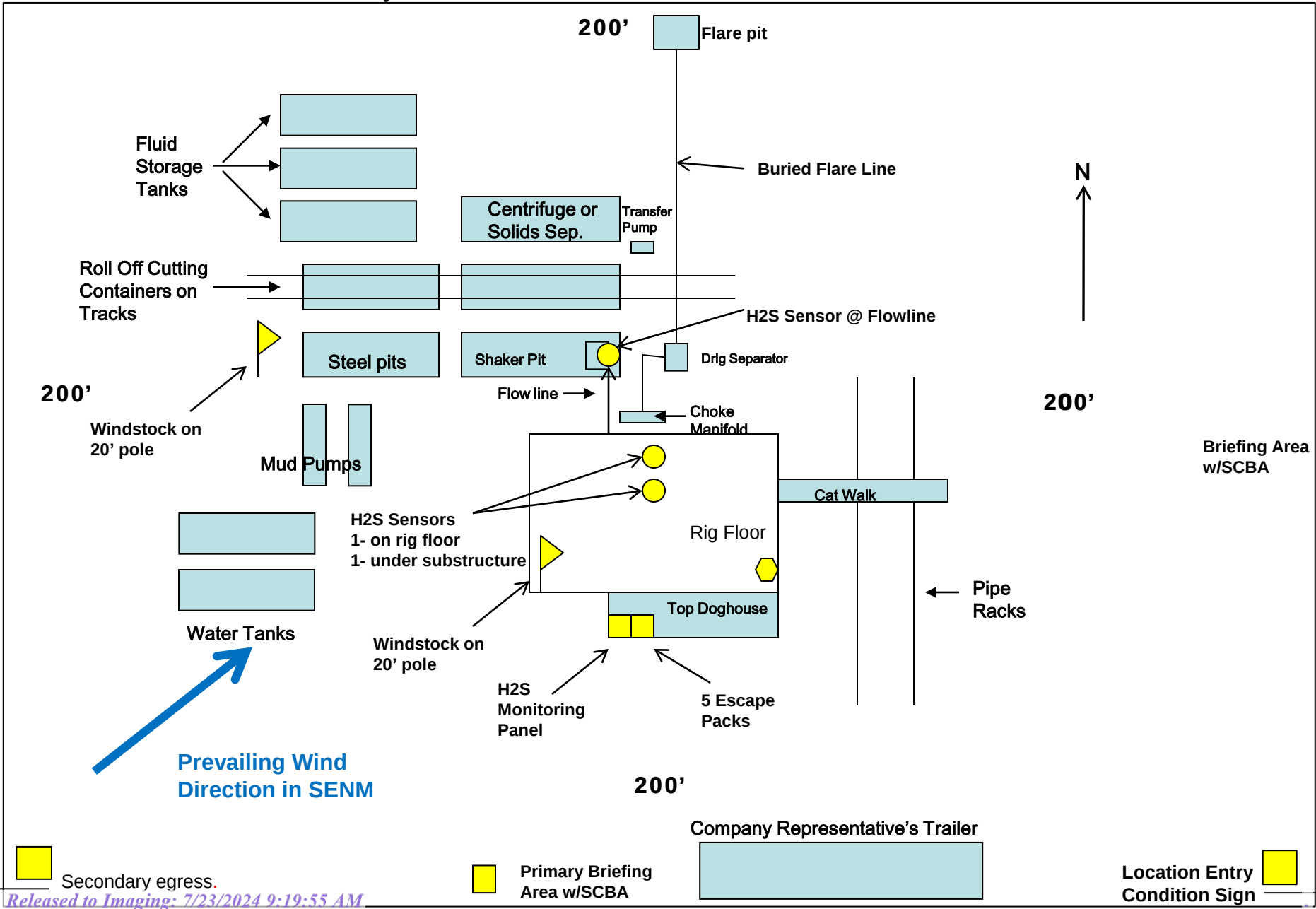
disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

KPI 7/10/2024

COC 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 364351

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 364351
	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	7/23/2024
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	7/23/2024
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	7/23/2024
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/23/2024
pkautz	If cement does not circulate on any string, a CBL is required for that string of casing	7/23/2024